Super Mk.II

User instructions

The code of practice for the installation, commissioning & servicing for central heating systems
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### VERY IMPORTANT!

PLEASE MAKE SURE YOUR LOG BOOK ENCLOSED IS FILLED IN CORRECTLY.

ALL CORGI REGISTERED INSTALLERS CARRY A CORGI ID CARD.

BOTH SHOULD BE RECORDED IN YOUR CENTRAL HEATING LOG BOOK.

YOU CAN CHECK YOUR INSTALLER IS CORGI REGISTERED

BY CALLING ON 01256 372300
OPERATING INSTRUCTIONS FOR THE USER

THE GAS SAFETY (INSTALLATION AND USE) REGULATIONS 1996. It is the law that all gas appliances are installed by a registered person, in accordance with the above regulations. Failure to install appliances correctly could lead to prosecution. It is in your own interest, and that of safety, to ensure that the law is complied with.

It is essential that the appliance is correctly earthed. An electricity supply of 240 V - 50 Hz fused at 3 A is required.

Read these instructions carefully before attempting to operate the appliance.

1.1 INTRODUCTION

The Sime “Super Mk.II” family is a fully automatic, wall mounted, room sealed, fan assisted range of combination boilers. When operating in winter mode, the appliance provides central heating as required and produces instantaneous hot water upon demand.

When operating in summer mode, the central heating is not operational however the appliance continues to supply hot water whenever it is required.

The heat output is automatically controlled by the fully modulating gas valve (within its pre-set limits), and there are user adjustable potentiometers to control the temperature of both central heating and domestic hot water.

A pressure gauge is fitted and an overheat thermostat is incorporated to protect against fault conditions.

1.2 APPLIANCE OPERATION

A demand of hot water will be sensed by the appliance detecting water flow (providing that the flow rate is above 2 l/m - 0.5 gal/min).

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1.3 OPERATING INSTRUCTIONS

1.3.1 To light the appliance (see fig. 1)

- Check that the electricity supply is off and that the D.H.W. isolation valve is in the open position (lever vertical). Check that the gas supply is on.
- Turn the rotary switch (C) to SUMMER (water only) position “ ”.
- Switch on the electricity supply and full open any D.H.W. tap. The burner will light.
- Check that the burner has lit by looking through the viewing window (F). If the burner fails to light, turn the rotary switch to “ ” position and release it immediately; then turn it to the SUMMER position: the burner should now light. Turn off the tap.
- Check that the room thermostat and time clock are calling for heat. Turn the heating potentiometer (D) to maximum (fully clockwise).
- Turn the rotary switch to the WINTER position “ ” and
the burner will light to serve the heating load. Set the required temperature for the C.H. and D.H.W. by rotating the potentiometers (D - E) clockwise to increase or anticlockwise to decrease the temperature.

NOTE: when operating in winter mode, priority is automatically given to providing hot water when the demand arises.

1.3.2 To turn the appliance off (see fig. 1)

- For short periods:
  Set the rotary switch (C) to OFF position. When required restore the switch to the SUMMER or WINTER position and turn on the D.H.W. isolation valve.

- For longer periods:
  Set the rotary switch (C) to OFF position and isolate the gas service cock.
  When required restore the switch to the WINTER or SUMMER position and turn on the D.H.W. isolation valve.
  Do not isolate the mains electricity or gas supply if frost stat is fitted and frost protection is required.

NOTE: when gas and electrical supplies must be turned off, the entire system should be drained, including the domestic water system.

1.4 MINIMUM CLEARANCES

The following MINIMUM CLEARANCES must be available for servicing the appliance:

<table>
<thead>
<tr>
<th>MINIMUM CLEARANCES</th>
<th>mm</th>
<th>in</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABOVE THE APPLIANCE CASING</td>
<td>200</td>
<td>8</td>
</tr>
<tr>
<td>AT THE R.H.S.</td>
<td>90</td>
<td>3 1/2</td>
</tr>
<tr>
<td>AT THE L.H.S.</td>
<td>5</td>
<td>1/4</td>
</tr>
<tr>
<td>BELOW THE APPLIANCE CASING</td>
<td>200</td>
<td>8</td>
</tr>
<tr>
<td>IN FRONT OF THE APPLIANCE</td>
<td>450</td>
<td>18</td>
</tr>
</tbody>
</table>

1.5 ROUTINE SERVICING

To ensure continued efficient operation of the appliance, it is recommended that it is checked and serviced as necessary at regular intervals.

The frequency of servicing will depend upon the particular installation conditions and usage but in general once a year should be adequate. It is the law that any service work must be carried out by a registered person (C.O.R.G.I.).

1.6 GENERAL INFORMATION

1.6.1 Appliance overheat thermostat

The appliance is fitted with a safety cut-out thermostat. In the event of overheating this will interrupt the power supply and prevent the appliance from functioning. If this occurs, allow the appliance to cool, turn the rotary switch to " " position and release it immediately, then turn it back to the previous position.

If the cut-out condition is repeated, turn off the electrical supply and consult your installer or service engineer.

1.6.2 Pressure gauge

The gauge [A fig. 1] on the facia panel indicates the approximate system pressure. If the normal running pressure is seen to decrease over a period of time there is a water leak and you should consult your installer or service engineer.

1.6.3 Electrical supply

The mains plug used must be a 3 pin type to BS1363, and fused at 3 A. THIS APPLIANCE MUST BE EARTHED.

NOTE: an interruption in the electricity supply whilst the burner is alight may cause the overheat thermostat to operate. If this is suspected, turn the rotary switch to " " position and release it immediately, then turn it back to the previous position.

TO CONNECT A PLUG

As the colour of wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- the wire which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol - or coloured green and yellow;
- the wire which is coloured blue must be connected to the terminal marked with the letter N or coloured black;
- the wire which is coloured brown must be connected to the terminal marked with the letter L or coloured red.

1.6.4 Setting the heating programmer

To set the heating timeswitch proceed as follows:

- the heating timeswitch is surrounded by 96 teeth, when pushed in, each one switches on the boiler for 15 minutes;
- push down the teeth corresponding to the HEATING ON requirements;
- set the clock to the correct time by rotating the dial clockwise until the arrow corresponds to the current time;

1.6.5 Ventilation

If the appliance is installed in a cabinet, the latter MUST NOT be used for storage purposes.

Any ventilation provided for the appliance during installation MUST NOT be blocked and a periodic check must be made to ensure that the vents are free from obstructions.

1.6.6 Cleaning

Use only a damp cloth and mild detergent to clean the appliance outer casing. DO NOT use abrasive cleaners.

1.7 SAFETY

It is essential that the instructions in this booklet are strictly followed for the safe and economical operation of this appliance. The appliance functions as a fan assisted balanced
flue unit.
The flue terminal MUST NOT BE OBSTRUCTED under any circumstances. If damaged, turn off the appliance and consult the installer, service engineer, or gas supplier. If it is known or suspected that a fault exists on the appliance it MUST NOT be used until the fault has been rectified by a competent person.

WARNING: IF A GAS LEAK IS SUSPECTED OR EXISTS, TURN OFF THE GAS SUPPLY TO THE APPLIANCE AT THE GAS SERVICE COCK. DO NOT OPERATE ANY ELECTRICAL SWITCHES. DO NOT OPERATE ANY ELECTRICAL APPLIANCE. OPEN ALL WINDOWS AND DOORS. DO NOT SMOKE. EXTINGUISH ALL NAKED LIGHTS. CONTACT THE GAS SUPPLIER IMMEDIATELY.

TIME CLOCKS

MECHANICAL 24 hr VERSION (Fig. 2)

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 time”
The “ON” periods are set by sliding the blue 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.

N.B.: 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.

DIGITAL 7 DAY VERSION (Fig. 2)

Setting instructions
The Sime digital timeswitch has, besides the normal group timing facility, capacity to programme individual daily settings. It has a total of 20 storage spaces for switching operations. Each space can be programmed as either an ON or OFF instruction, and can be applied to any one day or four day combinations.

Screen information
- Days of week .............. 1 2 3 4 5 6 7
- ON selection .......... 
- OFF selection .......... 
- Continuously ON ........ 
- Continuously OFF ........ 
- Winter/Summer time . . + 1 hr
- Timed mode ...........
- Override selection ....
- Programme spaces ..............
- Number of free spaces . . Fr
BEFORE PROGRAMMING

Press the reset button using a pencil or similar instrument. This clears the memory of unwanted information in readiness for programming. The reset button should be used in the event of local interference causing the timeswitch to appear to malfunction. Local interference dependent on location may be present from time to time.

SET CURRENT TIME AND DAY

1) Press and hold the " " button during operations 2 - 5 below.
2) Press the "Day" button to select the current weekday (1 = Monday, 2 = Tuesday etc.).
3) If setting in British summertime press the +/- 1h button once.
4) Press the "h" button to select the correct hour.
5) Press the "m" button to select the correct minute.
6) Now release the " " button - the colon between the hours and minutes will flash to indicate that the clock is running.

ENTERING THE SWITCHING TIMES

1) Press the "Prog." button to select the first free memory location.
2) Press the "Day" button to select the day or group of days required for switching to occur:
   You have a choice of day groups:
   1 - 7 [Mon - Sun], 1 - 6 [Mon - Sat], 1 - 5 [Mon - Fri], 6 - 7 [Sat & Sun], or any individual day.
   Each programme space automatically starts with the day selection 1 - 7. You can change this with the day button.
3) Press the "h" button to select the hour the switching is to occur.
4) Press the "m" button to select the minute the switching is to occur.
5) Press the " " button once to select an ON " " instruction, or twice to select an OFF " " instruction.
6) Press the "Prog." button to store your programmed information, and select the next free programme space.
   Or if you have finished loading the programme press the " " button which will save the programme and return the timeswitch to the current time display.
7) Programme further switching instructions as above.
8) Pressing the "Prog." button one additional time after you have finished programming displays the remaining number of programme spaces that are free, e.g. "Fr 12". If all programme spaces are full, "Fr OO" will appear.

IMPORTANT NOTE

After programming is completed, and you return the timeswitch to the current time display with the " " button, the timeswitch will not activate any switching instruction required for the current time. You may need to manually select the desired switching state with the " " button. Thereafter, as the unit encounters further switching instructions in the memory in real time, it will correctly activate all subsequent switching instructions.

MANUAL OVERRIDE

With the " " button you can manually operate the switch to switch ON or OFF outside the programmed times, or you can put the switch into a permanent ON or OFF condition. The first press the " " button advances the output to ON or OFF (" " or " " together with the " " symbol displayed to show that the programme has been overridden) without disrupting the programme sequence.

The second press fixes the output in the continuously ON " " condition. The third press fixes the output in the continuously OFF " " condition.

In either fixed condition, the timeswitch will only revert to the timed condition if you press the " " button once more.

READ OR CHANGE PROGRAMMED INFORMATION

Press the "Prog." button repeatedly to view each of your programmed instructions in the order in which they were programmed. You can stop to alter any of the instructions using the buttons as described in "entering switching times" above.

RUNNING RESERVE

In the case of mains electrical failure, the internal battery will ensure that the actual time of day continues to operate and that the automatic switching programme remains intact. The clock can be programmed completely even without mains supply, provided the battery back up is fully charged. (Charging time 70 hours approx.).

SUMMER/WINTER CHANGEOVER

- From summer to winter time:
  Depress the +/- 1h key once (symbol +/- 1h disappears from display).
- From winter to summer time:
  Depress the +/- 1h once (display shows +/- 1h symbol).

Alternatively you can follow the instructions described in "set current time and day" above.