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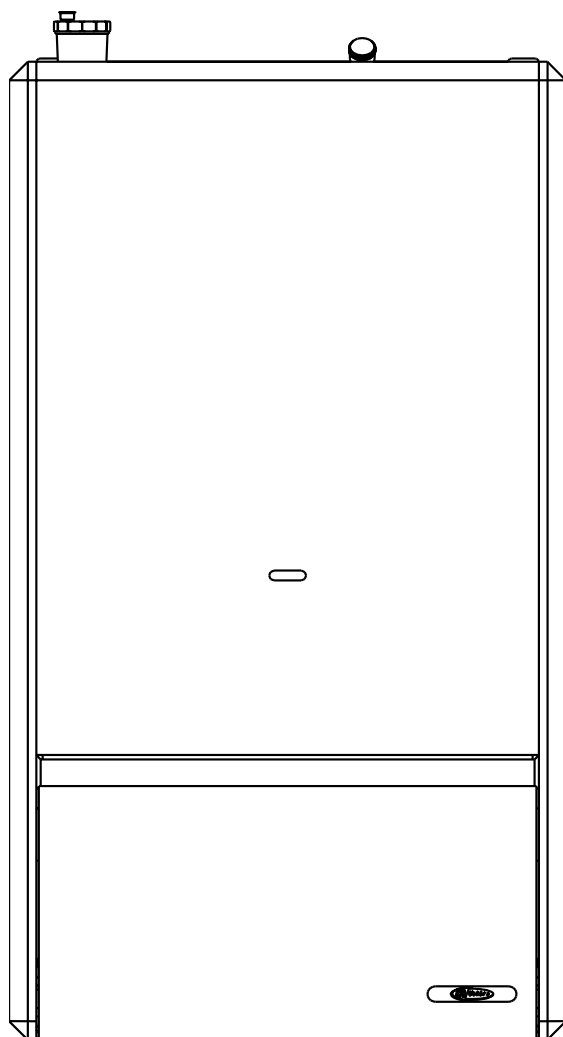


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# Eclipse

**ESC**



## **Users Instructions**

**CE**

**THESE INSTRUCTIONS  
TO BE RETAINED  
BY USER**



The code of practice for the installation,  
commissioning & servicing of central heating systems

## Contents

| Introduction     | Page |
|------------------|------|
| Dear customer    | 2    |
| Do's and don't's | 2    |

| Things you should know          | Page |
|---------------------------------|------|
| 1.1 Gas appliances              | 3    |
| 1.2 Electrical supply           | 3    |
| 1.3 Guarantee registration card | 3    |
| 1.4 Appliance log book          | 3    |
| 1.5 How does it work?           | 3    |
| 1.6 Dimensions                  | 3    |
| 1.7 Clearances                  | 3    |

| Getting started                        | Page |
|--|------|
| 2.1 Before switching on                | 3    |
| 2.2 Appliance controls                 | 3    |
| 2.3 Lighting the boiler                | 3    |
| 2.4 Adjusting the operating parameters | 4    |
| 2.5 Viewing the operating parameters   | 5    |

| How to...                                  | Page |
|--|------|
| 3.1 Top-up the system                      | 5    |
| 3.2 Reset the appliance                    | 5    |
| 3.3 Shut down the system for short periods | 5    |
| 3.4 Shut down the system for long periods  | 5    |
| 3.5 Care for the appliance                 | 5    |
| 3.6 Regulate the hot water temperature     | 5    |

| What if...                                  | Page |
|---|------|
| 4.1 I suspect a gas leak                    | 6    |
| 4.2 I frequently have to top-up the system  | 6    |
| 4.3 The reset light is on                   | 6    |
| 4.4 The appliance is due its annual service | 6    |
| 4.5 I need to call an engineer              | 6    |

| Setting the Vokera   | Page |
|----------------------|------|
| 5.1 Mechanical clock | 6    |
| 5.2 Digital clock    | 6    |

## INTRODUCTION

### Dear Customer

Your Eclipse boiler has been designed to meet and exceed the very latest standards in gas central heating technology, and if cared for, will give years of reliable use and efficiency.

Please therefore take some time to read these instructions carefully.

### Do's and don't's

- **Do** ensure that the system pressure is periodically checked
- **Do** ensure that you know how to isolate the appliance in an emergency
- **Do** ensure that you are familiar with the appliance controls
- **Do** ensure that your installer has completed the appliance log book
- **Do not** attempt to remove the appliance casing or gain internal access
- **Do not** hang clothes etc. over the appliance
- **Do not** forget to have the appliance serviced annually

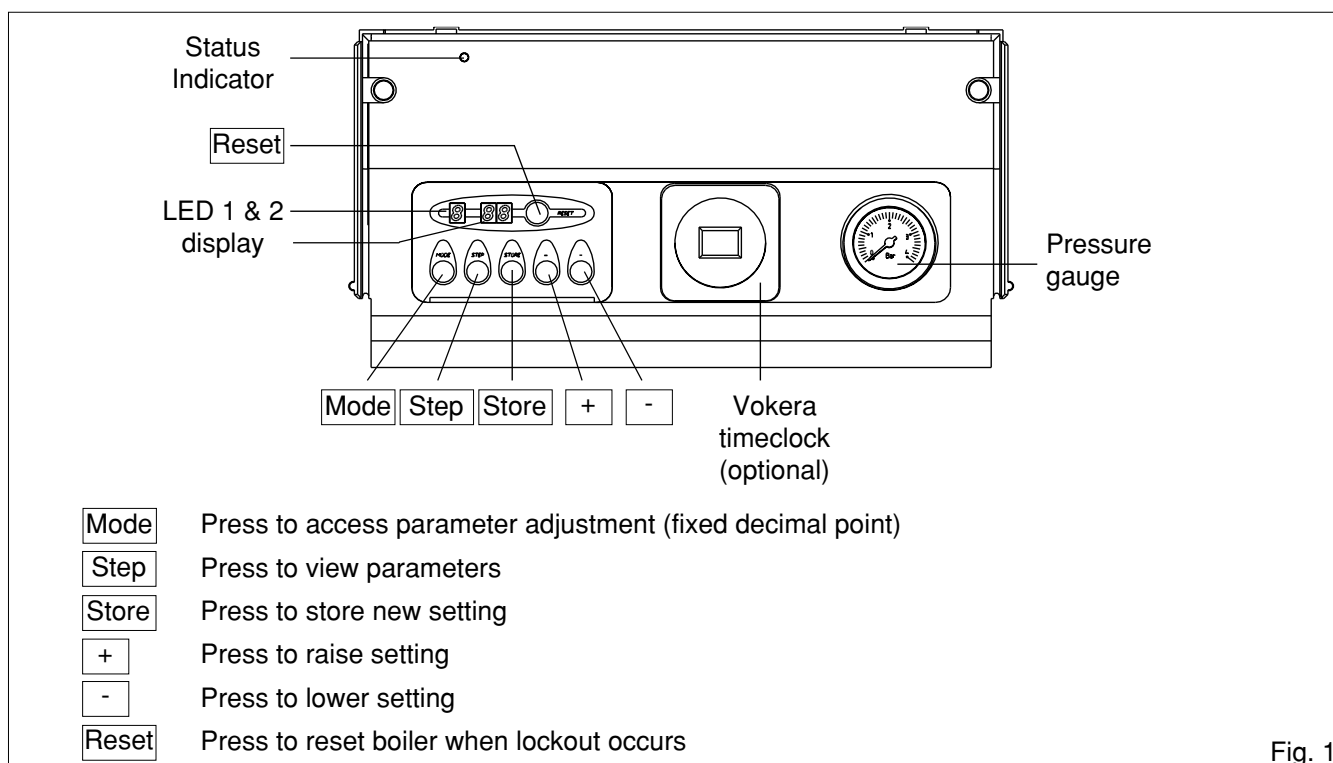


Fig. 1

## THINGS YOU SHOULD KNOW

### 1.1 GAS APPLIANCE

Gas Safety (Installations and Use) Regulations. In the interests of your safety and that of the others it is a legal requirement that all gas appliances are installed and correctly maintained by a competent person and in accordance with the latest regulations.

### 1.2 ELECTRICAL SUPPLY

Please ensure that this appliance has been properly connected to the electrical supply by means of a double pole isolator or un-switched socket, and that the correct size of fuse (3 amp) has been fitted.

**Warning: this appliance must be earthed!**

### 1.3 GUARANTEE REGISTRATION CARD

Please take the time to fill out your guarantee registration card. The completed warranty card should be posted within 30 days of installation.

### 1.4 APPLIANCE LOG BOOK

A log book is supplied with the boiler. This important document must be completed during the installation/commissioning of your boiler. Failure to install and commission the appliance in accordance with the manufacturers instructions may invalidate the warranty. This does not affect your statutory rights.

### 1.5 HOW DOES IT WORK?

Your Eclipse ESC is a combination boiler, which supplies heated water to your radiators and hot water to your taps. The central heating is controlled via a time clock and/or any thermostats that your installer may have fitted. The boiler will light when a hot water outlet (a tap) is opened. The boiler also functions periodically to pre-heat the hot water heat exchanger. The Eclipse boiler lights electronically and does not have a pilot light. In the unlikely event of a fault developing with your boiler, the supply of gas to the burner will be terminated automatically.

### 1.6 DIMENSIONS

|        |        |
|--------|--------|
| HEIGHT | 790 mm |
| WIDTH  | 450 mm |
| DEPTH  | 322 mm |

### 1.7 CLEARANCES REQUIRED

|       |        |
|-------|--------|
| ABOVE | 150 mm |
| BELOW | 150 mm |
| SIDES | 25 mm  |
| FRONT | 600 mm |

## GETTING STARTED

### 2.1 BEFORE SWITCHING ON

Before switching the appliance on, please familiarise yourself with:

- how to isolate the appliance from the gas, water and electricity supplies;
- how to check and top-up - if necessary - the system water pressure;
- the time clock;
- any external thermostats and their functions;
- the appliance controls.

### 2.2 APPLIANCE CONTROLS (fig. 1)

The appliance controls are concealed behind the front flap. To gain access to the controls simply pull the flap towards you in a downward motion. The appliance is equipped with a simple keypad that can be used to alter or display the following functions:

- the outlet flow temperature to the central heating system;
- the outlet temperature for domestic hot water;
- the allowable drop in temperature before the boiler pre-heats the domestic hot water heat exchanger;
- switch on or off the central heating.

The pressure gauge shows the current pressure of the system, the gauge should be set between 1 and 1.5 bar. When the appliance is operating the gauge may rise or fall slightly, this is quite normal. The minimum permissible level for the safe and efficient operation of the appliance is 0.5 bar. Should the pressure fall below 0.5 bar, the boiler may lockout.

Depending on the type of controls specified by your installer you may have an integral Vokera time clock fitted to the appliance, if so, instructions can be found on page 6-7. If an external time clock or programmer has been fitted, please refer to the instructions supplied with such.

### 2.3 LIGHTING THE BOILER

Ensure the gas and electrical supply to the boiler are turned on. The boiler will now go through a self-test and purge sequence. On completion of the self-test and purge sequence, the boiler will pre-heat the DHW heat exchanger if it is below 55°C, however should a hot water outlet be opened the boiler will operate in the domestic hot water mode to supply hot water to the tap.

When there is a demand for heating via the timeclock, the boiler will go through an ignition sequence, whereby the burner will light.

If the appliance fails to ignite during the ignition sequence, it will re-attempt ignition several times before going to a lockout condition. Should this occur, please allow a period of two minutes before re-setting.

When the appliance reaches the set temperature, the burner will go off for minimum period of approximately 3 minutes.

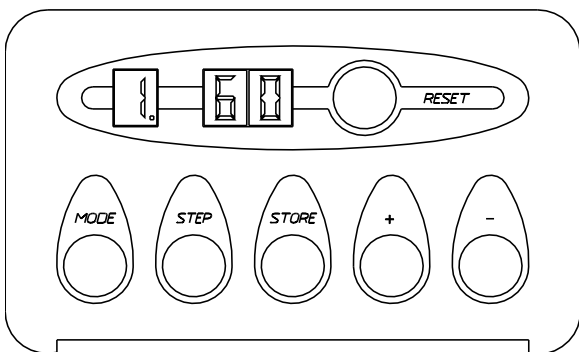
When the programmer/time clock or external thermostats heating request has been satisfied, the appliance will switch off automatically.

## 2.4 ADJUSTING THE OPERATING PARAMETERS (see fig. 1 & 1A)

Usually your installer will have adjusted the operating parameters to suit your requirements, however should you wish to alter the operating parameters, please use the following procedure:

- press the MODE button repeatedly until you see a fixed decimal point in LED 1;
- press the STEP button repeatedly until the parameter that is to be adjusted is shown in LED 1;
- use the adjustment buttons (+/-) to alter the current setting as shown in LED 2;
- press the STORE button to store the new setting into the memory;
- press the MODE button repeatedly until no decimal point is shown in LED 1.

### PRESS MODE BUTTON UNTIL A FIXED DECIMAL POINT IS SHOWN IN LED 1

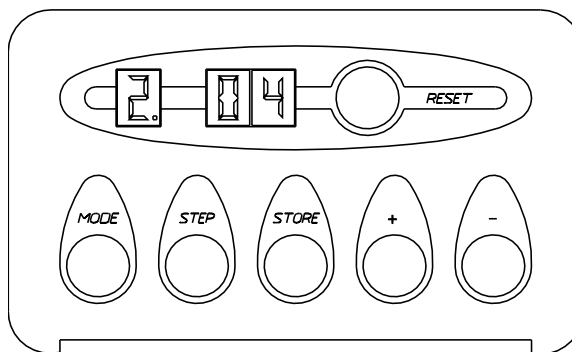


**To change the hot water outlet temperature (variable between 40 - 65°C) press STEP button until LED 1 shows 1.**

Use the adjustment buttons (=/-) to alter the current value to the new value.

Press the STORE button to save the new value.

Press the MODE button until no decimal point is shown in LED 1.

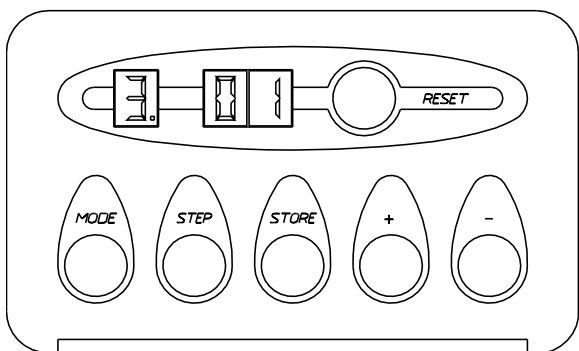


**To change the pre-heat temperature drop (02 = 5°C, 03 = 10°C, 04 = 20°C, 05 = 30°C) press the STEP button until LED 1 shows 2.**

Use the adjustment buttons (=/-) to alter the current value to the new value.

Press the STORE button to save the new value.

Press the MODE button until no decimal point is shown in LED 1.

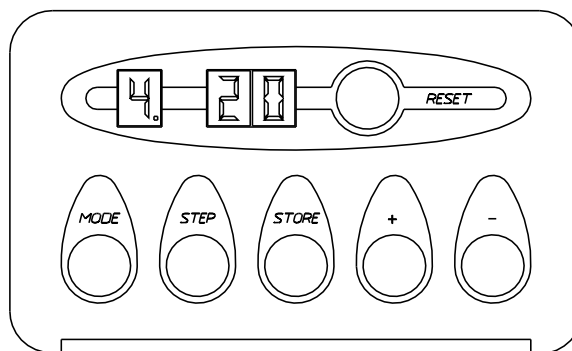


**To switch the central heating ON or OFF (00 = OFF, 01 = ON) press the STEP button until LED 1 shows 3.**

Use the adjustment buttons (=/-) to alter the current value to the new value.

Press the STORE button to save the new value.

Press the MODE button until no decimal point is shown in LED 1.



**To change the central heating flow temperature (variable between 20°C and 90°C) press the STEP button until LED 1 shows 4.**

Use the adjustment buttons (=/-) to alter the current value to the new value.

Press the STORE button to save the new value.

Press the MODE button until no decimal point is shown in LED 1.

Fig. 1A

## 2.5 VIEWING THE OPERATING PARAMETERS

Press MODE button until a flashing decimal point is shown in LED 1.

|                                |   |
|--------------------------------|---|
| Press STEP until LED 1 shows 1 | LED 2 shows heating flow temperature  |
| Press STEP until LED 1 shows 2 | LED 2 shows heating return temperature  |
| Press STEP until LED 1 shows 3 | LED 2 shows cold water inlet temperature  |
| Press STEP until LED 1 shows 6 | LED 2 shows set temperature for heating or hot water (depending on current mode of operation) |

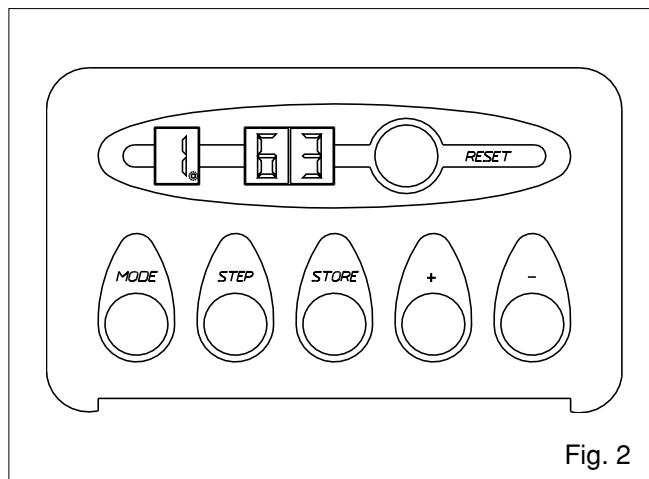


Fig. 2

## HOW TO...

### 3.1 HOW TO TOP-UP THE SYSTEM PRESSURE (fig. 3)

The system pressure must be checked periodically to ensure the correct operation of the boiler. The needle on the gauge should be reading between 1 and 1.5 bar when the boiler is in an off position and has cooled to room temperature. If the pressure requires 'topping-up' use the following instructions as a guide.

- Locate the filling valve connections (usually beneath the boiler).
- Attach the filling loop to both connections.
- Open the filling valve slowly until you hear water entering the system.
- Close the filling valve when the pressure gauge (on the boiler) reads between 1 and 1.5 bar.
- Remove the filling loop from the connections.

### 3.2 HOW TO RESET THE APPLIANCE

When the status light is illuminated red, the appliance will require to be reset manually. Before resetting the boiler ensure that the pressure gauge is indicating the correct level. Allow a period of two minutes to elapse before pressing the reset button.

#### IMPORTANT

If the appliance requires to be reset frequently, it may be indicative of a fault, please contact your installer or Vokera Customer Services for further advice.

### 3.3 HOW TO SHUT DOWN THE SYSTEM FOR SHORT PERIODS

The system and boiler can be shut down for short periods by simply turning the time clock to the off position. It is also advisable to turn off the main water supply to the house.

### 3.4 HOW TO SHUT DOWN THE SYSTEM FOR LONG PERIODS

If the house is to be left unoccupied for any length of time – especially during the winter – the system should be thoroughly drained of all water.

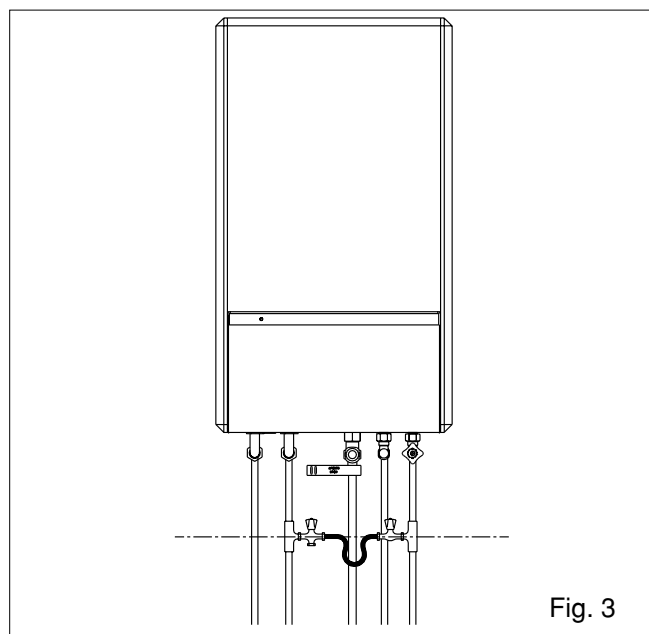


Fig. 3

The gas, water, and electricity supply to the house should also be turned off. For more detailed advice contact your installer.

### 3.5 HOW TO CARE FOR THE APPLIANCE

To clean the outer casing use only a clean damp cloth. Do not use any scourers or abrasive cleaners.

### 3.6 HOW TO REGULATE THE HOT WATER TEMPERATURE

Usually your installer will have adjusted the hot water output to suit your requirements, however if you would like to adjust the outlet temperature, please follow the instructions in section 2.4.

#### NOTE

If you find that the hot water temperature is still insufficient, try reducing the flow of water through the tap.

## WHAT IF...

### 4.1 WHAT IF I SUSPECT A GAS LEAK

If you suspect a gas leak, turn off the gas supply at the gas meter, and contact your installer or local gas supplier. If you require further advice please contact your nearest Vokera office.

### 4.2 WHAT IF I HAVE TO FREQUENTLY TOP-UP THE SYSTEM

If the system regularly requires topping-up, it may be indicative of a leak. Please contact your installer and ask him to inspect the system.

### 4.3 WHAT IF THE RESET LIGHT IS ON

If the reset light is flashing red it indicates that the boiler has failed to ignite or has overheated, when this happens the boiler automatically shuts down and requires to be reset manually (see 3.2).

### 4.4 WHAT IF THE APPLIANCE IS DUE ITS ANNUAL SERVICE

#### Advice for tenants only

Your landlord should arrange for servicing.

#### Advice for homeowners

Please contact Vokera Customer Services (**0870 333 0220 (UK) or 05655057 (ROI)**) if you would prefer a Vokera service engineer or agent to service your appliance. Alternatively your local CORGI registered engineer may be able to service the appliance for you.

### 4.5 WHAT IF I NEED TO CALL AN ENGINEER

If you think your boiler may have developed a fault please contact your installer or Vokera Customer Services (**0870 333 0220 (UK) or 05655057 (ROI)**) have all your details to hand including full address and postcode, relevant contact numbers, and your completed appliance log book.

## VOKERA TIMECLOCKS

### 5.1 VOKERA MECHANICAL CLOCK

#### Setting the time

The time of day can be set by grasping the outer edge of the black dial and turning it in a clockwise direction until the correct time is in line with the white pointer.

#### Setting the 'switching times'

The 'ON' periods are set by sliding the black tappets, adjacent to the time periods required, to the outer edge of the dial.

The tappets that remain at the centre of the dial will be the 'OFF' periods.

The smallest switching time (ON or OFF) is 15 minutes.

To select 'Timed' mode move the selector switch in the middle of the clock face to the '⊕' position.

To select 'Constant' mode move the selector switch in the middle of the clock face to the 'I' position.

To select 'Off' mode move the selector switch in the middle of the clock face to the 'O' position.

### 5.2 VOKERA DIGITAL CLOCK

The Vokera digital time clock will automatically switch your boiler on and off. It has a total of twenty different switching commands, consisting of ten 'on' commands and ten 'off' commands. Each 'on' or 'off' command can be used to switch the boiler 'on' or 'off' at the same time:

- Every day of the week
- Monday to Saturday
- Monday to Friday
- Saturday and Sunday
- Any particular day

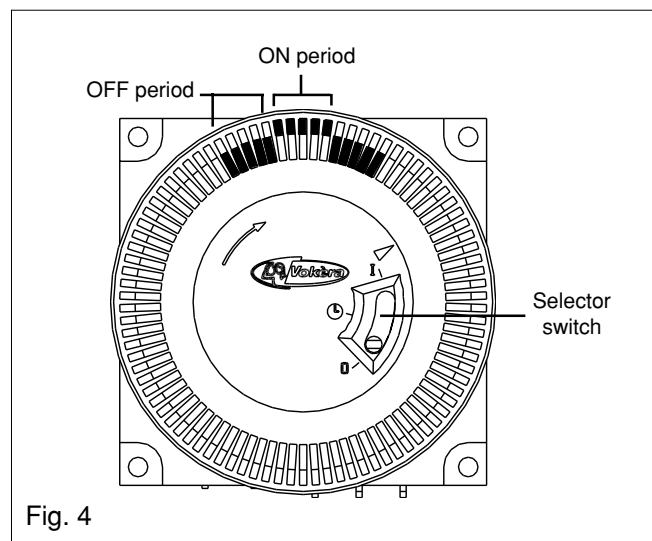


Fig. 4

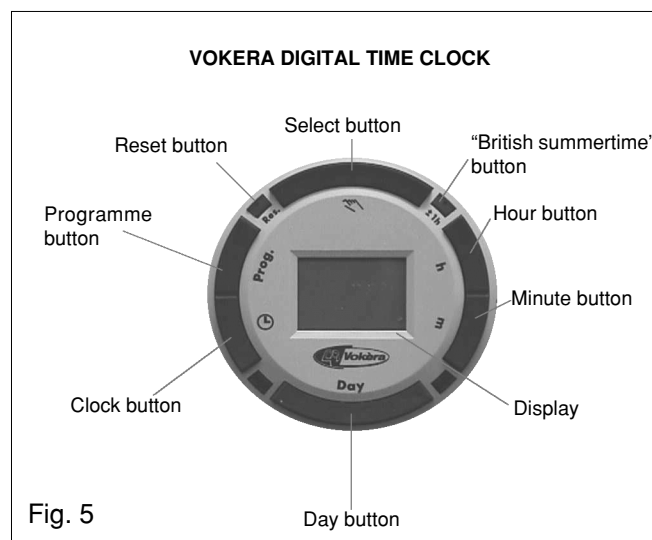


Fig. 5

Example

| Group of days   | On    | Off   | Commands used |
|-----------------|-------|-------|---------------|
| Mon. to Fri.    | 06.00 | 09.00 | 2             |
| Mon. to Fri.    | 16.00 | 21.00 | 2             |
| Sat. & Sun.     | 08.30 | 10.30 | 2             |
| Sat. & Sun.     | 17.00 | 23.00 | 2             |
|                 |       | Total | 8 used        |
| Commands 'free' |       |       | 12 unused     |

**5.2.1 BEFORE PROGRAMMING**

Gently press and release the 'Res.' button with a pencil or similar, this will clear the memory of all information. This should only be done when you want to change or insert a complete new programme.

**5.2.2 SETTING THE TIME OF DAY**

The 'real time' clock has to be set to the actual day of the week and time of day, to do this:

- Press and hold the ☰ button (see fig 6).
- Press the 'Day' button until the actual day shows in the display (1= Monday, 2= Tuesday, 3= Wednesday, etc.).
- If setting the clock during 'British summertime' press the '+/-1h' button once (use a pencil or similar).
- Press the 'h' button until the actual hour is shown in the display.
- Press the 'm' button until the actual minutes are showing in the display.
- Now release the ☰ button.
- The ':' symbol between the hours and minutes display will start to flash, this indicates that the clock is now keeping time (see fig. 7).

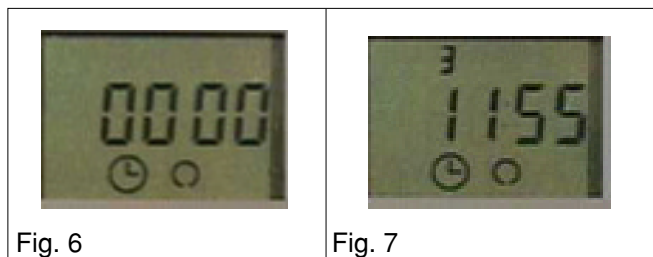


Fig. 6

Fig. 7

**5.2.3 ENTERING ☉ (on) COMMANDS**

- Repeatedly press the Prog. Button until the — :— symbol appears in the clock display (see fig. 8).
- Press the Day button until the desired group of days or desired day is shown.
- Press the 'h' button until the desired hour for switching the boiler on is shown.
- Press the 'm' button until the desired minutes are shown.
- Press the Select button until the ☉ symbol is shown (see fig. 9).
- Press the ☰ button.

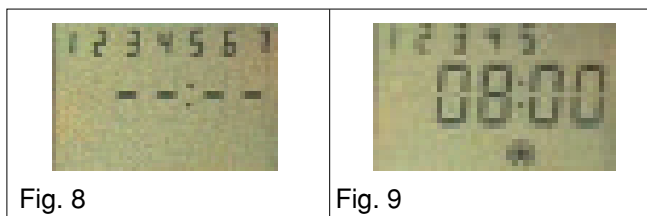


Fig. 8

Fig. 9

**5.2.4 ENTERING ☉ (off) COMMANDS**

- Repeatedly press the Prog. Button until the — :— symbol appears in the clock display (fig. 4).
- Press the Day button until the desired group of days or desired day is shown.
- Press the 'h' button until the desired hour for switching the boiler off is shown.
- Press the 'm' button until the desired minutes are shown.
- Press the Select button until the ☉ symbol is shown (see fig. 10).
- Press the ☰ button.

Once the programming has been completed you will have to press the Select button – once only – to the ☉ (on) position if the boiler has been programmed to be 'on' at that particular time.

**5.2.5 ADVANCING OR LOCKING PROGRAMME COMMANDS**

By pressing the Select button you can advance the time clock to the next command setting (from 'on' to 'off' or 'off' to 'on') or lock the time clock to a particular command ('on' continuously or 'off' continuously).

- ☉ - ON
- ☉ - OFF
- [☉] – ON CONTINUOUSLY
- [☉] – OFF CONTINUOUSLY

**NOTE**

The actual time can be changed to account for British summertime by simply pressing then releasing the +/- 1h button.

**HELPFUL HINTS**

- You can check and/or alter the programme settings at any time by pressing the Prog button.
- The number of unused 'commands' can be checked by pressing the Prog button until FR is displayed alongside the number of unused commands.
- In the event of a power failure, the clock has a battery back-up. The programme will be held in the memory for approximately 2 weeks. Charging time is 70 hours.
- Take a note of the settings you have programmed, as local power surges can sometimes reset the memory of the clock.

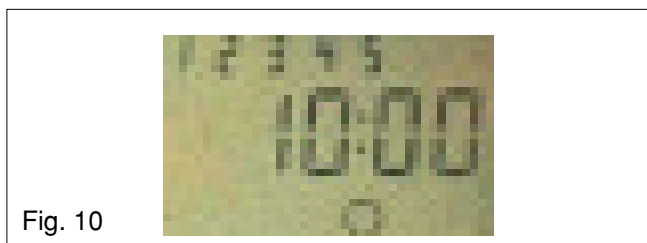


Fig. 10



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