IDEAL ELAN RS. 30,40,55,60&75 Wall Mounted Balanced Flue Gas Boilers Installation & Servicing

CAUTION:			G.C. No.'s
To avoid the possibility of injury during the installation,	ideal ELAN	RS.30	41 407 96
servicing or cleaning of this appliance, care should be taken	Ideal ELAN	RS.40	41 407 95
when handling the edges of sheet steel components.	Ideal ELAN	RS.55	41 407 93
NOTE: The appliances are for use with NATURAL GAS	Ideal ELAN	RS.60	41 407 97
ONLY.	Ideal ELAN	RS.75	41 407 98

NOTE TO INSTALLER:

LEAVE THESE INSTRUCTIONS ADJACENT TO THE GAS METER

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Gas Safety					•.	•		,			~
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Table 1 - GENERAL DATA

Boiler Size		RS.30	RS.40	RS.55	RS,60	RS.75		
Main Burner					pe 'R'			
Gas Control			½in, BSP HONEYWELL V,4700E 1007 240V					
Burner Injector		Size 800	Size 1400	BRAY Cat. 1 Size 150	0 Size 1800	Bray Cat.10 Size 2200		
Pilot Injector		4	HONEYW	ELL 45003 - 0,38/0,36A				
Gas Supply Connection	in. BSP	4		Rc½ 				
Flow Connection	· · · · ·	4 22mm	Copper	4	- 28mm Copper			
Return Connection								
MAXIMUM Static Water Head	m ft	4		— 30.5 —				
MINIMUM Static Water Head	m ft	4		<u> </u>				
Electric Supply		4	22	0/240 volt, 50	0 Hz			
External Fuse Rating		4		— 3 amp —				
Water Content	litre gal	-	0	1,2 0,27	1.	5		
Dry Weight	kg b	4 − − 18.	6 	20,6 45,3	4 26. 4 59.			
MAXIMUM Installation Weight	kg lb	← 13.		15,3 33,7	1	1 ———		

Table 2 - PERFORMANCE DATA

Boiler Size			RS.30	RS.40	RS.55	RS.60	RS.75
Boiler Input	MINIMUM	kW	7.4	11.1	14.6	20.2	22.3
		Btu/h	25 200	37 700	50 000	68 800	76 000
V	MAXIMUM	kW	11.0	14.6	20.1	22.0	27.5
		Btu/h	37 500	50 000	68 700	75 000	93 800
Boiler Output	MINIMUM	kW	5.9	8.8	11.7	16.1	17.6
to Water		Btu/h	20 000	30 000	40 000	55 000	60 000
	MAXIMUM	kW	8.8	11.7	16,1	17.6	22,0
		Btu/h	30 000	40 000	55 000	60 000	75 000
Burner	MINIMUM	mbar (gauge)	6.3	5.2	7,7	10.2	9,1
Setting Pressure		in.w.g.	2,5	2.1	3.1	4.1	3.7
(Hot)	MAXIMUM	mbar (gauge)	12.8	8.3	14.2	12.0	13.8
	·	in.w.g.	5.1	3,3	5.7	4.8	5.5

Notes: 1. To obtain ges consumption:
(a) in I/s – divide heat input (kW) by C.V. of the gas (MU/m3).

To 43 h with the near induct (Shuth the country) in the country of the country. 2. Heat inputs are pre-set to the highest nominal rating.

INTRODUCTION

The IDEAL ELAN RS.30, RS.40, RS.55, RS.60 and RS.75 are wall mounted lightweight, natural draught, balanced flued gas boilers. The series is range rated and covers outputs of 5.9kW (20 000 Btu/h) to 22.0kW 75 000 Btu/h).

The boiler casing is of white enamelled mild steel, with a removable smoked brown fascia.

The controls pod, also of white enamelled mild steel, has fixed sides and a removable bottom panel.

A smoked brown plastic access door hinges downwards to reveal the boiler thermostat controls and gas valve, also the programmer if fitted.

When the door is closed, the controls can be seen through an observation window.

A programmer kit is available as an optional extra and separate fitting instructions are included with the kit. The boilers are suitable for connection to fully pumped, open vented or sealed water systems,

Adequate arrangements for completely draining the system by provision of drain cocks, MUST be provided.

IMPORTANT:

This appliance range is approved by the British Gas Corporation 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.G.C. approval and the normal appliance warranty and could also infringe the Gas Safety Regulations.

Gas Safety Regulations, 1972:

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 the law is complied with.

The installation of the boiler MUST also be in accordance with I.E.E. Wiring Regulations, the Local Building Regulations, the by-laws of the Local Water Undertaking, and any relevant requirements of the Local Authority. Detailed recommendations are contained in the following British Standard Codes of Practice.

CP. 331:3 Low pressure installation pipes.

BS. 5376:2 Boilers of rated input not exceeding 60kW.

BS. 5449:1 Forced circulation hot water systems, (Smallbore 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 60kW).

BS. 5440:2 Air supply (for gas appliances of rated input not exceeding 60kW).

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

LOCATION OF BOILER

The boiler MUST be installed on an external wall. The wall MUST be flat and vertical, and capable of adequately supporting the weight of the boiler and any ancillary additionant.

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IMPORTANT NOTICE

If the appliance is to be fitted in a timber framed building it should be fitted in accordance with the British Gas publication 'Guide for Gas Installations in Timber Framed Housing', reference DM2. If in doubt advice must be sought from the Local Gas Region of British Gas.

The boiler may be installed in any room or internal space, although particular attention is drawn to the requirements of the I.E.E. Wiring 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 or internal space containing a bath or shower.

Where installation 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 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. 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 and for air circulation around the boiler.
- 2. This position MUST also permit the provision of a satisfactory balanced flue termination.

GAS SUPPLY

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

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

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

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

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

It would be wrong to assume that the gas supply pipe size provided will be suitable for all installations.

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

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

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

FLUING

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

The following notes are intended for general guidance:

- 1. The boiler MUST be installed so that the terminal is exposed to the external air.
- It is important that the position of the terminal allows the free passage of air across it at art of thes.
- The intransic exceptable roan risk from the reservice of the following of the end of the property of the open party.

TERMINAL POSITION	Minimum Spacing Natural Draught
Directly below an openable window, air vent or any other ventilation opening.	300mm (12in)
Below guttering, eaves, drain-pipes or soil pipes	300mm (12in)
3. Below balconies	600mm (24in)
Above adjacent ground or balcony level.	300mm (12in)
5. From vertical drain pipes or soil pipes.	75mm (3in)
6. From internal or external corners	600mm (24in)
7. From a surface facing the terminal	600mm (24in)
8. From a terminal facing the terminal	600mm (24in)

4. Where the lowest part of the terminal is fitted less than 2m (6.6ft) above a balcony, above ground, or above a flat roof to which people have access, the terminal MUST be protected by a guard of durable 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 (5/8ln) 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.

- 5. Where the terminal is fitted within 850mm (34in) of a plastic or painted gutter, or 450mm (18in) of painted eaves, an aluminium shield of at least 750mm (30in) long should be fitted to the underside of the gutter or painted surface.
- The air inlet/products outlet duct and the terminal of the boiler MUST be NOT closer than 60mm (2in) to combustible material.

Detailed recommendations on protection of combustible material are given in BS,5440:1:1978, sub-clause 20:1.

IMPORTANT:

It is absolutely ESSENTIAL to ensure, in practice, that 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.

If this eventuality should occur, the appliance MUST be turned OFF immediately and the Local Gas Region called in to investigate.

BOILER TERMINAL

The terminal box of the balanced flue can be adapted to accommodate various wall thicknesses — refer 'Packaging'.

AIR SUPPLY

1. . 2.

Detailed recommendations for air supply are given in BS, 5440:2. The following notes are intended for general guidanca:

 It is NGT necessary to have a purpose provided air vent in the room of internal space in which the boilers. 2. 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.

The air vents must either communicate with a room/internal space, 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.

RS,30

Position of air ven	t	Air from room /internal space	Air direct from outside
HIGH	cm ²	100	.50
LEVEL	in ²	16	8
LOW	cm2	100	50
LEVEL	in ²	16	8

RS.40

Position of air vent		Air from room /internal space	Air direct from outside
HIGH	cm ²	130	65
 LEVEL	in2	20	10
LOW	cm ²	130	65
 LEVEL	in ²	20	10

RS.55

Position of air vent		Air from room /internal space	Air direct from outside
HIGH	cm ²	180	90
LEVEL	in2	28	14
LOW	cm ²	180	90
LEVEL	in2	. 28	14

RS.60

Position of air ven	t	Air from room /internal space	Air direct from outside
HIGH	cm ²	198	99
LEVEL	in ²	30	15
LOW	cm ²	198	99
LEVEL	in ²	30	15

RS.75

Position of air vent		Air from room /internal space	Air direct from outside
HIGH	cm2	246	123
LEVEL	in ²	37	18,5
LOW	cm ²	246	123
LEVEL	in2	37	18.5

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WATER CIRCULATION SYSTEM

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

The appliance is suitable for connection to fully pumped open vented or sealed water central heating systems or central heating combined with indirect domestic hot water systems.

The central heating system should be in accordance with the relevant recommendations given in BS. 5376:2 and, in addition, for Smallbore and Microbore systems — BS.5449:1. The domestic hot water system, if applicable, should be in accordance with the relevant recommendations of BS.5546. Copper tubing, to BS.2871.1, is recommended for water carrying pipework.

The hot water storage cylinder MUST be of the indirect type and should be, preferably, manufactured of copper. Single-feed indirect cylinders are not recommended, and MUST NOT be used on sealed systems.

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 underfloor spaces.

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, 1/2 in. nominal size and be in accordance with BS.2879.

The hydraulic resistances of the boilers, at MAXIMUM OUTPUT, with an 11°C (20°F) temperature differential, are shown in Table 3.

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4		•				

WATER	WATER FLOW RATE & PRESSURE LOSS							
Boiler S	ize	RS 30	RS 40	RS 55	RS 60	RS 75		
Boiler Oùtput	kW Btu/h	8.8 30 000	11.7 40 000	16.1 55 000	17.7 60 000	22.0 75 000		
Water Flow Rate	I/min gal/h	11.4 150	15.2 200	20.9 275	22.8 300	28.5 375		
Pressure Loss	mbar in.w.g	27 11	45 18	87 35	52 21	80 32		

ELECTRICAL SUPPLY

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

The boiler is supplied for 220/240 volt, 50 Hz, A.C., Single Phase.

Fuse rating is 3 amp.

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 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, except that, for bathroom installations, the point of connection to the mains MUST be situated outside the bathroom.

INSTALLATION

ALLOW ADEQUATE SPACE IN FRONT OF THE BOILER FOR SERVICING PURPOSES.

PACKAGING

The boiler is supplied fully assembled and despatched in one carton - 'A' - together with one of three cartons - 'B', 'B.1' and 'C'.

Carton 'A' contains the boiler body assembly, wall mounting screws and plugs, the wall mounting plate, the wall fixing template and the Users Instructions.

Keep the carton the right way up, in accordance with the markings on the outside.

Cartons 'B', 'B.1' and 'C' contain the terminal outlet appropriate to the wall thickness — refer Table 4.

Table 4

Wall Thickness		Cartons Supplied
114 191	mm	
4½ - 7½	in	A + C
229 — 305	mm	
9 - 12	in	A+B
318 - 394	mm	****
12½ 15½	in .	A + B.1

It is MOST IMPORTANT that this appliance be installed in a VERTICAL POSITION, with the flue/air duct passing through the wall in a HORIZONTAL PLANE.

A minor deviation from the horizontal is acceptable, provided that this results in a downward slope of the flue/ air duct away from the boiler.

Two jacking screws, located at the bottom rear of the air duct, are provided to facilitate boiler alignment.

The boiler is to be hung on an external wall, and the space in which it is fitted MUST have the following minimum dimensions: Refer Fig. 4.

Boiler Size		Width	Depth	Height
RS. 30, 40 & 55	mm	390	300	750 30
	1[1]	10	12	30
RS.60 & 75	mm	475	300	750
	in	19	12	30

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

At the top of the boiler

50mm (2in)

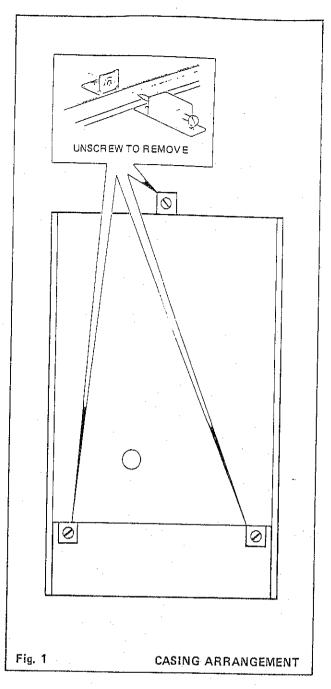
At each side of the boiler

5mm (¼in)

Underneath the boiler

100mm (4in)

In addition, a minimum clearance of 300mm (12in) MUST be available at the front of the boiler to anable the appliance to be serviced.



- 1. Undo the two screws securing the controls pod bottom panel.
- 2. Flex the controls access door to disengage the hinge pins from the side panels, and remove the door.
- 3. Slide out the controls pod bottom panel.
- 4. Undo the nut securing the control box to the bottom of the boiler casing,
- 5. Lift the back of the control box slightly and swing the box downwards pivoting from the back.
- Release the two captive screws, at the bottom, and the single captive screw at the top of the casing and lift the casing off the boiler — refer Fig. 1.
 - The casing should be safely placed aside to avoid possible damage.
- 7. Remove the wall mounting plate and the hardware pack from the packaging at the top end of the boiler.

PREPARING THE WALL - Rafar Fig. 2

- 1. Tape the template to the wall in the selected position.
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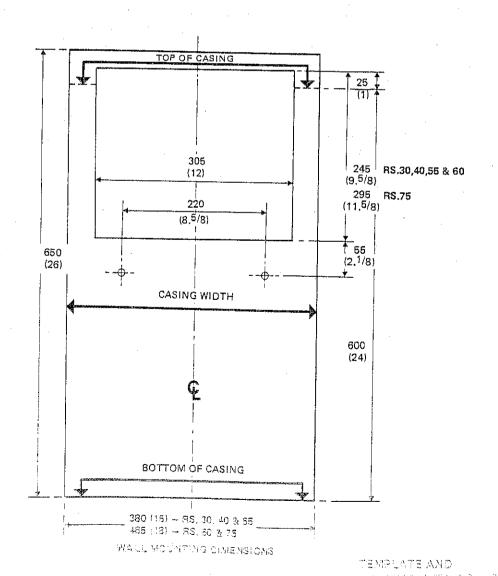
- 3. Drill the two holes with an 8mm (5/16in) masonry drill and insert the two plastic plugs provided.
- 4. Cut the appropriate hole in the wall for insertion of the terminal assembly.

The terminal box must NOT come into contact with combustible material, such as that used in non-standard

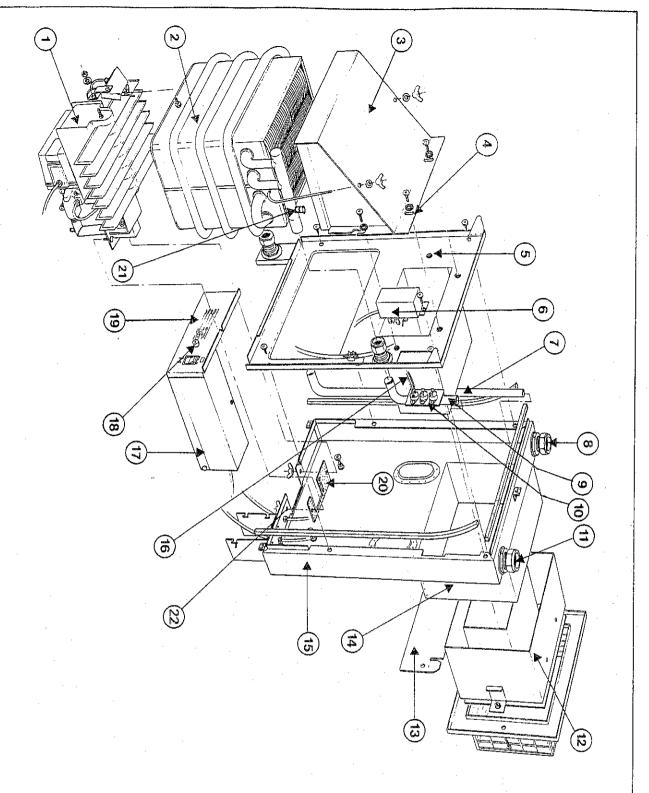
- construction of timber framework and plasterboard etc.
- 5. Secure the mounting plate to the wall with the two No. 10 x 2in, screws provided,

All dimensions in mm (in)

N.B. Imperial dimensions approximate



WALL MOUNTING PLATE



LEGEND:

- 1. Burner/Controls Assembly
- 2. Heat Exchanger
- Collector Hood 3. (includes I tem 4)
- 4. Collector Hood Gasket
- 5. Air Duct Interpanel
- 6. Thermostat Cover
- Return Pipe

- Return Connection
- 9. Flow Pipe
- 10. Thermostats
- Flow Connection 11.
- 12.
- Terminal Grille Assembly
- Wall Mounting Plate 13.
- 14. Air Duct

- 15. Air Box
- Flue Duct 16.
- 17. Control Box
- 18. Piezo Igniter
- Programmer 19.
- **Burner Mounting** Gasket
- Automatic Air Vent 21.
- 22. Earth Point

All dimensions in mm (in) 30/40 55 60/75 N.B. Imperial dimensions approximate 380 380 465 DIM (15)(18) (15)8 234 310 394 DIM (151/2) (9%)(12%)8 300 (12) TOP CLEARANCE 50 (2) RETURN FLOW ഭവവ (24)164 (6%) GAS INLET ½in.BSP воттом (1.5/8) CLEARANCE 100 (4)Note: If installed in a compartment FRONT CLEARANCE the door must be of sufficient 300 size to permit withdrawal of the boiler and any associated (12)SIDE SIDE equipment. 5 CLEARANCE S CLEARANCE (1/4)SIDE VIEW FRONT VIEW (1/4) Fig. 4 DIMENSIONS

FITTING TO THE WALL - Refer Fig. 2

- 1. Remove the union compression nuts and olives from the flow and return connections.
- 2. If side access is limited, i.e. less than 25mm, fit stub connections to the flow and return tappings.
- 3. Lift the boiler into position, entering the projecting flue duct into the opening cut in the wall, and engaging the backplate on to the wall mounting plate lugs.
- 4. Using the jacking screws, located at the bottom rear of the air duct, adjust as necessary until the flue duct is horizontal.
 - Check alignment with a spirit level.
- 5. Make good the brickwork around the wall opening.

WATER CONNECTION - Refer Fig. 5

The two water connection can now be made to the TOP of the boiler.

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

Ensure all valves are open.

With the pump fitted fill and vent the system. Check for water soundness.

Notes:

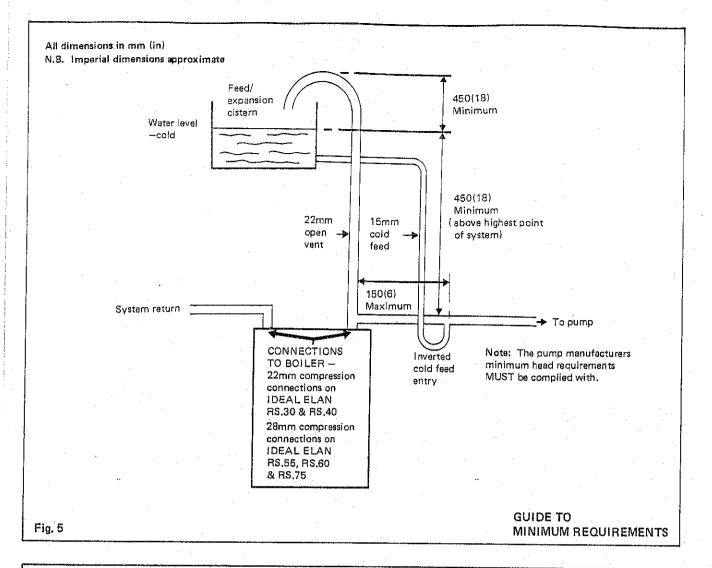
(a) The boiler flow header is fitted with an automatic air vent. This must be OPEN at all times, Screw the vent adjuster OLOCKWISE Lattilitesistance is fert, and than ANT -OUCCKAISE for one had turn. If the boller is connected to a sealed water system, this vent MUST be replaced with a manual vent, an automatic vent of the non-hygroscopic type, or a 1/8in. B.S.P. taper plug.

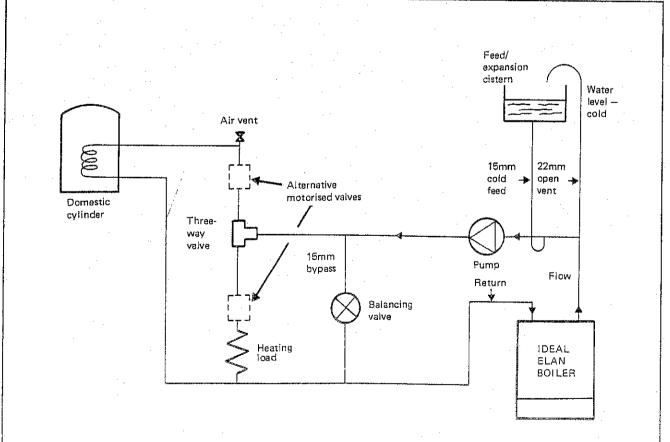
(b) This appliance is NOT suitable for use with a direct hot water cylinder.

GUIDE TO SYSTEM REQUIREMENTS - Figs. 5 & 6

Note: For sealed systems refer to Supplementary Instructions for Sealed Water Systems.

- The pump MUST be fitted on the flow side of the boiler. A suitable pump is a domestic circulator capable of providing an 11°C (20°F) temperature differential (e.g. Grundfos UPS 15/50 or equivalent).
- The vertical distance between the highest point of the system and the feed/expansion cistern water level MUST not be less than 450mm (18in).
- 3. There should be a minimum height of 450mm (18in) of open vent above the cistern water level. If this is not possible it is recommended that a surge arrestor be fitted in the expansion pipe above the water level. Refer to supplementary Low Head Installation Instructions.
- 4. The vertical distance between the pump and feed/ expansion distern MUST comply with the pump Manufacturers minimum requirements to evolutionalist out these conditions not approximations and expension and the pump.





- 5. The system should be vented directly off the boiler FLOW pipe, as close to the boiler as possible. The cold feed entry should be inverted — refer Fig. 5 — and MUST be positioned between the pumpe and the vent, and not more than 150mm (6in) away from the vent connection.
- When the boiler output exceeds 14.4kW (49 000 Btu/h)
 28mm (1in) pipes should be used to and from the boiler.
- 7. The flow through the boiler MUST NOT fall below the values shown in Table 3. A bypass MUST be fitted consisting of 15mm (½in) pipe, positioned as far from the boiler as possible, and incorporating a balancing valve which CANNOT be adjusted by the householder.

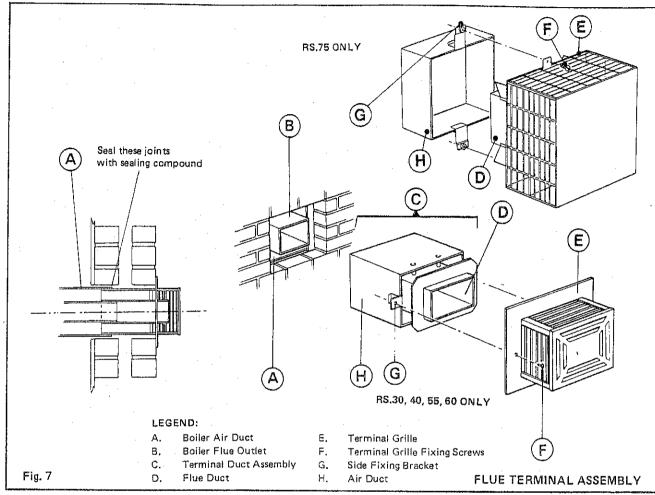
8. BY-PASS ADJUSTMENT

With the boiler firing, and with ALL circuits OPEN and the bypass CLOSED, adjust the pump to give the required minimum flow through the boiler.

Then with the DHW circuit only OPEN, if there is insufficient flow through the boiler, OPEN the bypass to whatever extent is necessary,

Note: If thermostatic radiator valves are fitted, the bypass MUST be OPEN.

If in doubt contact Stelrad Group Ltd.



FITTING THE FLUE DUCT ASSEMBLY and TERMINAL GRILLE — Fig. 7

Separate the terminal grille (E) from the terminal duct assembly (C) - RS.30, 40, 55, 60 or the air duct (H) - RS.75, by removing the two screws (F).

Apply a 25mm (1in) wide coating of the sealing compound, packed with the terminal grille, to the ends of the air inlet/flue outlet ducts as follows:

to the INNER surface of the boiler air duct (A), to the OUTER surface of the terminal air duct (H), to the OUTER surface of the boiler flue duct (B), to the INNER surface of the terminal flue duct (D).

From OUTSIDE the building, pass the duct assembly (C) through the opening and slide it into the boiler outlet, ensuring the flue duct (D) slides OVER the boiler flue outlet and the air duct (H) slides INTO the boiler air duct (A).

When correctly entered, push the terminal duct assembly (C) fully in, until the side fixing brackets (G) contact the evall face.

Make good between well and buot, OUTSIDE the building. When this out up to the tree the building and the second of the second of

GAS CONNECTIONS

A MINIMUM gas pressure of 20 mbar (8in.w.g) MUST be available at the boiler inlet.

The gas service cock is on the left hand side of the control valve, below the boiler, and connection to the gas supply MUST be from BELOW and from the REAR of the boiler.

Note: Ensure that the gas supply pipe does not foul the boiler casing when fitted.

ELECTRICAL CONNECTIONS

WARNING: The appliance MUST be efficiently earthed.

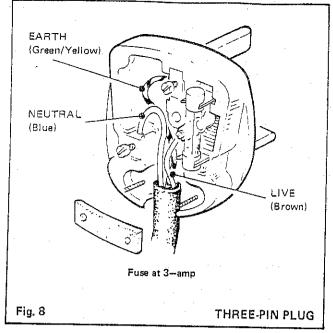
A mains supply of 220/240 volt, 50 Hz, A.C., Single Phase, is required.

ALL external controls and external wiring MUST be suitable for mains voltage.

Wiring should be in three-core, PVC insulated cable, NOT LESS than 24/0,2mm

Wiring external to the boiler MUST be in accordance with the 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 and, should such a prug be used for connection to the mains, it MIUST be of 3—pin type. Whed as another or Fig. 1 three or 3amourant tomorroup of the control of t



INTERNAL WIRING

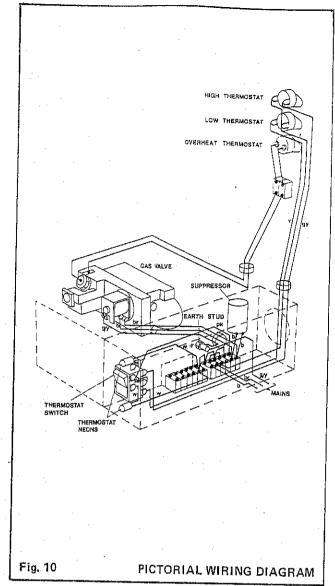
The internal wiring of the control box is shown in Figs. 9 and 10.

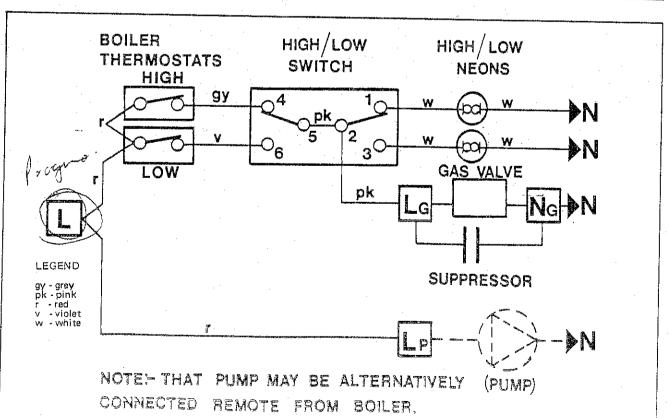
A wiring diagram is also included on the lighting instruction plate on the bottom of the controls pod.

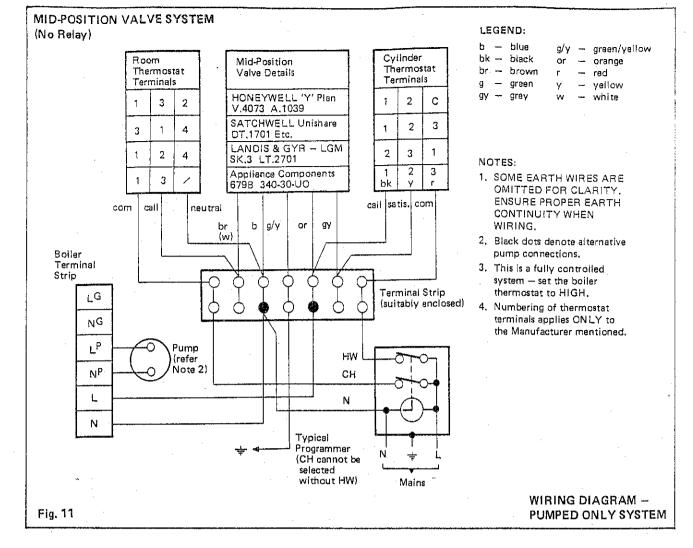
- 1. Undo the securing screw on top of the box and remove the cover.

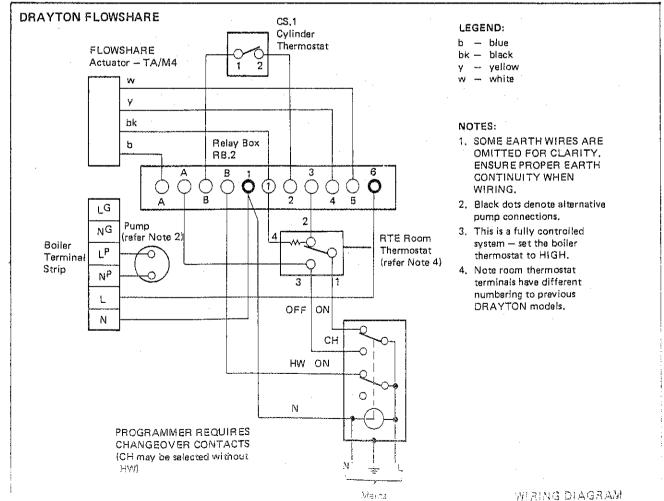
Note: The mains lead connection must be made such that the current carrying conductors become taut before the earthing conductor if the lead slips out of the cord anchorage.

- 3. Wire the pump into the terminals marked PUMP.
- 4. Refit the control box cover.



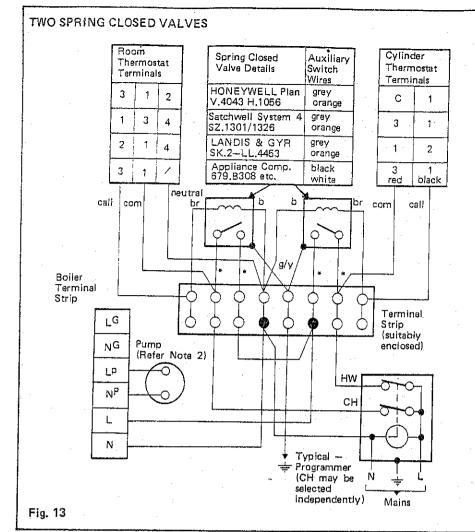






PLINED ONLY SYSTEM

#14, C2



LEGEND:

b -- blue

br - brown

g - green

g/y- green/yellow

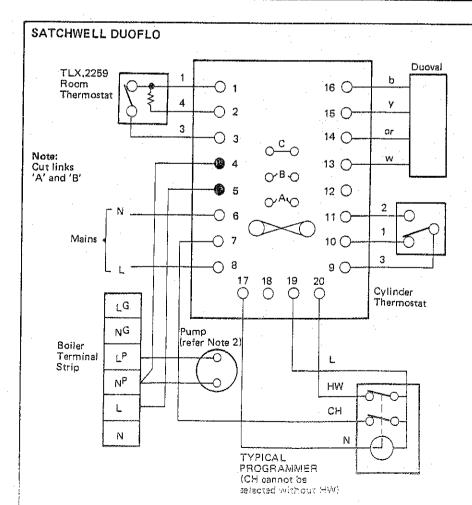
r – red

y - yellow

NOTES:

- SOME EARTH WIRES ARE OMITTED FOR CLARITY. ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
- 2. Black dots denote alternative pump connections.
- This is a fully controlled system — set the boiler thermostat to HIGH.
- Numbering of thermostat terminals applies ONLY to the Manufacturer mentioned,

WIRING DIAGRAM -PUMPED ONLY SYSTEM



LEGEND:

b - blue

or -- orange

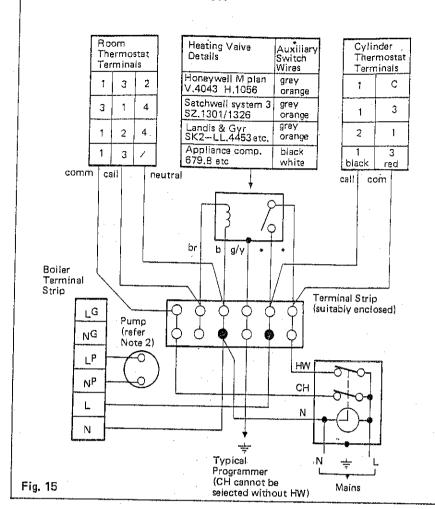
w - white

y - yellow

NOTES:

- 1. SOME EARTH WIRES ARE OMITTED FOR CLARITY. ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
- Black dots denote alternative pump connections.
- This is a fully controlled system — set the boiler thermostat to HIGH.
- Numbering of thermostat terminals applies ONLY to the Manufacturer mentioned.

ONE VALVE IN HEATING CIRCUIT



LEGEND:

b - blue

bk - black

br - brown

r - red

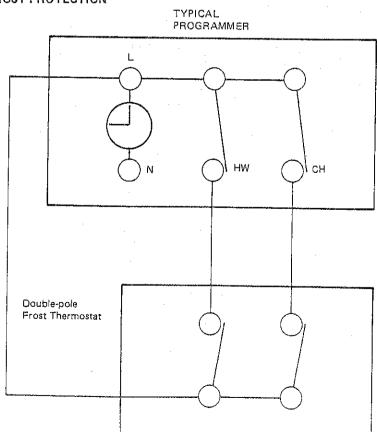
g/y - green/yellow

NOTES:

- SOME EARTH WIRES ARE OMITTED FOR CLARITY. ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
- 2. Black dots denote alternative pump connections.
- Numbering of thermostat terminals applies ONLY to the manufacturer mentioned.

WIRING DIAGRAM -PUMPED ONLY SYSTEM

FROST PROTECTION



NOTES:

- The frost thermostat should be wired to the programmer as shown, without disturbing the appliance internal wiring,
- The frost thermostat should be sited in a cool place in the house, but where it can sense heat from the system.
- 3. The Occupier should be advised that, during frosty weather, the system should be turned OFF at the programmer slide switches ONLY all other controls should be left in the normal running position.

WIRING DIAGRAM -Double-Pole Prost The modited -Africa to Programmor

EXTERNAL CONTROLS

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

The wiring diagrams illustrated in Figs. 11–15 cover the systems most likely to be used with this appliance.

For wiring external controls to the IDEAL ELAN boiler, reference should be made to the system wiring diagram supplied by the relevant Manufacturer, in conjunction with the wiring diagrams shown in Figs. 9 and 10.

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

- 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-ridden refer Fig. 16.
- 3. If a proprietary system is used, follow the instructions supplied by the Manufacturers.
- 4. SYSTEM DESIGNS, FEATURING CONTROLS OR WIRING ARRANGEMENTS WHICH ALLOW THE BOILER TO FIRE WHEN THERE IS NO PUMPED CIRCULATION TAKING PLACE **MUST NOT** BE FITTED.

Notes: (a) If there are no external controls, the circulating pump MUST also be wired into the control box — refer Fig. 9.

(b) When the OPTIONAL programmer kit is fitted, the incoming mains lead MUST be wired into the boiler control box terminals marked L^T, N & 中 refer Figs 2—6, contained in the Programmer Kit Installation Instructions.

FITTING THE CASING

WARNING: The boiler MUST NOT be operated with casing removed.

Note: Before fitting the casing remove the protective polythene bag from the plastic fascia, and refit the fascia if required.

1. Lift the boiler casing up to the boiler assembly and secure with the three fixing screws.

The casing MUST seat correctly and compress the sealing strip to make an airtight joint.

- 2. Swing the control box into its working position and secure it to the bottom of the boiler casing.
- 3. Slide the controls pod bottom panel into position.
- 4. Re-locate the controls access door.
- 5. Replace the bottom panel securing screws.

COMMISSIONING AND TESTING Electrical Installation:

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

ALWAYS carry out the preliminary electrical system checks as detailed on pages 6–9 of the Instructions for the British Gas Multimeter.

Check that the earth connection on the bottom panel is properly made. THIS CONNECTION IS IMPORTANT AND MUST NEVER BE OMITTED.

Gas Installation:

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

Purging air from the gas installation may be excedited by the removal of the controls god door and bottom panel. Toosening the union on the gas service book and purging until lass is smalled.

inger ingeneration of the state of the state

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 all valves are open.

With the pump fitted, the system should be filled and airlocks cleared.

Check for water soundness,

INITIAL LIGHTING INSTRUCTIONS — Refer Fig. 17

1. Remove the controls pad access door and bottom panel.

Note: The gas service cock MUST have been OFF for at least three minutes before initiating the lighting sequence.

- 2. Check that all drain cocks are CLOSED, and stop valves in the flow and return lines are OPEN.
- Check that the gas service cock (K) is ON and the boiler thermostat selector switch (D) is OFF.
- Remove the screw in the burner pressure test nipple
 (G) and connect a gas pressure gauge via a flexible tube.
- 5. Slide the gas control button (A) to the RIGHT until resistance is felt and then release it.
- 6. Push in and retain fully depressed the gas control button (A), press and release the piezo unit button (F) repeatedly until the pilot is seen to light through the sight glass (B).
- 7. Hold the gas control button depressed for 15 seconds after the pilot burner has ignited.
- 8. 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 (A).
- Check that the electricity supply and all external cont controls are ON.
- Set the boiler thermostat selector switch to HIGH and check that the burner cross lights smoothly from the pilot flame. The HIGH indicator neon will glow when the boiler is alight.
- 11. Test for gas soundness around the boiler gas components, using leak detection fluid.
- 12. Operate the boiler for ten minutes to stabilise the burner temperature,
- 13. Check the burner setting pressure against the relevant values quoted in Table 2 on Page 2.
- 14. If the burner setting pressure requires adjustment, swing the control box down as previously described, and remove the gas valve cover.

Turn the pressure adjusting screw (H) ANTI-CLOCKWISE to INCREASE the pressure or CLOCKWISE to DECREASE it.

- 15. Replace the valve cover and swing the control box back into its working position.
- 16. Set the boiler thermostat selector switch to OFF.
- 17. Remove the pressure gauge and tube, and replace the sealing screw in the pressure test nippre.
- 12. Set the belief mermoster beleater switch to HIGH
- 19 Chapk for gas soundness should the rest hippie
- Paul sue the control point of the money energy great has

GENERAL CHECKS

Make the following checks for correct operation:

- Turn the boiler thermostat selector switch from OFF to HIGH and from OFF to LOW, and check the main burner and appropriate indicator neon light and extinguish in response.
- 2. Check the appearance of the pilot flame to ensure it envelops 13mm (½in) of the thermocouple tip, refer 'Pilot Burner Setting'.

The pilot flame is factory set and no adjustment should be necessary.

3. 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, slide the gas control button to the RIGHT 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 of approximately 30 seconds before the boiler can be relit.

 The correct operation of the programmer, if fitted, and all other system controls should be proved.
 Operate each control separately and check the main burner and circulating pump respond.

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. Finally, set the controls to the User's requirements.

Thermostat Setting	Flow Ten	nperature I ^o F
HIGH	82	180
LOW	60	140

Note: The HIGH or LOW indicator neons will glow whenever that thermostat is 'Calling for Heat'.

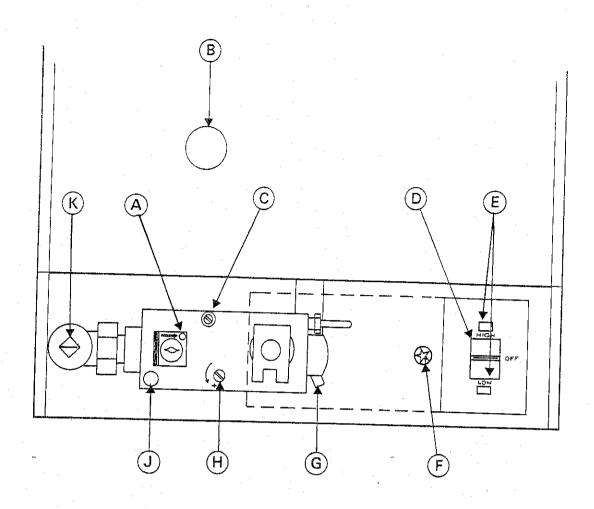
HANDING OVER

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

- Hand the User's Instructions publication to the Householder and explain his/her responsibilities under the Gas. Safety Regulations, 1972.
- Draw attention to the Lighting Instruction plate affixed to the inside of the controls access door.
- 3. Explain and demonstrate the lighting and shutting down procedures.
- 4. The operation of the boiler and the use and adjustment of ALL system controls should be fully explained to the Householder, to ensure the greatest possible fuel economy, consistent with household requirements of both heating and hot water consumption.

Advise the User of the precautions necessary to prevent damage to the system, and to the building, in the event of the system remaining inoperative during frost conditions.

- Explain the function and the use of the boiler thermostat and external controls.
- 6. Explain and demonstrate the function of time and temperature controls, radiator valves, etc., in the economic use of the system.
- 7. Stress the importance of regular servicing by the Local Gas Region, or by a qualified Heating Engineer, and that a comprehensive service should be carried out AT LEAST ONCE A YEAR.



LEGEND:

- A. Gas valve control button
- B. Sight glass
- C. Pilot pressure adjuster
- D. Thermostat selector switch
- E, Thermostat indicator neons
- F. Piezo unit ignition button
- G. Burner pressure test nipple
- H. Main burner pressure adjuster
- J. Inlet pressure test nipple
- K. Gas service cock

Note: CONTROLS ARE SHOWN WITH THE GAS VALVE COVER REMOVED.

Fig. 17

BOILER CONTROLS

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.

IMPORTANT

After parametering and service inglor exchange of gas of carrier of the following services.

TO REMOVE THE BOILER CASING

- 1. Undo the two screws securing the controls pod bottom panel.
- 2. Flex the controls access door to disengage the hinge pins from the side panels, and remove the door.
- 3. Slide out the controls pod bottom panel.
- 4. Undo the nut securing the control box to the bottom of the boiler assing.
- 5. With the cack of the control box slightly and swing are controlled warm warm was a standard programmer and the cack and controlled the cack and controlled the cack and cac

- 6. Disconnect the earth bonding wire from the bottom of the boiler casing.
- 7. Release the three captive screws securing the boiler casing to the backplate and remove the casing.

REMOVE MAIN BURNER & CONTROLS ASSEMBLY Refer Fig. 18

- 1. Undo the screw securing the plastic cover of the gas valve and remove the cover.
- 2. Disconnect the electrical leads from the gas valve solenoid.
- 3. Disconnect the thermocouple and the two interrupter leads from the gas valve.
- 4. Disconnect the ignition lead from the piezo unit body.
- 5. Undo the union nut on the gas service cock.
- 6. Undo the two wing nuts securing the burner and controls assembly to the bottom of the air duct.
- 7. Support the assembly and undo the wing nut securing the burner front support bracket to the heat exchanger skirt.
- 8. Remove the complete assembly by lifting and drawing it forward.
- 9. Remove to a convenient working surface for attention.
- Brush off any deposits that may have fallen on to the burner head, ensuring the flame ports are unobstructed, and remove any debris that may have collected.

Note: Brushes with metallic bristles MUST NOT be used.

- 11. Remove the main burner injector, ensure there is no blockage or damage.
- 12. Replace the injector, using an approved jointing compound.
- 13. Inspect the pilot burner, thermocouple and spark electrode; ensure they are clean and in good condition. In particular, check that:
 - (a) The pilot burner injector is not blocked or damaged.
 - (b) The pilot shield is clean and unobstructed.
 - (c) The spark electrode is clean and undamaged.
 - (d) The ignition lead is in good condition and securely connected.
 - (e) The spark gap is correct Refer Fig. 19.
 - (f) The thermocouple tip is not burned or cracked.
 - (g) The position of the thermocouple relative to the pilot burner and main burner is correct Refer Fig. 19.
 - (h) The thermocouple terminal at the gas valve is clean and tight.

TO CLEAN THE FLUEWAYS

With the main burner and controls assembly removed as previously described.

- Remove the two screws at the top rear of the flue collector hood.
- Loosen the screw at each side of the hood RS.55, 60 & 75 models ONLY.
- 3. Undo the two wing nuts on top of the collector hood and remove the tie-rods NOTING THEIR POSITION and remove the hood.
- Remove all loose deposits from the heat exchanger finned block, brushing from above and below, and from the copper skirt, using a suitable brush available from Local Gas Regions, Ref. No. 4798.E.
- Refit the flue pollector bood in reverse order of removal replacing any damaged or deteriorating searing gashers using a suitable high temperature

- order of removal, ensuring the burner manifold gasket is correctly positioned.
- 7. Reconnect the gas and electrical supplies.
- 8. Ensure the sight glass in the boiler casing is clean and undamaged.
- 9. Swing the control box back to its working position.
- Refit the boiler casing, controls pod bottom panel and access door in reverse order of removal.

Note: DO NOT FORGET TO RECONNECT the earth bonding wire to the earthing stud.

PILOT BURNER SETTING

Light the pilot and check that the pilot flame covers approximately 13mm (½in) of the thermocouple tip.

The pilot adjuster screw is factory set to maximum and no further adjustment should be necessary.

However, if the pilot flame appears small, check the adjustment of the pilot pressure adjuster screw - (C), Fig. 17 - as follows:

- Slide the gas control button, (A), Fig.17, to the RIGHT until resistance is felt and then release it.
- b) Swing the control box down as previously described and remove the gas valve cover.
- (c) Turn the pilot pressure adjuster screw CLOCKWISE until fully CLOSED.
- (d) Turn the pilot pressure adjuster screw ANTI-CLOCKWISE four full turns to give maximum setting.
- (e) Refit the gas valve cover and swing the control box back into its working position.
- (f) Relight the pilot in accordance with the Lighting Instructions.

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 the heat input. Any required adjustments should be made by using the pressure adjustment screw (H), Fig. 17.

REPLACEMENT OF COMPONENTS WARNING:

ALWAYS turn OFF the gas supply at the gas service cock and switch OFF and DISCONNECT the electricity supply BEFORE WORKING ON THE APPLIANCE.

Note: To replace the following components, it will be necessary to remove the boiler casing, as previously described in the Servicing Section of this publication.

Sight Glass

- 1. Remove the plastic fascia panel, if fitted, from the casing by sliding it upwards.
- 2. Unfasten the two nuts holding the sight glass assemby to the casing front panel.
- 3. When fitting the replacement assembly, make certain the parts are in the correct order, i.e. gasket, glass, gasket and frame.

Note: The frame MUST have the return edge at the bottom.

- 4. Retighten the two nuts to ensure an airtight seal. Do NOT overtighten.
- 5. Refit the plastic fascia panel.

Boiler Control Thermostats

 Undo the screw securing the thermostat access pover at the too right hand side of the backs are, and remove the cover.

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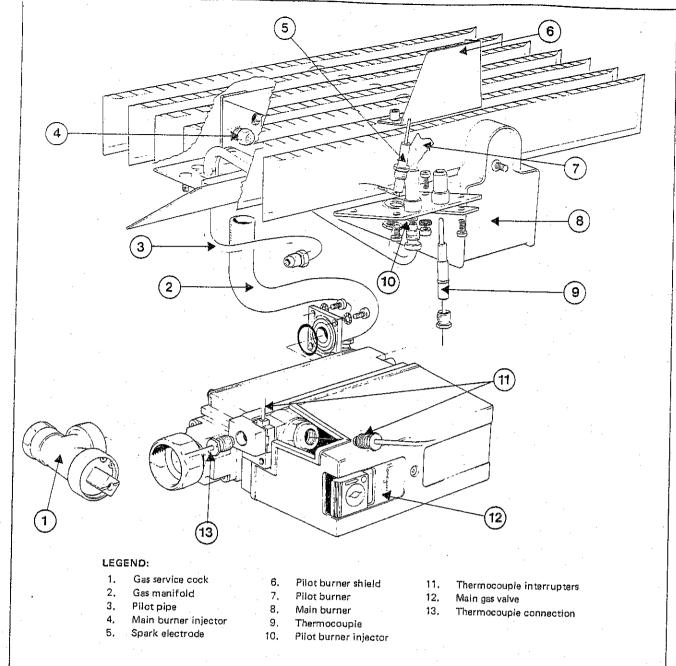
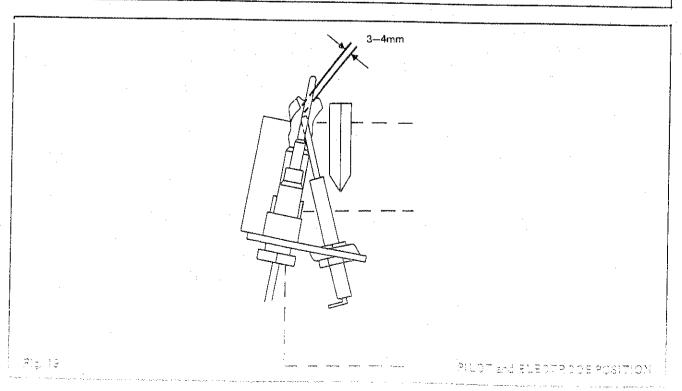


Fig. 18

RS.55 BURNER ILLUSTRATED

BURNER and CONTROL ASSEMBLY



- 2. Loosen the two screws securing the thermostat to the mounting plate and disengage the thermostat.
- 3. Disconnect the two electrical connections from the thermostat.
- 4. Fit the replacement thermostat and re-assemble in reverse order.

Boiler Overheat Thermostat

- Undo the screw securing the thermostat access cover at the top right hand side of the backplate and remove the cover.
- The OVERHEAT thermostat is positioned lowest on the pipe and has soldered on connections.
- 2. Unclip the leads from the backplate and disconnect from the terminal block.
- Loosen the two screws securing the thermostat to the mounting plate and disengage the thermostat complete with leads.
- 4. Fit the replacement thermostat and re-assemble in reverse order.

Thermocouple Interrupter

- 1. Undo the screw securing the plastic cover of the gas valve and remove the cover.
- 2. Disconnect the two leads from the gas valve and from the terminal block.
- 3. Release the strain relief bush from the back panel and withdraw the leads.
- 4. Transfer the fibreglass sheath to the new leads and re-assemble in reverse order.

Piezo Unit

- Remove the programmer if fitted:
 - (a) Undo the securing screw on top of the control box, and remove the cover.
 - (b) Undo the two screws securing the programmer flying-lead connector to the control box and unplug the connector.
 - (c) Undo the two screws securing the programmer to the controls mounting panel and remove the programmer.
- 2. Disconnect the ignition lead from the piezo unit body.
- 3. Remove the two securing screws and shake-proof washers and remove the piezo unit.
- 4. Fit the new unit and re-assemble in reverse order.

Pilot Burner Assembly

- Undo the thermocouple and pilot pipe connections at the pilot burner and pull clear of the burner.
 Do NOT lose the pilot injector, which is a push fit in the pilot pipe connection to the pilot burner.
- 2. Disconnect the ignition lead from the base of the electrode.
- 3. Undo the nut and two screws securing the pilot burner to the main burner and remove, complete with the pilot shield.
- 4. Undo the screw securing the shield to the pilot burner and remove the shield.
- Transfer the electrode and shield to the new pilot burner ensuring that the spark gap is correct — Refer Fig. 19.
- 6. Fit the new pilot burner, ensuring that the pilot injector is in position when refitting the pilot pipe, and re-assemble in reverse order.

Electrode

- Undo the thermocouple and pilot pipe connections at the pilot burner and pull clear of the burner.
 Do NOT lose the pilot injector, which is a push fit in the pilot pipe connection to the pilot burner.
- Disconnect the ignition lead from the electrode.
 - . Nanifekten ing perkinun republik perakabahana kind

4. Fit the new electrode and re-assemble in reverse order,

To replace the following components, it is necessary to remove the burner and controls assembly as previously described.

Ignition Lead

Note:

- 1. Remove the clip securing the ignition lead to the pilot supply pipe.
- 2. Unplug the ignition lead from the base of the electrode.
- Undo the two nuts securing the pilot cipe/thermocoucie sealing plate to the underside of the burner manifold, remove the plate and gasket, and withdraw the lead.
- 4. Fit the new lead and re-assemble in reverse order.
- 5. Reconnect the gas and electrical supplies.

Thermocouple

- 1. Remove the clip securing the thermocouple to the pilot supply pipe.
- 2. Undo the thermocouple connection at the pilot burner.
- Undo the two nuts securing the pilot pipe/thermocouple sealing plate to the underside of the burner manifold, remove the plate and gasket, and withdraw the thermocouple.
- Fit the new thermocouple.
 Avoid sharp bends in the thermocouple lead, ensuring this follows the same route as previously.
- 5. Re-assemble in reverse order, and re-connect the gas and electrical supplies.

Main Burner - refer Fig. 18

- Remove the pilot burner assembly, thermocouple and ignition lead as previously described.
- 2. Undo the pilot pipe connection at the gas valve and remove the pilot supply pipe.
- 3. Unscrew the gas outlet pipe, complete with gas valve, from the burner and remove the burner.
- 4. Unscrew the main burner injector and transfer to the new burner, using an approved jointing compound.
- 5. Remove the burner end bracket and transfer to the new burner.
- 6. Fit the new burner in reverse order, using an approved jointing compound when screwing the gas outlet pipe into the burner.
- 7. Re-assemble in reverse order and reconnect the gas and electrical supplies.

Gas Valve

- 1. Undo the pilot pipe connection at the gas valve.
- 2. Undo the four screws securing the gas service cock union at the left hand side of the gas valve.
- 3. Undo the four screws securing the gas valve outlet pipe. The sealing 'O' rings should be discarded and new ones fitted.
- 4. Re-assemble in reverse order, ensuring:
 - (a) The new gas valve is fitted the right way round; an arrow, engraved on the valve, indicates the direction of flow.
 - (b) The sealing 'O' rings are fitted correctly at the gas valve inlet and outlet flanges.
- 5. Refit the burner and controls assembly in reverse order and re-connect the gas and electrical supplies.

Heat Exchanger

- 1. Drain down the system.
- 2. Remove the boiler tasing as previously described:
- Remove the burner and controls assembly and the flue corlector book as praylous: "pascribed;
- Code into the house in the general subget the subsections.

Note: Protect the gas and electrical controls with a waterproof sheet or similar.

- 5. Disengage the rear edge of the heat exchanger skirt from the back panel and withdraw the heat exchanger.
- 6. Fit the new heat exchanger and re-assemble in reverse

Note: If the boiler is connected to a sealed water system. the automatic air vent supplied with the new heat exchanger MUST be replaced with a manual vent. an automatic vent of the non-hygroscopic type, or a 1/8in B.S.P. taper plug.

Cabinet Seals

- 1. Remove the boiler casing as previously described.
- 2. Remove the old seals from the top and sides of the backplate and from the bottom edge of the boiler casing. Scrape off any traces of old adhesive, etc.

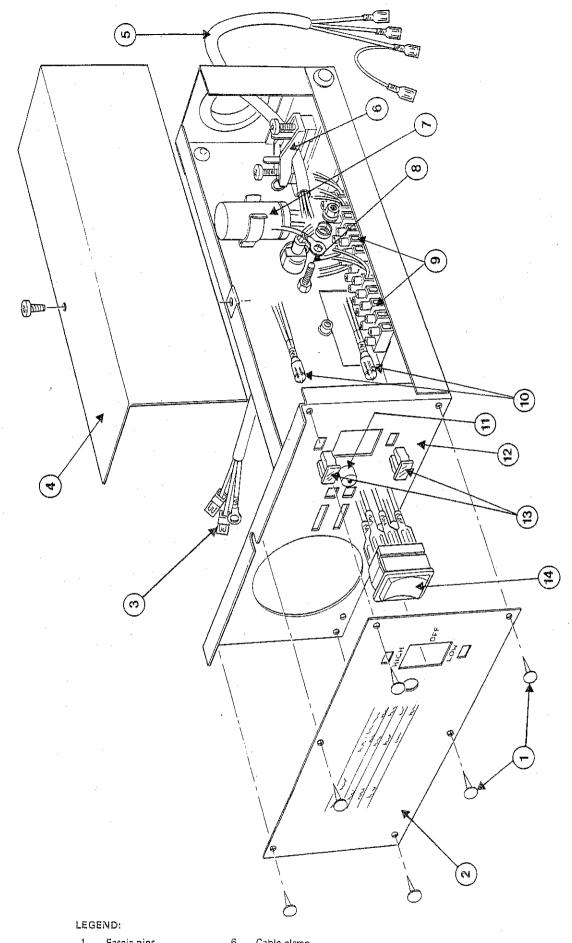
- 3. Peel off the backing from the new sealing strip and adhere to the top and sides of the backplate and the bottom edge of the boiler casing.
 - The top strip should overlap the side strips at the top corners.
 - Avoid stretching the sealing strip and ensure a good bond by pressing down firmly.
- 4. Replace the boiler casing,

IMPORTANT:

After working on the appliance - NEVER FORGET TO REPLACE the earth bonding wire to the earthing stud on the boiler.







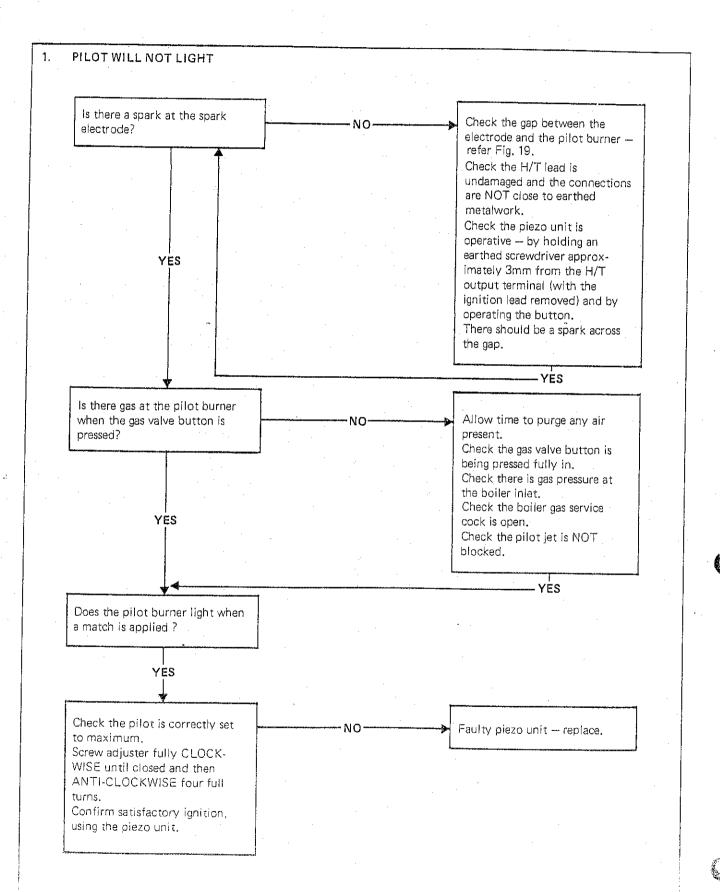
- Fascia pins
- 2. Fascia
- 3, Gas vaive lead
- Control box cover
- Thermostat harness
- Cable clamp
- 7. Suppressor
- Earth stud
- Э. Terminal atrips 10. Mach indicators
- 11. Plezo unit
- 12.
- Control bax 10,
- Neon indicator lenses - 2

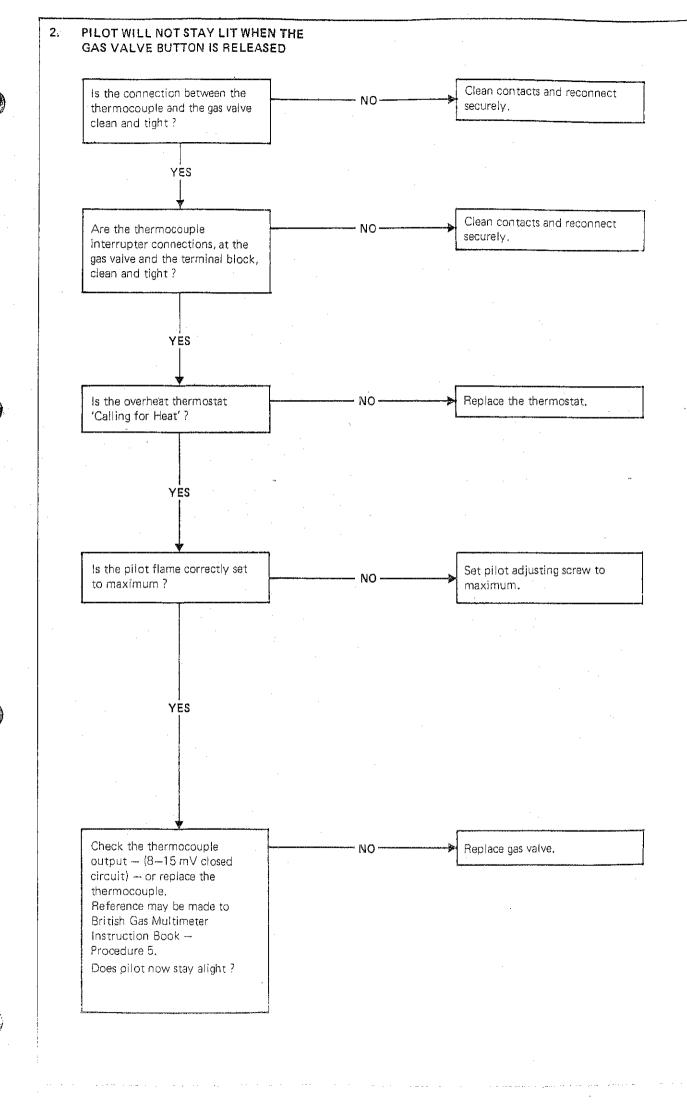
Thermostat switch

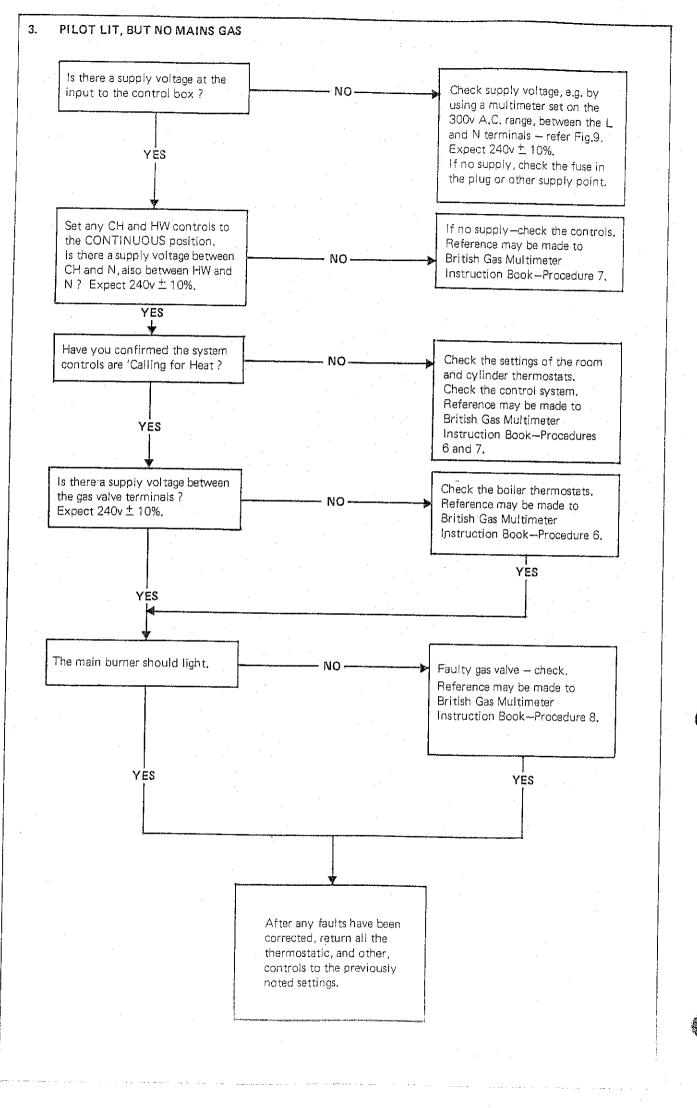
FAULT FINDING

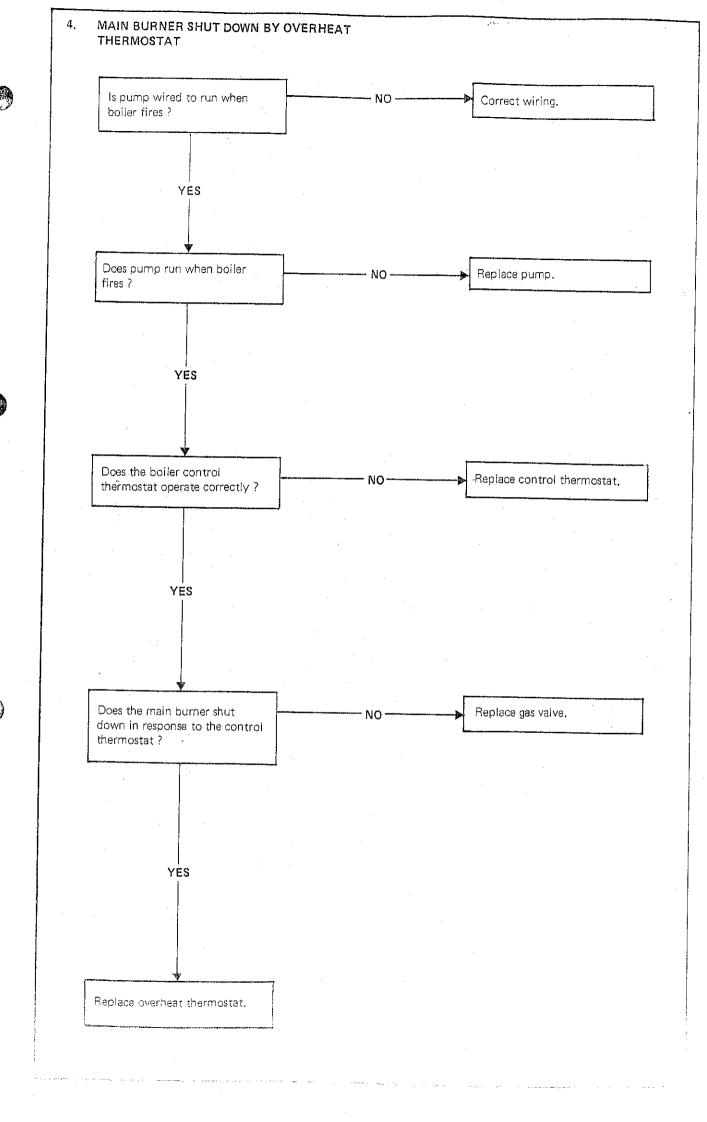
Before attempting any electrical fault finding, ALWAYS carry out the preliminary electrical system checks as detailed on pages 6—9 of the Instructions for the British Gas Multimeter,

Detailed instructions on the replacement of faulty components are contained in the Servicing section of this publication.









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.

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

IDEAL ELAN RS.30, 40, 55, 60 & 75 GAS BOILERS

When ordering spares, please quote:

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

Key No.	G.C. Part No.	Description		No, Off	Maker's Part No.
3	341.446	Sight glass assembly, comprising sight glass and	from	 	
		two sight glass gaskets, two M4 Hex nuts and ty	name,		
		shakeproof washers	VO 1V14		40070004
6	341 449	Main burner —FURIGAS Type 'R' — No.118.	500 001 BS 30 9 BS 40	1	189736045
	341 450	No. 118	500.000 RS.55 ONLY	1	189736064
	341 451	No.110,	500.004-RS.60 & RS.75	1	189756064
8	398 316	Main burner injector — BRAY Cat.16 — Size 8	200.004-113.00 & M3.75	1	189766064
_	398 329	BRAY Cat.16 — Size 14		1	189736060
	398 330	BRAY Cat. 16 — Size 15		1	189746060
	398 333	BRAY Cat. 16 — Size 18		1	129198736
	000 000	BRAY Cat.10 — Size 18 BRAY Cat.10 — Size 22		1	189666067
10	382 536	Pilot human injector HONEYWELL 0.39/02/	200 RS.75 ONLY		
9	391 664	Pilot burner injector — HONEYWELL 0.38/03(Pilot burner HONEYWELL No. 03F	DA NO.45003—508007	1	589040083
9	091004			1 .	589040085
12	395 685	with Double Orifice inje	ector		
14	395 705	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2		1 1	586731900
15	395 700		30	1 .	589730086
10	390 700	Spark electrode and H/T lead assembly — VERN		1	589030088
16	390 039	H/	T lead 600mm lg.		
17	341 455	Thermocouple — HONEYWELL No. Q309A —	2739 – 24in, lg,	1	576890051
. 17	341 455	Thermocouple Interrupter — HONEYWELL —	High temp. ECO leads	i	
7	241 452	730mm lg. Ref: 4	5002837—006	1	576730052
23	341 452 395 686	Burner mounting gasket		1	189736074
24		Thermostat - HIGH setting - ESSEX Type 4	95-107	1	589730051
25	395 687	LOW setting ESSEX Type 4	95–108	. 1	589730052
25	395 688	OVERHEAT — with leads — ESS	EX Type 495, 3127	1	589730053
	341 461	Neon indicator — READILEADS Ltd		2	589730067
20	393 451	Thermostat selector switch ARCOLECTRIC No. C.470		1	589030104
22	384 689	Suppressor - I.T.T. No. TS.121A - 'CAN' Typ	e, with 85mm leads.	1	589040030
26	341 462	Boiler casing assembly — white stove enamel, wi	th		
		removable smoked brown plastic fascia, sight gla	iss assembly,		
		bottom sealing strip, dimple foil insulation, earth	ning paint,		
}	041 400	and three fixing screws with retaining washers		1	189734030
.	341 463		- RS,60 & 75	1	189764030
27	341 464	Plastic fascia.— smoked brown	- RS,30, 40 & 55	1	189730087
	341 465		RS.60 & 75	1	189760087
27A	341 566	Glass fascia — smoked brown	- RS.30, 40 & 55	1	189730088
	341 567	_	- RS.60 & 75	1	189760088
28	341 466	Controls pod door – smoked brown plastic,			
		with name badge and User Instruction Plate	- RS.30, 40 & 55	1	189730089
	341 467		- RS.60 & 75	1	189760089
29	341 468	Sealing Pack — comprising, four sealing strips	- BS.30, 40 % 55	1	189734033
	341 489	•	- 96.80 <u>4.75</u>	1 1	139764033
30		Controls resing be trom baner with	1		-
		. Updaing instruction Place and this firmly screws	목표(3차 4) 항송(5 · · · · · ·	4 .	
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