

### Statesman

45/50, 50/70, 70/90, 90/110,  
System, Flowsure, Flowsure +,  
Utility 50/70, 70/90, 90/110,  
110/130, 130/150

## Users Instructions

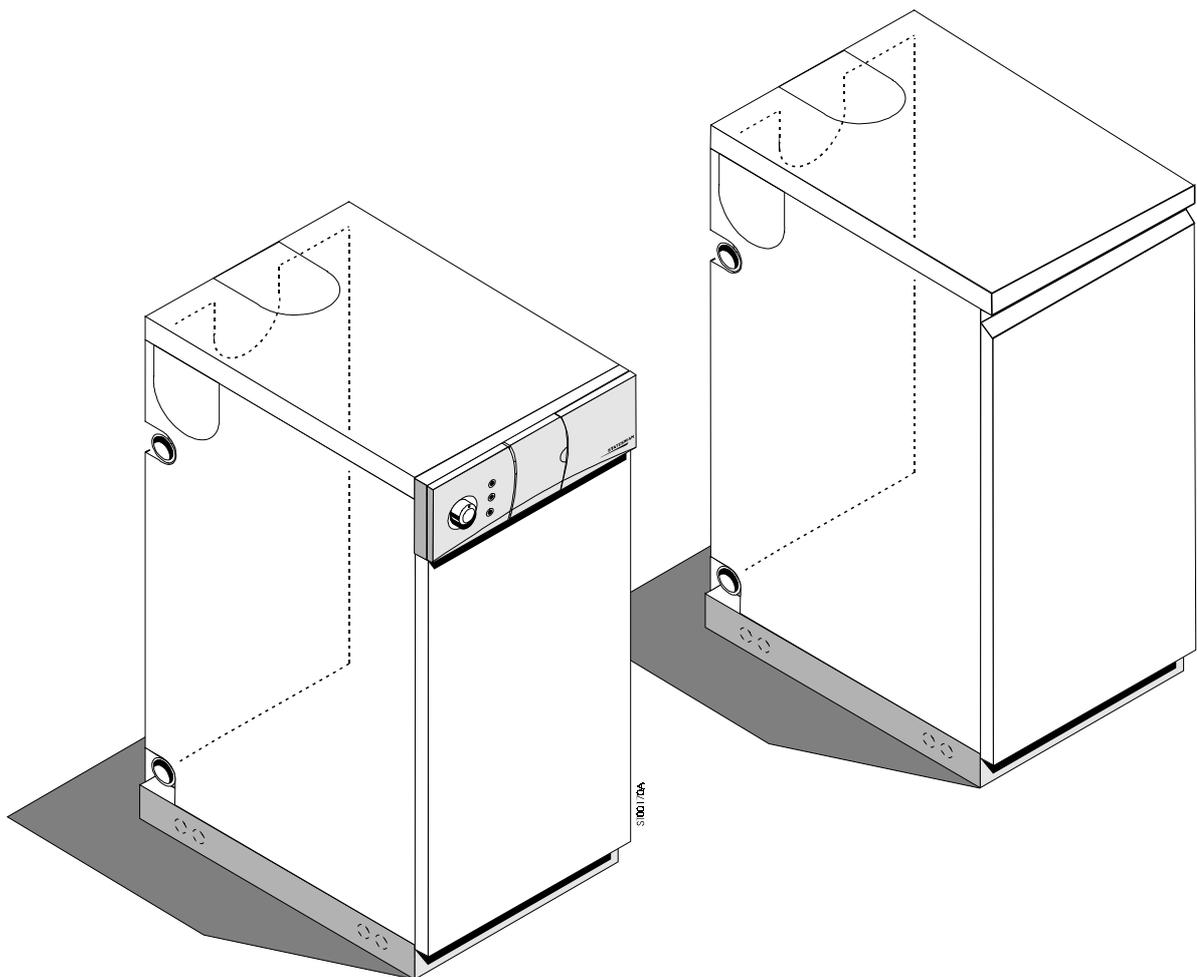
### **About the Boiler**

This is a Floor Standing, Horizontally Fired, Automatic Pressure Jet Oil Boiler.  
The boiler can be flued conventionally or with a kit as a balanced flue.  
This boiler is for use with Kerosine or Gas Oil and for use in GB & IE.

### **About Safety**

Installation must have been in accordance with the Installation & Service Instructions and the rules in force.

Leave these instructions with the user for use on future calls.



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## WARNING ! - this is about YOUR safety

### Safe use of Kerosines and Gas Oils

#### - Hazards

- These fuels give off a flammable vapour when heated even moderately.
- This vapour ignites easily, burns fiercely and can be explosive.
- Vapour can flow along at ground level and collect as an explosive mixture in drains, cellars etc. at considerable distances from open containers or spillages.
- Fuels remove natural oils and fats, and may thus cause cracking and irritation of the skin.
- Gas oil may also cause irreversible damage to your health on prolonged or repeated skin contact.

#### - Precautions

- **ALWAYS HANDLE** fuels in the open air or in a well ventilated place, well away from all sources of ignition such as fires, sparks, hot surfaces and **DO NOT SMOKE**.
- **ALWAYS DRAIN** fuels using a proper fuel retriever, mechanical siphon or funnel.
- **NEVER SUCK** fuels up a tube by mouth. If accidentally swallowed - call a doctor - **DO NOT INDUCE VOMITING**.
- **NEVER APPLY** heat to a fuel tank, pipework or container.
- **AVOID INHALING** fuel vapour; it can make you light-headed and seriously impair your judgement.
- **ALWAYS STORE** fuels in a properly constructed and labelled tank.

#### - If there is a Fuel Spillage

- **IMMEDIATELY STOP/SWITCH OFF** all electrical and other ignition risks
- **REMOVE** all contaminated clothing to safeguard yourself against fire risk and skin damage. Wash the affected skin thoroughly with soap and water and remove the clothing to a safe, well ventilated place and allow to air before washing or dry cleaning.
- **CONTAIN** and smother the spill using sand, soil or other suitable incombustible material.
- **DO NOT ALLOW** spilled fuel to escape into drains or water courses. If fuel does enter a drain, warn the Water Authority and Fire Brigade.
- **CONSULT** your Local Authority about disposal of contaminated soil.
- **FIRST AID** if fuel is accidentally swallowed, **SEEK IMMEDIATE MEDICAL ATTENTION - DO NOT INDUCE VOMITING**.  
If fuel is splashed into eyes, wash out with running water for at least 10 minutes and **SEEK IMMEDIATE MEDICAL ATTENTION**.

**WARNING:**  
**Do not attempt any cleaning or maintenance without first switching OFF the electricity and oil supply**

## Electricity Supply

This boiler must be earthed. Connection should be made to a 230V 50Hz supply. The boiler must be protected by a 5 amp fuse through a double pole isolating switch.

**Warning:** Do not exchange neutral with live, this will cause damage to the burner controls.

## Oil Supply

The boiler will have been adjusted by your installer to burn either:  
 Kerosine  
 (Class C2, 28 second viscosity to BS 2869 Pt 2:1988)  
 or Gas Oil  
 (Class D, 35 second viscosity to BS 2869 Pt 2:1988)

**Balanced flue boilers must be fired on Kerosine**

**Note: If the oil tank is run dry you will be charged if an engineer is called to bleed the pump of air, after the tank is refilled.**

## The Fuel Tank

Do not allow the level of the oil to fall to the bottom of the tank as sludge might be sucked into the fuel pipe.

If possible, switch off the burner before any fresh supply of oil is delivered and start it again about one hour later to give any dirt in the tank a chance to settle.

## Air Supply

Your installer will have made arrangements for an adequate supply of fresh air to the boiler, to ensure safe operation. Do not block any air supply vents, which may be in the wall of the boiler room, without consulting your installer or service engineer. If the boiler is installed in a compartment, do not use the compartment for storage purposes, and do not obstruct any ventilation openings.

## Operation of the Burner

### **Statesman Kitchen, Utility & System**

The burner is completely automatic and is controlled either by a boiler or room thermostat. It starts when the water or air temperature falls below that set on the thermostat and stops as soon as the desired temperature is reached.

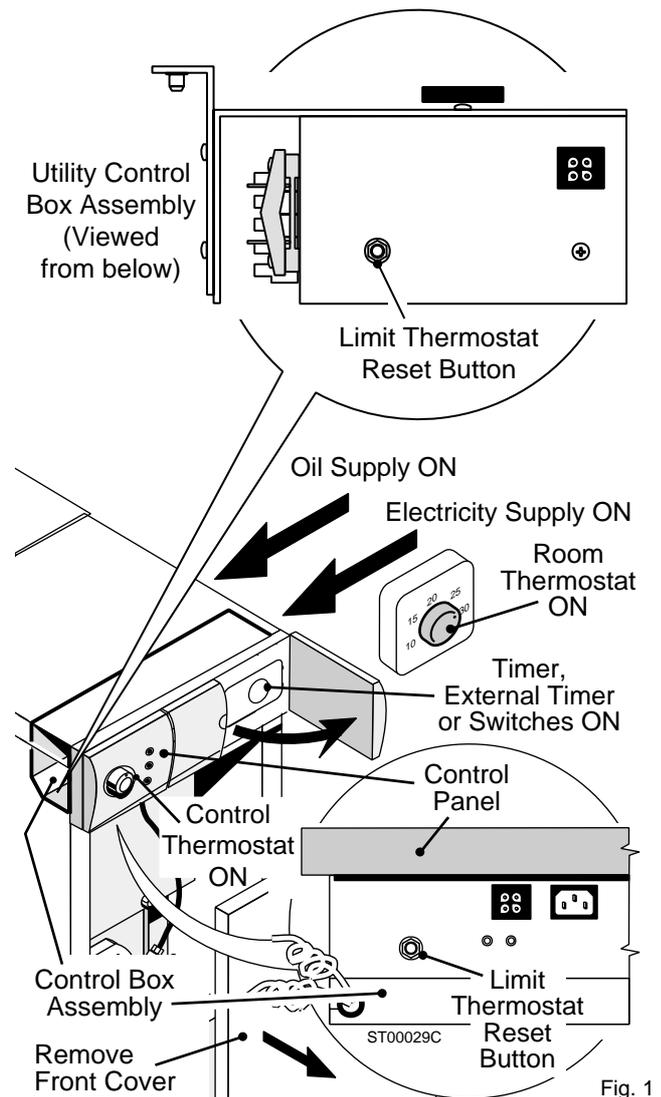
Ancillary controls i.e., room/cylinder thermostats should be installed to give additional economic operation.

### **Flowsure & Flowsure+**

In addition to the boiler or room thermostats, the burner is controlled by the boiler domestic hot water flow switch. The burner starts when any hot water tap is opened and stops when closed, in conjunction with the DHW set temperature.

## To Light the Boiler

Check that there is oil in the oil tank, and that all stop valves in the oil supply pipe are open. Switch on the electricity supply to the boiler, set the boiler controls and any internal/external timer or room thermostat to the required settings. The boiler operation is automatic from this point.



## Failure to Light

If the boiler fails to light when required:

- WAIT FOR THREE MINUTES* to allow unburnt vapour to clear from the boiler.
- Check that the boiler thermostat, selector switch, timer or external timer, and room thermostat (where these are fitted) are all set to call for heat.
- Check that there is oil in the tank, and all stop valves in the oil supply pipe are open.
- Check that the mains electricity switch is on, and that the fuse has not blown.
- Remove the front casing by pulling forward off the mounting clips, press the reset button which will be illuminated on the burner cover.

If the boiler still does not light, turn off the electricity supply, and contact your Service Engineer.

## Boiler Controls

### Boiler Thermostat - Kitchen, System, Flowsure, Flowsure+

- The Thermostat OFF position is designated, the knob must be turned to the minimum setting indicated by the first and smallest 'dot', at this position the hot water from the boiler will be at approximately 55°C (130°F).
- At the maximum setting, i.e., the last and largest 'dot' on the panel, the temperature of the outlet water will be approximately 82°C (180°F).
- On the Statesman Flowsure this will also affect the domestic hot water output. A higher setting will give greater quantities of hot water at a higher temperature.  
For milder or summer conditions it may be advisable to set the knob on or about the seventh 'dot' from minimum. Never leave the boiler thermostat at a setting between "OFF" and the minimum setting, otherwise serious corrosion of the boiler will occur. See Fig. 3.

### Boiler Thermostat - Utility

- The Thermostat OFF position is designated, the knob must be turned clockwise to the minimum setting '1', at this position the hot water from the boiler will be at approximately 60 °C (140 °F).
- At the maximum setting '5', the temperature of the outlet water will be approximately 82°C (180°F).
- For milder or summer conditions it may be advisable to set the knob on setting '3'.  
Never leave the boiler thermostat at a setting between "OFF" and setting '1', otherwise serious corrosion of the boiler will occur. See Fig. 2.

**Note:** Statesman Kitchen/Utility Only - For a gravity feed hot water system, the boiler thermostat setting should be reduced in summer to prevent overheating of the hot water.

### Limit Thermostat

- The Limit Thermostat operates if the boiler overheats for any reason. This is shown by the overheat light being lit (not Utility models). Should this happen at any time, turn off the electricity supply and contact your Service Engineer.

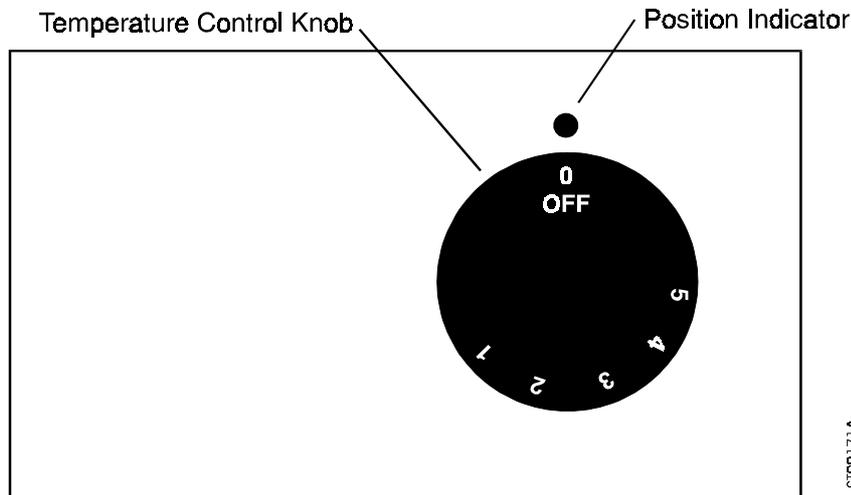


Fig. 2

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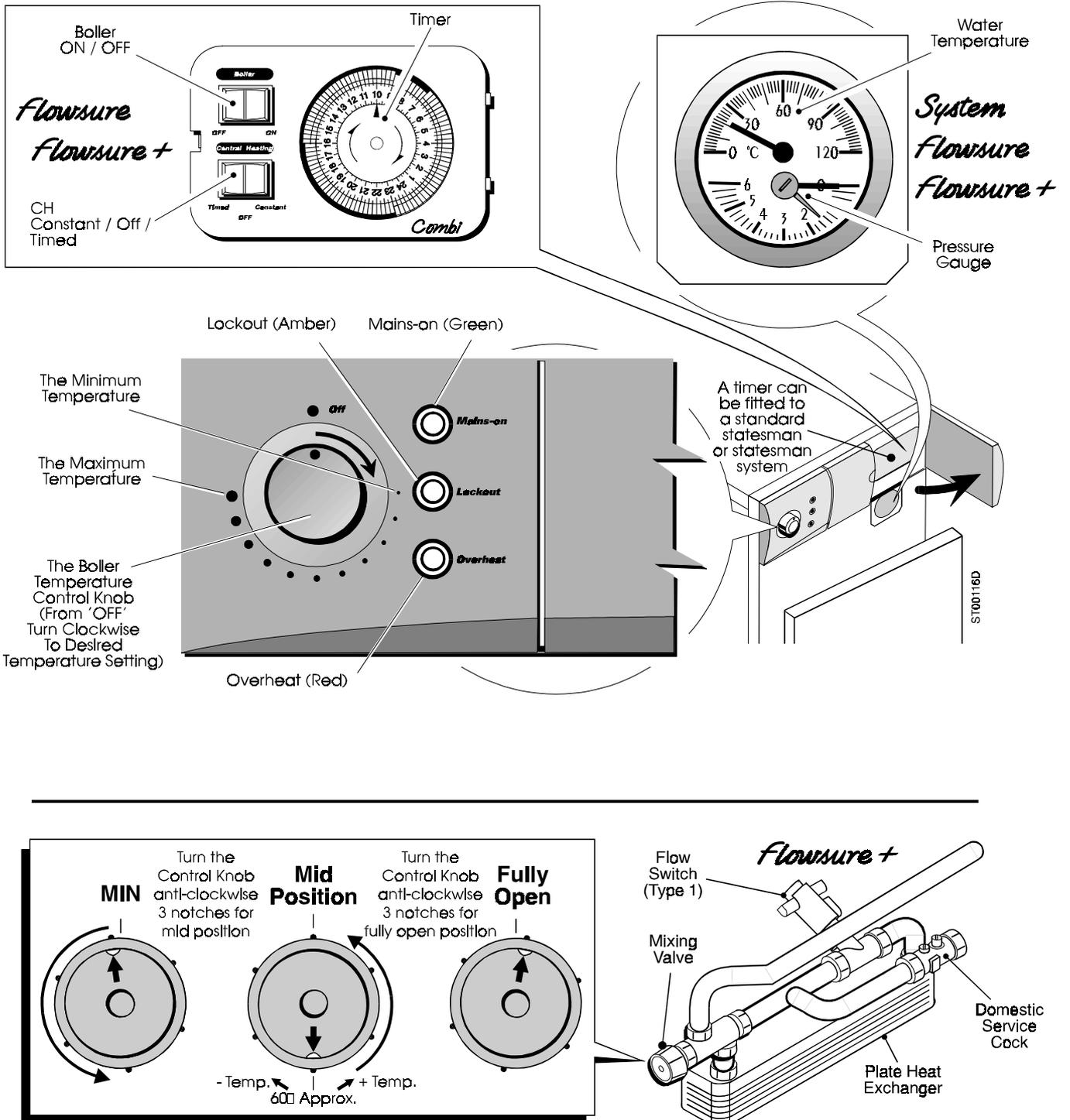


Fig. 3

## DHW Mixing Valve (Flowsure+ Only)

The DHW mixing valve is factory set to the mid position, this will give a blended water temperature of approximately 60°C. After removing the front casing (Pull forward off the mounting clips), the control knob (top right, behind control panel) will be accessible and can be turned as required. Clockwise to decrease and anti-clockwise to increase temperature - See Fig. 3.

## Programmiers

### Statesman 45/50, 50/70, 70/90, 90/110, System

Two alternative programmer arrangements are available as optional extras, the operation of these are shown on Pages 8 - 11.

### Statesman Flowsure, Flowsure +

These models are fitted with an Electro Mechanical programmer as standard. The operation of this is shown on Page 8.

### Statesman Utility 50/70, 70/90, 90/110, 110/30, 130/150

This model cannot be fitted with an integral programmer.

## Temperature/Pressure Gauge (System/Flowsure/Flowsure+)

The combined temperature/pressure gauge provides visual indication of the system primary water temperature and pressure. The indicated pressure should not be greater than 2.5 bar, or less than 0.5 bar.

## To Turn Off the Boiler

### For Long Periods

Switch off the electricity supply to the boiler.  
Close all stop valves in the fuel supply pipe.  
Clean flue and chimney.  
Clean boiler internal surfaces.  
To relight, restore controls to the original settings.

### For Short Periods

Disconnect the electricity supply, and shut off the oil supply at the storage tank.

To relight, restore the oil supply, and then the electricity supply, reset the controls and timer, if fitted.

## Clearances

The boiler must have the following minimum clearances for servicing.

Front of Boiler	610mm	(24in)
Sides of Boiler		
<i>Balanced Flue</i>	6mm	(1/4in)
<i>Conventional Flue</i>	25mm	(1in)
Top of boiler	12mm	(1/2in)

**Note:** If the Flowsure or Flowsure+ models are installed under worktops, the worktops must be removable.

## Frost Protection

If frost is likely during a short absence from home, leave the heating controls on a time reduced setting. Alternatively a frost stat may be fitted.

Consult your installer on whether any other thermostat is required.

For longer periods, the entire system should be drained, including the domestic water supply.

## Frost Precaution

A boiler which is shut down for several hours in very cold weather may be in danger of freezing due to its position (i.e. it may be in the outhouse, etc.) or part of the pipework of the system may be vulnerable to frost.

To avoid freezing, protection should be provided by adequate insulation, taking care not to impede the fresh air supply to the boiler.

## Cleaning the Outside of the Casings

The outside of the boiler casing can be wiped when necessary by using a damp clean cloth to remove finger marks etc. Do not use abrasive cleaners as this may damage the casing finish.

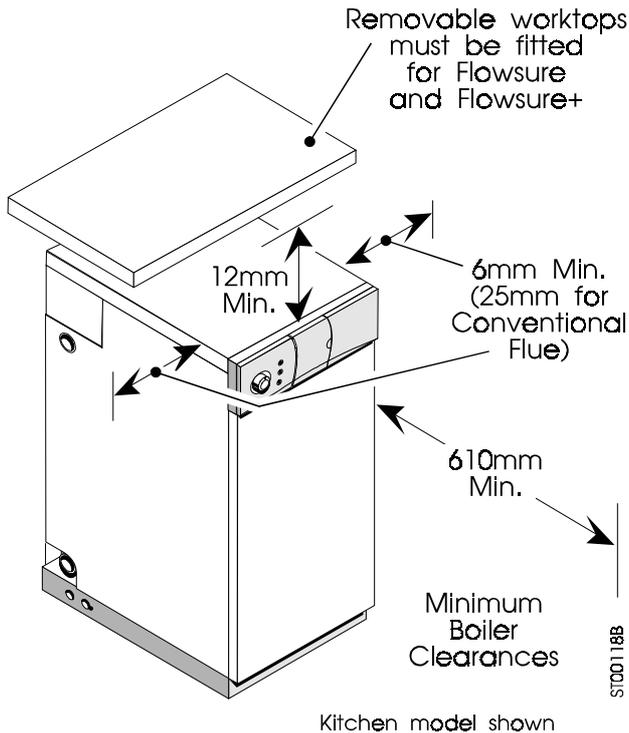


Fig. 4

## Care of your Boiler and System During the Guarantee Period and Beyond

### 1. Registration of Purchase

Your Statesman boiler carries a full 2 year guarantee from the date of installation (or 30 months from the date of manufacture, whichever is the shorter) PROVIDING you register your purchase on the Registration of Purchase form supplied with these instructions.

If you do not register your purchase your guarantee is for 12 months from the date of installation (or 18 months from the date of manufacture, whichever is shorter).

This does not effect your statutory rights.

Registration of your guarantee also helps ensure you receive prompt and efficient handling in the event your boiler requires attention during the guarantee period.

To register your guarantee simply complete and detach the Registration of Purchase form enclosed with these instructions. It is important to include details of your installer and to return the completed form to the Baxi Registration Department.

### 2. During the Guarantee Period

In the event of any problems with your system or the operation of the boiler, you should first call your installer. If there is a fault with the boiler under guarantee which your installer is unable to rectify, he will call Baxi Service Operations.

During the guarantee period Baxi will attend to any manufacturing defect, on the appliance only (not the system or ancillary controls), free of charge for parts and labour, subject to there being no misuse or abuse.

Service visits by Baxi Service Operations outside the terms of the boiler guarantee will be charged for both parts and labour at normal rates for chargeable work. During the period of the boiler guarantee, Baxi will only be responsible for the costs of work done by them or on their instructions by their Agent. We cannot accept any liability for expenditure or work done by other parties without our knowledge and/or approval.

### 3. Servicing and Maintenance

To ensure efficient and trouble-free heating, it is most important that the boiler and burner are correctly serviced (see Section 4, Servicing and Maintenance in Installation & Service Instructions).

This is best carried out by entering into a service contract with your installer.

### 4. Boiler Breakdown Insurance

We are pleased to offer you the opportunity to protect your investment once your initial boiler guarantee has expired (2 years providing you register your purchase) for a further 3 years and thereafter annually.

You can continue with this insurance for the normal life of your boiler and you will find special introductory offer for the 3 years additional cover together with a card to register your purchase, as part of the "User Pack" supplied with your boiler.

If you have not been handed a Registration Card/ additional 3 year Breakdown Insurance offer, please contact the Baxi Registration Department for a copy by telephoning 020 8944 4972.

## Programmers - Operation

### Electro Mechanical

Statesman Kitchen / Statesman System

*Selector Switches:*

**Switch 'A'** at the top of the panel selects hot water only when pressed down to the left and hot water plus central heating to the right.

**Switch 'B'** the mode switch at the lower end of the panel allows the boiler to operate on either continuously (constant) or for timed periods (timed). The centre position allows the boiler/heating to be turned off i.e., during summer months.

*Time Clock (Common to all models shown above):*

The integral time clock is based on a 24 hour outer ring.

**To set the clock:** Turn the outer 24 hour ring **clockwise** until the current time of day aligns with the '▲' on the inner ring. **Do NOT** turn anti-clockwise - you will damage the clock.

The two diagrams below show examples of the current time set at 10 am and 10 pm, remember, '10' is 10 in the morning and '22' is 10 in the evening.

**To set an on period:** Push the relevant tappets (each tappet represents 15 minutes) in towards the centre of the dial. The diagrams below show examples of 'On' periods.

Statesman Flowsure / Statesman Flowsure+

*Selector Switches:*

**Switch 'A'** at the top of the panel selects OFF when pressed down to the left and ON to the right.

**Switch 'B'** the mode switch at the bottom of the panel allows the central heating to operate on either continuously (Constant) or for timed periods (Timed). The centre position allows the central heating to be turned Off. i.e. during the summer months.

**Note:** Domestic hot water has priority over central heating.

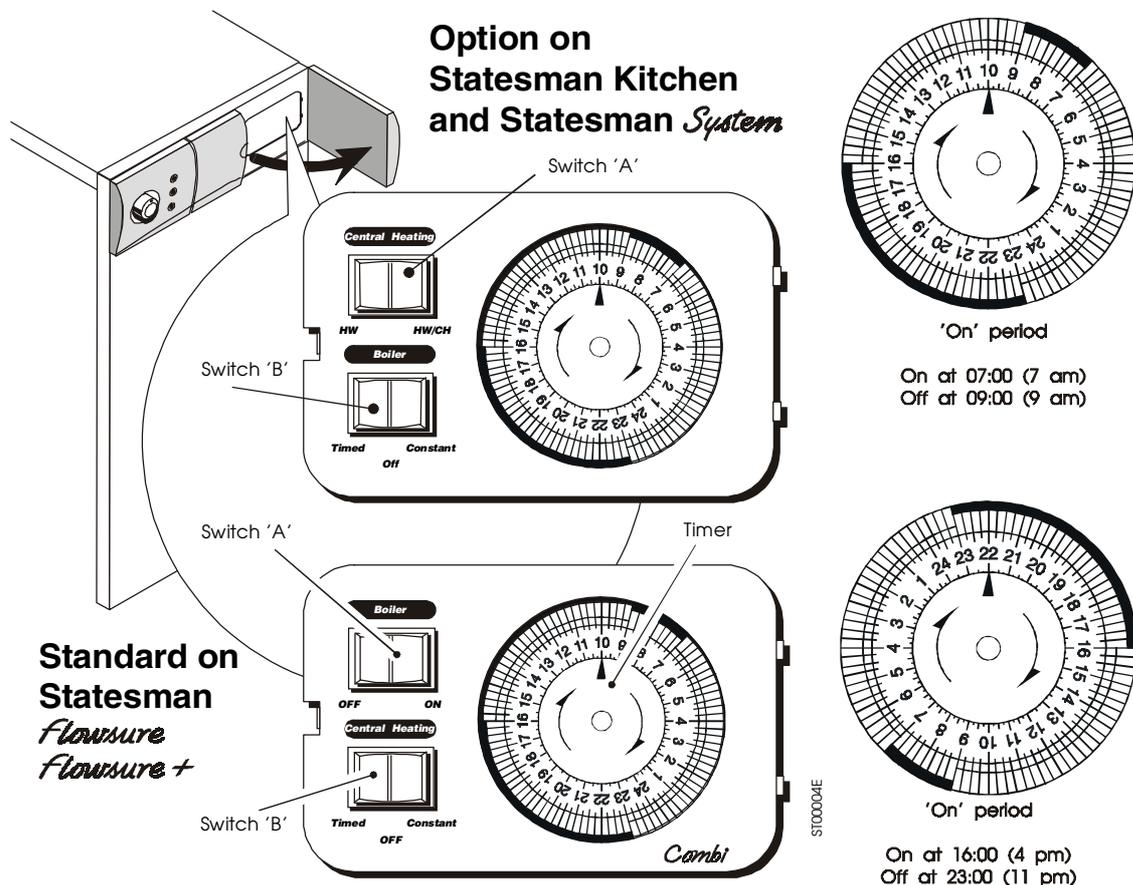


Fig. 5

## Electronic

Statesman Kitchen / Statesman System Only

### Selector Switches:

Switch 'A' at the top of the panel selects hot water only when pressed down to the left and hot water plus central heating to the right.

Switch 'B' the mode switch at the lower end of the panel allows the boiler to operate on central heating either continuously (constant) or for timed periods (timed). The centre position allows the boiler/heating to be turned off i.e., during summer months.

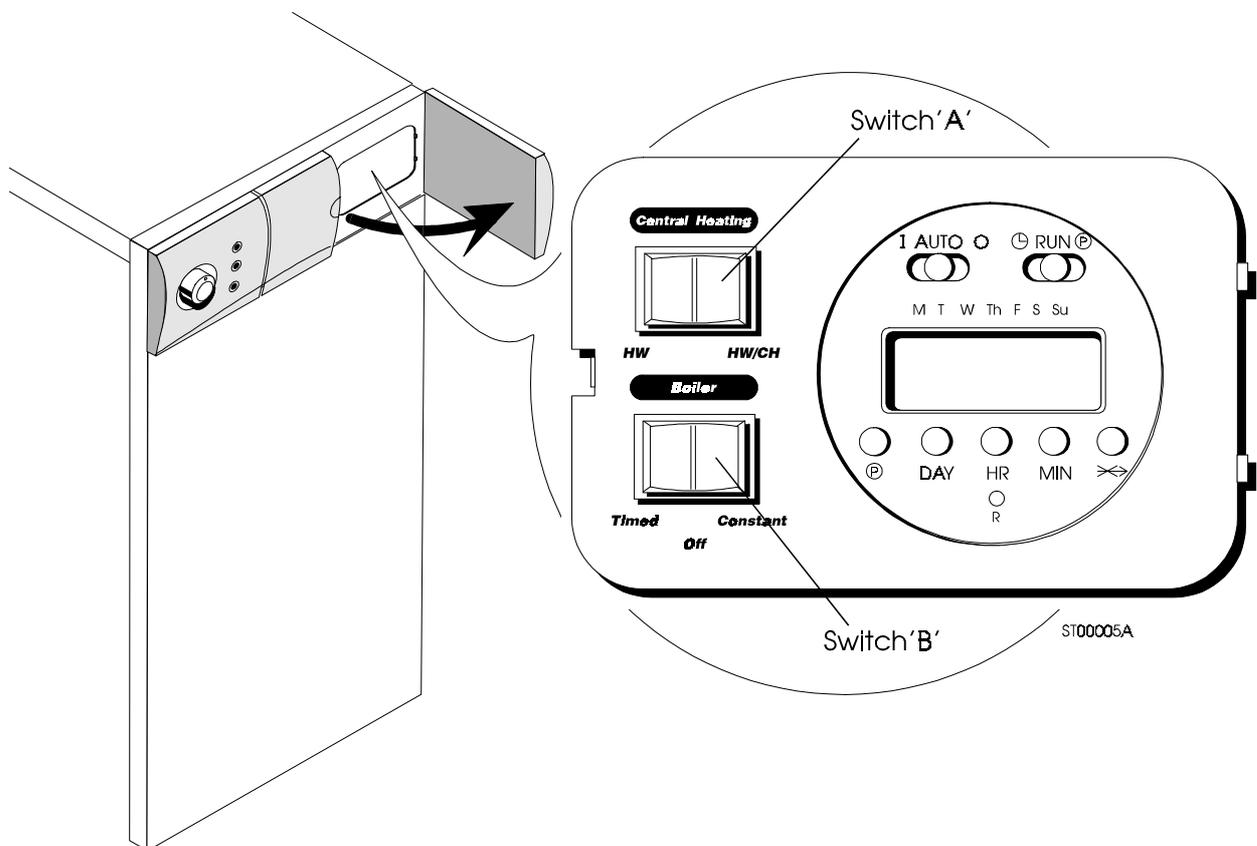


Fig. 6

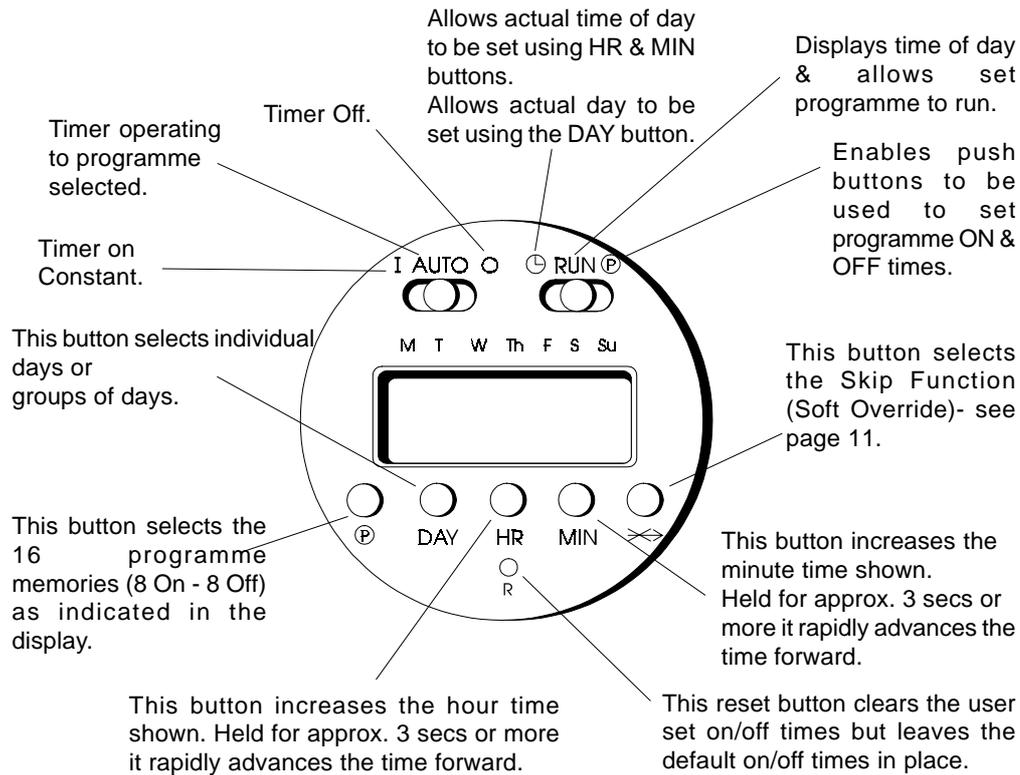


Fig. 7

## Programming the Timer

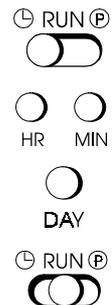
### First Time Use

1. Press the reset button to clear any previous inputs.



### Set Current Day and Time

1. Set RUN switch to time.
2. Set time of day using HR & MIN buttons.  
An arrow will be displayed under the actual day.
3. Set actual day using DAY button.  
Actual time of day will be displayed (flashing colon).
4. Set RUN switch to RUN.
5. Set AUTO switch to AUTO.



### Set On/Off Times and Days

The timer has the following on/off times set by default

No.1 On	06:30am	No.2 Off	08:30am	Monday to Sunday
No.3 On	12:00pm	No.4 Off	12:00pm	Monday to Sunday
No.5 On	16:30pm	No.6 Off	22:30pm	Monday to Sunday

To override these settings proceed as follows

Example:	On	05:30am	Off	07:30am	Monday to Friday
	On	16:00pm	Off	22:15pm	Monday to Friday
	On	08:00am	Off	10:45am	Saturday & Sunday
	On	15:30pm	Off	22:30pm	Saturday & Sunday

### 1. Set RUN switch to programme



No. 1 and bulb will be visible (On period)

Press DAY button until group of days M to F is shown on the display

Press HR button until 5 is shown on the display

Press MIN button until 30 is shown on the display

Press programme to save the setting



No. 2 will be visible (Off Period to No. 1 On period)

Press DAY button until group of days M to F is shown on the display

Press HR button until 7 is shown on the display

Press MIN button until 30 is shown on the display

Press programme to save the setting



No. 3 and bulb will be visible (On period)

Press DAY button until group of days M to F is shown on the display

Press HR button until 16 is shown on the display

Press MIN button until 00 is shown on the display

Press programme to save the setting



No. 4 will be visible (Off period to No. 3 On period)

Press DAY button until group of days M to F is shown on the display

Press HR button until 22 is shown on the display

Press MIN button until 15 is shown on the display

Press programme to save the setting



No. 5 and bulb will be visible (On period)

Press DAY button until group of days S, Su is shown on the display

Press HR button until 8 is shown on the display

Press MIN button until 00 is shown on the display

Press programme to save the setting



No. 6 will be visible (Off period to No. 5 On period)

Press DAY button until group of days S, Su is shown on the display

Press HR button until 10 is shown on the display

Press MIN button until 45 is shown on the display

Press programme to save the setting



No. 7 and bulb will be visible (On period)

Press DAY button until group of days S, Su is shown on the display

Press HR button until 15 is shown on the display

Press MIN button until 30 is shown on the display

Press programme to save the setting



No. 8 will be visible (Off period to No. 7 On period)

Press DAY button until group of days S, Su is shown on the display

Press HR button until 22 is shown on the display

Press MIN button until 30 is shown on the display

Press programme to save the setting



### 2. When all selections are made set RUN switch to RUN. *Ensure that the Central Heating Switch on the boiler user control is set to timed.*



#### Set Timer Function

1. Set AUTO switch to AUTO. The timer will now run automatically as programmed.

2. Set AUTO switch to I. The timer will now run continuously.

3. Set AUTO switch to O. The timer will be off.



#### To Use the Skip Function (Soft Override)

1. To use skip functions press the skip button.

(The sign will be displayed - indicating selection) The skip function will then operate as follows:-

a. If the timer is in an 'on' period, it will switch the boiler off until the next 'on' period is reached on the timer.

b. If the timer is in an 'off' period, it will switch the boiler on and operate in continuous mode until the next 'off' period is reached.



#### *Sales Enquiries:*

Sales Operations  
Eastern Avenue,  
Team Valley Trading Estate,  
Gateshead.  
Tyne & Wear. NE11 0PG.

Tel: 08706 060 403  
Fax: 0191 491 7568

#### *Service Enquiries:*

Service Operations  
Brooks House,  
Coventry Road,  
Warwick. CV34 4LL.

Tel: 08706 096 096 \*  
Fax: 01926 410006

#### *Spares Enquiries:*

Spare parts are available nationwide via the Interpart Stockists network.

For your local stockist consult Yellow Pages under Central Heating

#### *Trade Support:*

Trade Support  
Brooks House,  
Coventry Road,  
Warwick. CV34 4LL.

Tel: 08706 049 049 \*  
Fax: 01926 410006

#### *Training Administration:*

National Training Administrator  
Tel: 0845 600 7402

Responsible for allocation and booking of all courses and activities at all training facilities in the UK

#### *Brochure Hotline:*

Tel: 08706 060 623

#### *The Internet:*

<http://www.baxi.com>  
<http://www.oilboilers.co.uk>

# **POTTERTON**

**OIL FIRED BOILERS**

Registered Office:  
Sceptre Way, Bamber Bridge, Preston. PR5 6AW.  
Registered No. 3879156

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