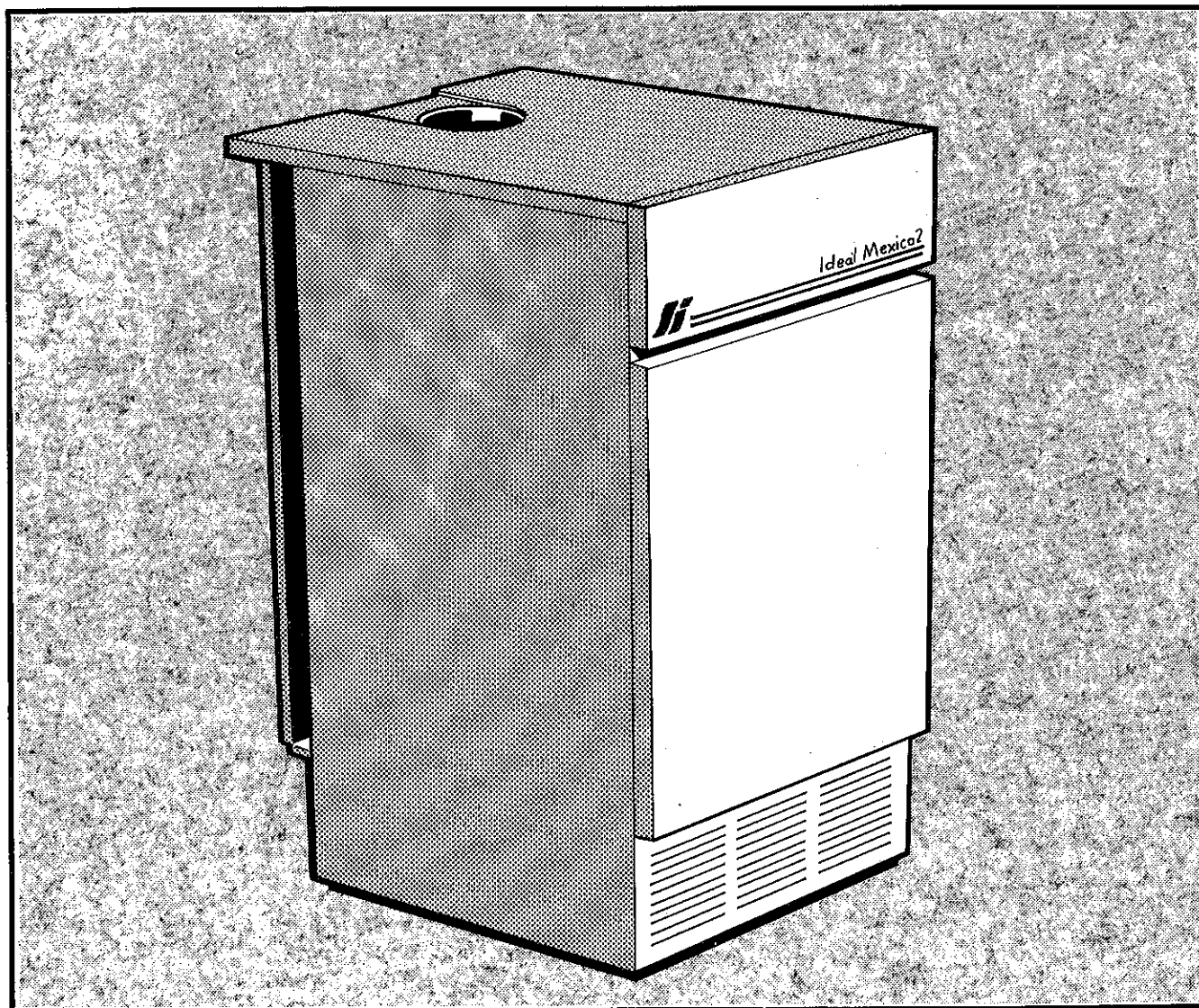


IDEAL MEXICO SUPER 2 CF 60 P Open Flue Gas Boilers. Installation & Servicing.

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

Note. The appliances covered by this book are fitted with HONEYWELL gas controls.

IMPORTANT. These appliances are for use with **PROPANE ONLY**



NOTE TO THE INSTALLER. LEAVE THESE INSTRUCTIONS ADJACENT TO THE APPLIANCE

Stelrad Ideal

GENERAL GUIDANCE

PERFORMANCE DATA

GENERAL GUIDANCE

GAS SUPPLY - FLUEING

Table 1 - GENERAL DATA

Boiler Size		CF 60P
Main Burner		AEROMATIC AC 19 / 123 271
Gas Control Valve		1/2 in. BSP. HONEYWELL VR 4700 E 1031, 240 V
Burner Injector		BRAY 10 700
Pilot Injector		HONEYWELL 20/23 P
Gas Supply Connection	in. BSP/t	Rc 1/2 (1/2)
Flue Connection	mm (in.)	100 (4)
No. of Boiler Sections		3
Flow connection & Return connection		Rc 1 (1 in BSP)
MAXIMUM Static Water Head	m ft	30.5 100
MINIMUM Static Water Head	m ft	1 3.3
Electrical Supply		240 V ~ 50 Hz
External Fuse Rating		3A
Water Content	Litre (gal)	7.4 (1.6)
Dry Weight	kg (lb)	99.0 (218.0)
Boiler Size	Height	mm (in.) 850 (33.5)
	Width	mm (in.) 440 (17.4)
	Depth	mm (in.) 533 (21.0)

Table 2 - PERFORMANCE DATA

Boiler Size		CF 60 P
Boiler Input		
NOMINAL	kW	23.4
	Btu/h	80000
Gas Consumption	l/s	0.246
Boiler Output to Water		
NOMINAL	kW	17.6
	Btu/h	60000
Burner Setting Pressure (Hot)	NOMINAL mbar	35.5
	in.w.g.	14.2
Inlet Pressure	NOMINAL mbar	37.0
	in.w.g.	14.8

- Notes.**
- Gas consumption is calculated using a calorific value of 95.0 MJ/m³ (2500 Btu/ft.³).
 - To obtain fuel consumption in liquid form, divide the above figures by 270.
 - The appliance is preset at the factory to give the nominal output at an inlet pressure of 37 mbar (14.8 in w.g.).

INTRODUCTION

The Ideal Mexico Super 2 CF 60 P is a floor standing, natural draught open flued gas boiler. It is range rated to provide a central heating output of 17.6 kW (60 000 Btu/h). The boiler has a cast iron heat exchanger, with an insulating blanket of aluminium foil backed fibre-glass held in place by clips, and comes fully assembled, complete with casing in white enamelled mild steel.


Programmer and pump kits which fit within the casing are available as optional extras and separate fitting instructions are included with the kits.

A door at the top of the casing front panel hinges down to reveal the boiler thermostat control (and the programmer if fitted).

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.

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 current I.E.E. Wiring Regulations, The Building Regulations (1985), Building Standards (Scotland), the Bye laws of the Local Water Undertaking and any relevant requirements of the Local Authority. Detailed recommendations are contained in the following British Standards Codes of Practice.

Codes of Practice.

- BS.6891:1988 Low pressure installation pipes.
- BS.6798 Installation of gas fired hot water 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).

IMPORTANT. It is important that no external control devices, (e.g. flue dampers, economisers, etc.) are 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 recommended by Stelrad Group Ltd., could invalidate the BSI certification and the normal appliance warranty. It could also infringe the Gas Safety Regulations and the above Regulations or other statutory requirements. Manufacturers notes must NOT be taken, in any way as overriding 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 installation, other than that required by the Local Authority and Building Regulations, is NOT necessary.

THE BOILER IS NOT SUITABLE FOR EXTERNAL INSTALLATION.

The boiler MUST NOT be installed in a bedroom, or in a room containing a bath or shower, or in a garage.

A compartment used to enclose the boiler MUST be designed and constructed specially for this purpose.

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

Details of essential features of cupboard/compartment design, including airing cupboard installations are given in BS.6798.

In siting the boiler, the following limitations MUST be observed:

- The position selected for installations MUST allow adequate space for servicing in front of the boiler and for air circulation around the boiler. The back of the boiler may be fitted up to the wall.
- This position MUST also permit the provision of a satisfactory flue and an adequate air supply. Installation in airing cupboards is NOT recommended.

GAS SUPPLY

The local Propane gas supplier should be consulted, at the installation planning stage, in order to establish the availability of an adequate supply of gas.

Installation pipes, cylinders and pressure regulations should be fitted in accordance with BS.5482:1.

Bulk tank installations must comply with the Home Office code of practice for the storage of Liquefied Petroleum Gas at fixed installations.

The complete installation MUST be tested for gas soundness and purged as described in the above Code.

FLUEING

The flue MUST be installed in accordance with the recommendations of BS.5440:1.

The following notes are intended for general guidance:

- The cross-sectional area of the flue, serving the boiler, MUST be NOT less than the area of the flue outlet of the boiler. If flue pipe is to be used, it MUST be NOT less than 100mm (4 in.) I.D.
- Flue pipes and fittings, should be constructed from one of the following materials:
 - Aluminium or Stainless Steel.
 - Cast Iron — coated on inside with acid-resistant vitreous enamel.
 - Other approved material.
- If twin walled flue pipe is used, it should be of an approved type.
- If a chimney is to be used, it should preferably be one that is composed of, or lined with, a non-porous acid resistant material.

Note. Chimneys lined with salt glazed, earthenware pipes, are acceptable if the pipes comply with BS.65 and BS.5440:1. A flue pipe, constructed from one of the materials in 2(a), 2(b), or 2(c) above, should form the initial connection to the lined chimneys. Where a chimney is to be used that is not composed of or lined with, a non-porous, acid resistant material it

GENERAL GUIDANCE

- should be lined with a stainless steel flexible flue liner which complies with BS.715:1986. The internal diameter of the liner MUST NOT be less than 100mm (4 in.), and the number of joints MUST be kept to a minimum.
- Before connecting the boiler to, or inserting a liner into a flue that has been previously used — then the flue MUST be thoroughly swept of any soot or loose material. If a registrar plate, restrictor plate or damper, etc. is fitted in the flue then it MUST be removed before connecting the boiler to or inserting a liner into the flue.
 - The flue should terminate in accordance with the relevant recommendations given in BS.5440:1.
 - The flue MUST be fitted with a terminal or ridge tile. The terminal shall be of an approved type. This terminal must NOT be installed within 600 mm (24 in) of an openable window, air vent or any other ventilation opening.
 - The chimney/flue lining MUST be sealed at both top and bottom.

IMPORTANT. It is absolutely ESSENTIAL to ensure, in practice that the flue discharge is in a draught free zone and products of combustion, discharging from the terminal cannot re-enter the building, or any other adjacent building through ventilators, windows, doors, other sources of natural air infiltration or forced ventilation/air conditioning systems.

Continuous spillage of the products of combustion must NEVER be allowed to issue from the draught diverter relief outlets. If this eventually should occur, the appliance MUST be turned OFF immediately and the local Propane Supplier called into investigate.

AIR SUPPLY

Detailed recommendations for air supply are given in BS.5440:2.

The following notes are intended for general guidance:

- The room, or internal space, 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 at least the same size, direct to outside air.
The minimum effective area of the permanent air vent(s) are specified below, and are related to maximum rated heat input of the boiler.

Table 3

Boiler Size	CF 60 P
Effective Area cm ²	74
(in ²)	12

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 Propane Supplier 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.

AIR SUPPLY - VENTILATION

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

The minimum effective areas of the permanent air vents, required in the cupboard/compartment, are specified below, and are related to the maximum rated heat input of the boiler.

Table 4:- CF 60 P

Position of air vent	Air from room/ internal space	Air direct from outside
HIGH LEVEL cm ² (in ²)	211 (33)	106 (17)
LOW LEVEL cm ² (in ²)	422 (66)	211 (33)

Notes

- Both air vents MUST communicate with the same room or internal space, or MUST be on the same wall to outside air.
- In siting the air vents care must be taken to avoid freezing of pipework.
- 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 as previously specified.
- The cupboard/compartment air vents MUST NOT communicate with a bedroom, bed sitting room, or a room containing a bath or shower.

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 flue 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

GENERAL GUIDANCE

should have an area of 50% in excess of the value quoted above.

WATER CIRCULATION SYSTEM

The boiler must NOT be used for direct hot water supply or for sealed system.

The boiler 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.

Note. The boiler is NOT suitable for gravity heating systems. The hydraulic resistances of the boilers, at MAXIMUM OUTPUT with 11°C (20°F) temperature differential, are shown 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.5549:1.

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.

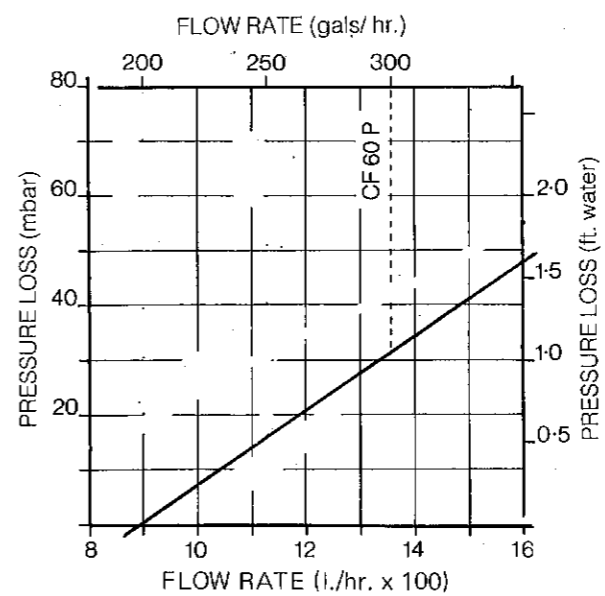
The hot water storage cylinder MUST be of the indirect type and should be preferably manufactured of copper. Single feed indirect cylinders are not preferred.

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, in accordance with the water bye laws.

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.



Dotted lines represent flow rates equivalent to a temperature rise of 11°C (20°F)

FIG. 1 HYDRAULIC RESISTANCE GRAPH

Draining taps should be at least 1/2 in. nominal size and be in accordance with BS.2879.

If required a drain tap (not supplied) may be fitted to an unused bottom 1" BSP tapping on the front of the boiler.

WATER CIRCULATION - ELECTRICAL SUPPLY

ELECTRICAL SUPPLY

Wiring external to the appliance MUST be in accordance with the current I.E.E. Wiring 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, having a 3mm (1/8 in.) contact separation in both poles and serving only the boiler may be used.

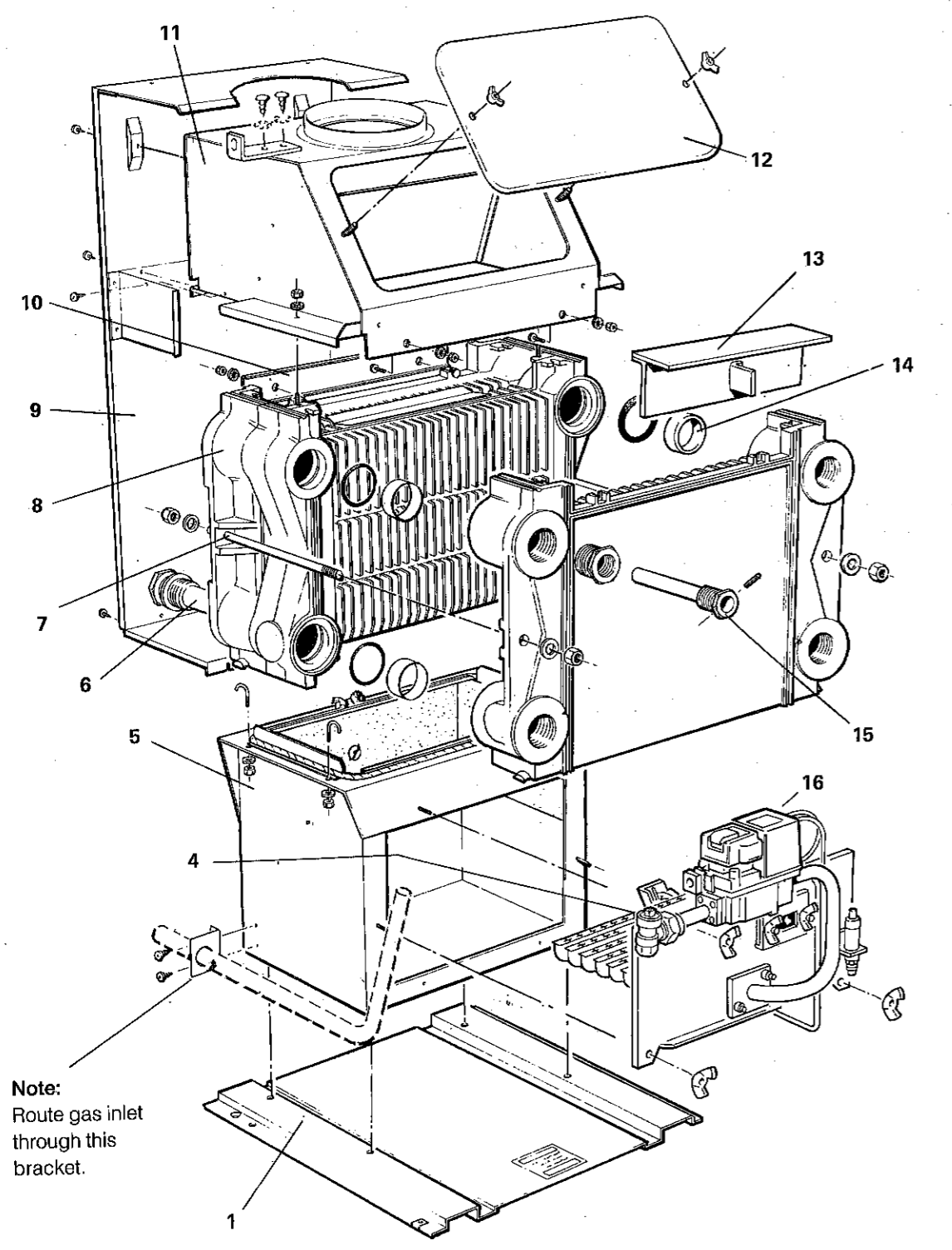
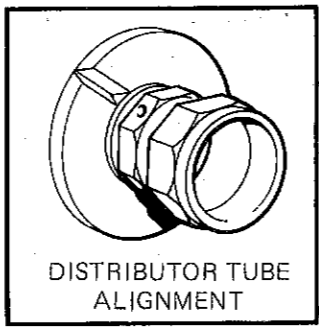
The point of connection to the mains should be readily accessible and adjacent to the boiler.

INSTALLATION

BOILER ASSEMBLY

1 BOILER ASSEMBLY - Exploded View

- LEGEND**
- 1. Boiler baseplate.
 - 4. Gas service cock
 - 5. Combustion chamber
 - 6. Distributor tube
 - 7. Tie rod
 - 8. Heat exchanger
 - 9. Draught diverter back panel assembly
 - 10. Rear infill
 - 11. Collector hood
 - 12. Cleanout cover
 - 13. Flue baffle
 - 14. Section alignment rings and 'O' rings
 - 15. Thermostat pocket
 - 16. Burner & controls assembly



Note:
Route gas inlet through this bracket.

Note. The boiler assembly is shown with the casing removed

INSTALLATION

2 UNPACKING

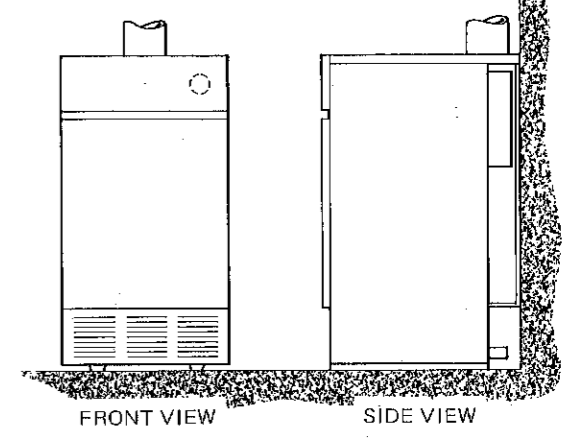
Unpack the boiler and check the contents.
The boiler is supplied fully assembled in one pack A.

- 1 in. BSP plugs, 5 off
- 1 in. - 1/2 in. BSP reducing bush, 1 off
- Distributor tube, 1 off
- Thermostat pocket, 1 off
- Thermostat retaining clip, 1 off
- Thermostat retaining pin, 1 off
- Output setting label, 1 off
- Complete Boiler
- Packing list, 1 off

UNPACKING - BOILER CLEARANCES

3 FLOOR MOUNTING

1. The floor must be flat and level and of a suitable load bearing capacity.



2. The back of the boiler may be fitted up to the wall.

4 BOILER CLEARANCES

The minimum overall dimensions of the space in which the boiler is to operate and to facilitate servicing, are as follows:—

If an optional concealment grille is to be fitted see note below.

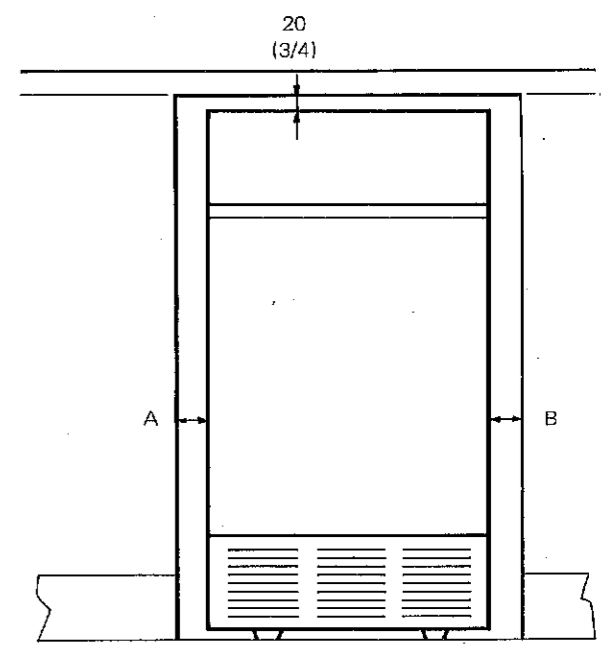
Additional space will be required for installation, depending upon site conditions.

- IMPORTANT** (a) In order to facilitate gas connection a clearance of at least 100mm (4 in.) must be available to either the left-hand or right-hand side DURING installation — Refer to Frame 6.
- (b) A MINIMUM clearance of 25mm (1 in.) should also be maintained between the flue pipe and any adjacent combustible material.

Boiler Size	Width	Depth	Height
CF 60 P	mm (in.)	550 (21 5/8)	535 (21) 870 (34 1/4)

In addition, a MINIMUM clearance of 533mm (21 in.) MUST be available at the front of the boiler for servicing. See illustration below for boiler clearances.

	CF 60 P
At the top of the boiler	mm (in.) 20 (3/4)
MINIMUM at ONE side of the boiler	A or B mm (in.) 10 (3/8)
MINIMUM aggregate clearance	A plus B mm (in.) 110 (4 1/2)

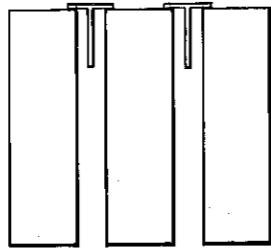


Note. A clip-on concealment panel is available as an optional extra — See separate fitting instruction. If such a panel is fitted, the clearance on that side MUST NOT be less than 110mm, and not less than the minimum specified above on the other side.

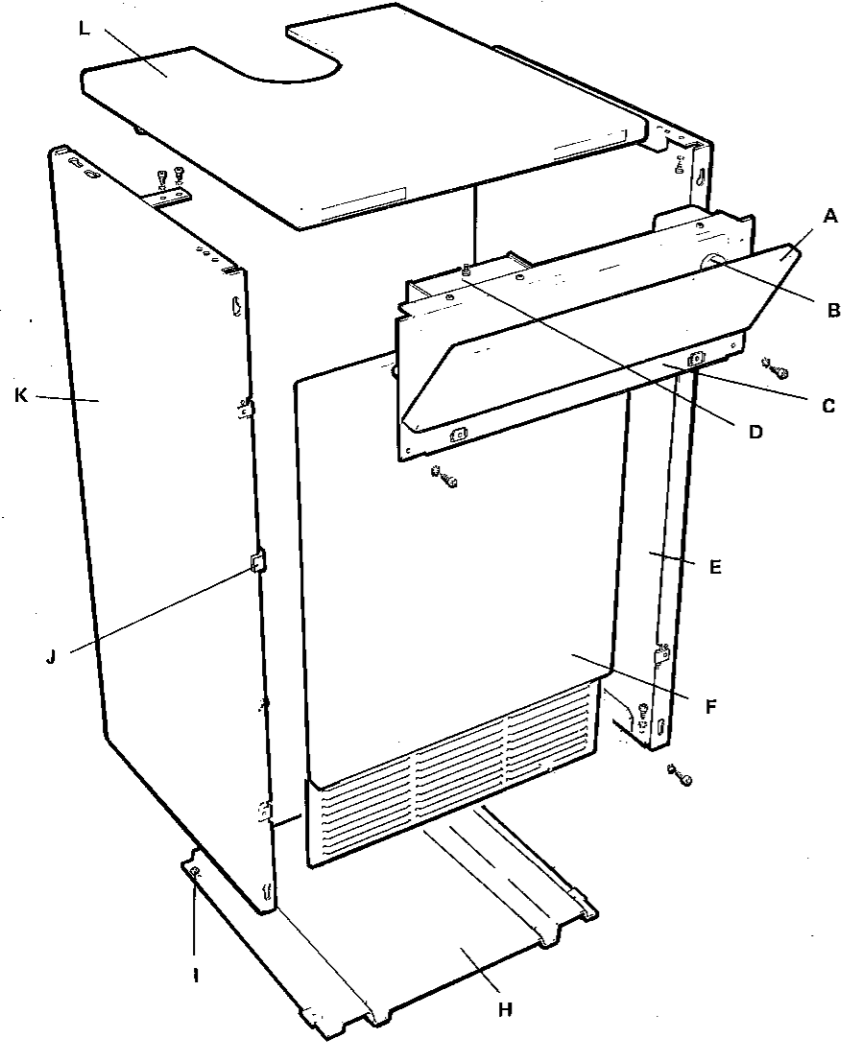
5 BOILER CASING REMOVAL

- To install the boiler, the casing MUST be removed.
1. Lift off the lower front panel (F).
 2. Remove the gas valve cover by removing the retaining screw and disconnect the electrical leads. Refer to Frame 2 'Servicing'.
 3. Release the gas valve lead from the retaining clip.
 4. Remove the two screws securing the control panel (C) and disengage the panel by lowering and pulling it forward. Place the panel safely to one side.
 5. Remove the two screws securing the top panel (L) to the side panels (E) and (K).
 6. Draw the top panel (L) forward slightly and lift it off the boiler.
 7. Remove the two screws securing the R.H. side panel (E) to the flue collector and the base plate.
 8. Pull the panel forward slightly, lifting it clear of the locating peg (I), and remove it from the boiler.
 9. Repeat steps 7 and 8 to remove the L.H. side panel (K).
 10. The boiler is held to the packaging base by four M 6 screws. Remove the front screws. Slacken the rear screws and remove the boiler from the packaging base.
 11. Remove the flue clean-out cover and ensure that the baffles are fully inserted in the flue-ways.

BOILER FRONT



CF 60 P

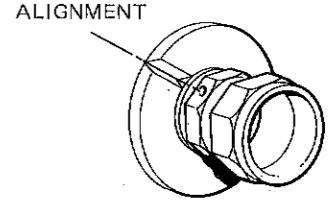


- LEGEND**
- A. Control door
 - B. Boiler thermostat
 - C. Controls panel
 - D. Control box
 - E. RH side panel
 - F. Lower front panel
 - H. Baseplate
 - I. Locating lugs
 - J. Cable straps
 - K. LH side panel
 - L. Top panel

6 PREPARING THE BOILER

- Notes** (a) 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.
- (b) If an Optional Pump Kit is to be used it must be fitted at this stage — refer to the separate fitting instructions included with the kit.

1. Screw the distributor tube, supplied with 1 in. BSP x 28mm copper adaptor, into the selected heating return tapping, using an appropriate jointing material — Refer to Frame 8.
- IT IS IMPERATIVE THAT THE INDEX MARK ON THE DISTRIBUTOR BUSH IS IN ALIGNMENT WITH THE MARK ON THE SECTION BOSS AS SHOWN.
- DO NOT disturb it when connecting subsequent pipework. Fully Pumped systems, using more than one pump serving separate zones, MUST have a common return connection to the distributor tube.



RH return tapping shown

Table 5 FULLY PUMPED SYSTEMS

CONNECTIONS AS VIEWED FROM FRONT		THERMOSTAT POSITION
Back Section		Front Section
Flow	Return	Top
LH	LH	LH
LH	RH	LH
RH	RH	RH
RH	LH	RH

Note. The pump may be fitted to the flow or return.

2. Select the desired pumped flow tapping.

3. Screw the boiler thermostat pocket, supplied, into the appropriate front section tapping, using an approved jointing material. Refer to Tables 7 and 8

Table 6 GRAVITY DOMESTIC HOT WATER AND PUMPED CENTRAL HEATING

CONNECTIONS AS VIEWED FROM FRONT				THERMOSTAT POSITION
Back Section				Front Section
CH		DHW		Top
Flow	Return	Flow	Return	
LH	LH	RH	RH	LH
LH	RH	RH	LH	LH
RH	RH	LH	LH	RH
RH	LH	LH	RH	RH

7 WATER CONNECTIONS

1. Connect appropriate fittings to the rear tappings and plug any unused tappings.
- Note.** If using iron elbows, fit a short straight connector into the boiler tapping first, in order to clear the casing when fitted.
2. Place the boiler in position.
- Connect the system flow and return pipework to the boiler as appropriate — Refer to Frames 8 and 9 for guidance on system design.

- Notes** (a) When the required output exceeds 14.4kW (49,000 Btu/h) 28mm (1 in.) pumped flow and return pipes should be used both to and from the boiler.
- (b) Gravity pipework and connections MUST be at least 28mm (1 in.).
3. Ensure that all valves are open, fill and vent the system and check for water soundness.
- Notes** (a) Isolating valves must be fitted as close to the pump as possible.
- (b) The boiler is not suitable for use with a direct hot water cylinder, or a sealed system.

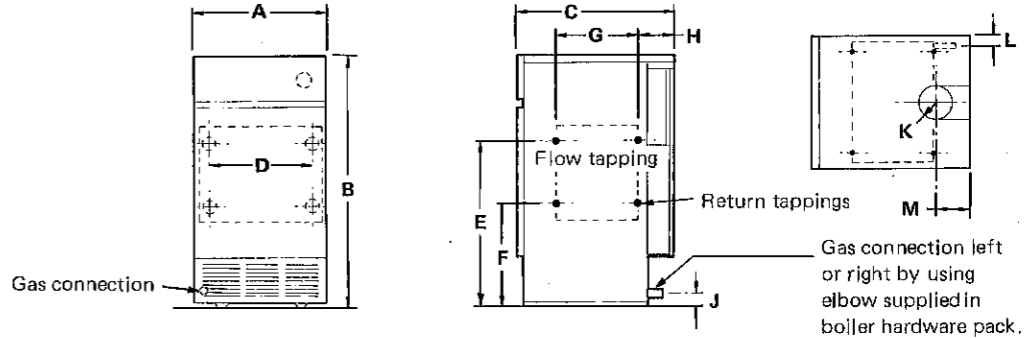


Table 7

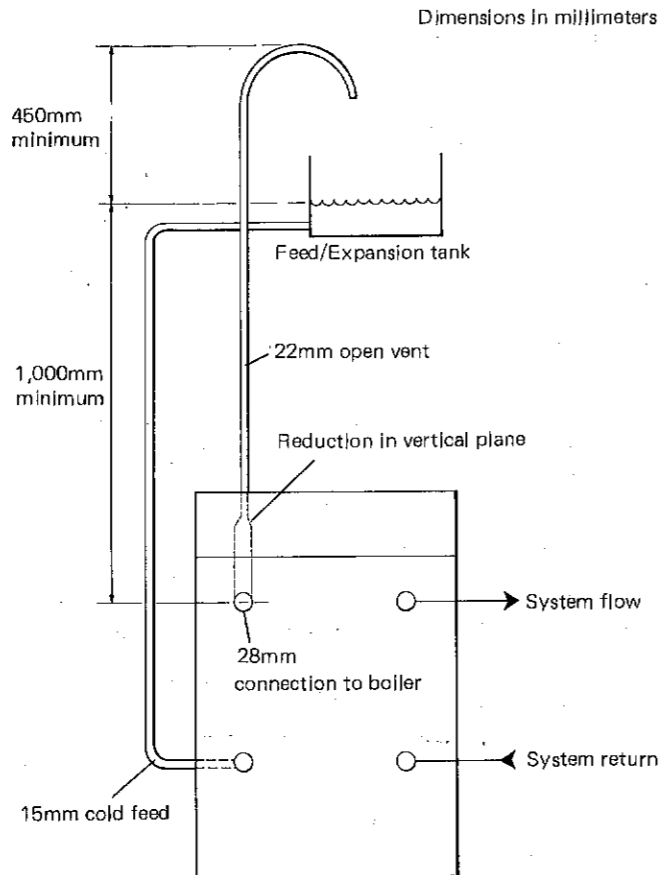
BOILER SIZE	Dimn A	B	C	D	E	F	G	H	J	K	L	M	
CF 60 P	mm	440	850	533	358	560	335	218	122	50	60	28	120
	in	17 3/8	33 1/2	21	14 1/8	22	13 1/4	8 5/8	4 3/4	2	2 3/8	1 1/8	4 3/4

8 MINIMUM REQUIREMENTS. Fully pumped systems.

The following assumptions and conditions apply.

1. Open vent and cold feed connections are made to the boiler flow/return tapplings according to the options shown in Table 5 Frame 6.
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 (3 ft/s), whilst the pump flow rate is set to provide 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 causes by operation of motorised valves, pumps etc.

Due allowance MUST be made if surging is liable to occur.
If in any doubt, contact Stelrad Group.



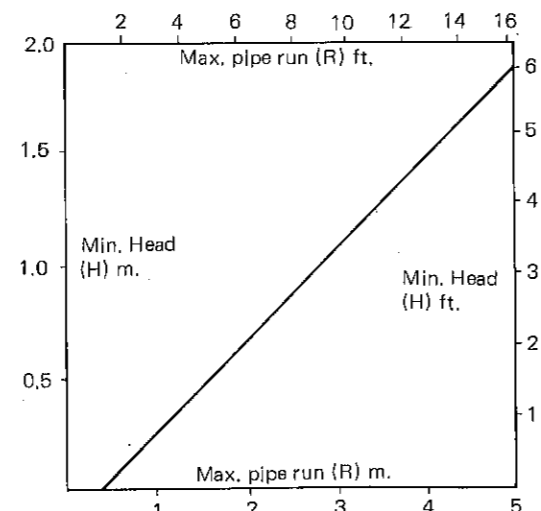
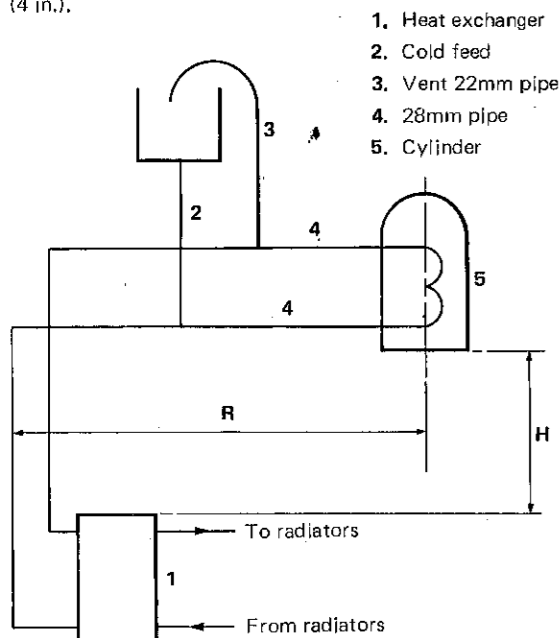
9 GRAVITY HOT WATER AND PUMPED CENTRAL HEATING

1. Separate flow and return connections are used for each service.
All possible configurations are shown in Table 6, Frame 6 and ONLY those connections shown should be used.
2. The schematic pipework graph, has been calculated on the assumption that NOT MORE than eight elbows are used in the gravity loop, including entry to the boiler.
3. For each extra elbow, in excess of eight, (R) MUST be reduced by 300mm (12 in.), or (H) increased by 100mm (4 in.).

4. Whatever value is selected for (R), i.e. the horizontal distance between the centre line of the cylinder and the boiler tapplings 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.

- Notes**
- (a) Flow and return pipes should rise vertically on leaving the boiler.
 - (b) Horizontal pipes should be ABOVE ceiling level and as short as possible.
 - (c) A MINIMUM inclination of 25mm per 3m run (1 in. per 10 ft) is required to avoid air locks.

If the above conditions cannot be met pumped primaries should be used.



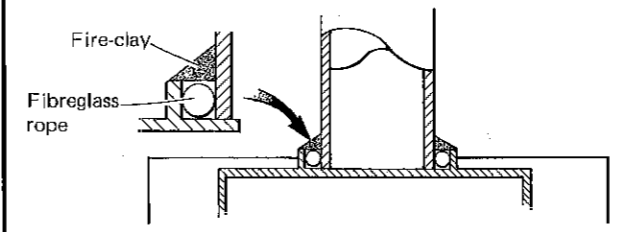
10 FLUE CONNECTION

Connect the flue pipe to the flue outlet.

Flue pipe spigot and socket connections should be sealed with fibreglass rope, or similar, and suitable fireclay cement.

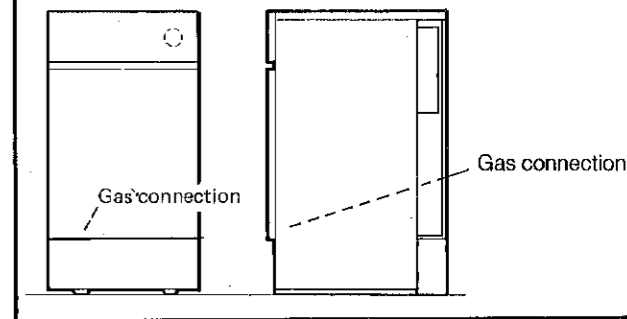
Notes:

- (a) The boiler flue connection outlet size is suitable for flue pipe conforming to BS.567. If sheet steel flue pipe is fitted, a suitable adaptor must be used.
- (b) To facilitate installation and subsequent disconnections, it is recommended that a slip or split socket be included in the flue installation adjacent to the boiler flue outlet connection.
- (c) A minimum of 600mm (2 ft.) of vertical flue directly above the boiler should be provided.



11 GAS CONNECTION

1. A MINIMUM working gas pressure of 37 mbar (14.8 in.wg) MUST be available at the boiler inlet.
2. Extend a gas supply NOT LESS THAN 15 mm (1/2 in.) O.D. to the boiler and connect to the gas cock situated at the front left hand side of the boiler.
3. Test the gas installation for soundness and purge in accordance with BS.6891:1988 – Refer to Frame 22(b).



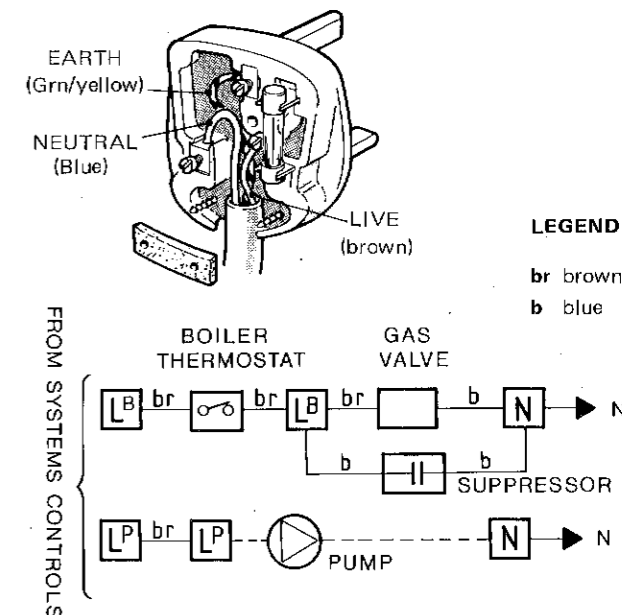
12 ELECTRICAL CONNECTIONS

WARNING: This appliance MUST be efficiently earthed.

A mains supply of 240 V ~ 50Hz Single Phase is required. All external controls & external wiring MUST be suitable for mains voltage. Wiring should be 3-core, PVC insulated cable, NOT LESS than 24/0.2mm (0.75mm²) to BS.6500, Table 16.

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

The supply connection may be made via a removable plug to a shuttered socket/outlet preferably adjacent to the boiler, and should such a plug be used for connection to the mains, it MUST be of 3-pin type, wired as shown, fused at 3A, & comply with the requirements of BS.1363. Alternatively a fused, double pole switch, having a 3mm (1/8 in.) in contact separation in both poles and serving only the boiler may be used.



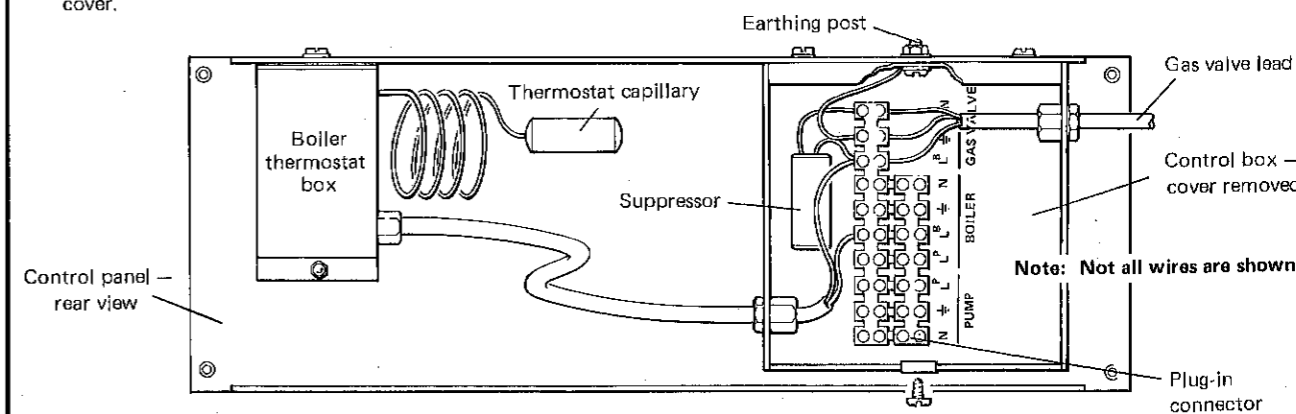
13 INTERNAL WIRING

Flow and Pictorial wiring diagrams are shown in Frames 12 and 15. A Schematic wiring diagram is included on the Lighting Instructions Label.

1. Remove the securing screw and lift off the control box cover.

2. Route the electrical leads into the box and wire into the plug-in connector as shown.

- Notes**
- (a) Secure each lead with one of the cable clamps on the control box cover.
 - (b) The mains lead connection MUST be made in such a way that, should the lead slip from its anchorage the current carrying conductors became taut before the earthing conductor.



14 EXTERNAL CONTROLS

External wiring MUST be in accordance with the current I.E.E. Wiring Regulations.

The wiring diagrams illustrated in Frames 16-18 cover the systems most likely to be used with this appliance.

For wiring external controls to the MEXICO SUPER 2 boiler, reference should be made to the system wiring diagram supplied by the relevant Manufacturer, in conjunction with the wiring diagrams shown in Frames 12 and 15. Difficulty in wiring should not arise, provided the following directions are observed.

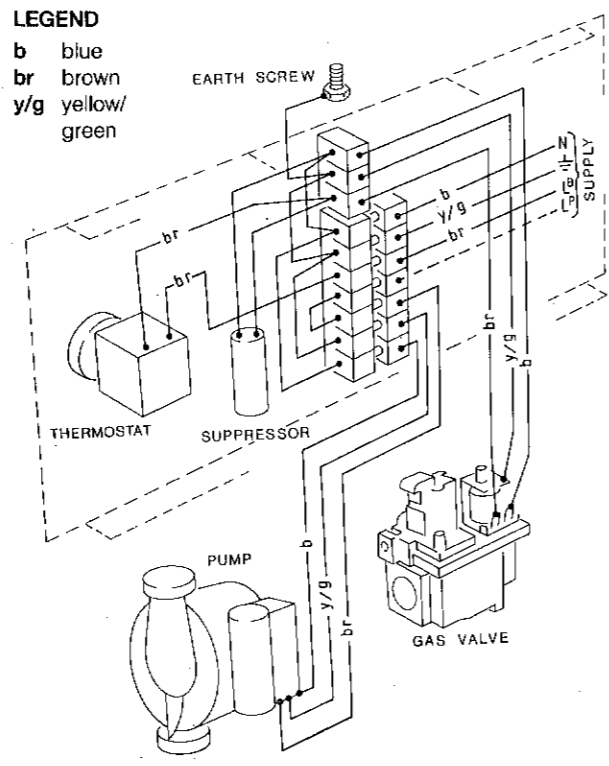
1. Controls that switch the system ON and OFF, e.g. a time switch MUST be wired in series, in the live mains lead to the boiler.
2. Controls that over-ride on ON/OFF control, e.g. a frost thermostat, MUST be wired into the mains lead in parallel, with the control(s) to be over-riden - refer to Frame 19.
3. If a propriety system is used, follow the instructions supplied by the Manufacturers.

Note. If there are no external controls, the circulating pump MUST also be wired into the control box.

15 PICTORIAL WIRING DIAGRAM

LEGEND

- b blue
- br brown
- y/g yellow/green



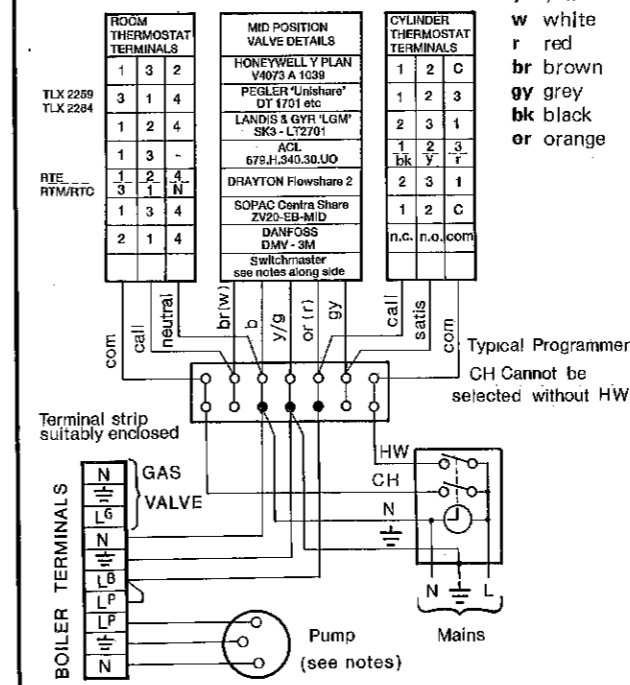
18 MID-POSITION VALVE SYSTEM (Pumped Only)

Notes:

1. SOME EARTH WIRES ARE OMITTED FOR CLARITY - ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
2. Black dots denote alternative pump connections.
3. This is fully controlled system - set boiler thermostat to highest position.
4. Numbering of thermostat terminals is specific to manufacturer.
5. Switchmaster MID! operates similarly, but the wiring is not identical - see manufacturer's wiring diagram.

LEGEND

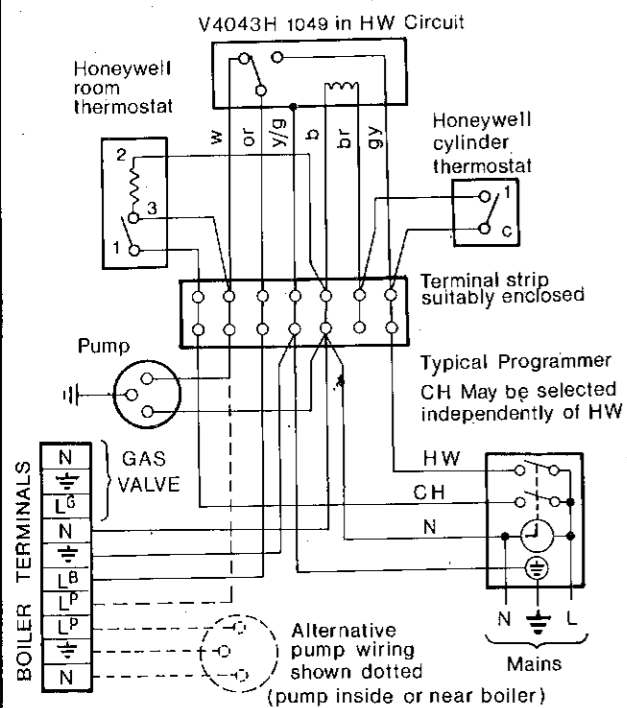
- b blue
- g green
- y yellow
- w white
- r red
- br brown
- gy grey
- bk black
- or orange



16 HONEYWELL 'C' PLAN Gravity H.W & pumped C.H.

Notes:

1. SOME EARTH WIRES ARE OMITTED FOR CLARITY - ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
2. Numbering of the thermostat terminals is specific to manufacturer shown.



LEGEND

- b blue
- g green
- y yellow
- w white
- r red
- br brown
- gy grey
- bk black
- or orange

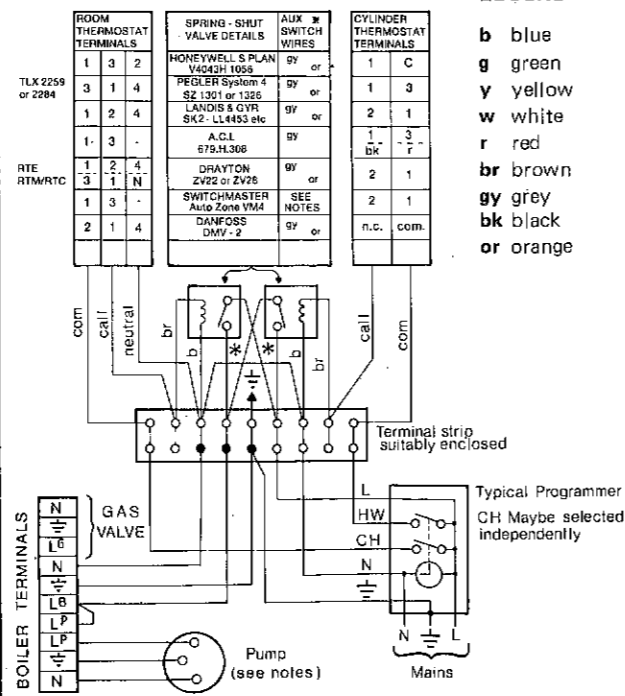
17 TWO SPRING CLOSED VALVES Pumped only

Notes:

1. SOME EARTH WIRES ARE OMITTED FOR CLARITY - ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
2. This is a fully controlled system - therefore, set the boiler thermostat to its highest position.
3. Numbering of thermostat terminals is specific to manufacturer indicated.
4. SWITCHMASTER Autozone valve also has grey and orange leads, both the ORANGE wire (not the grey wire) must be connected to the incoming live supply.
5. Black dots denote alternative pump connections.

LEGEND

- b blue
- g green
- y yellow
- w white
- r red
- br brown
- gy grey
- bk black
- or orange



20 FITTING THE CASING Refer also to Frame 21

1. Offer up the RH side panel (E) locating it with the peg (I) and push the panel back.
2. Secure the panel to the base plate and the flue collector using the screws previously removed.
3. Repeat steps 1 and 2 to refit the LH side panel (K).

IMPORTANT. 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.

4. Place the top panel (L) in position and push back.
5. Secure the top panel to the side panels using the screws previously removed.
6. Replace the control box cover and refit the control panel (C) using the screws previously removed.
7. Insert the thermostat phial and phial retaining clips into the thermostat pocket, taking care NOT to kink the thermostat capillary as it is unwound, and secure it with the split pins shown.

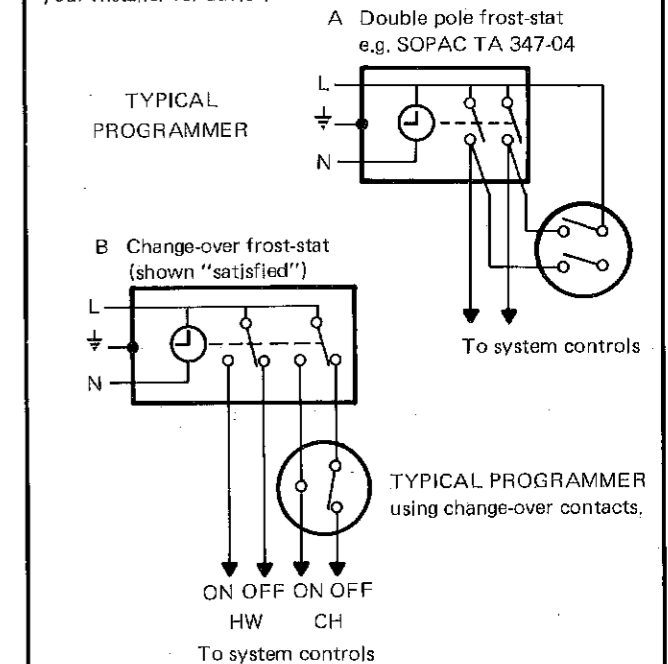
19 FROST PROTECTION

Central Heating systems fitted inside the house do not normally require frost protection, since the house acts as an overnight 'storage heater' and can generally be left at least 24 hours without fear of frost damage.

If however, parts of the pipework run outside the house, or if it is desired to leave the boiler off for more than a day or so, then a frost-stat should be wired into the system. This is normally done at the programmer, in which case the programme SELECTOR switches are set to 'Off' and all other controls MUST be left in the running position. The frost-stat should be sited in a cold place, but where it can sense heat from the system. Wiring should be basically as shown, with minimal disturbance to other wiring to the programmer. Designation of the terminals will vary; but the programmer and thermostat manufacturer's leaflets will give full details.

Diagram A shows a double pole frost-stat, which should suffice for all systems which do not use the 'Off' terminals of the programmer.

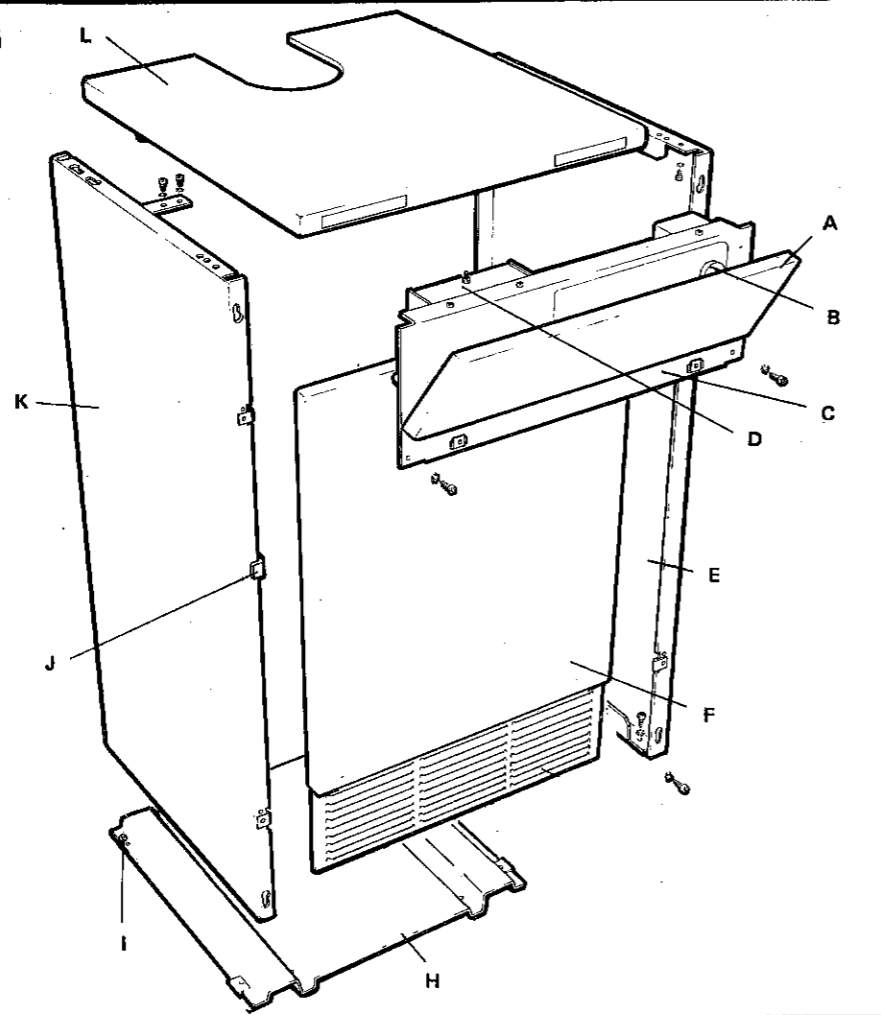
Diagram B shows a 'change-over' frost-stat, which will cover most systems which do use "CH OFF". If, however, on such a system, the HW pipework is in an isolated part of the house, a second frost-stat may be used to protect it also. If in doubt, ask your Installer for advice.



21 FITTING THE CASING
Cont.

LEGEND

- A. Control door
- B. Boiler thermostat
- C. Control panel
- D. Control box
- E. RH side panel
- F. Lower front panel
- H. Baseplate
- I. Locating pegs
- J. Cable straps
- K. LH side panel
- L. Top panel



22 COMMISSIONING AND TESTING

(a) Electrical Installation

1. Checks to ensure electrical safety should be carried out by a competent person.
2. ALWAYS carry out the preliminary electrical system checks as detailed on the Instructions for the British Gas Multimeter, or similar test meter.

(b) Gas Installation

1. The whole of the gas installation, including the meter, should be inspected and tested for soundness, and purged in accordance with the recommendations of BS.6891:1988.
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.
2. Purging air from the gas installation may be expedited by loosening the union on the gas service cock and purging until gas is smelled.
3. Retighten the union and check for gas soundness.

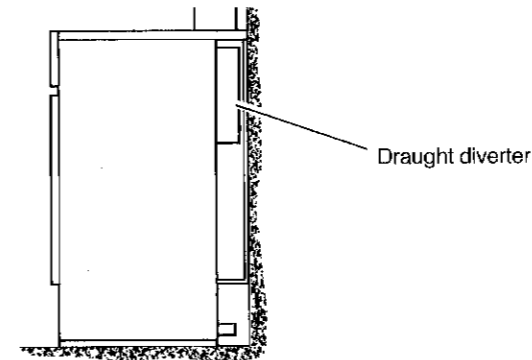
23 INITIAL LIGHTING Refer also to Frame 24

Note. The pilot burner connection can be tested for gas soundness - refer to Frame 25.

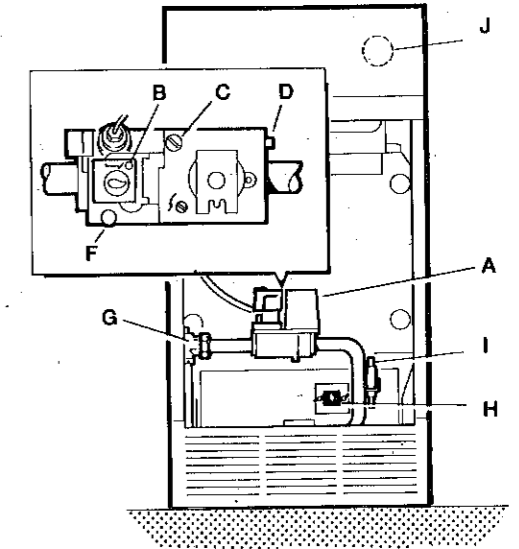
1. Connect the gas valve electrical leads.
2. Check that the gas service cock (G) is ON and the boiler thermostat knob (J) is OFF.
3. Loosen the screw in the burner pressure test nipple (D) and connect a gas pressure gauge via a flexible tube.
4. Slide the gas control button (B) to the RIGHT until resistance is felt and then release it.
5. Push in and retain fully depressed the gas control button (B), press and release piezo ignition button (I) repeatedly until the pilot lights.
6. Hold the gas control button (B) depressed for 15 seconds after the pilot burner has ignited. If the pilot burner fails to remain alight at this stage repeat the procedure detailed above, but wait longer than 15 seconds before releasing the gas control button (B).

24 INITIAL LIGHTING Cont.

7. Check the appearance of the pilot flame to ensure that it envelopes the tip of the thermocouple and is approximately 25mm (in.) long. The pilot flame is factory set but if adjustment is necessary refer to Frame 9 'Servicing'.
8. Switch the electricity supply ON and check that all external controls are calling for heat.
9. Turn the boiler thermostat knob (J) to position 6 and check that the burner cross-lights smoothly.
10. Test for gas soundness around the boiler gas components using leak detection fluid.
11. Operate the boiler for 10 minutes to stabilise the burner temperature. The boiler is pre-set at the factory to its nominal rating.
12. Immediately check that there is no spillage of combustion products from the draught diverter outlets by carrying out a spillage test as detailed in BS. 5440:1;
Note. This MUST be done before any building in.



BOILER CONTROLS

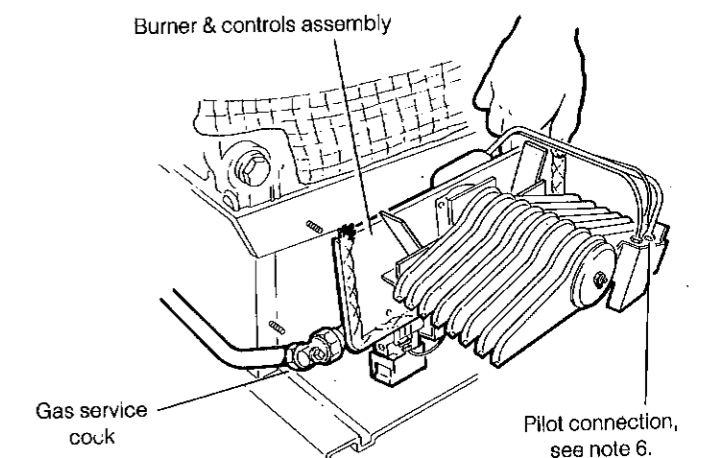


LEGEND

- A. Gas control valve
- B. Control valve button
- C. Pilot pressure adjuster
- D. Burner pressure test nipple
- F. Inlet pressure test nipple
- G. Gas service cock
- H. Sightglass
- I. Piezo ignition button
- J. Boiler thermostat knob

25 PILOT BURNER CONNECTION GAS SOUNDNESS

1. Turn the gas service cock to OFF and undo the union nut.
2. Remove the four wing nuts and withdraw the burner and controls assembly complete, from the boiler.
3. Invert the burner assembly and re-connect to the gas service cock.
4. Turn the gas service cock to ON.
5. Light the pilot burner - Refer to Frame 23.
6. Test for gas soundness around the pilot burner connection, using leak detection fluid.
7. Turn the gas service cock to OFF and return the burner and controls assembly to the normal working position.



26 GENERAL CHECKS

Make the following checks for correct operation:

1. Turn the boiler thermostat OFF and ON and check that the main burner lights and extinguishes in response.
2. Check that the programmer, if fitted, and all other system controls function correctly.
Operate each control separately and check that the main burner or circulating pump, as the case may be, responds.

3. Flame Failure Device

Check the operation of the flame failure device in the gas control valve as follows:

- (a) Extinguish the pilot flame by closing the gas service cock (C) and note the time taken for the flame failure device to shut down, identified by a click within the gas control valve.
This MUST NOT be longer than 60 seconds.
- (b) Open the gas service cock and re-light the pilot.
- (c) Turn the boiler thermostat (H) ON and the burner should light.
- (d) Slide the gas control button to the OFF position - refer to Frame 24. The main burner and pilot flame should shut down immediately.

Note. A latch in the gas control valve provides a safety delay period of approximately 30 seconds before the boiler can be re-lit.

4. Water Circulation System

- (a) With the system HOT, examine all water connections for soundness.
- (b) With the system still hot turn off the gas, water and electricity supplies to the boiler and drain down in order to complete the flushing process.
- (c) Re-fill and vent the system, clear all air locks and again check for water soundness.
- (d) Balance the system.

Finally

Set the controls to the Users requirements, refit the lower front panel and close the control door.

Notes.

- (a) If an optional Programmer kit is fitted refer to the Programmer Kit Installation and User's Instructions.
- (b) The temperatures quoted below are approximate and may vary between installations.

Knob Setting	Flow Temperature	
	°C	°F
2	60	140
3	66	150
4	71	160
5	77	170
6	82	180

27 HANDING OVER

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

1. Hand the User's Instructions to the Householder and explain his/her responsibilities under the Gas Safety (Installations and Use) Regulations 1984.
2. Draw attention to the Lighting Instruction label affixed to inside of the controls door.
3. Explain and demonstrate the lighting and shutting down procedures.
4. The operation of the boiler and 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 conditions.
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. for the economic use of the system.
7. If an optional Programmer Kit is fitted, then draw attention to the Programmer Kit User's Instructions and hand them to the Householder.
8. Stress the importance of regular servicing by a qualified Heating Engineer, and that a comprehensive service should be carried out AT LEAST ONCE A YEAR.
9. Draw attention to the User's Instructions Emergency action notice.

1 SCHEDULE

THE FOLLOWING SHOULD BE CARRIED OUT AT PERIODS NOT EXCEEDING ONE YEAR.

- (a) Light the boiler and carry out a pre-service check, noting any operational faults.
- (b) Clean the main burner and lint gauze.
- (c) Clean the heat exchanger.
- (d) Clean the main injector.
- (e) Check the condition of the thermocouple.
- (f) Check that the flue is unobstructed and that the flue system, including the flue cleanout cover, is sealed correctly.
- (g) If the appliance has been installed in a compartment check that the ventilation areas are clear.

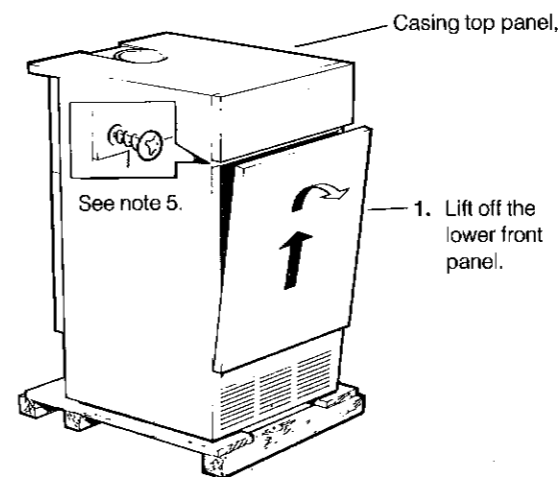
THE SERVICING PROCEDURES ARE COVERED MORE FULLY IN FRAMES 2 TO 9 AND MUST BE CARRIED OUT IN SEQUENCE.

WARNING. Always turn off the gas supply at the gas service cock and switch OFF and DISCONNECT the electricity supply to the appliance BEFORE SERVICING.

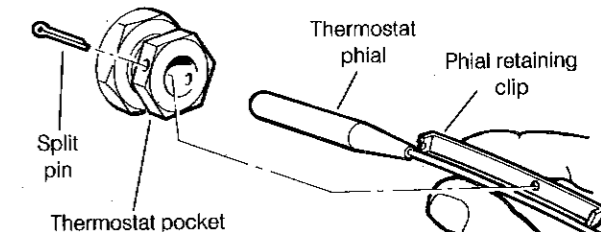
IMPORTANT. After completing servicing or exchange of components always test for gas soundness, carry out functional checks as appropriate, and test for spillage - Refer to Frame 24 (Installation).

Note. It may be necessary to remove the boiler casing to carry out the spillage test - Refer to Frame 5 (Installation).

2 BOILER CASING FRONT REMOVAL

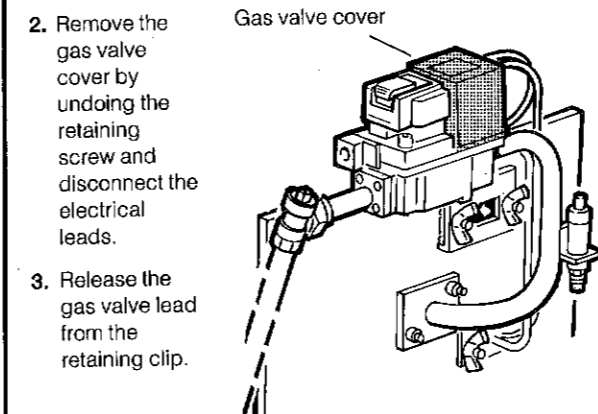


DETAIL OF THERMOSTAT POCKET



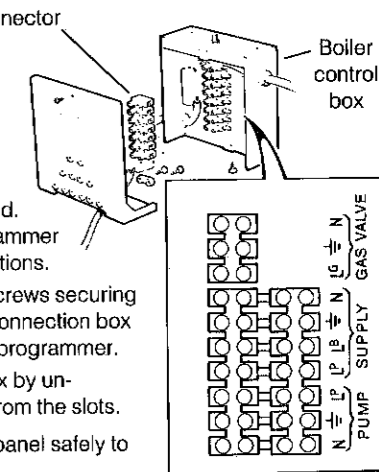
4. Remove the thermostat phial from the pocket as shown.
5. Remove the two screws securing the control panel and disengage the panel by lowering and pulling it forward.

VIEW OF GAS CONTROL VALVE (Behind the lower front panel)

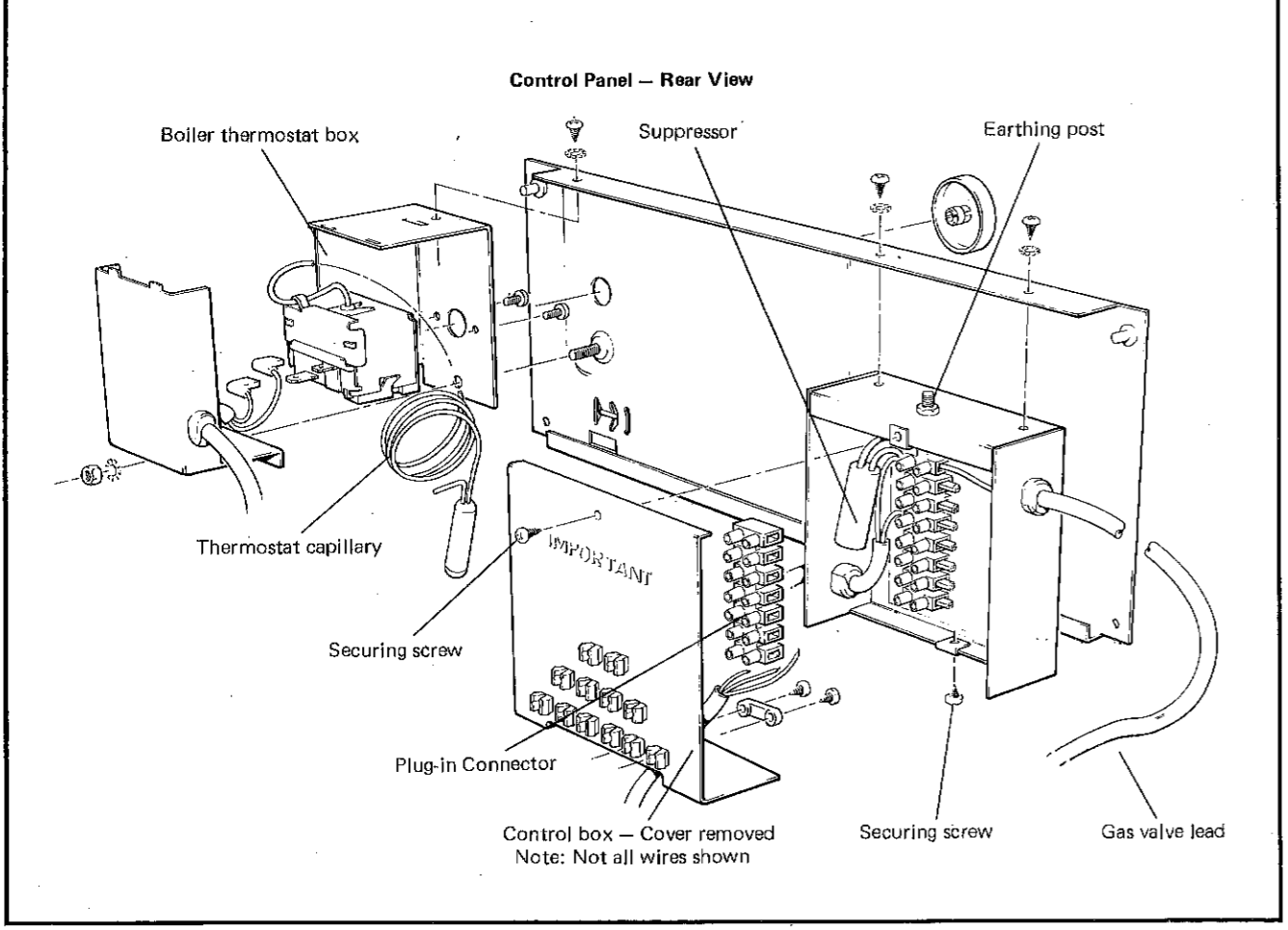


VIEW OF BOILER CONTROL BOX & TERMINAL WIRING

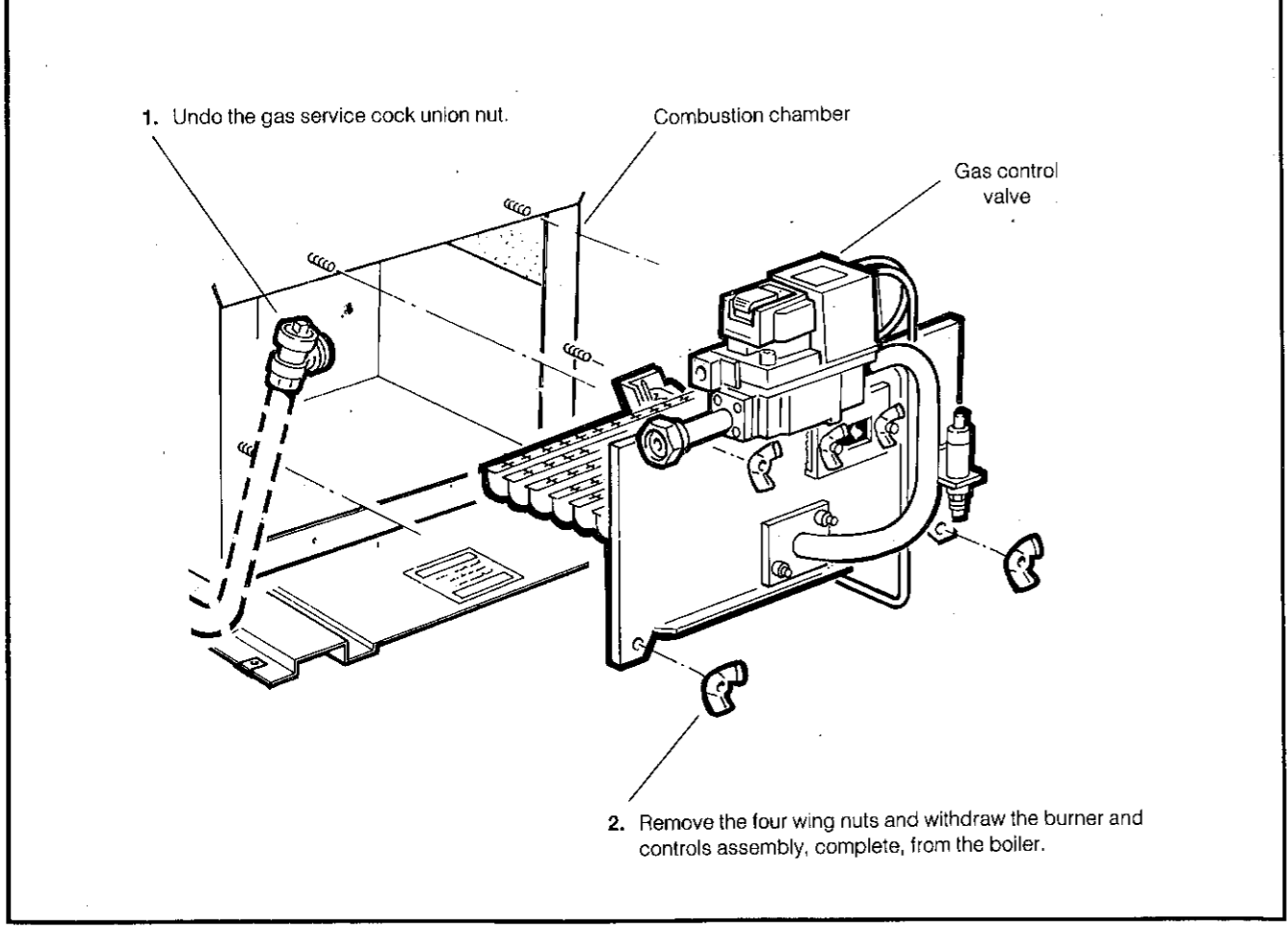
6. Remove the securing screw and lift off the control box cover.
7. Remove the plug-in connector and withdraw the electrical leads.
8. Disconnect the programmer if fitted. Refer to the Programmer Installation Instructions.
 - (a) Release the two screws securing the programmer connection box to the back of the programmer.
 - (b) Disengage the box by unhooking the lugs from the slots.
9. Place the control panel safely to one side.
10. Remove the 2 securing screws & lift off the casing top panel.



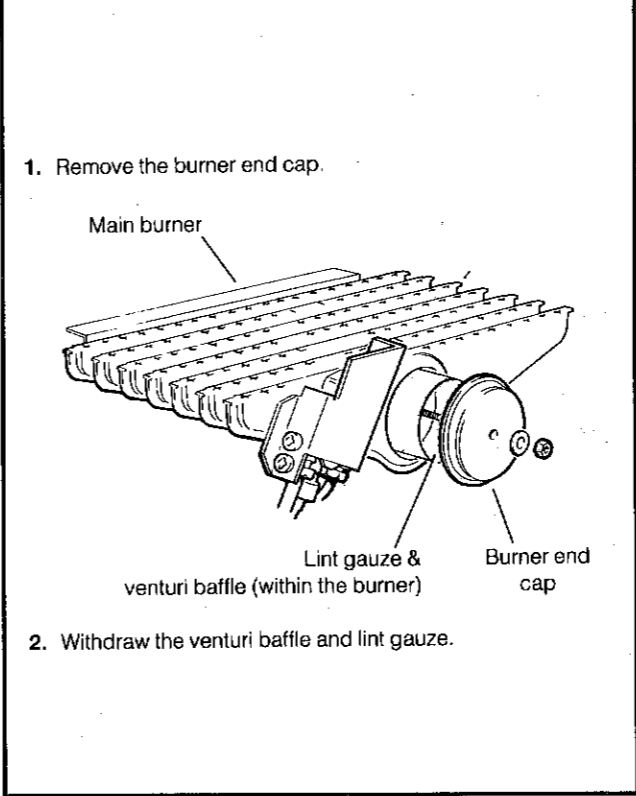
3 BOILER CASING FRONT REMOVAL - CONT.



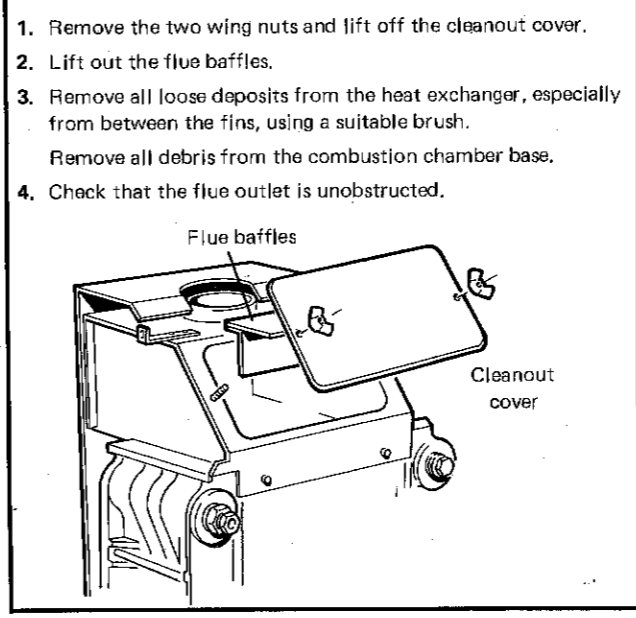
4 BURNER & CONTROLS ASSEMBLY REMOVAL



5 LINT GAUZE REMOVAL



7 CLEANING FLUEWAYS



9 GAS PRESSURE ADJUSTMENT

1. Pilot pressure
Light the boiler and check that the flame is 25 mm (1 in.) long. Refer to Frame 14. The pilot adjuster screw is factory set to maximum and no further adjustment should be necessary. However if the pilot flame length is incorrect proceed as follows:
(a) Slide the gas control button to the RIGHT.
(b) Remove the gas control cover.
(c) Turn pilot pressure adjuster screw CLOCKWISE until CLOSED.
(d) Turn the pilot pressure adjuster screw ANTI-CLOCKWISE four full turns to give maximum setting.
(e) Re-light the pilot. If the pilot flame length is still incorrect replace the pilot injector. Refer to Frame 16.

6 CLEANING BURNER ASSEMBLY

1. Clean the lint gauze to remove any deposits of lint, fluff, etc.
2. Brush off any deposits that may have fallen onto the burner head - ensuring that the flame ports are unobstructed. Remove any debris that may have collected on the assembly components.
Note. Brushes with metallic bristles MUST NOT be used. Replace lint gauzes and end cap in reverse order.
3. Remove the main burner injector. Ensure that there is no blockage or damage. Clean or renew as necessary.
4. Refit the injector using an approved jointing compound sparingly.
5. Inspect the pilot, thermocouple and spark electrode: ensure that they are clean and in good condition. In particular check that:
(a) The pilot burner is clean and unobstructed.
(b) The spark electrode is clean and undamaged.
(c) The spark lead is in good condition and securely connected.
(d) The spark gap is correct - Refer to Frame 14.
(e) The thermocouple tip is not burned or cracked.
(f) The position of the thermocouple relative to the pilot burner is correct - Refer to Frame 14.
(g) The thermocouple terminal at the gas valve is clean.
Clean or renew components as necessary.

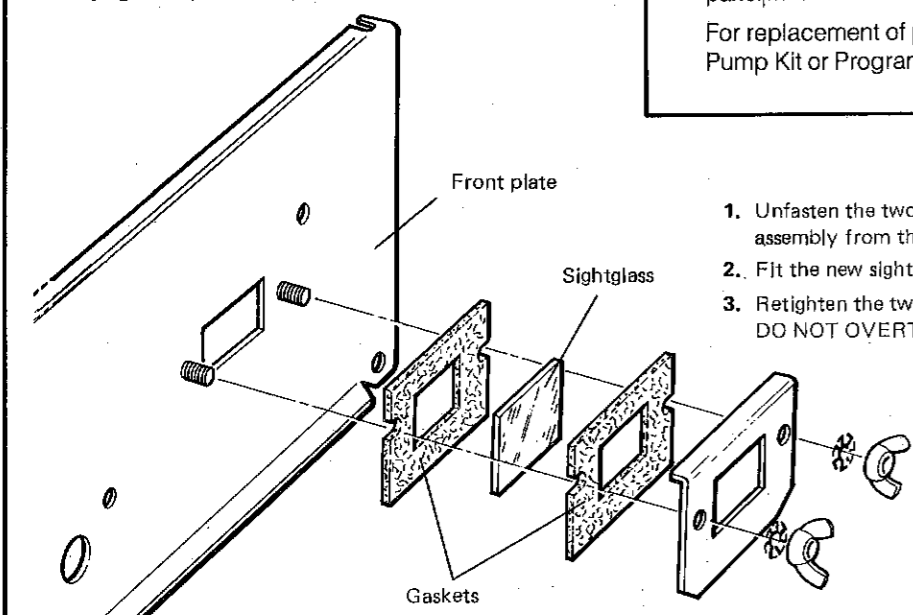
8 RE-ASSEMBLY

Re-assemble the boiler in the following order:

1. Replace the flue baffles into the boiler flueways ensuring that they are correctly repositioned - Refer to Frame 5 (Installation).
2. Refit the flue cleanout cover renewing any damaged or deteriorating sealing gasket.
3. Refit the casing top panel.
4. Re-connect the electrical wiring and refit the controls panel. ENSURING that the thermostat phial and phial retaining clip are correctly located in the thermostat pocket and secured by the split pin - Refer to Frame 2
5. Check the sight-glass in the front plate. Clean or renew as necessary
6. Renew any damaged or deteriorating front plate gasket.
7. Refit the burner and controls assembly.
8. Reconnect the gas service cock.

Finally, refit the lower front panel.

10 SIGHTGLASS REPLACEMENT



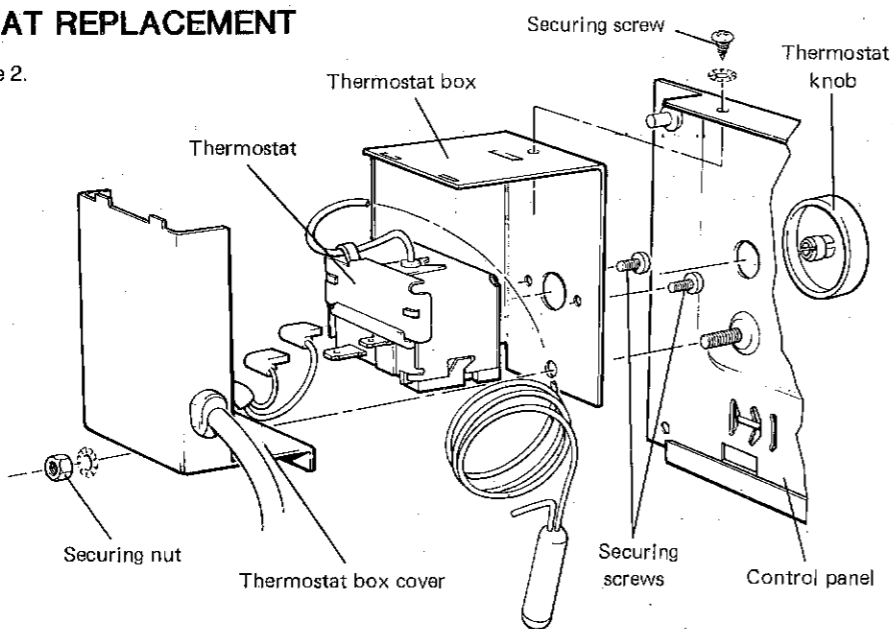
To replace the components in Frames 10 to 20 the lower front panel must be removed. Refer to Frame 2.

For replacement of pumps or programmer units, refer to the Pump Kit or Programmer Kit Instructions.

1. Unfasten the two wing nuts and washers and remove the assembly from the front plate.
2. Fit the new sightglass and re-assemble as shown.
3. Retighten the two wing nuts to ensure an airtight seal, but DO NOT OVERTIGHTEN.

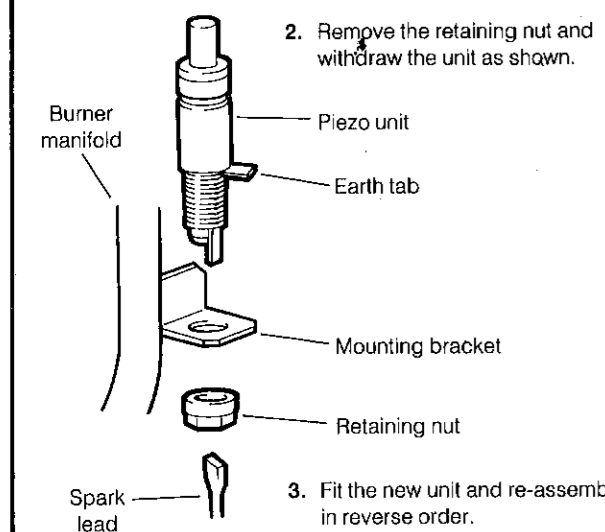
11 CONTROL THERMOSTAT REPLACEMENT

1. Remove the control panel. Refer to Frame 2.
2. Remove the securing nut and lift off the thermostat box cover.
3. Disconnect the two electrical leads from the thermostat.
4. Pull off the thermostat knob.
5. Remove the top securing screw and withdraw the thermostat box.
6. Remove the two securing screws and withdraw the thermostat.
7. Fit the new thermostat and re-assemble in reverse order, ensuring that:
 - (a) The thermostat capillary is towards the top of the box.
 - (b) The thermostat phial and phial retaining clip (CF.50 and CF.60 ONLY) are in position in the thermostat pocket BEFORE securing with the split pin.



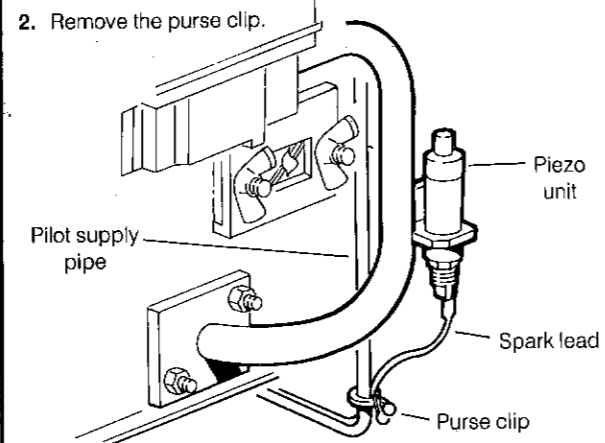
12 PIEZO UNIT REPLACEMENT

1. Disconnect the spark lead from the piezo unit body.
2. Remove the retaining nut and withdraw the unit as shown.
3. Fit the new unit and re-assemble in reverse order.



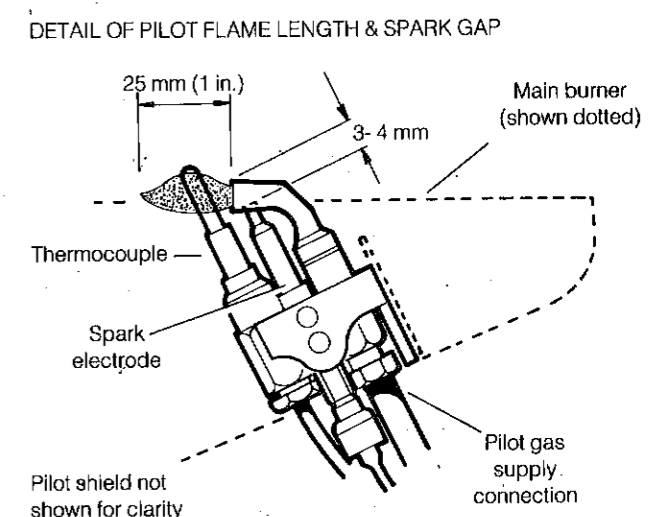
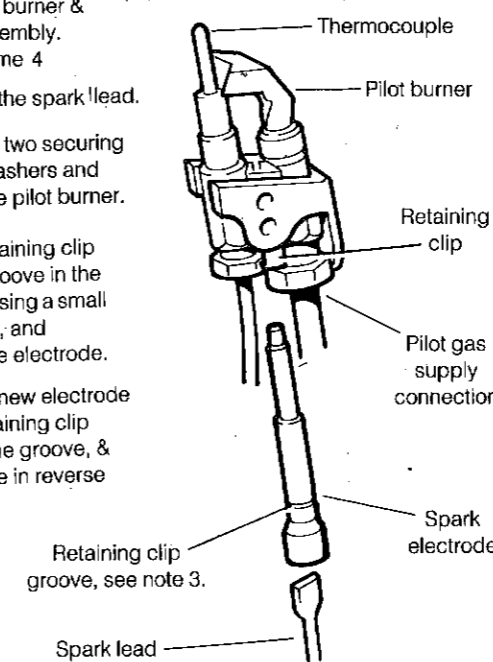
13 SPARK LEAD REPLACEMENT

1. Remove the burner & controls assembly. Refer to Frame 4.
2. Remove the purse clip.
3. Disconnect the lead from the base of the electrode and the piezo unit, and withdraw the lead.
4. Fit the new lead and re-assemble in reverse order.

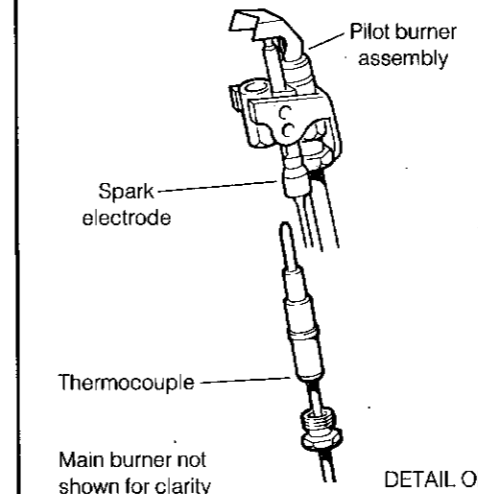


14 SPARK ELECTRODE REPLACEMENT. Showing pilot flame length & spark gap

- DETAIL OF PILOT BURNER ASSEMBLY (Main burner not shown)
1. Remove the burner & controls assembly. Refer to Frame 4
 2. Disconnect the spark lead.
 3. Remove the two securing screws & washers and withdraw the pilot burner.
 4. Prise the retaining clip out of the groove in the electrode, using a small screwdriver, and withdraw the electrode.
 5. Push in the new electrode until the retaining clip locates in the groove, & re-assemble in reverse order.



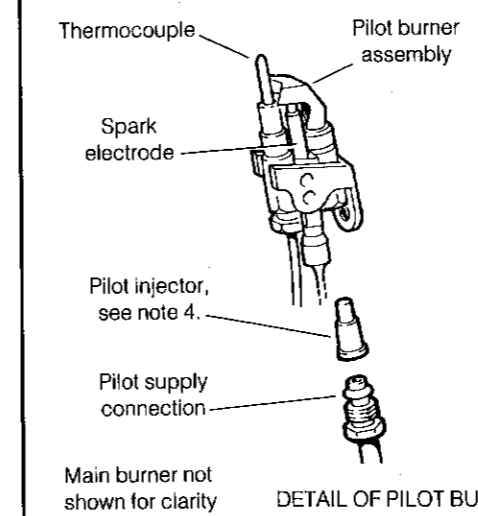
15 THERMOCOUPLE REPLACEMENT



1. Remove the burner and controls assembly. Refer to Frame 4.
2. Remove the spark electrode as detailed in Frame 14.
3. Remove the purse clip.
4. Undo the thermocouple connection at the pilot burner and pull the thermocouple clear.
5. Undo the thermocouple connection at the gas valve.
6. Fit the new thermocouple and re-assemble in reverse order. **Note:** Avoid sharp bends in the thermocouple lead and ensure that it follows the same route as previously.

Main burner not shown for clarity. DETAIL OF THERMOCOUPLE

16 PILOT BURNER REPLACEMENT

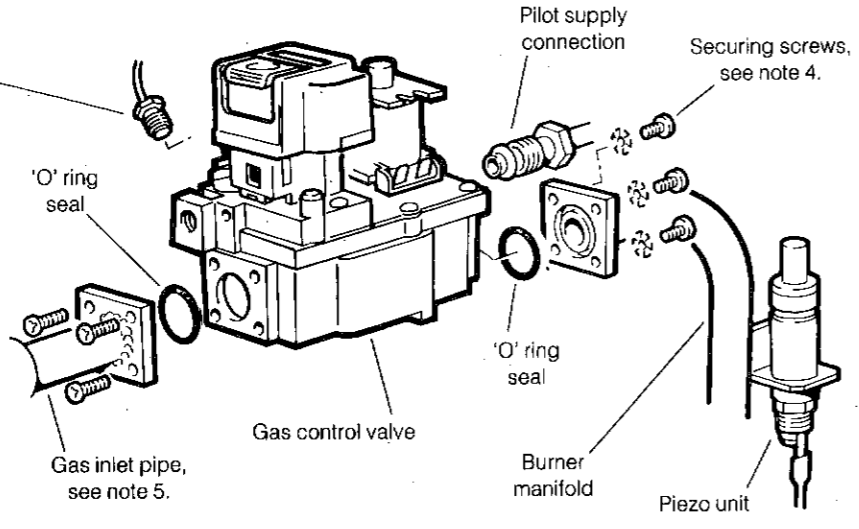


1. Remove the burner and controls assembly. Refer to Frame 4.
2. Remove the spark electrode. Refer to Frame 14.
3. Undo the thermocouple connection & pull the thermocouple clear. Refer to Frame 15.
4. Undo the pilot supply connection and ease clear of the pilot burner. DO NOT lose the pilot injector which is a push fit in the pilot burner housing.
5. Remove the two securing screws and washers and withdraw the pilot burner.
6. Fit the new pilot burner and re-assemble in reverse order ensuring that:
 - (a) The injector is in position when refitting the pilot supply.
 - (b) A gas-tight joint is made.
 - (c) The spark gap is correct. Refer to Frame 14.

Main burner not shown for clarity. DETAIL OF PILOT BURNER:

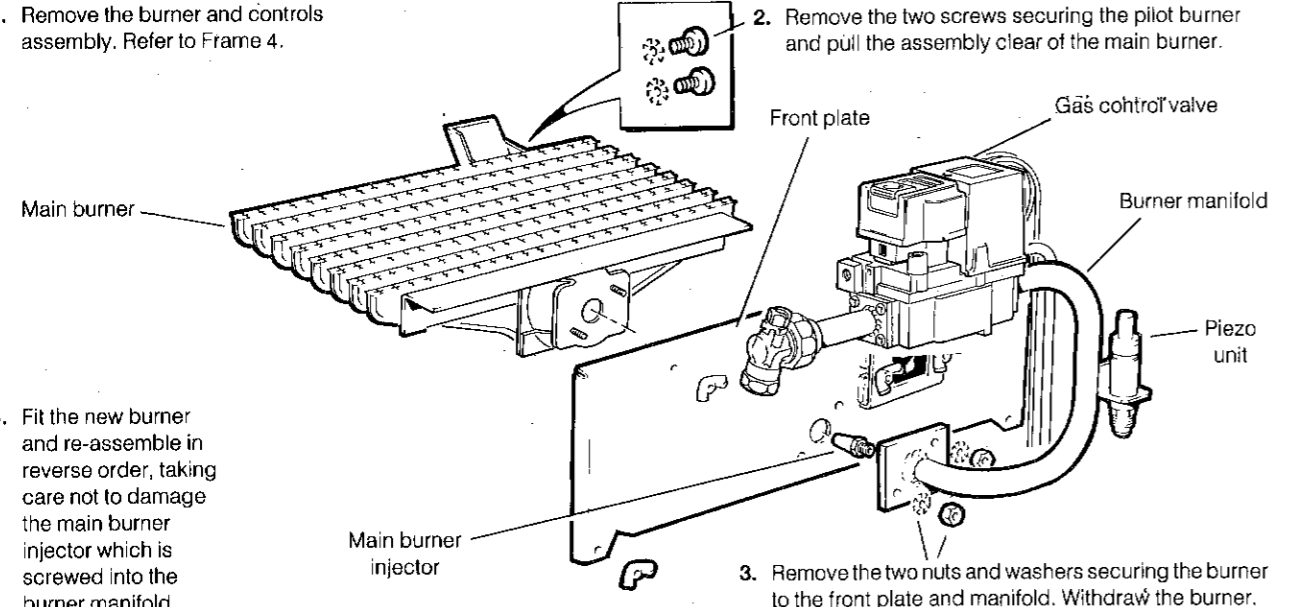
17 GAS VALVE REPLACEMENT

1. Remove the burner and controls assembly. Refer to Frame 4.
2. Undo the pilot supply connection.
3. Undo the thermocouple connection.
4. Remove the four securing screws and withdraw the valve from the burner manifold.
5. Transfer the gas inlet pipe to the new valve.
6. Fit the new gas valve ensuring that;
 - (a) The valve is fitted the right way round- an arrow engraved on the valve indicates the direction of flow.
 - (b) The sealing 'O' rings supplied with the valve are correctly fitted at the inlet and outlet flanges.



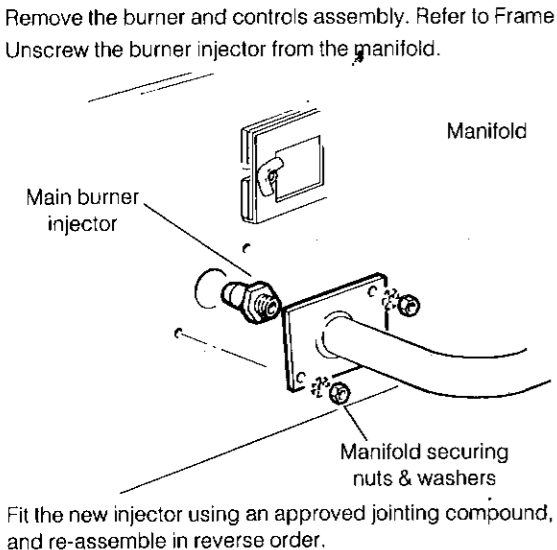
18 MAIN BURNER REPLACEMENT

1. Remove the burner and controls assembly. Refer to Frame 4.
2. Remove the two screws securing the pilot burner and pull the assembly clear of the main burner.
3. Remove the two nuts and washers securing the burner to the front plate and manifold. Withdraw the burner.
4. Fit the new burner and re-assemble in reverse order, taking care not to damage the main burner injector which is screwed into the burner manifold.



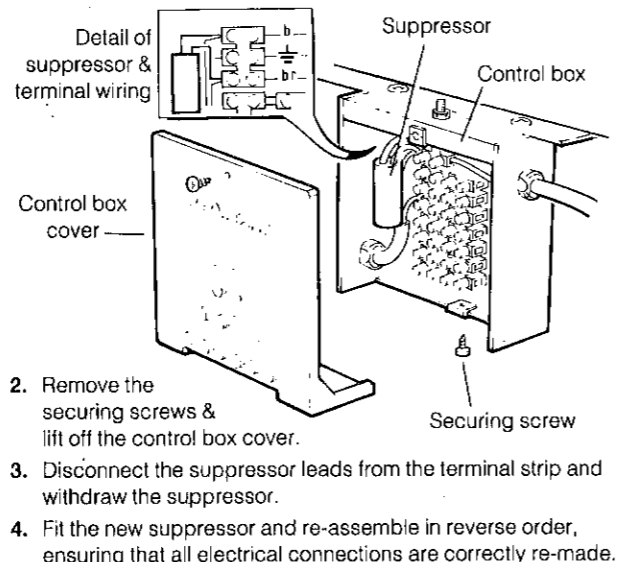
19 MAIN BURNER INJECTOR REPLACEMENT

1. Remove the burner and controls assembly. Refer to Frame 4.
2. Unscrew the burner injector from the manifold.
3. Fit the new injector using an approved jointing compound, and re-assemble in reverse order.



20 SUPPRESSOR REPLACEMENT

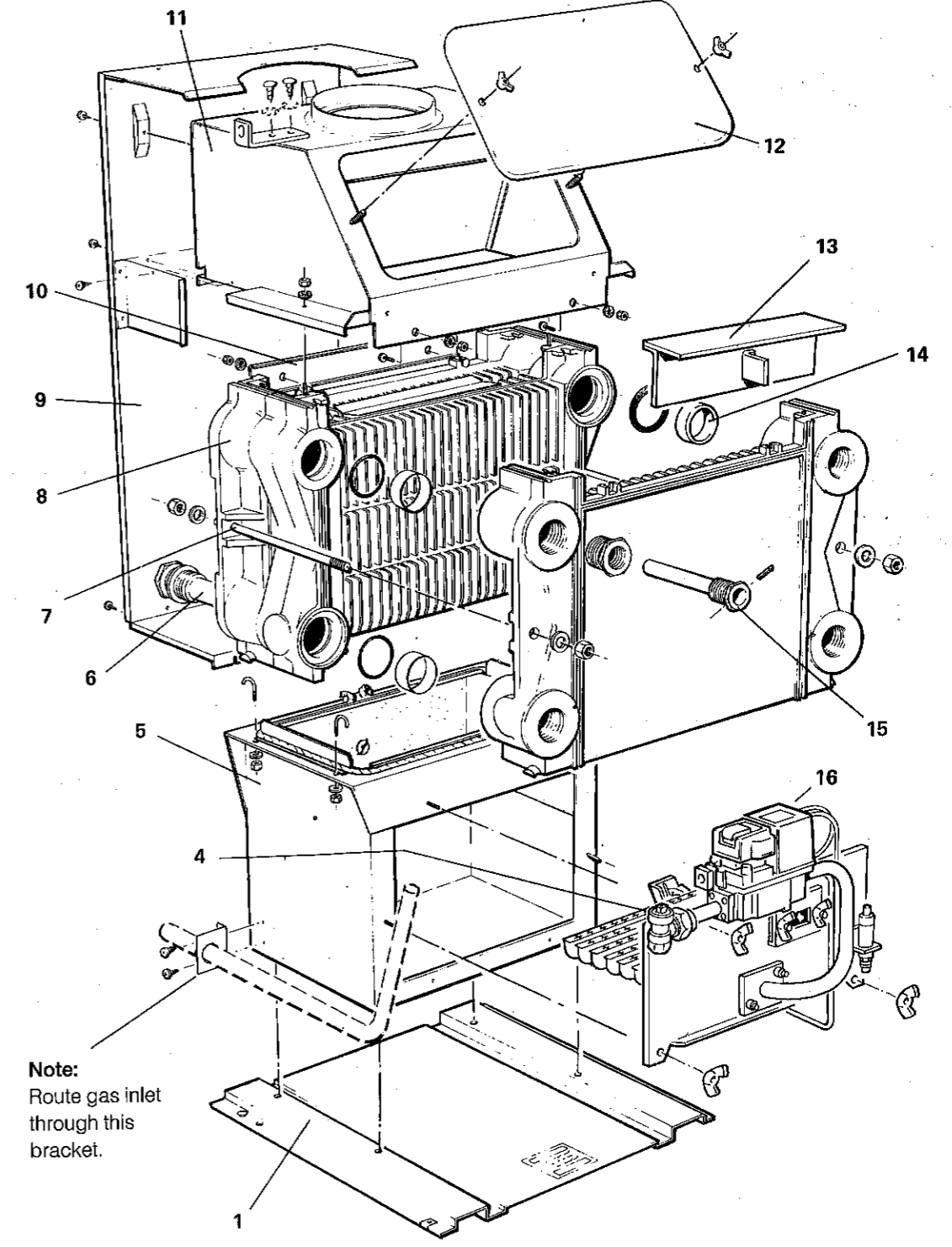
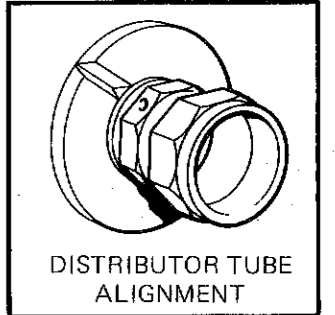
1. Remove the control panel. Refer to Frame 2.
2. Remove the securing screws & lift off the control box cover.
3. Disconnect the suppressor leads from the terminal strip and withdraw the suppressor.
4. Fit the new suppressor and re-assemble in reverse order, ensuring that all electrical connections are correctly re-made.



21 BOILER ASSEMBLY - Exploded View

LEGEND

- | | | |
|-----------------------|---|---|
| 1. Boiler baseplate. | 7. Tie rod | 12. Cleanout cover |
| 4. Gas service cock | 8. Heat exchanger | 13. Flue baffle |
| 5. Combustion chamber | 9. Draught diverter back panel assembly | 14. Section alignment rings and 'O' rings |
| 6. Distributor tube | 10. Rear infill | 15. Thermostat pocket |
| | 11. Collector hood | 16. Burner & controls assembly |

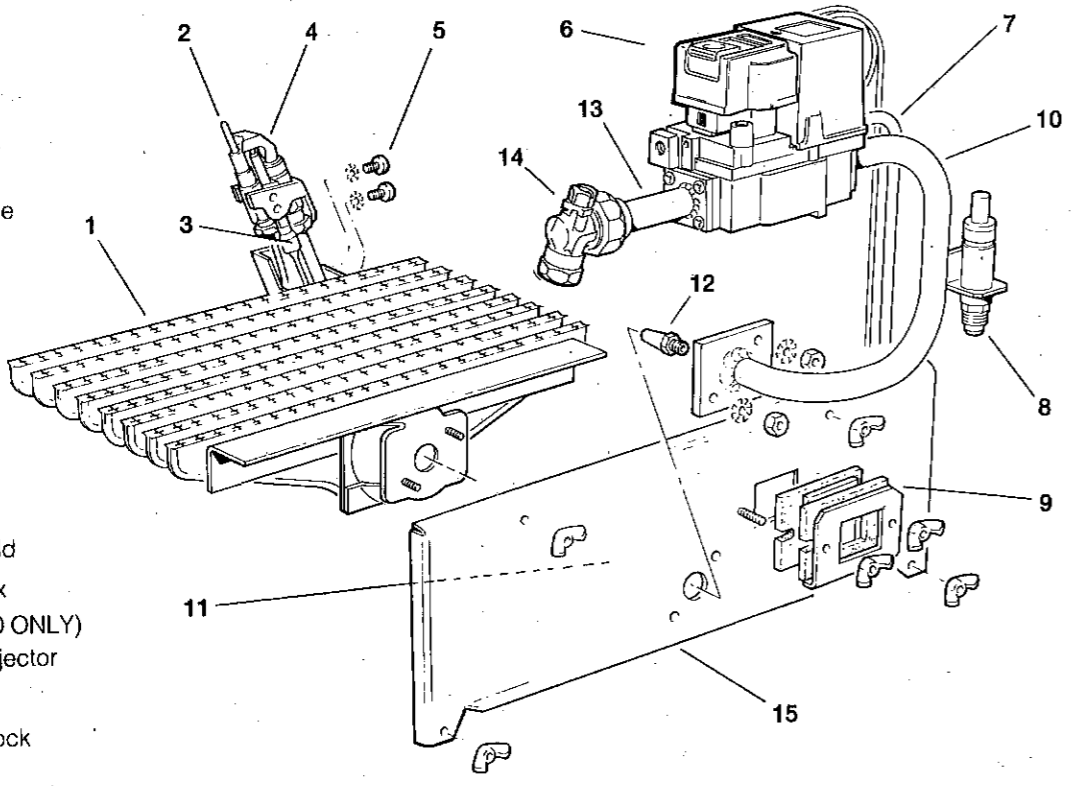


Note: Route gas inlet through this bracket.

Note. The boiler assembly is shown with the casing removed

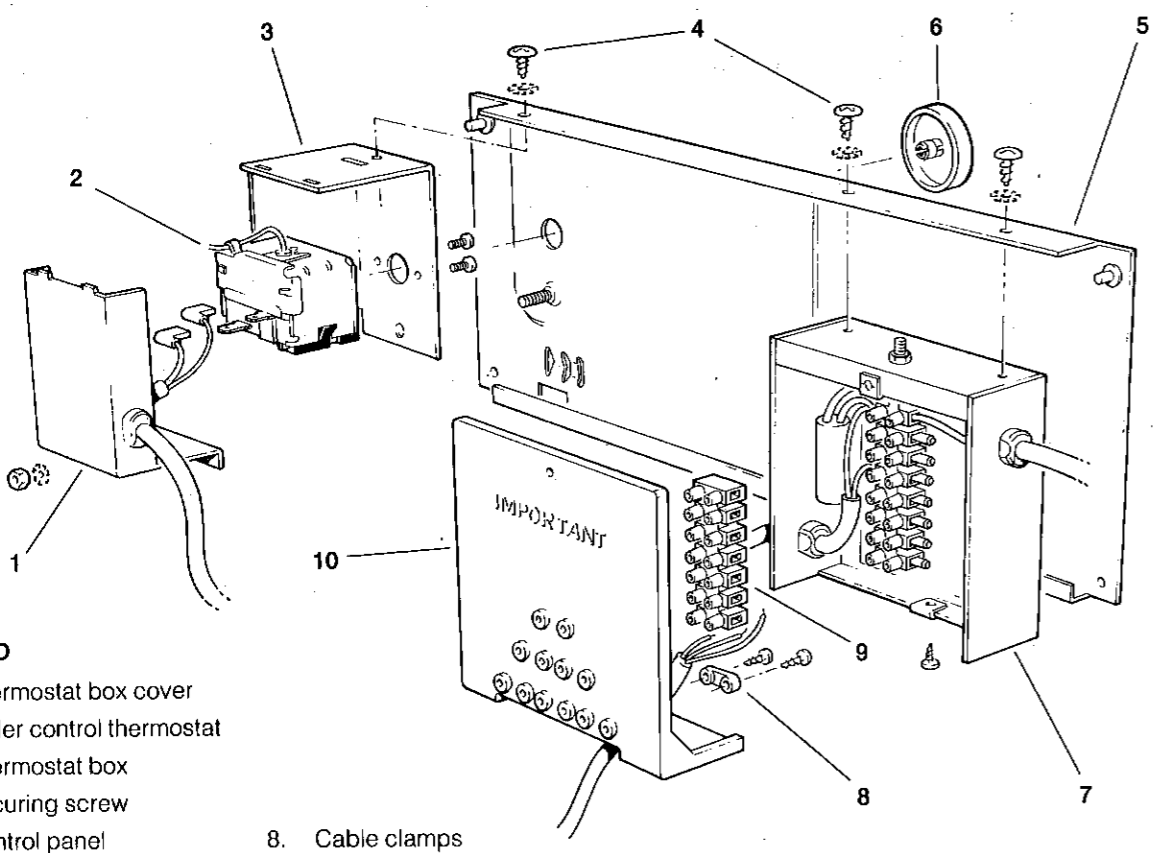
22 BURNER & CONTROLS ASSEMBLY- Exploded View.

- LEGEND**
- 1. Main burner
 - 2. Thermocouple
 - 3. Spark electrode
 - 4. Pilot burner
 - 5. Pilot burner securing screws
 - 6. Gas valve
 - 7. Pilot pipe
 - 8. Piezo unit
 - 9. Sightglass
 - 10. Burner manifold
 - 11. Primary air box (CF 50 & CF 60 ONLY)
 - 12. Main burner injector
 - 13. Gas inlet pipe
 - 14. Gas service cock
 - 15. Front plate



23 BOILER CONTROL PANEL- Exploded View

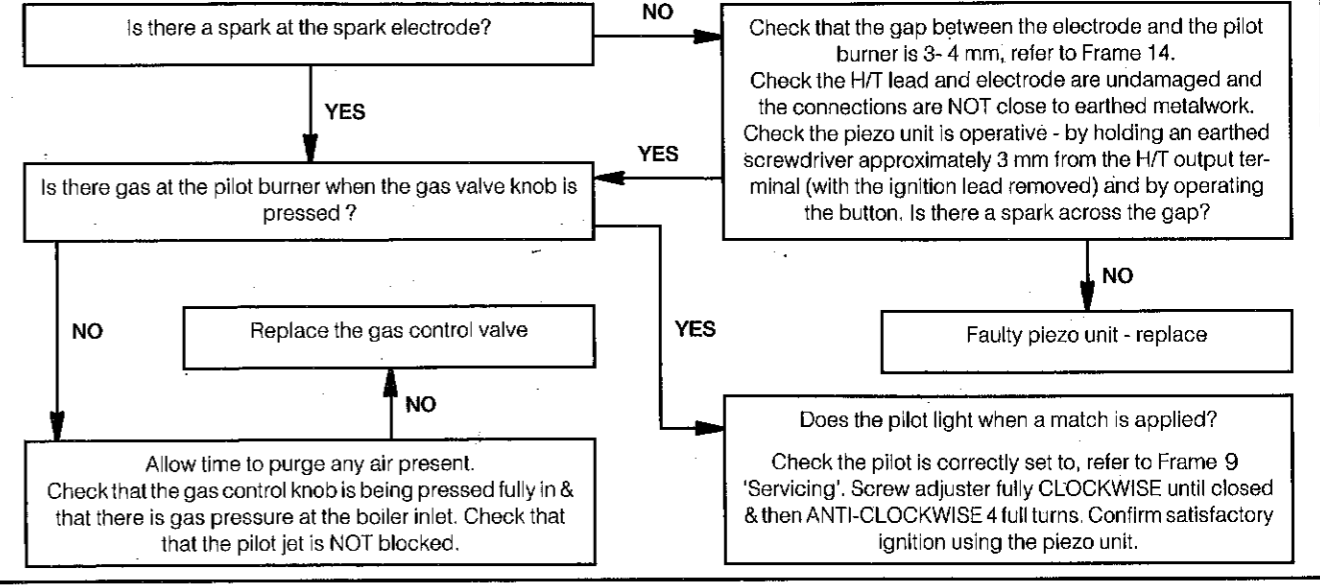
- LEGEND**
- 1. Thermostat box cover
 - 2. Boiler control thermostat
 - 3. Thermostat box
 - 4. Securing screw
 - 5. Control panel
 - 6. Thermostat knob
 - 7. Control box
 - 8. Cable clamps
 - 9. Plug-in connector
 - 10. Control box cover



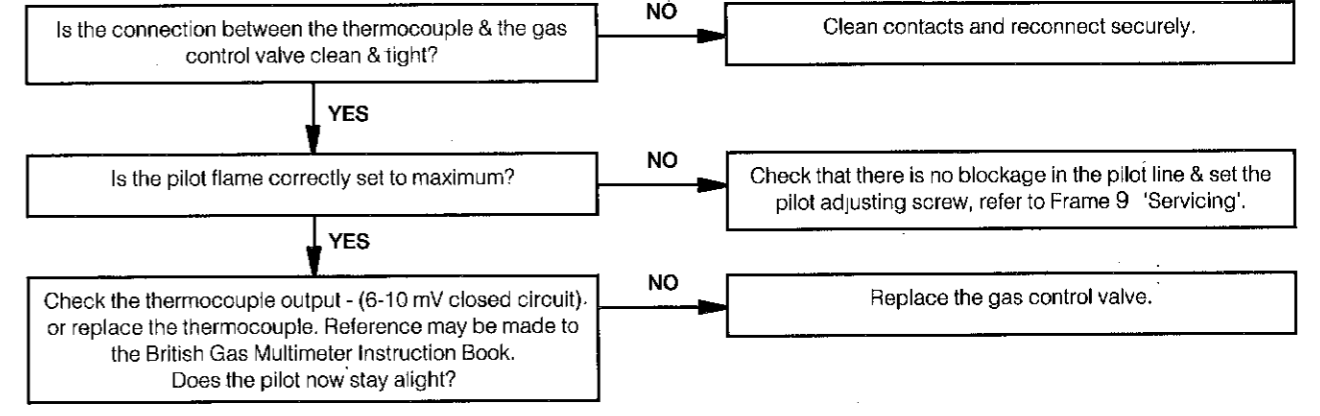
Before attempting any electrical fault finding, ALWAYS carry out the preliminary electrical system checks as detailed in the Instructions for the British Gas Multimeter, or other similar commercially

available meter. Detailed instructions on the cleaning & adjustment or replacement of faulty components are contained in the 'Servicing' section, of this publication.

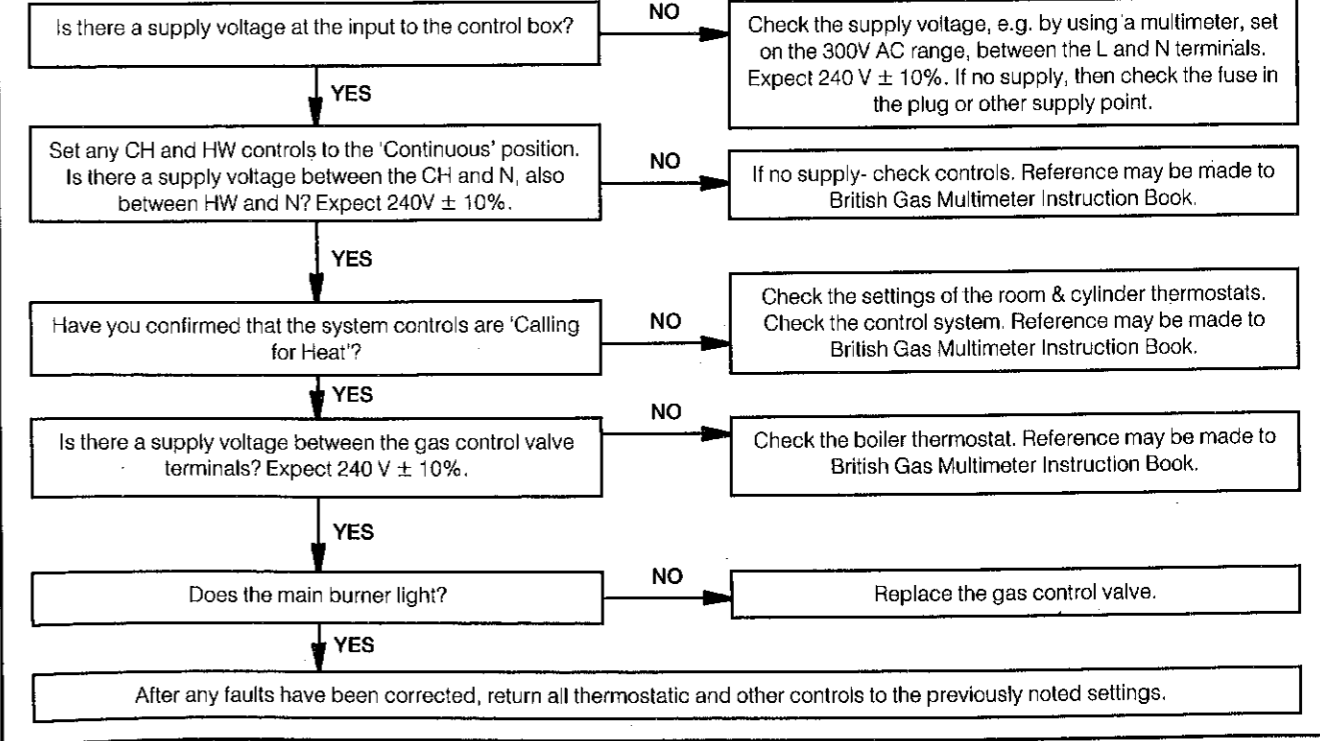
24 PILOT WILL NOT LIGHT



25 PILOT WILL NOT STAY LIT WHEN THE GAS CONTROL VALVE KNOB IS RELEASED



26 PILOT LIT BUT NO MAINS GAS



SERVICING

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 British Gas List of Parts, which contains all available spare parts.

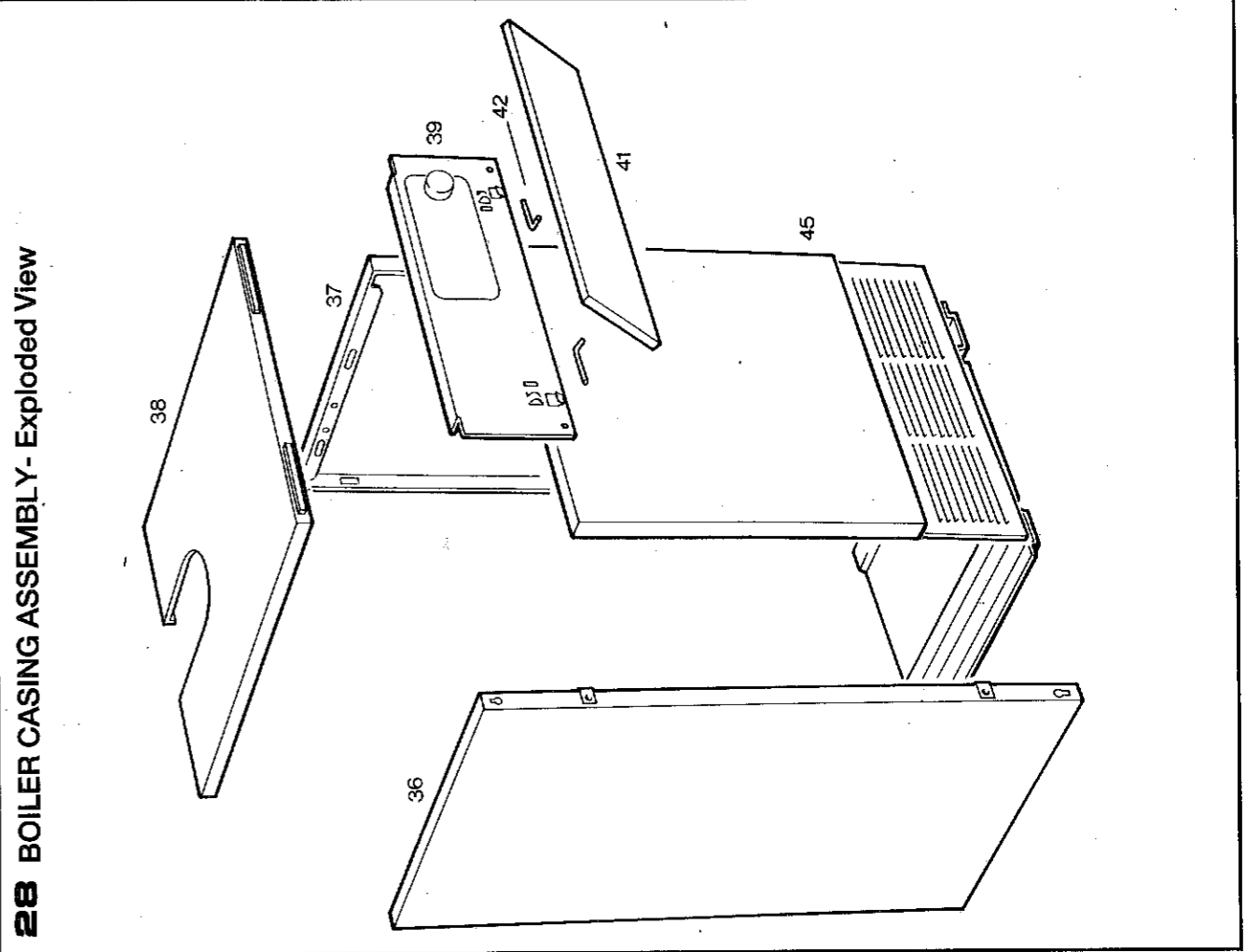
IDEAL MEXICO SUPER 2 CF 60 P GAS BOILERS
 When ordering spares, please quote:
 1. Boiler Model
 2. Description
 3. Maker's Part Number
 4. Quantity

Details of the British Gas Lists are held by Gas Regions, STELRAD Distributors and by Merchants.

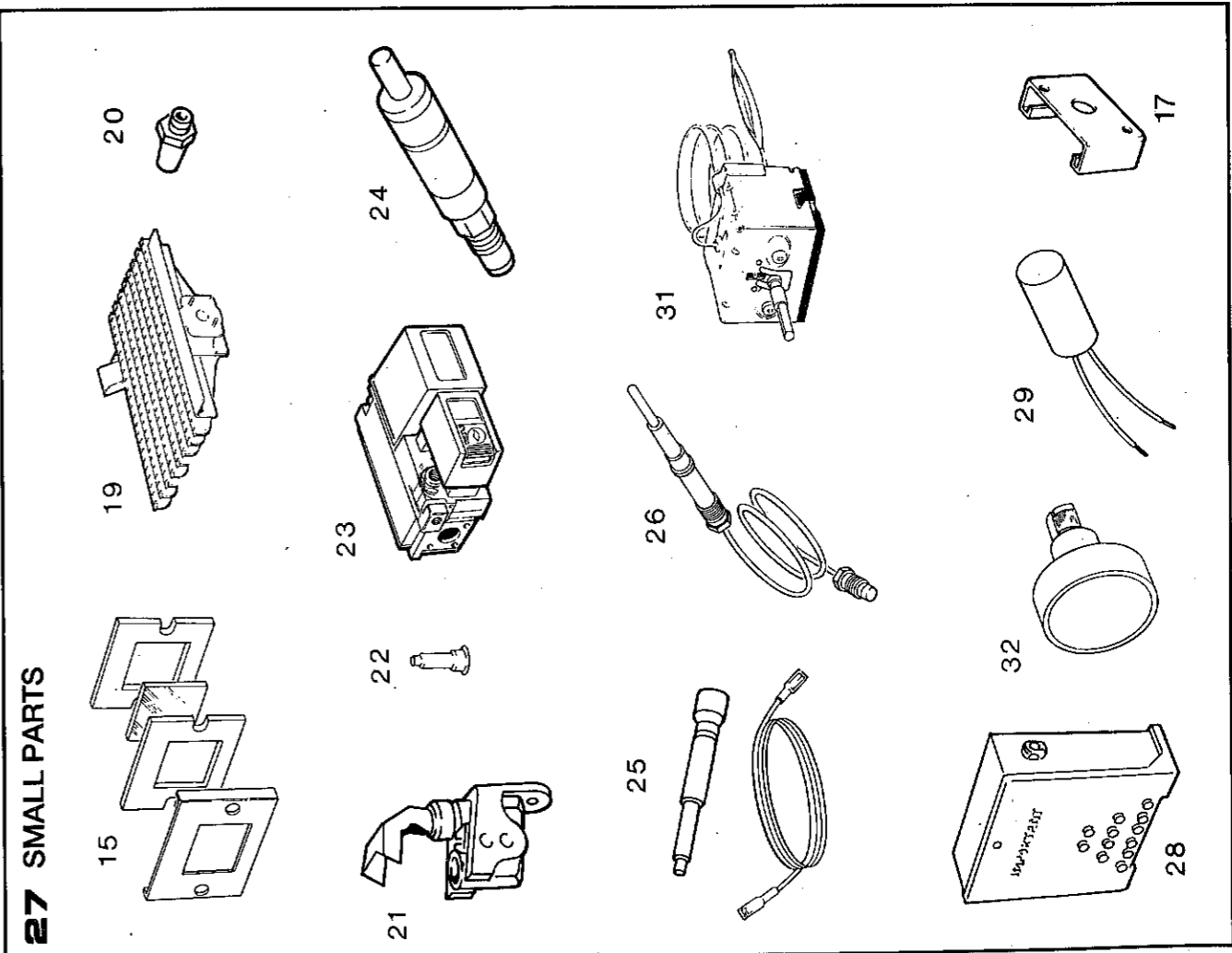
Key No.	G.C. Part No.	Description	No. off	Maker's Part No.
15	341 350	Sight glass assembly, comprising, sight glass, frame, two sight glass gaskets & two M5 wing nuts.	1	129 018 725
17	341 563	Primary air box	1	
19		Main burner- with pilot burner bracket AEROMATIC AC 19 / 123 271	1	
			1	
			1	
20		Main burner injector, BRAY Cat. 10 - Size 700	1	
			1	
			1	
21	382 944	Pilot burner, with injector (Key No. 22) HONEYWELL Q 385 A 1020	1	589 088 740
22		Pilot injector, HONEYWELL double orifice (20/23 P)	1	
23		Gas control valve, HONEYWELL VR 4700 E 1031, 240 V	1	
24	395 705	Spark generator, VERNITRON 60080	1	589 830 086
25	319 384	Ignition electrode, BUCCLEUCH, with H.T. lead	1	589 080 088
26	390 083	Thermocouple, HONEYWELL Q 309 A 2747; 750 mm lg.	1	581 861 906
28	319 385	Control box, including Key No. 29	1	586 071 271
29	384 689	Suppressor, ITT (can type)	1	589 040 030
31	382 469	Thermostat, RANCO CL6 PO148 000	1	589 960 051
32	341 359	Thermostat knob, FASTEX	1	586 011 517
		Casing, white stove enamel		
34	319 391	L.H. jacket side panel assembly	1	129 077 212
35	319 394	R.H. jacket side panel assembly	1	129 077 213
38	319 397	Jacket top panel assembly	1	129 077 214
39	319 401	Jacket upper front panel assembly	1	129 077 217
40	319 402	Controls panel assembly	1	129 077 221
41	319 403	Controls panel cover	1	129 077 222
42	319 404	Controls panel hinge	2	129 077 223
43	319 405	Controls panel hinge retainer	2	129 077 224
45		Jacket lower front panel assembly	1	

SERVICING

SHORT LIST OF PARTS- COMPONENT DIAGRAMS



28 BOILER CASING ASSEMBLY- Exploded View



27 SMALL PARTS

CARADON HEATING pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.

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