

IDEAL MEXICO SUPER RS. 65, 75, 80, 100 & 125 Balanced 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 the edges of sheet steel components.

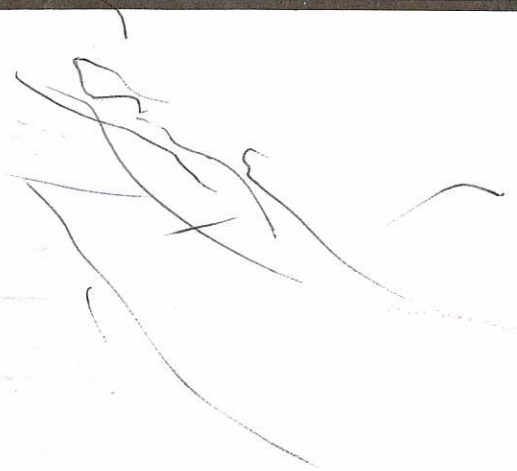
NOTE: The appliances are for use with **NATURAL GAS ONLY**

B.G.C. Appliance No's

IDEAL MEXICO SUPER RS. 65	41.407.41
IDEAL MEXICO SUPER RS. 75	41.407.43
IDEAL MEXICO SUPER RS. 80	41.407.45
IDEAL MEXICO SUPER RS.100	41.407.47
IDEAL MEXICO SUPER RS.125	41.407.49

NOTE TO INSTALLER:

LEAVE THESE INSTRUCTIONS ADJACENT TO THE GAS METER



FULL LOAD CURRENT
ON ANY BOILER = 1A.

2 FLUE SAFFLES

	RS. 65	RS. 75	RS. 80	RS. 100	RS. 125
	← 3 sections → ← 4 → ← 5 → AEROMATIC				
	← ½ in. BSP HONEYWELL 'Compact' V4600 A1023 240v 50Hz →				
	← Bray Cat.23 → Size 950 Size 1050		← Bray Cat.10 → Size 1100 Size 1400		← Bray Cat.23 → Size 1700
	← HONEYWELL BCR.18 →				
	← Rc ½ →		← R ¾ →		
in.BSP	← ½ →		← ¾ →		
	← Rc1 →				
in.BSP	← 1 →				
	← Rc1 →				
in.BSP	← 1 →				
m	← 30.5 →				
ft	← 100 →				
	← 200-250 volt 50 Hz ~ →				
	← 3A →				
litre	← 7.4 →		9.8		12.2
gal	← 1.6 →		2.1		2.7
kg	← 103.0 →		121.0		142.0
lb	← 226.0 →		265		312.0

	RS. 65	RS. 75	RS. 80	RS. 100	RS. 125
kW	21.00	23.00	26.70	30.45	38.10
Btu/h	71 650	78 500	91 000	103 900	130 000
kW	24.58	28.36	30.25	37.60	46.70
Btu/h	83 850	96 750	103 200	128 300	159 350
kW	16.12	17.60	20.50	23.45	29.30
Btu/h	55 000	60 000	70 000	80 000	100 000
kW	19.05	22.00	23.45	29.30	36.64
Btu/h	65 000	75 000	80 000	100 000	125 000
mbar(gauge)	10.2	9.3	11.5	9.0	10.5
in.w.g	4.1	3.7	4.6	3.6	4.2
mbar(gauge)	13.8	14.3	15.0	14.1	15.5
in.w.g	5.5	5.7	6.0	5.6	6.2

input (kW) by
(3)
input (Btu/h)
(cu/ft³).

INTRODUCTION

The IDEAL MEXICO SUPER's are a range of floor standing, balanced flued gas boilers, range rated, having outputs from 16.1 kW to 36.6 kW (55 000 Btu/h to 125 000 Btu/h).

The boilers have a cast iron heat exchanger, with an insulating blanket of aluminium foil backed fibreglass, held in place by a securing strap - refer Fig. 1, and come fully assembled, complete with casing in White enamelled mild steel.

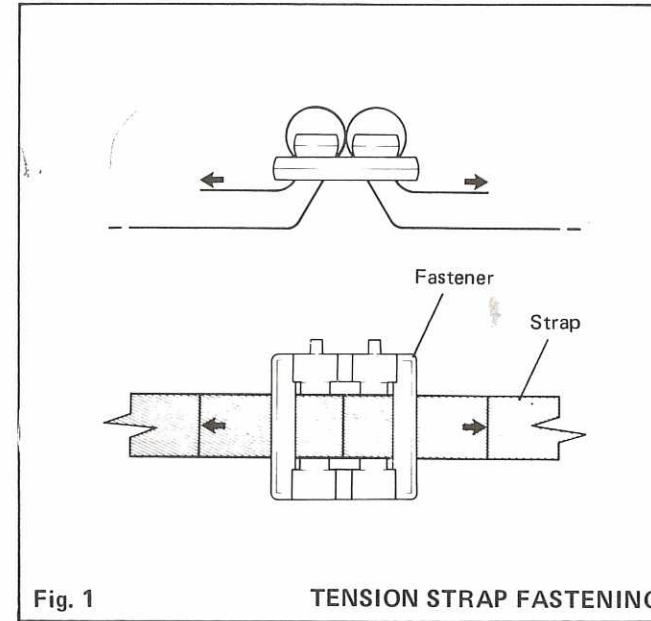


Fig. 1

TENSION STRAP FASTENING

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.

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.

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

The installation of the boiler MUST also be in accordance with I.E.E. Regulations, the by-laws of the Local Water Undertaking, 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.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 boiler MUST be installed against an external wall, the back of the boiler casing may be fitted up to the wall.

The boiler may be installed in any room, although particular attention is drawn to the requirements of the I.E.E. Regulations and, in Scotland, the electrical provisions of the Building Regulations applicable in Scotland with respect to the installation of the boiler 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.5376:2.

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

1. The position selected for installation MUST allow adequate space for servicing in front of the boiler.
Side clearance is only necessary for installation.
The amount of side clearance will depend on the type of connections used.
2. This position MUST also permit the provision of a satisfactory balanced flue termination.

22ml for 125 - 2metre run
GAS SUPPLY from meter to boiler

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.

Pipe work 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 as described in CP.331:3.

FLUING

Detailed recommendations for fluing are given in BS.5440:1.

The following notes are intended for general guidance:

- The appliance MUST be installed so that the flue terminal discharges directly into the external air.
- Termination should be on a clear expanse of wall, the terminal being preferably NOT less than 600mm (2ft) away from a corner, recess or projection.
- Do NOT install the terminal:
 - Within 300mm (1ft), measured vertically, from the bottom of an openable window, air vent or any other ventilation opening.
 - Within 300mm (1ft) above adjacent ground level.
 - Within 600mm (2ft) of any surface facing the terminal.
 - Immediately below eaves or a balcony.
 - Where it is subject to accidental obstruction.
- Where the lowest part of the terminal is less than 2m (6.6ft) above the level of any ground, balcony, flat roof or place to which people have access, the terminal MUST be protected by a guard of suitable material.

The dimensions of the guard shall be such that, when fitted in accordance with the Manufacturer's instructions, it shall be at least 50mm (2in) from any part of the terminal, NOT including the wall plate.

The guard shall NOT have any sharp edges likely to cause injury, nor shall any opening permit the entry of a ball of 16mm (5/8in) diameter under a force of 5N.

The material finish and mechanical strength of the guard shall be such as to ensure a reasonable life in normal working conditions.

The guard shall NOT affect the performance of the appliance.

Terminal guards are available from :

Quinnel, Barret & Quinnel Ltd, 884 Old Kent Road, London SE.15; and from:

Tower Flue Components Ltd, Vale Rise, Tonbridge, Kent. TN9 1TB.

- The air inlet/products outlet duct, and the terminal of the boiler MUST be NOT closer than 50mm (2in) to combustible material.

Detailed recommendations on protection of combustible material are quoted in BS.5440:1.

BOILER TERMINAL

The terminal box of the balanced flue, with the addition, if necessary, of a duct extension, can be adapted to accommodate various wall thicknesses — refer 'Packaging'.

AIR SUPPLY

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

It is NOT necessary to have a purpose provided air vent in the room in which the boiler is installed.

If the boiler is to be installed in a cupboard or compartment, permanent air vents are required, for cooling purposes, in the cupboard/compartment, at both high and low levels.

These air vents may communicate with a room/internal space 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.

RS.65

Position of Air Vent	Air from Room Internal Space	Air Direct From Outside
HIGH LEVEL	220	110
LOW LEVEL	220	110

RS.75

Position of Air Vent	Air from Room Internal Space	Air Direct from Outside
HIGH LEVEL	250	125
LOW LEVEL	250	125

RS.80

Position of Air Vent	Air from Room Internal Space	Air Direct from Outside
HIGH LEVEL	270	135
LOW LEVEL	270	135

RS.100

Position of Air Vent	Air from Room Internal Space	Air Direct from Outside
HIGH LEVEL	340	170
LOW LEVEL	340	170

RS.125

Position of Air Vent	Air from Room Internal Space	Air Direct from Outside
HIGH LEVEL	420	210
LOW LEVEL	420	210

WATER CIRCULATION SYSTEM

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

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.

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

The hydraulic resistance of the boiler is given in Fig.2.

The central heating system should be in accordance with the relevant recommendations given in BS.5376:2 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.

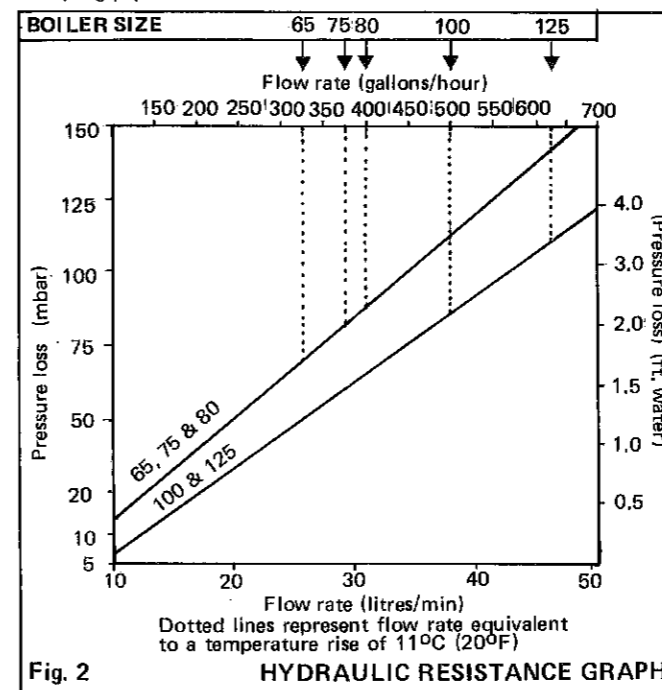


Fig. 2 HYDRAULIC RESISTANCE GRAPH

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 I.E.E. Regulations and any Local Regulations which apply.

The boiler is supplied for 200/250 volt, 50 Hz \sim Single Phase.

Fuse rating is 3A.

The method of connection to the mains electricity supply should 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, serving only the boiler, may be used.

The point of connection to the mains should be readily accessible and adjacent to the boiler, EXCEPT that, for bathroom installations, the point of connection to the mains MUST be situated outside the bathroom.

INSTALLATION

LEGEND:

- | | |
|-------------------------------|---|
| 1. Boiler baseplate | 10. Collector hood |
| 2. Gas inlet pipe | 11. Terminal grille |
| 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. Air and flue duct assembly | |

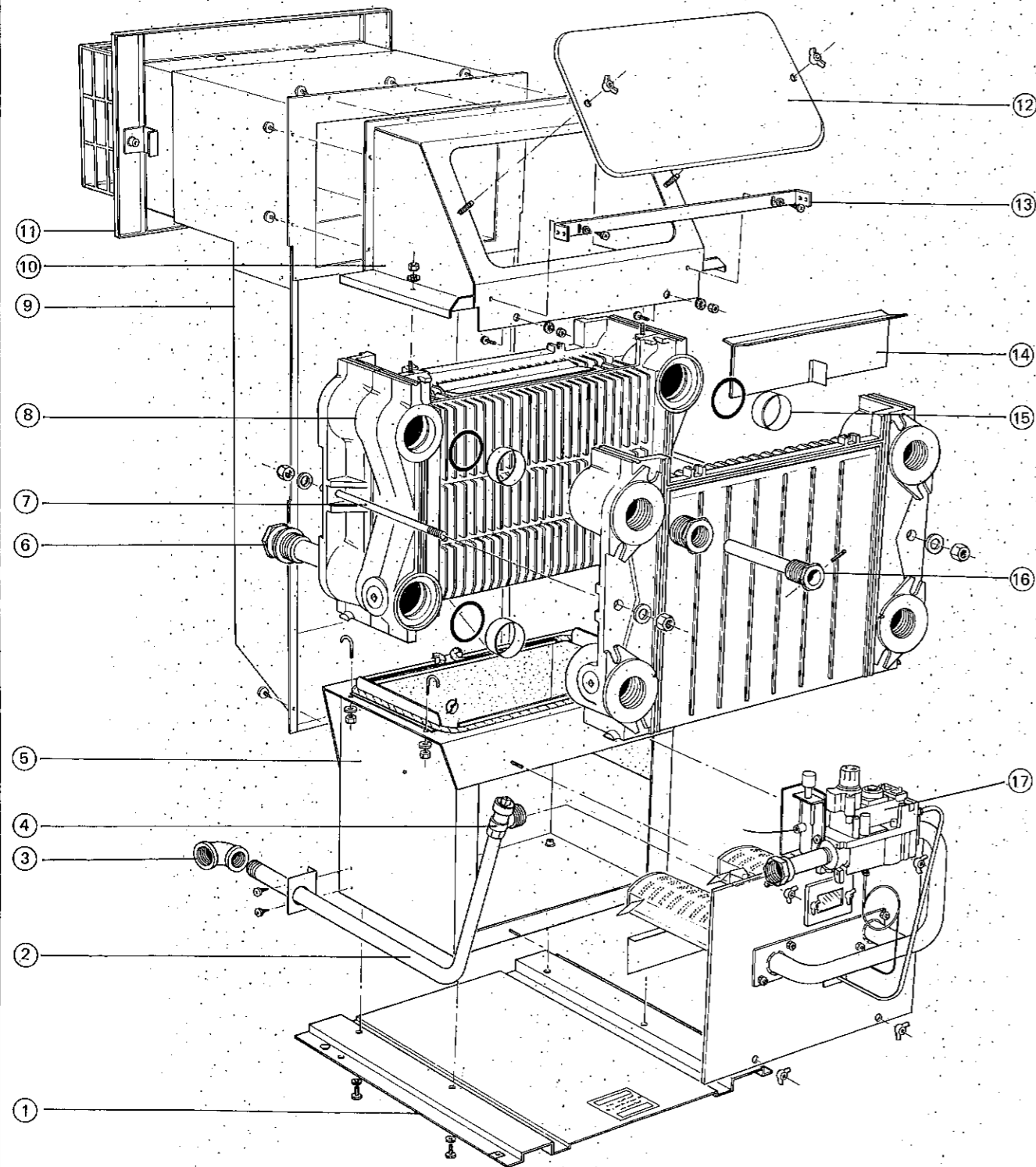
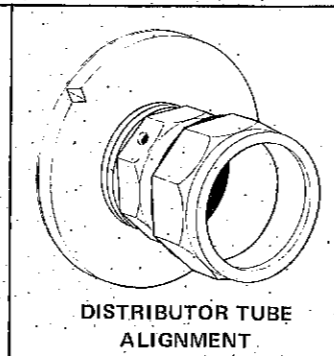


Fig. 3 (RS. 65 Shown) BOILER BODY ASSEMBLY

PACKAGING

The boiler is supplied fully assembled, and despatched in one carton, together with either one or two of four cartons - B, B1, C or D.

Cartons B, B1 and C contain the terminal outlet appropriate to the wall thickness.

Carton D contains the flue duct extensions.

RS.65 - RS.100 Boilers

Supplied in carton	With boiler fitted flush up to wall	With boiler fitted in line with 600mm metric kitchen units
	Wall thickness	Wall thickness
C	mm	114 to 191
	in	4½ to 7½
B	mm	229 to 305
	in	9 to 12
B1	mm	318 to 394
	in	12½ to 15½
B & D	mm	406 to 584
	in	16 to 23
		Up to 125
		Up to 5
		163 to 242
		6½ to 9½
		253 to 332
		10 to 13
		340 to 518
		13½ to 20½

RS.125 Boiler

Supplied in carton	With boiler fitted flush up to wall and in line with 600mm metric units	
	Wall thickness	
C	mm	114 to 191
	in	4½ to 7½
B	mm	229 to 305
	in	9 to 12
B1	mm	318 to 394
	in	12½ to 15½

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

	RS.65-100	RS.125
WIDTH	mm	460
	in	18
DEPTH	mm	535
	in	21
HEIGHT	mm	870
	in	34¼

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

	RS.65-100	RS.125
At the top of boiler	mm	20
	in	¾
At each side of boiler	mm	10
	in	3/8
		55
		2¼

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

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, remove the gas valve lead from the cable

clip on the right hand side panel. Place the upper front panel to one side.

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. 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.

Cut a suitable opening in the wall - refer Fig. 5.

The brick courses will probably dictate a larger hole than the one indicated.

The installer is advised to make good the hole in the inner skin to the given dimensions BEFORE fitting the boiler.

This will ease the job of sealing between the terminal box and the wall after the boiler has been fixed in position.

The terminal box MUST NOT come into contact with combustible material, such as that used in non-standard constructions of timber framework and plaster board etc.

If in difficulty, the Local Gas Region will advise.

Place the boiler in the selected position ready for water and flue connections.

FITTING THE FLUE DUCT ASSEMBLY AND TERMINAL GRILLE

RS.65 - refer Fig. 6

Separate the terminal grille (A) from the terminal duct assembly (B), by removing the two screws (C).

Smear mastic liberally on the INNER surface of the boiler air duct (G) and the OUTER surface of the terminal air duct (F).

The end of each duct should be coated to a MINIMUM depth of 25mm (1in).

From outside the building, pass the duct assembly through the opening and slide it into the boiler outlet.

Ensure the flue duct (D) slides OVER the boiler flue outlet (E) and the air duct (F) slides INTO the boiler air duct (G).

Push the terminal duct assembly in until the side fixing brackets (H) contact the wall face.

Make good between wall and ducts, INSIDE and OUTSIDE the building.

When thoroughly dry, fasten the terminal grille to the flue duct assembly with the two screws.

RS.75, 80, 100 & 125 - refer Fig. 7

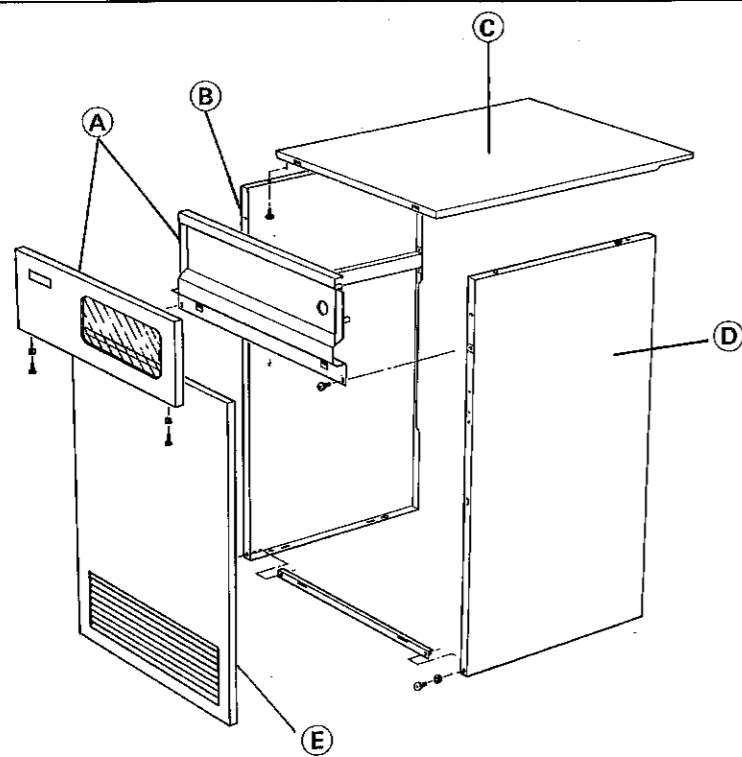
Separate the terminal grille and air duct assembly (A) from the terminal duct assembly (B), by removing the two screws (C).

Smear mastic liberally on the INNER surface of the boiler air duct (G) and the OUTER surface of the terminal air duct (F).

The end of each duct should be coated to a MINIMUM depth of 25mm (1in).

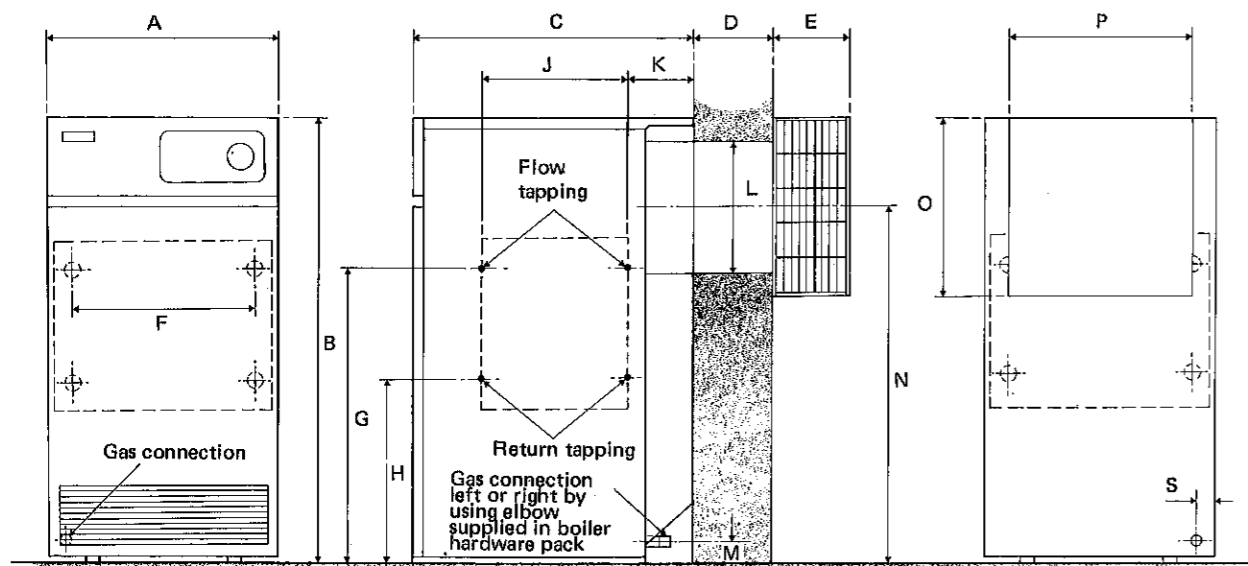
From outside the building, pass the duct assembly through the opening and slide it into the boiler outlet.

Ensure the flue duct (D) slides OVER the boiler flue outlet



- LEGEND:**
 A. Upper front panel
 B. L.H. side panel
 C. Top panel
 D. R.H. side panel
 E. Lower front panel

Fig. 4 CASING ASSEMBLY

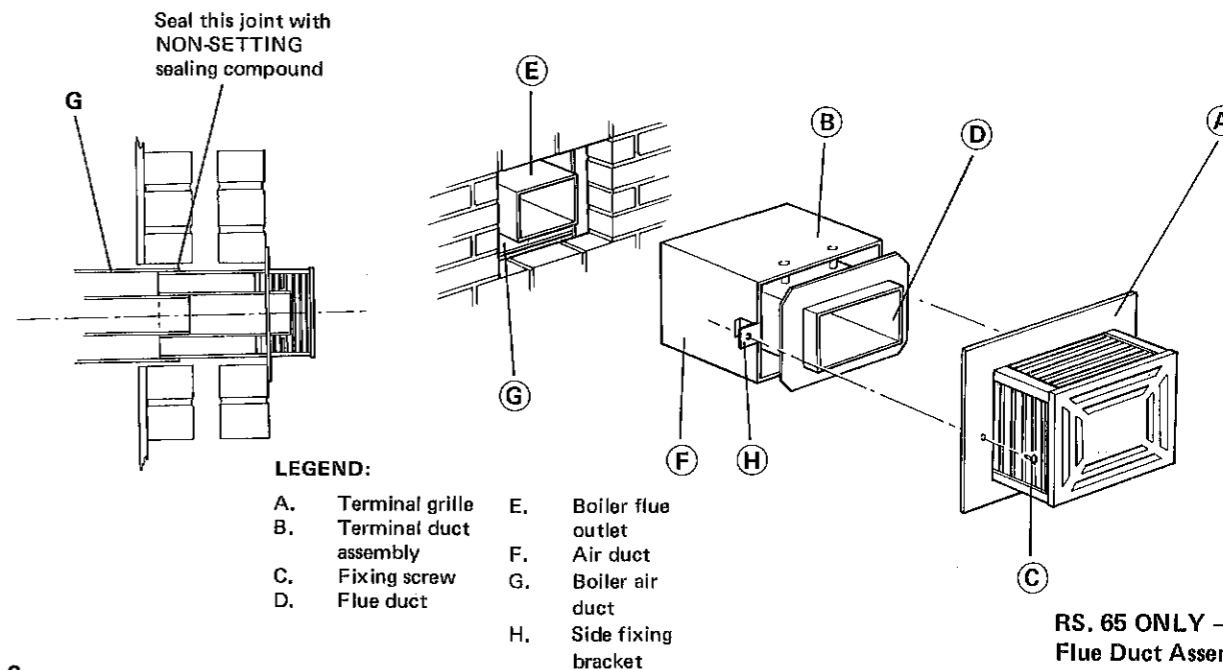


THE AIR DUCT WIDTH IS 285mm (11 1/8in) IN ALL CASES

Boiler Size	Dimn.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	S
RS 65	mm in	440 17 3/8	850 33 1/2	533 21	** **	110 4 3/8	358 14 1/8	560 22	335 13 1/4	218 8 5/8	112 4 3/8	200 7 7/8	50 2	696 27 3/8	200 7 7/8	280 11	28 1 1/8
RS 75	mm in	440 17 3/8	850 33 1/2	533 21	** **	152 6	358 14 1/8	560 22	335 13 1/4	218 8 5/8	112 4 3/8	248 9 3/4	50 2	672 26 1/2	338 13 1/8	370 14 5/8	28 1 1/8
RS 80	mm in	440 17 3/8	850 33 1/2	533 21	** **	167 6 5/8	358 14 1/8	560 22	335 13 1/4	218 8 5/8	112 4 3/8	312 12 1/4	50 2	640 25 1/8	394 15 1/2	370 14 5/8	28 1 1/8
RS 100	mm in	440 17 3/8	850 33 1/2	533 21	** **	167 6 5/8	358 14 1/8	560 22	335 13 1/4	291 11 3/8	112 4 3/8	312 12 1/4	50 2	640 25 1/8	394 15 1/2	370 14 5/8	28 1 1/8
RS 125	mm in	440 17 3/8	850 33 1/2	600 23 5/8	** **	182 7 1/4	358 14 1/8	560 22	335 13 1/4	363 14 1/4	112 4 3/8	340 13 3/8	50 2	626 24 5/8	433 17	370 14 5/8	28 1 1/8

NOTE: ** VARIABLE DIMENSION
 IMPERIAL Dimensions approximate

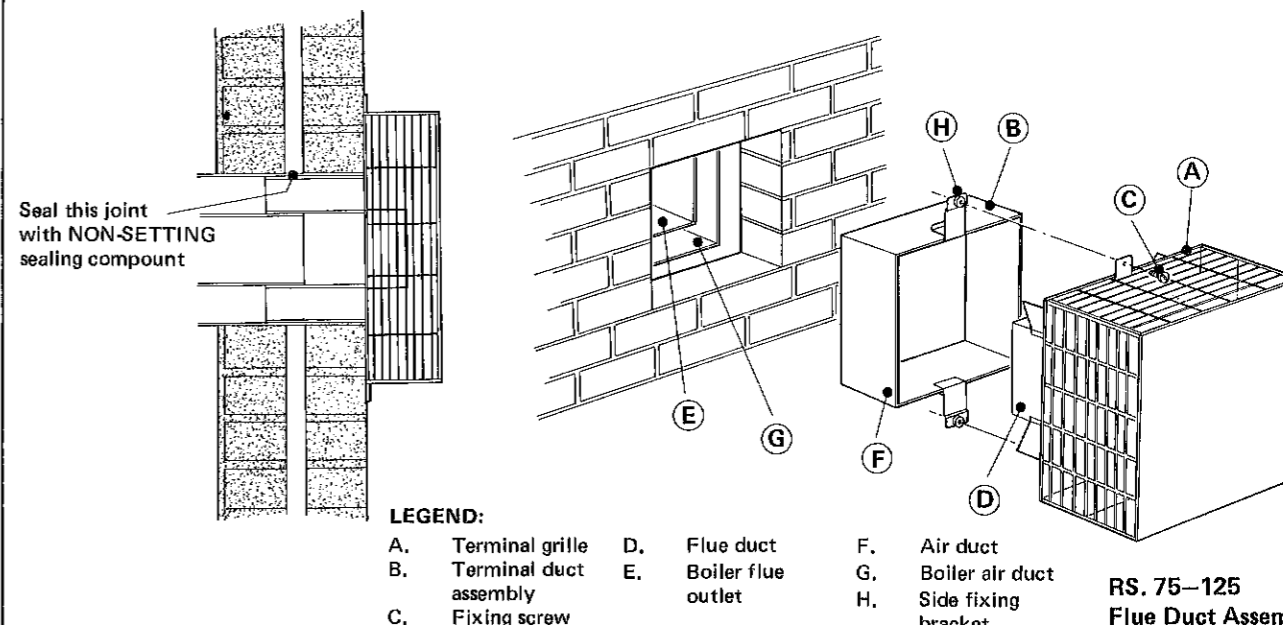
Fig. 5 DIMENSIONS



- LEGEND:**
 A. Terminal grille
 B. Terminal duct assembly
 C. Fixing screw
 D. Flue duct
 E. Boiler flue outlet
 F. Air duct
 G. Boiler air duct
 H. Side fixing bracket

Fig. 6

**RS. 65 ONLY –
 Flue Duct Assembly
 and Terminal Grille**



- LEGEND:**
 A. Terminal grille
 B. Terminal duct assembly
 C. Fixing screw
 D. Flue duct
 E. Boiler flue outlet
 F. Air duct
 G. Boiler air duct
 H. Side fixing bracket

Fig. 7

**RS. 75-125
 Flue Duct Assembly
 and Terminal Grille**

USED FOR WALL THICKNESS EXCEEDING 318mm (12 1/2in)
 Dimensions in millimetres (inches)

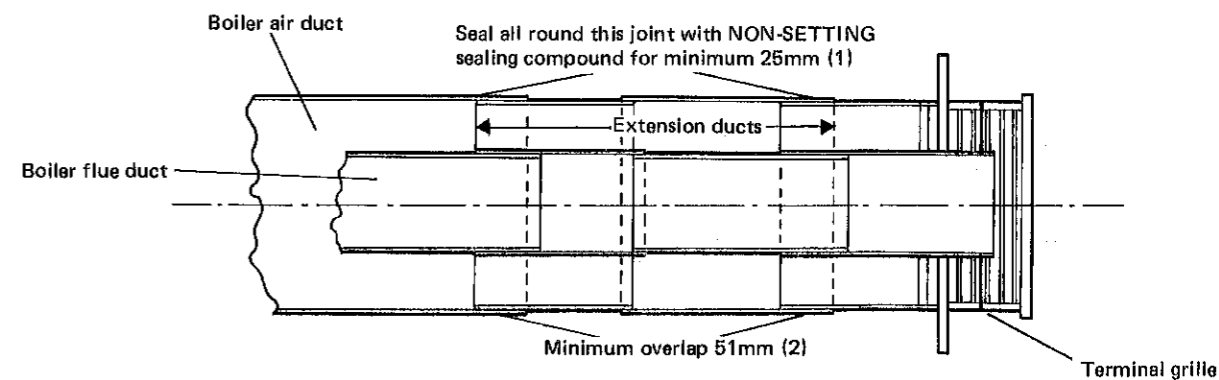


Fig. 8

**EXTENSION DUCT ARRANGEMENT
 RS. 60 – 100 ONLY**

(E) and the air duct (F) slides INTO the boiler air duct (G). Push the terminal duct assembly in until the side fixing brackets (H) contact the wall face.

Make good between wall and ducts, INSIDE and OUTSIDE the building.

When thoroughly dry, fasten the terminal grille to the flue duct assembly with the two screws.

EXTENSION DUCTS
— RS.65 to RS.100 ONLY

Extension ducts are available for installation where the wall thickness exceeds 408mm (16in).

They are used to bridge the gap between the appliance terminal box and the flue duct assembly, and NO other method should be used.

Neither should the gap be left unbridged.
FITTING THE EXTENSION DUCT

— refer Fig. 8

The extension duct has ends of unequal size corresponding to the thickness of the metal.

Take the LARGER duct and apply mastic liberally over 25mm (1in) of the OUTER surface of the SMALLER end. Next, similarly apply mastic to 25mm (1in) of the INNER surface of the boiler terminal air duct — this is the OUTER duct.

Slide the SMALL end of the air duct extension through the wall opening and approximately 51mm (2in) INTO the boiler terminal box air duct.

Slide the LARGE end of the flue duct extension OVER the boiler terminal box flue duct — approximately 51mm (2in).

Apply mastic liberally to the first 25mm (1in) of the INNER surface of the air duct extension and the OUTER surface of the terminal duct assembly air duct.

Now fit the terminal duct assembly from outside the building — the terminal grille MUST be removed by means of screws (C).

Slide the flue duct OVER the extension flue duct and the air duct INTO the extension air duct.

Push the terminal duct assembly inward until the fixing brackets contact the wall surface.

Make good INSIDE and OUTSIDE the building, around the wall opening, and fit the terminal grille.

WATER CONNECTIONS
—Fig. 5

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 RS.125 boiler, the pipework MUST be increased to Rc1¼ (1¼in.BSP) as soon as possible after leaving the boiler.

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 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.

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. 3., to ensure the correct positioning of the distributor tube.

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

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.

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.

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. 9, 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. 9.

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.

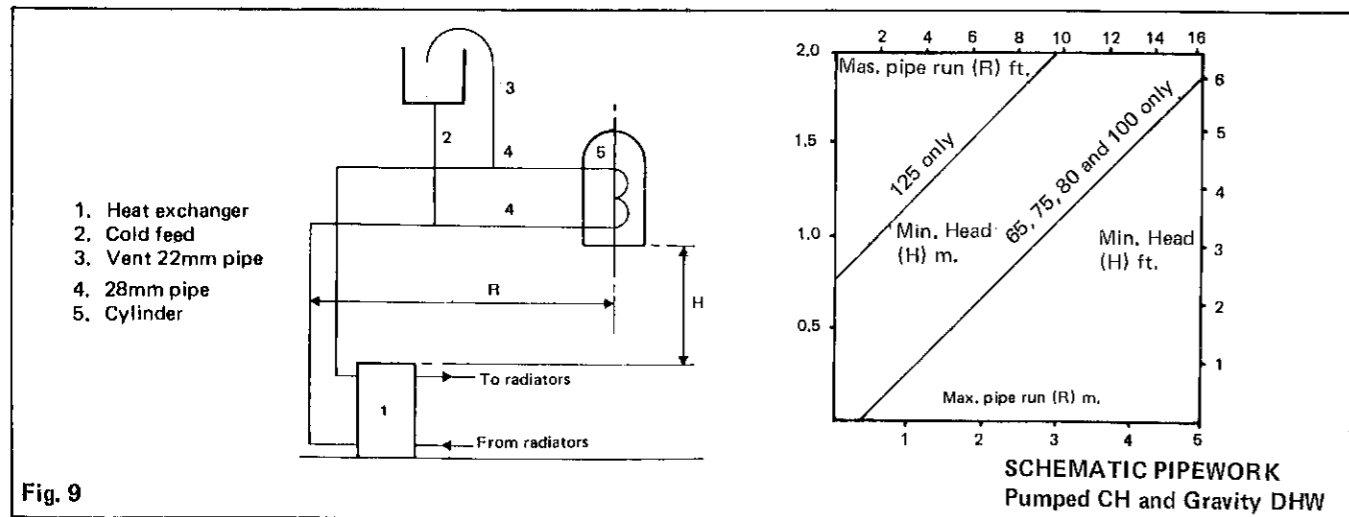


Table 3

FULLY PUMPED SYSTEMS

	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	40, 55	*		LH	LH			RH
	65, 75 and 80	*		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
	40,55,65, 75 & 80	*	*		LH	LH		RH
	65,75,80 ONLY	*	*		LH	RH		RH
	*	*		RH	LH		LH	
	*	*		RH	RH		LH	

Table 4

GRAVITY DOMESTIC HOT WATER AND PUMPED CENTRAL HEATING

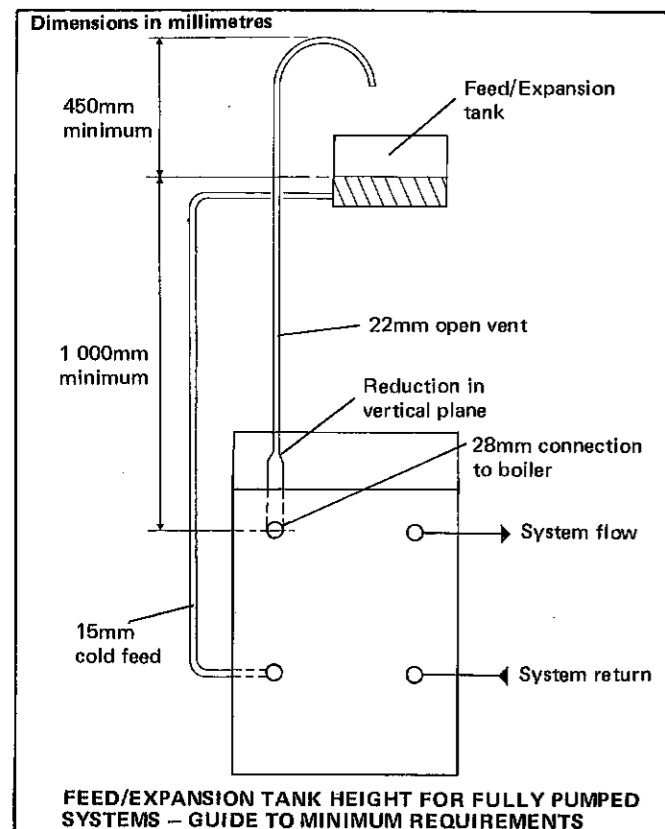
	CHOSEN PUMP POSITION		CONNECTION AS VIEWED FROM FRONT								THERMOSTAT POSITION			
			Front Section				Back Section				Front Section			
	Flow	Return	CH		DHW		CH		DHW		Top			
Pump fitted external to boiler	*	*							LH	LH	RH	RH	LH	
	*	*							LH	RH	RH	LH	LH	
	*	*							RH	RH	LH	LH	RH	
	*	*							RH	LH	LH	RH	RH	
Pump fitted inside boiler jacket	40,55, 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
	40,55,65 75 & 80	*	*		LH			LH		RH	RH			RH
	65,75,80 ONLY	*	*		LH			RH		LH	LH			RH
		*	*		RH			RH		LH	LH			LH
		*	*		RH			LH		RH	RH			LH

**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 tapplings according to the options shown in Table 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 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.



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 200/250 volt, 50 Hz, ~ 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 16/0.2mm. Wiring external to the boiler MUST be in accordance with the 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. 10, 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, 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. 11 and 12. 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. 13–19 cover the systems most likely to be fitted to this appliance. For wiring external controls to the IDEAL MEXICO SUPER RS 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. 11 and 12. 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-riden.
3. Controls that switch the circulating pump only ON and OFF, e.g. a room thermostat, MUST be wired in series 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 time control should be made without disturbing other wiring.
2. The frost thermostat should be sited in a cool

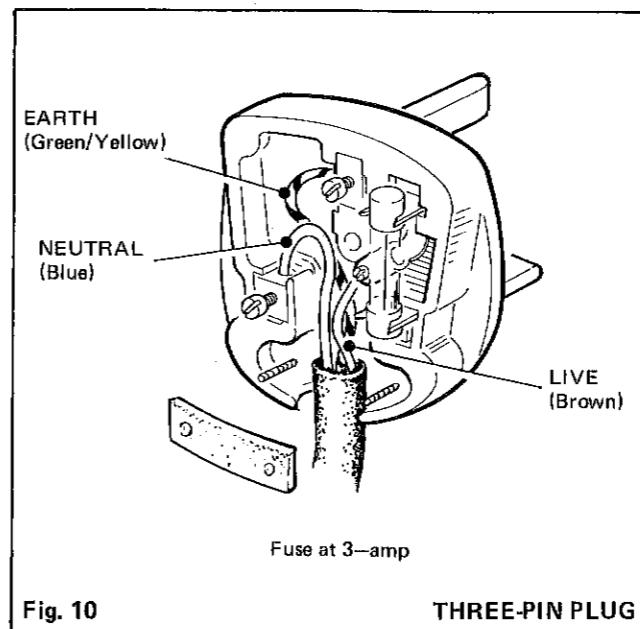


Fig. 10

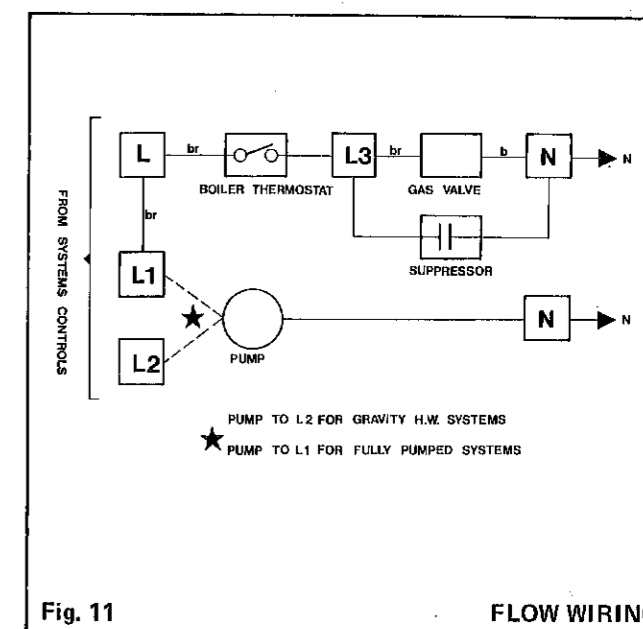


Fig. 11

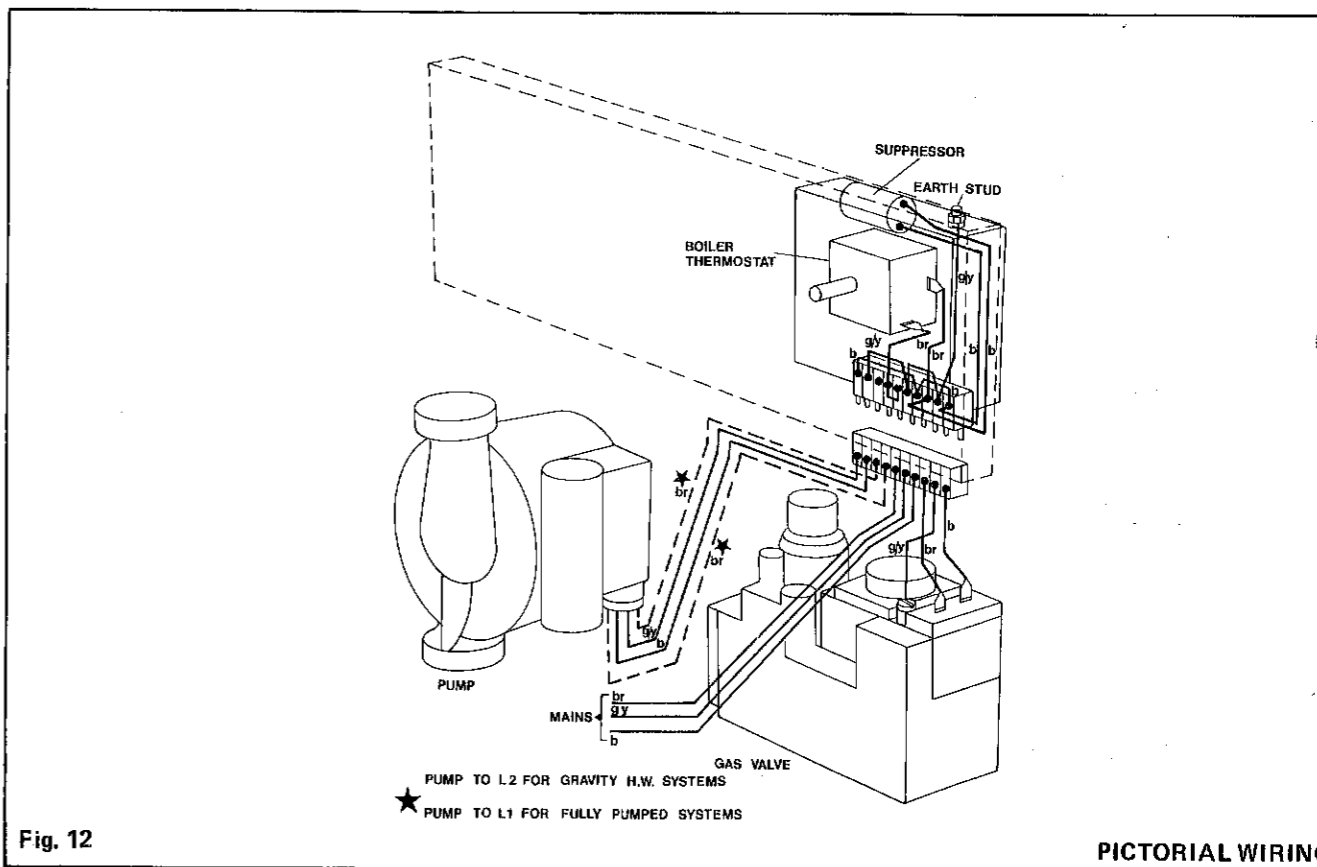


Fig. 12

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. With the pump fitted, the system should be filled and air locks cleared. Check for water soundness.

INITIAL LIGHTING INSTRUCTIONS

– Refer Fig. 20

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

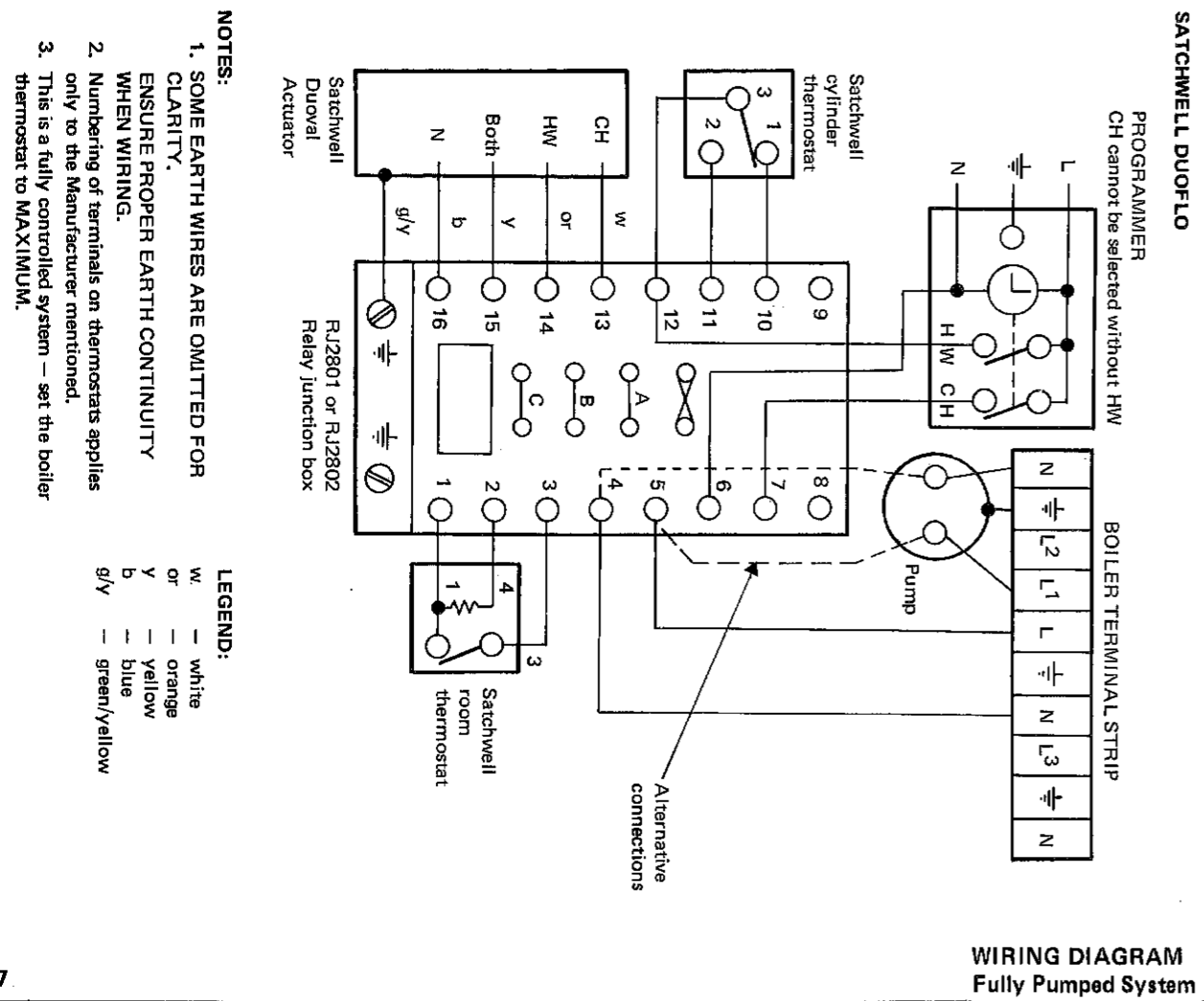


Fig. 17 WIRING DIAGRAM Fully Pumped System

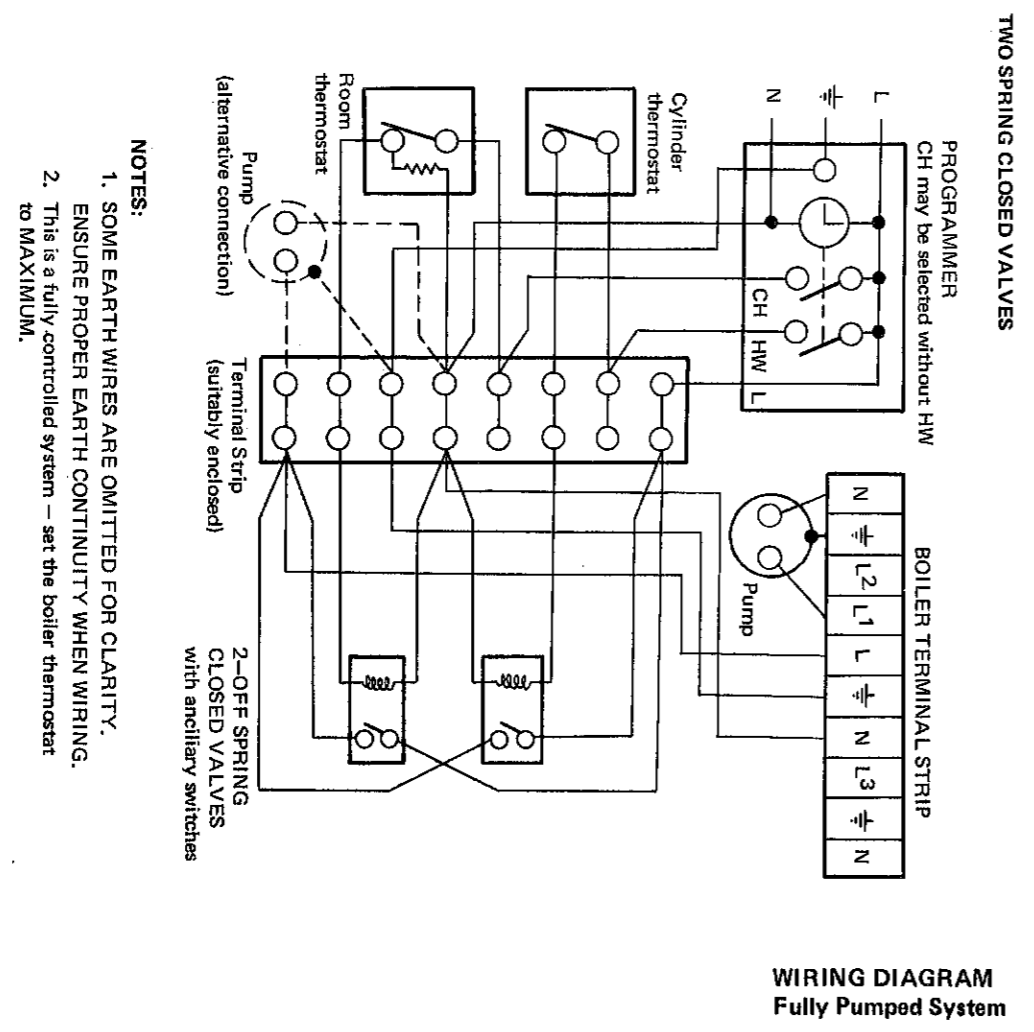


Fig. 18 WIRING DIAGRAM Fully Pumped System

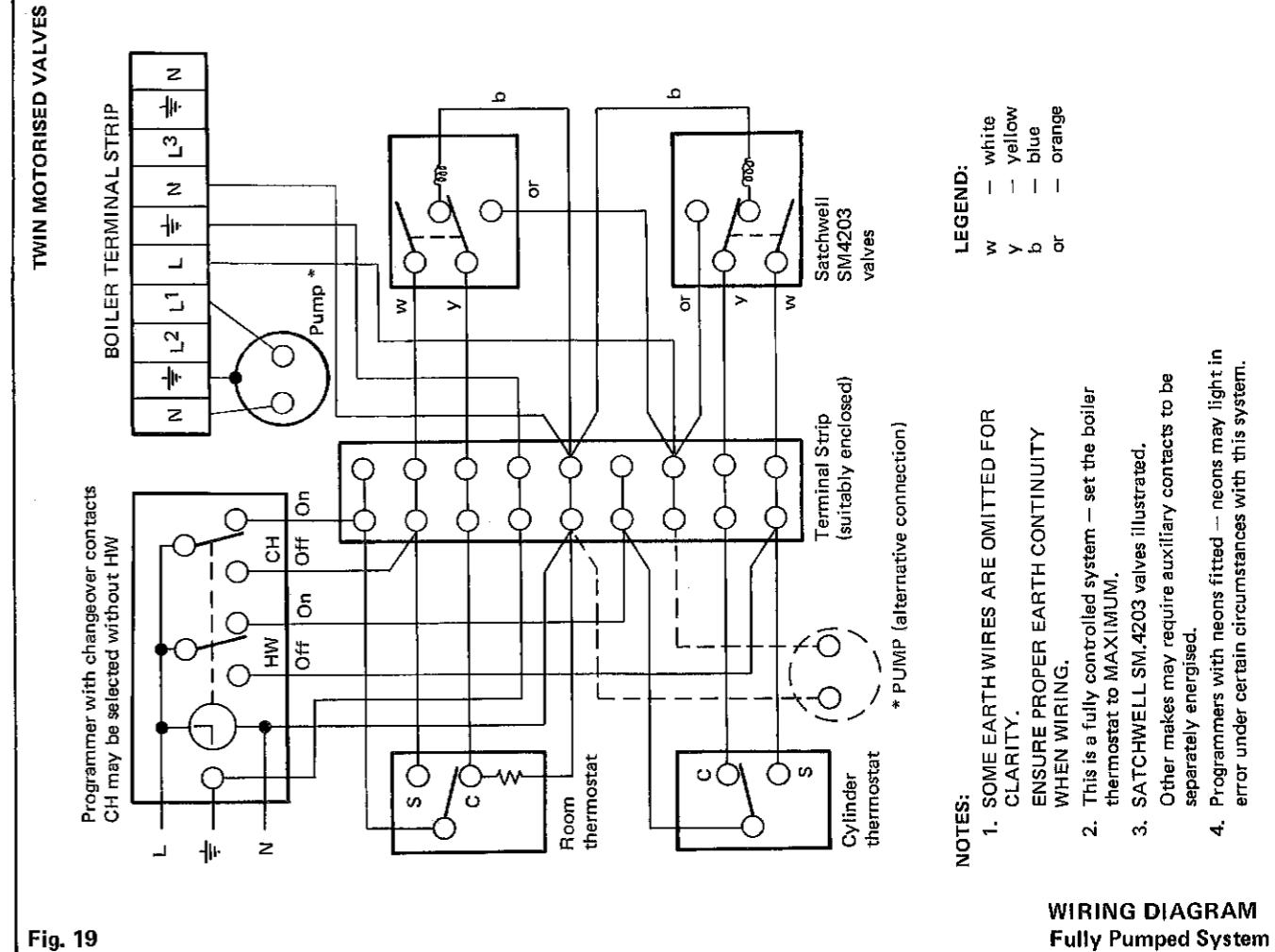


Fig. 19 WIRING DIAGRAM Fully Pumped System

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

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.

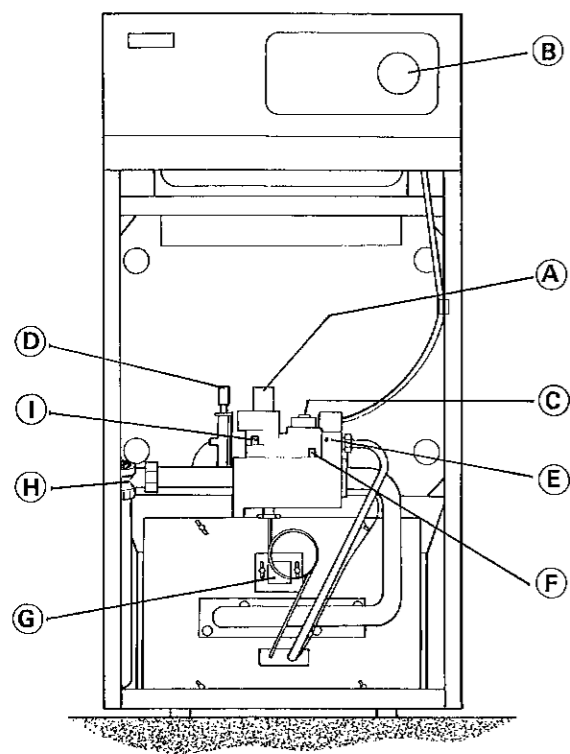
- Note:**
A latch in the gas control provides a safe delay period before the boiler can be relit.
3. Check the appearance of the pilot flame and, if necessary, make appropriate adjustment by use of the pilot adjuster screw — (E), Fig. 20.
 4. The correct operation of the programmer, and all other system controls, should be proved.
Operate each control separately and check that the main burner or circulating pump, as the case may be, responds.
 5. 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.
6. Replace the lower front panel.
7. 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



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. 20

BOILER CONTROLS

- procedures.
- 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.
 - Explain the function and the use of the boiler thermostat and external controls.
 - Explain, and demonstrate, the function of time and temperature controls, radiator valves etc., in the economic use of the system.
 - 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.

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.
- 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.
- Inspect the pilot burner, thermocouple and ignition electrode — ensure they are clean and in good condition.
- In particular, check that:
 - The pilot burner is firmly secured.
 - The pilot shield is clean and unobstructed.
 - The ignition electrode and lead are clean, undamaged and secure.
 - The thermocouple tip is NOT burned or cracked.
 - The thermocouple terminal, at the gas valve, is clean and secure.
 - The pilot burner head is clean and undamaged.
- Re-assemble in reverse order.

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. 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.

Refit the burner assembly.

Complete the gas and electrical connections.

PILOT BURNER

Light the boiler and check that :

- 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. 21.
- The pilot flame covers 13mm (½in) of the thermocouple tip.
Turn the adjuster screw (E), Fig. 20, 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. 20. 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'.

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. 22, 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 spring are in position in the thermostat pocket BEFORE securing with the split pin.

Piezo Unit

Disconnect the igniter lead from the piezo unit body. Remove the screw and washer securing the piezo unit to the gas valve.

Fit the new unit, ensuring the piezo unit heat shield is replaced.

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.

Unfasten the two screws securing the pipe sealing plate to the front plate and carefully remove the plate and gasket. Remove the purse clips that secures the igniter lead 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.

Unfasten the two screws securing the pipe sealing plate to the front plate and carefully remove the plate and gasket. 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.

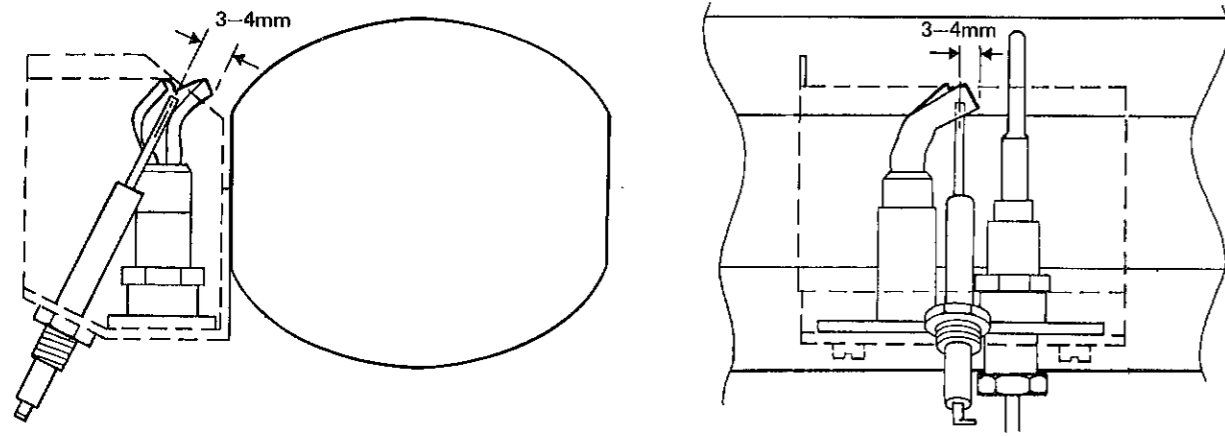
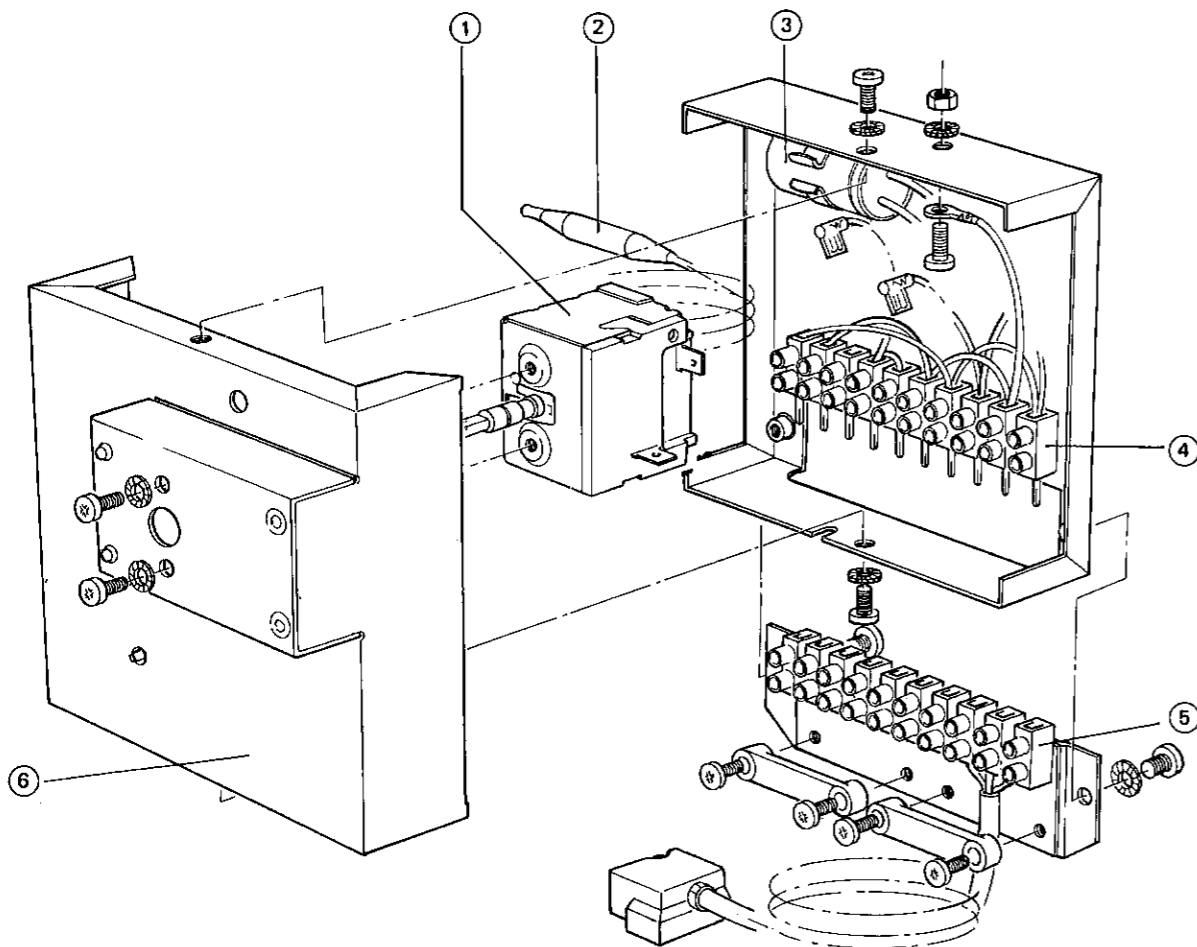


Fig. 21 PILOT and ELECTRODE POSITION



- LEGEND:**
- | | |
|----------------------|----------------------|
| 1. Boiler Thermostat | 4. Terminal Strip |
| 2. Thermostat Phial | 5. Connector Plug |
| 3. Suppressor | 6. Control Box Cover |

Fig. 22 CONTROL BOX

- LEGEND:**
- | | |
|--------------------------|---------------------------|
| 1. Pilot burner | 8. Gas manifold |
| 2. Spark electrode | 9. Pilot pipe |
| 3. R.H. burner | 10. Sight glass |
| 4. Piezo unit | 11. Burner injector |
| 5. Piezo unit heatshield | 12. Space nipple |
| 6. Gas valve | 13. Gas cock union |
| 7. 'O' ring | 14. Burner baffle |
| | 15. L.H. Burner |
| | 16. Thermocouple |
| | 17. Pilot burner injector |

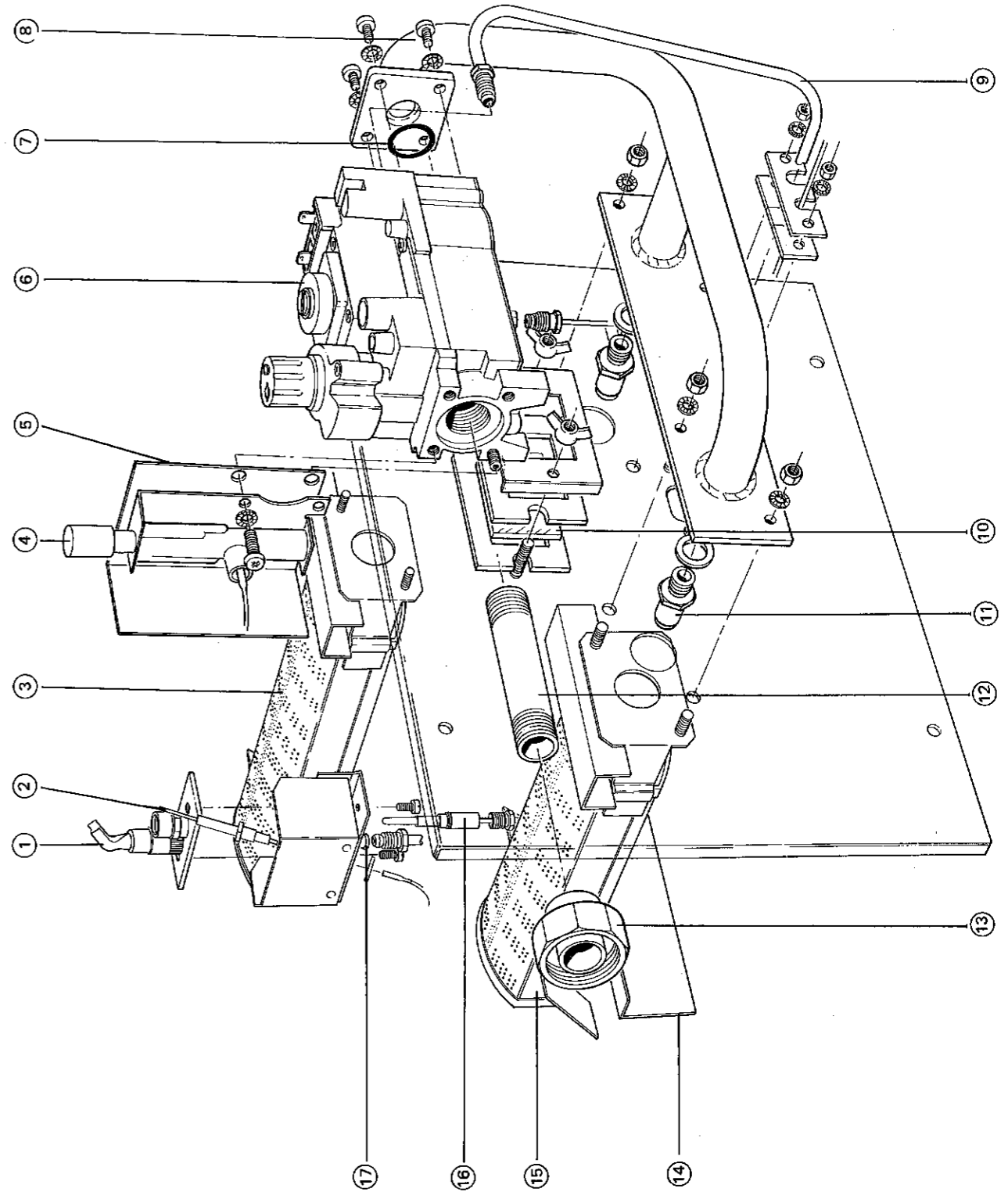


Fig. 23 BURNER AND CONTROLS

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.

Disconnect the pilot gas pipe and thermocouple at the gas valve.

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 and test for gas soundness.

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.

Note:

On RS.100 and RS.125 boilers ONLY, remove and replace the edge clip securing the two end burner baffles together.

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. 23

Main Burner Injector

Remove the appropriate burner as described previously.

Fit the new injector, using a NEW gasket, (except RS 100 no gasket required).

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.

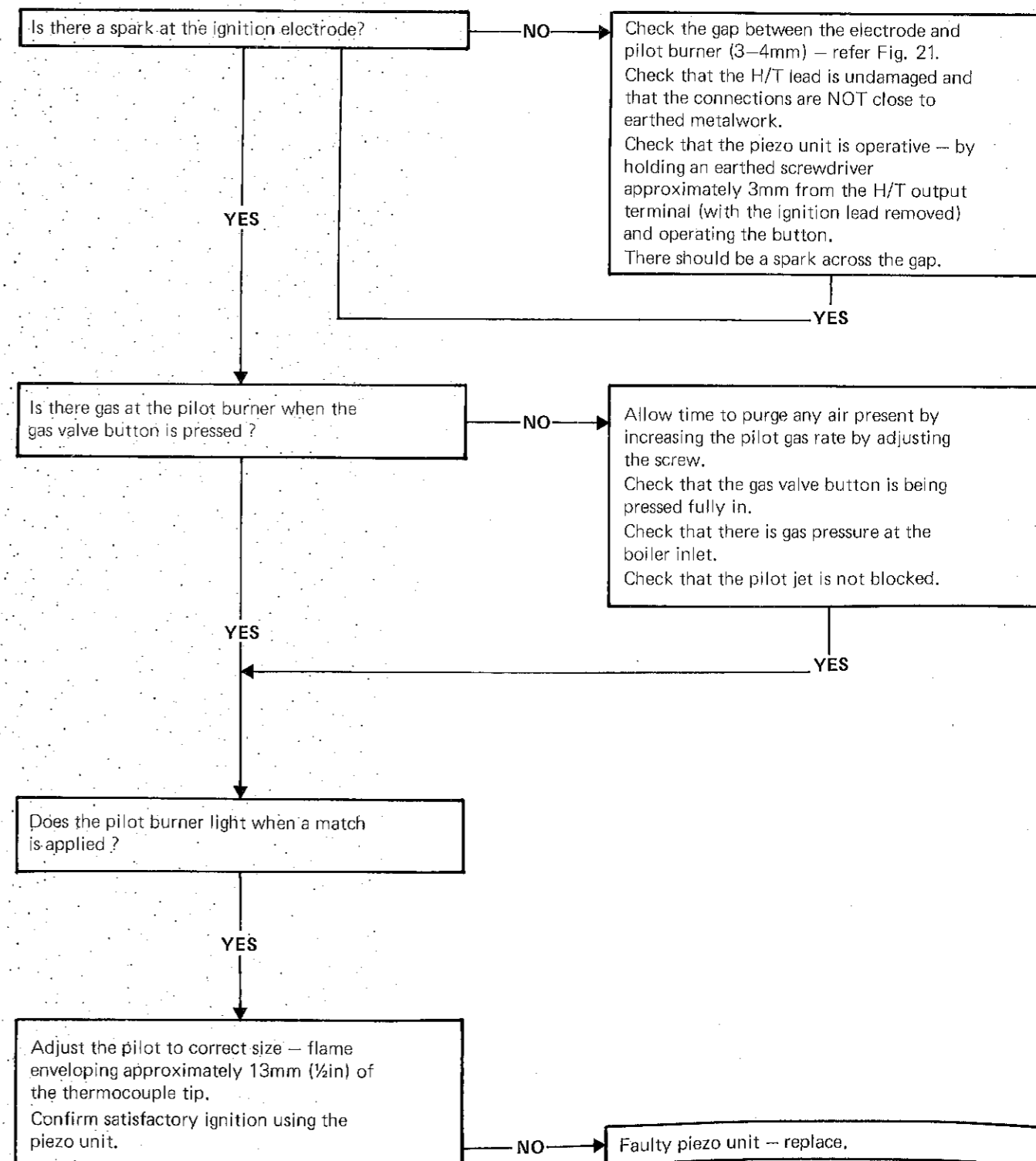
On completion of the service/fault finding task, which has required the breaking and remaking of electrical connections, then the checks:

- Earth Continuity,
- Polarity, and
- Resistance to Earth —

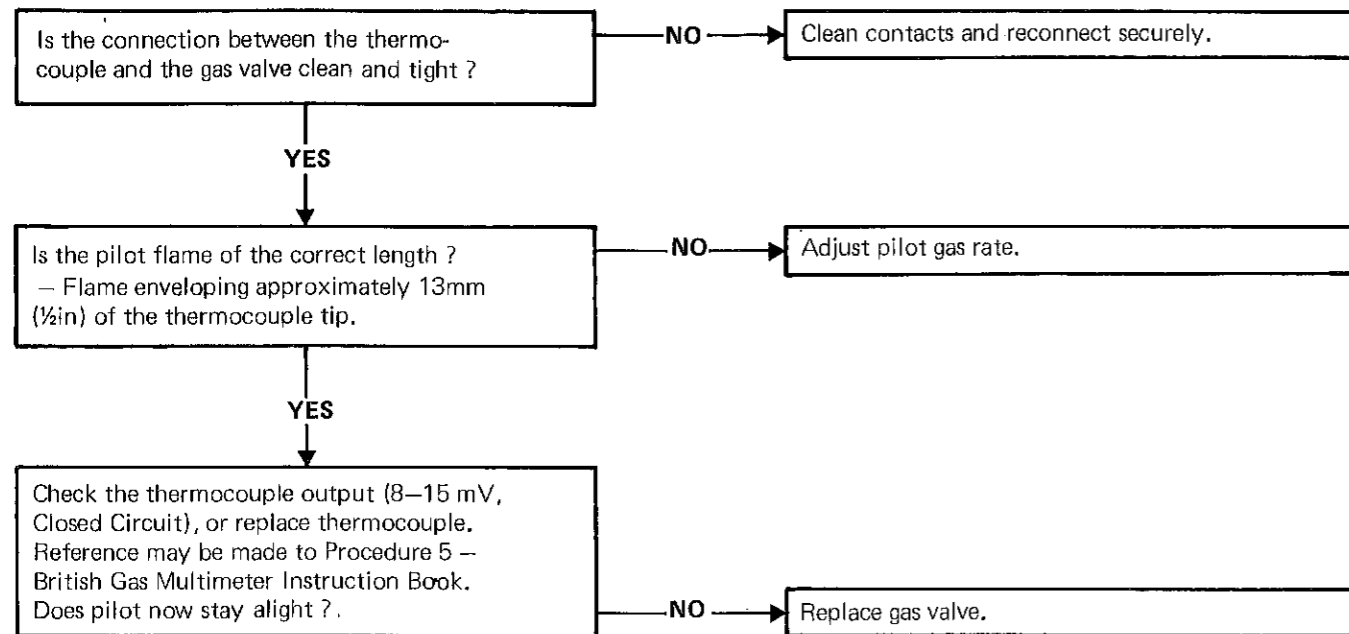
MUST be repeated.

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

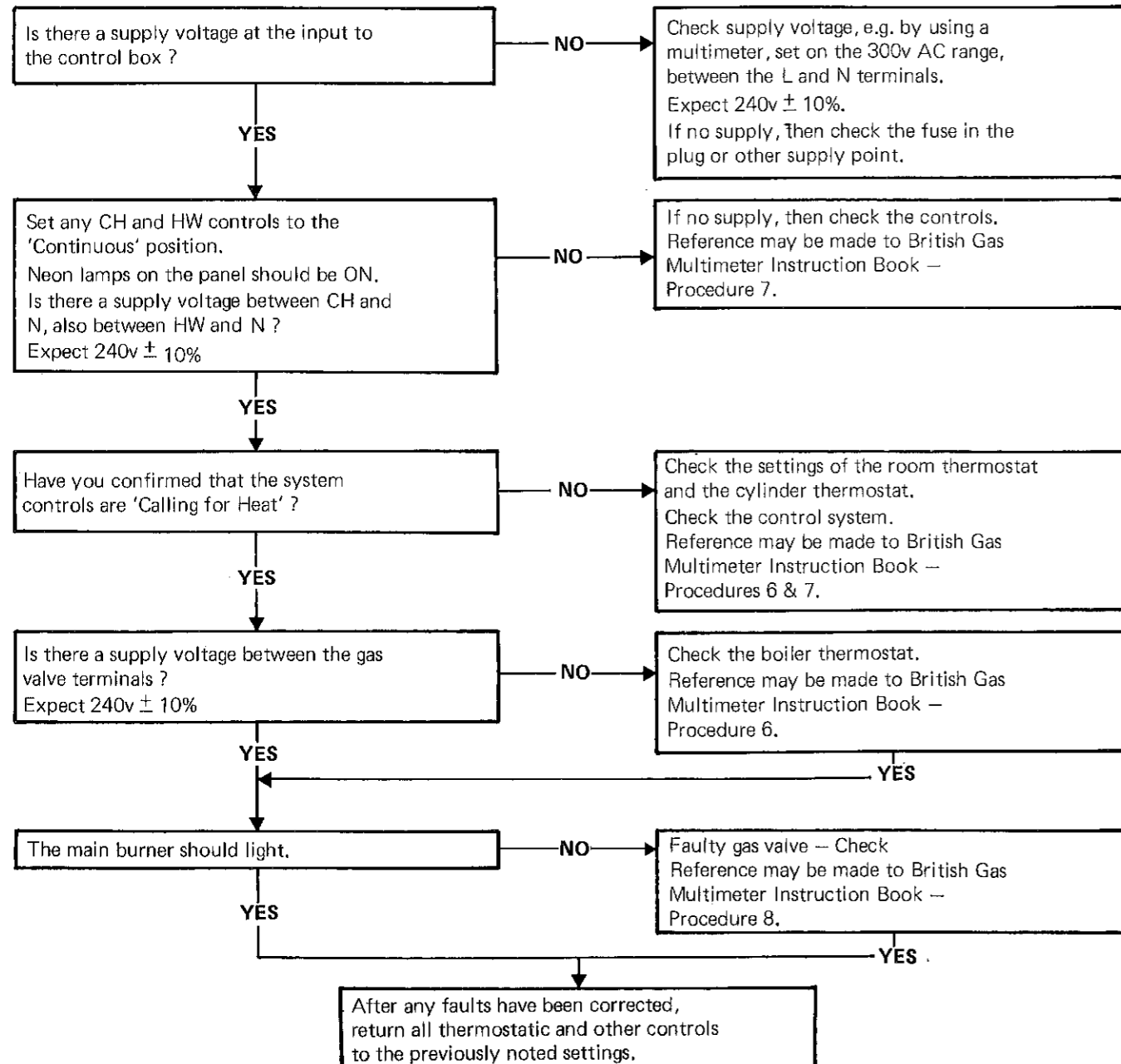
PILOT WILL NOT LIGHT



**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 RS.65,75 & 80 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	383 594	RH burner bar - AEROMATIC 19/12-3215 complete with pilot burner bracket	1	129078737
18	383 597	LH burner bar - AEROMATIC 19/12-3214 less pilot burner bracket	1	129078738
21		Burner injector and fibre washer:		
	398 376	BRAY Cat. 23 Size 950 - RS. 65 Model	1	129078739
	398 476	BRAY Cat. 23 Size 1050 - RS. 75 Model	1	129088739
	398 380	BRAY Cat. 23 Size 1100 - RS. 80 Model	1	129120424
22	391 574	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	1/2in. 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	589010088
28	390 210	Thermocouple - HONEYWELL Q309 A2739 - 750mm lg.	1	576010051
30	341 394	Control box - includes Key No's 31, 32 and 33	1	586071270
31		Thermostat - RANCO CL6 P0104	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	341 395	Jacket - WHITE Stove Enamel	1	129078211
35	341 363	L.H. Side jacket panel assembly - WHITE Stove Enamel	1	129018212
36	341 365	R.H. Side jacket panel assembly - WHITE Stove Enamel	1	129018213
37	341 367	Jacket top panel assembly - WHITE Stove Enamel	1	129078215
38	341 398	Jacket upper front panel assembly (LESS controls) - WHITE Stove Enamel, with plastic sliding fascia cover	1	129078216
39	341 371	Plastic sliding fascia cover	1	129018140
40	341 399	Jacket lower front panel assembly - WHITE Stove Enamel - complete with Instruction Plate	1	129078218

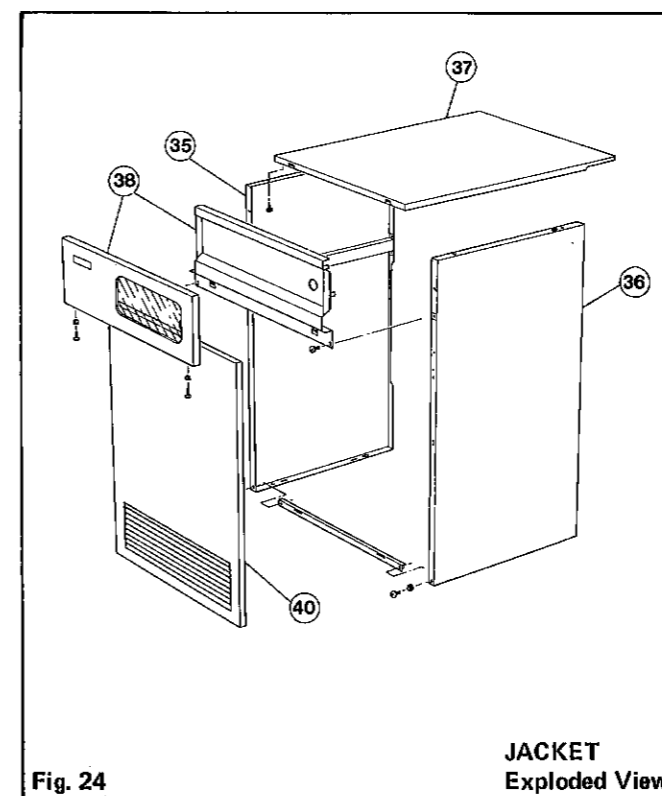


Fig. 24

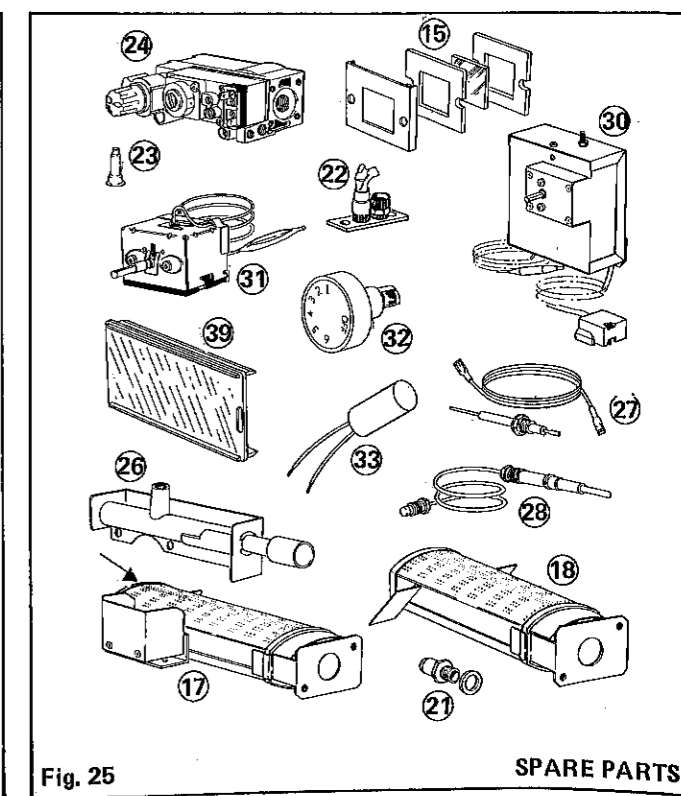


Fig. 25

SPARE PARTS

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.

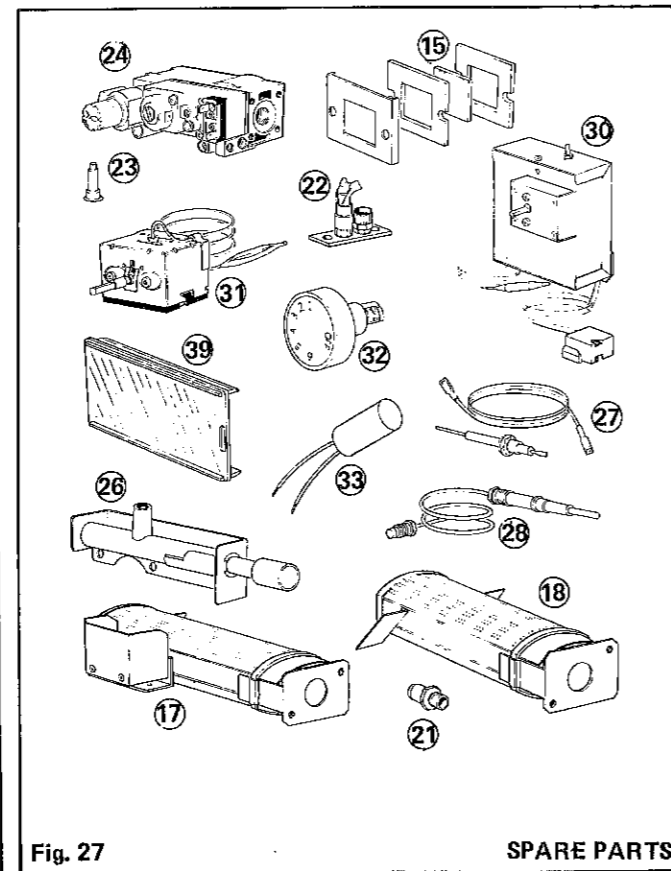
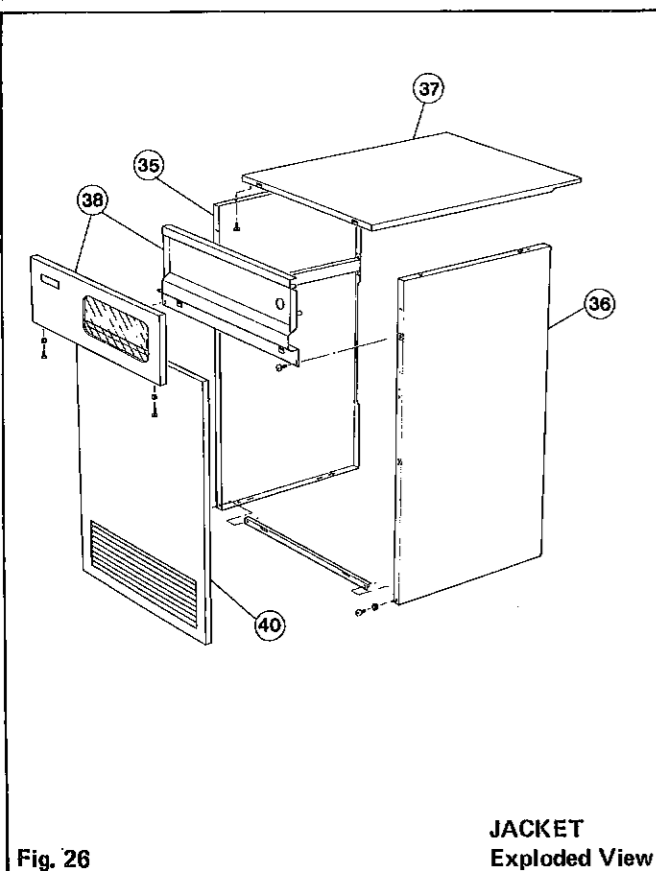
Copies of the B.G.C. Lists are held by Gas Regions, Stelrad Distributors and by Merchants.

IDEAL MEXICO SUPER RS. 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	383 595	RH burner bar - AEROMATIC 19/12-3217 complete with pilot burner bracket	1	129108737
18	383 598	LH burner bar - AEROMATIC 19/12-3216 less pilot burner bracket	1	129108738
21	398 055	Burner injector - BRAY Cat. 10 Size 1400	1	129108739
22	391 574	Pilot burner - HONEYWELL Q314 A5823 with BCR.18 injector	1	586861610
23	390 974	Pilot burner injector - HONEYWELL BCR.18	1	169120177
24	393 659	1/2in.BSP HONEYWELL Compact gas control - V4600 A1023 240	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	589010088
28	380 210	Thermocouple - HONEYWELL Q309 A2739 - 750mm lg.	1	576010051
30	341 394	Control box - includes Key No's 31, 32 and 33	1	586071270
31		Thermostat - RANCO CL6 P0104	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	341 395	Jacket - WHITE Stove Enamel	1	129078211
35	341 363	L.H. Side jacket panel assembly - WHITE Stove Enamel	1	129018212
36	341 365	R.H. Side jacket panel assembly - WHITE Stove Enamel	1	129018213
37	341 367	Jacket top panel assembly - WHITE Stove Enamel	1	129078215
38	341 398	Jacket upper front panel assembly (LESS Controls) - WHITE Stove Enamel, with plastic sliding fascia cover	1	129078216
39	341 371	Plastic sliding fascia cover	1	129018140
40	341 399	Jacket lower front panel assembly - WHITE Stove Enamel - complete with Instruction Plate	1	129078218



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.

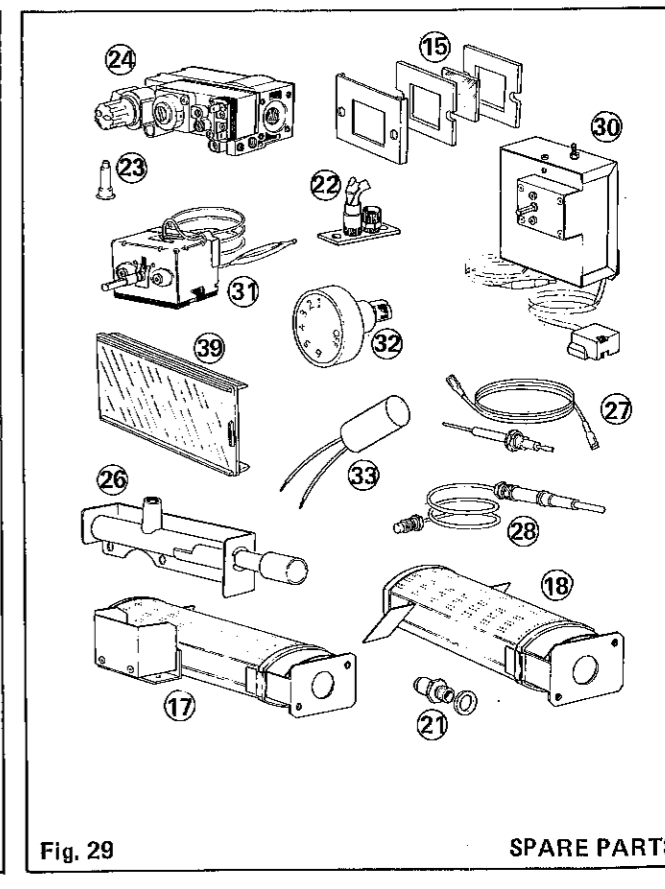
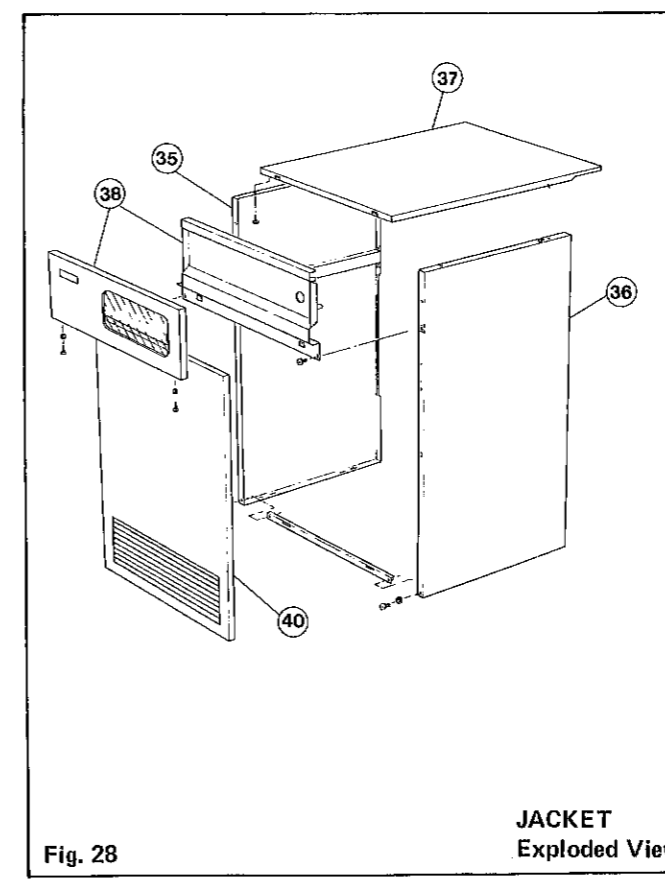
Copies of the B.G.C. Lists are held by Gas Regions, Stelrad Distributors and by Merchants.

IDEAL MEXICO SUPER RS.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	383 595	RH burner bar - AEROMATIC 19/12-3219 complete with pilot burner bracket	1	129118737
18	383 599	LH burner bar - AEROMATIC 19/12-3218 less pilot burner bracket	1	129118738
21	398 363	Burner injector and fibre washer - BRAY Cat. 23 Size 1700	1	129118739
22	391 574	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	1/2in.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	589010088
28	390 210	Thermocouple - HONEYWELL Q309 A2739 - 750mm lg.	1	576010051
30	341 394	Control Box - includes Key No's 31, 32 and 33	1	586071270
31		Thermostat - RANCO CL6 P0104	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	341 396	Jacket - WHITE Stove Enamel	1	129118211
35	341 364	L.H. Side Jacket panel assembly - WHITE Stove Enamel	1	129058212
36	341 366	R.H. Side Jacket panel assembly - WHITE Stove Enamel	1	129058213
37	341 397	Jacket top panel assembly - WHITE Stove Enamel	1	129118215
38	341 398	Jacket upper front panel assembly (LESS Controls) - WHITE Stove Enamel, with plastic sliding fascia cover	1	129078216
39	341 371	Plastic sliding fascia cover	1	129018140
40	341 399	Jacket lower front panel assembly - WHITE Stove Enamel - complete with Instruction Plate	1	129078218





**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.

STELRAD GROUP Limited

Sales and Marketing
P.O. Box 103, National Avenue
Kingston upon Hull.
North Humberside, HU5 4JN

Telephone: 0482 492251 Telex: 527032

Head and Registered Office:
Newtown Road, Henley-on-Thames, Oxfordshire RG9 1HL
Registration No. London 322137

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