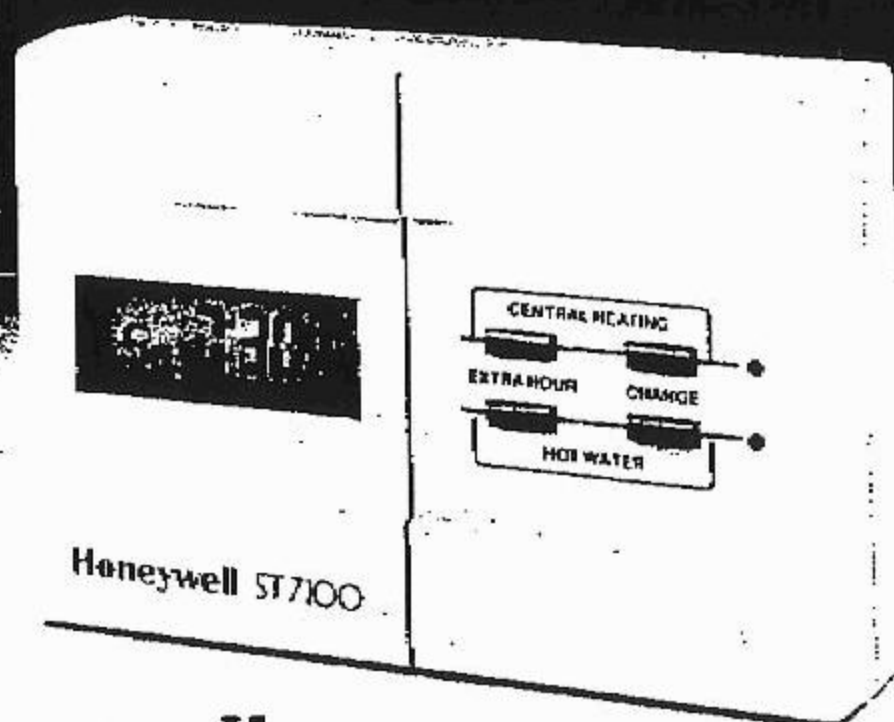


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USER GUIDE



1. Introduction

The ST7100 programmer embodies a new approach to the time control of Central Heating Systems. The ST7100 enables you to select one, two or three ON-OFF periods for Heating and up to three entirely separate periods for Hot Water.

As the pattern of domestic life tends to be different at the weekend, the ST7100 allows one selection of ON-OFF periods for Monday to Friday and another selection for Saturday to Sunday.

The EXTRA HOUR facility is an important additional feature. When either the Central Heating or Hot Water are off, pressing the EXTRA HOUR button switches the Central Heating or Hot Water on for just one hour.

If either the Central Heating or Hot Water is already on, pressing EXTRA HOUR extends the programmed ON time by one hour.

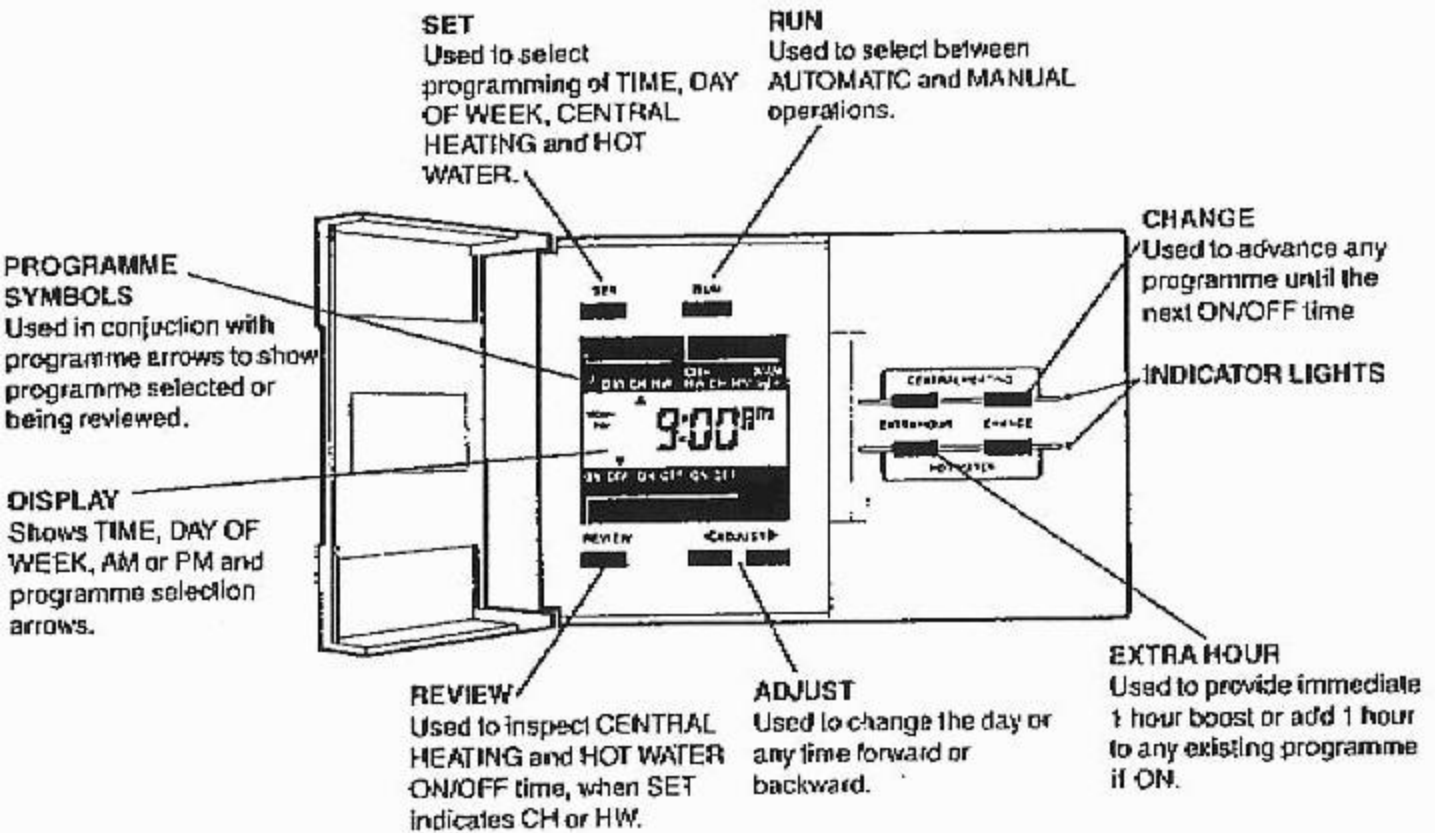
The ST7100 has a permanent, built-in programme, which is established when the batteries are first fitted. The ON/OFF switching times the built-in programme provides can easily be altered to suit your needs.

During a mains power failure, the ST7100 automatically switches to long-life support batteries. This ensures that the programmes and the correct time are not lost.

Honeywell

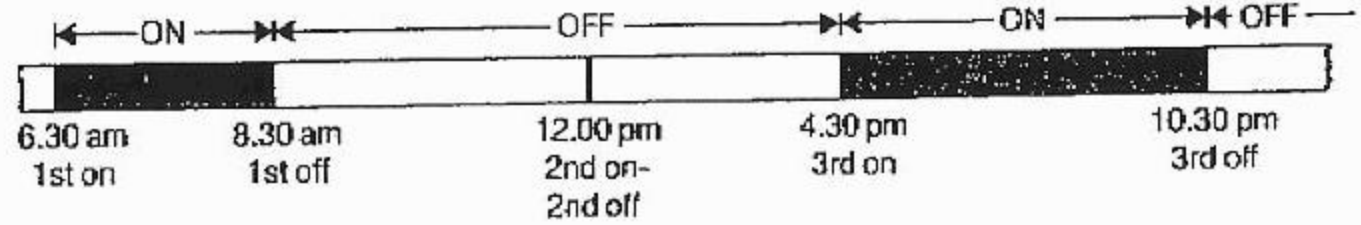
ST 7100

ELECTRONIC CENTRAL HEATING PROGRAMMER



3. The Built-in Programme

The ST7100 has a permanent built-in programme. This programme is re-established after changing the batteries. The programme is illustrated below.



It has the same ON/OFF times for the Monday-Friday programme and the Saturday-Sunday programme. The programme is also the same for both Central Heating and Hot Water. Notice that the middle ON-OFF period has not been used in the built-in programme. How to leave out an unwanted ON-OFF period is explained in "Programming the ST7100 — Before You Start".

The ON/OFF switching times of this programme can be altered to suit your own needs.

A chart is provided at the back of this guide to note the ON/OFF switching times of your own programme.

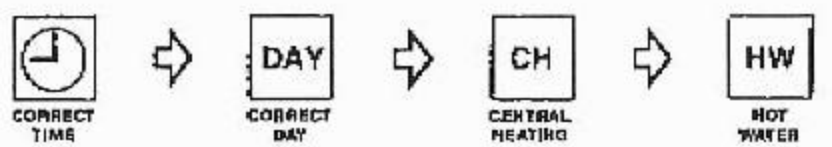
4. Programming the ST7100

BEFORE YOU START

To begin programming the ST7100, open the hinged cover.

The illustration on page 2 shows the different buttons and gives a brief description of their functions.

Programming your own ON/OFF times for Heating and Hot Water for the two parts of the week, has to be done in stages. The fixed order of these stages is shown below.



How to complete each separate stage is explained in steps indicated by red arrows

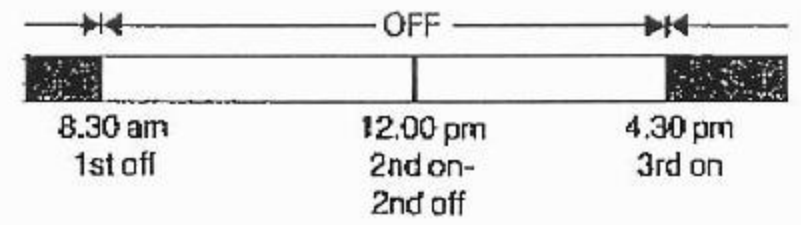
Pressing the button labelled SET will move a black arrow step by step along the white symbols at the top left of the display. These symbols indicate the programming stages mentioned earlier. Repeated pressing of SET will eventually return the arrow to

The rest of this section will explain how to programme your personal ON/OFF times, using the different buttons and arrows on the display.

Remember that the programming can only be carried out in the fixed order described, but you do not have to make a change if one is not wanted. You can simply carry on to the next stage using SET or REVIEW, as appropriate.

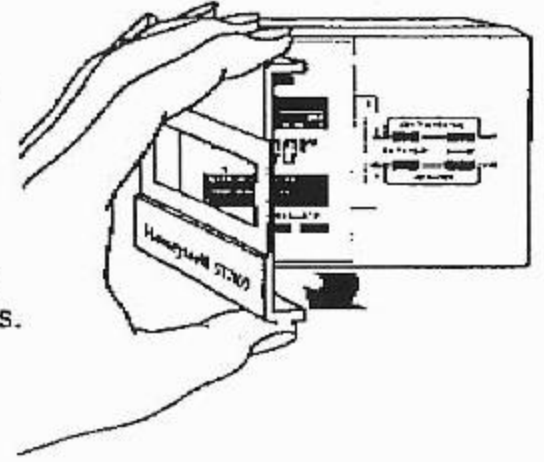
At any point during programming the ST7100, you can return to your preferred operating option by pressing RUN.

If only two of the three ON-OFF periods are required, it is recommended to use the first and the third ON/OFF periods. Leave out the second ON-OFF period by setting the ON and OFF times to the same time. Any time will do, but it must be after the first OFF time and before the third ON time.



The third OFF switching time (and only this one) can be set past midnight, if desired.

ON/OFF periods cannot be set to overlap. Should this be attempted, the time display will start flashing again, but at a faster rate.



SETTING THE CORRECT TIME



As you can see above, you are now starting the first stage of programming.

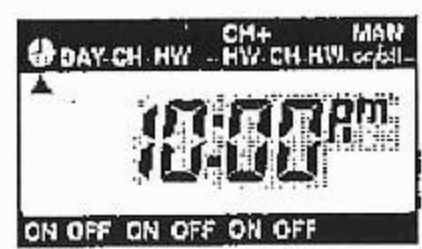
Press SET until the indicating arrow appears below at the top left of the display. The time display now starts flashing, to indicate you are ready to set the time.


Press ADJUST ▶ to adjust time forwards or ◀ ADJUST to adjust time backwards.

A brief press changes the time by one minute and holding the button down changes the time quickly.

Check the AM/PM symbol, to ensure that the time is set in the correct part of the day.

The flashing stops as soon as the first change to the time has been made.



NOTE: If no adjustment is made for five minutes the Programmer resumes automatic operation. To indicate this, an arrow appears below  at the top right of the display.

SETTING THE CORRECT DAY



You are now starting the second stage of programming, by setting the correct day (i.e. today).

Press SET until the indicating arrow points to DAY and two letters flash to indicate the day of the week (Su-Sunday, Mo-Monday etc).

Press ◀ ADJUST ▶ until the correct day symbol appears.



III. SETTING THE CENTRAL HEATING PROGRAMME



▶ Press SET until the indicating arrow appears below CH. the ^{MON-FRI} sign also now appears in the left hand side of the display.

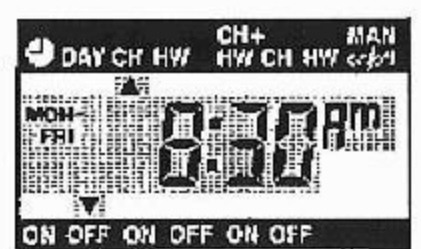
The first ON sign, at the bottom of the display, will be indicated by an arrow. The display will start flashing the first ON time.

You are now ready to alter the first ON switching time of the Mon-Fri programme.

▶ Press ADJUST ▶ or ◀ ADJUST to set the required ON time.

▶ Press REVIEW to move the lower arrow to the first OFF position. The display now flashes the first OFF time.

If the arrow accidentally moves a position too far, keep pushing REVIEW until the arrow is again at the required point. Check that the display then also shows the ^{MON-FRI} sign.



▶ Use ◀ ADJUST ▶ to set the required first OFF time.

▶ Press REVIEW to move the lower arrow to the second ON.

▶ Use ◀ ADJUST ▶ to set the second ON time. Repeat the last two steps for the remaining ON/OFF time.

You have now completed the Central Heating programme for Mon-Fri.

Now you have to programme the ON-OFF periods for Sat-Sun.

▶ Press REVIEW. The ^{SAT-SUN} sign appears in the left of the display and the arrow at the bottom left hand of the display again points to the first ON sign.

▶ Press ◀ ADJUST ▶ to set the required first ON time for the Saturday-Sunday period.

▶ For each of the other ON or OFF times, use REVIEW and ◀ ADJUST ▶, to change these times as required.

When you have set all your required ON/OFF switching times, you have completed the programme for the Central Heating.



SETTING THE HOT WATER PROGRAMME



This is the last stage in programming the ST7100.

Press SET until the indicating arrow at the top left of the display appears below HW. The **MAN on/off** sign also appears and a second arrow, at the bottom left of the display, points to the first ON.



From here the procedure to select the required ON/OFF times is the same as described previously in "Setting the Central Heating Programme".

After completing all the steps described here, you have programmed the ST7100 to provide Hot Water for MON/FRI and SAT/SUN at the times you selected. The programming of the ST7100 is now complete.

REVIEWING THE PROGRAMMES

- Press SET until the indicating arrow appears below symbol of programme to be reviewed.
- Press REVIEW repeatedly to run through selected times.
- Press RUN to return to automatic operation.

Operating the ST7100

THE OPTIONS

The ST7100 has three automatic operating options (these follow the times you have set) and one manual operating option. These four options are shown at the top right of the display and they are as follows:—

- | | | |
|---------------|---|-------------|
| CH+
HW | Central Heating and Hot Water are both switched ON and OFF according to the programmed switching times. | } AUTOMATIC |
| CH | Central Heating only is switched ON and OFF according to the programmed switching times. Hot Water can be operated manually ON and OFF using the CHANGE button or ON for just one hour using the EXTRA HOUR button. | |
| HW | Hot Water only is switched ON and OFF according to the programmed switching times. Central heating can be operated manually ON or OFF using the CHANGE button or ON for just one hour using the EXTRA HOUR button. | |
| MAN
on/off | Central Heating and Hot Water can be switched independently ON or OFF using the CHANGE or EXTRA HOUR buttons. | } MANUAL |

The RUN button, located under the hinged cover, is used to select the Central Heating or Hot Water operation desired.

Press the RUN button. An indicating arrow appears under one of the four signs at the top right of the display



The signs indicate the four operating options of the ST7100.

Press the RUN button until the indicating arrow is below the symbol for your selected operation.

The ST7100 will now provide Heating or Hot Water or both at the times you have selected.

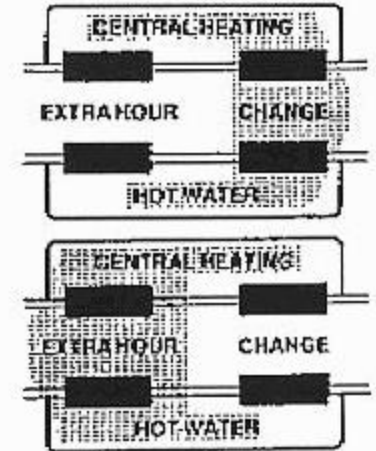


II. THE OVERRIDE FACILITIES

Two ways of overriding the programmes are provided: CHANGE and EXTRA HOUR.

CHANGE: The CHANGE button switches Central Heating or Hot Water on or off without altering the programme. This allows Central Heating or Hot Water to be switched on or off before any programmed time.

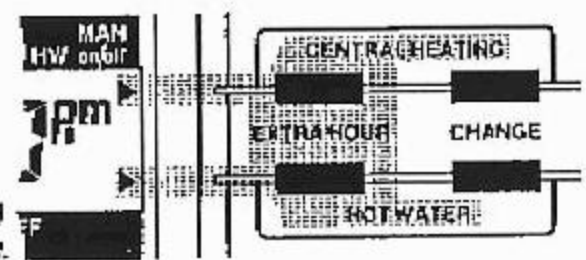
EXTRA HOUR: When the Central Heating or Hot Water is off, pressing the EXTRA HOUR button switches the Central Heating or Hot Water on for just one hour.



If CH or HW is already on, it extends the programmed ON period by one hour.

To cancel this feature at any time, press the appropriate EXTRA HOUR button a second time.

When the EXTRA HOUR feature is selected, an indicating arrow appears in the right-hand side of the display window.



6. Making Changes

Correcting the time — Follow the procedure in "Programming the ST7100 — i. Setting the Correct Time", Then use RUN to return to your preferred operating option.

Correcting the Day of the Week — Follow the procedure in "Programming the ST7100 — ii. Setting the Correct Day", then use RUN to return to your preferred operating option.

To change any particular ON or OFF switching time, use SET and REVIEW to reach the point in the programme you wish to alter, as described in "Programming the ST7100 — iii. Setting the Central Heating Programme". Use RUN to return to your preferred operating option.

When you go away.

If you are leaving your home for a period of time and wish to switch off your Central Heating system, press RUN repeatedly until the arrow points to **MAN**. The system will now remain off indefinitely.

Ensure you do not accidentally switch the system on by pressing one of the CHANGE buttons, because it will remain on permanently unless you press the same button again to switch off once more. Likewise, pressing EXTRA HOUR will immediately switch the system on, but for just one hour, after which it will switch off and remain off.

On your return, you can restore the system to normal time control by pressing RUN until the arrow points to your preferred operating option.

Mains Failure

If the mains supply fails, the time display goes blank and the indicating lights go out (if the ST7100 is on). The Central Heating and Hot Water system does not work because there is no electricity to operate the pump and boiler. The timing functions of the ST7100 are maintained under battery power. When the mains supply is restored, the clock displays the correct time and the programmes run as previously set, with no need for adjustment.

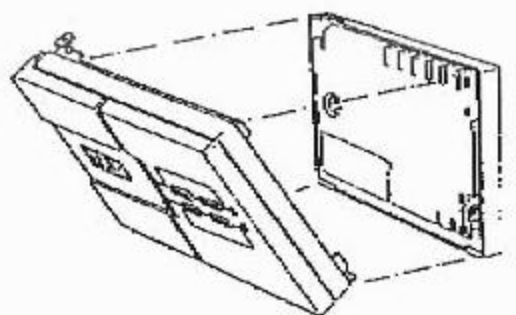
Changing the Batteries

The batteries will last for at least two years. A flashing BATTERY sign appears in the display window, indicating the need to replace the batteries at the earliest opportunity. The Programmer continues to run normally under mains power even when the batteries are flat. If the mains supply is then interrupted, even briefly, all programmes are lost. Before changing the batteries, make a note of all your preset programme times.



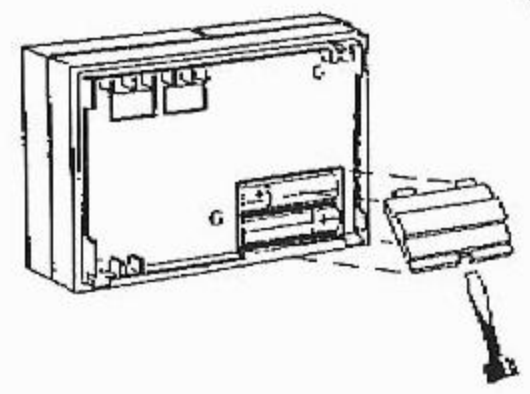
FIRST SWITCH OFF THE MAINS SUPPLY.

Slacken the screw on the top of the unit and lift away the front section. The batteries are located behind a lift-up cover on the reverse of the unit.



Release the cover by inserting a small screwdriver, nailfile or similar tool into the slot at the bottom and lever it up.

Replace with two long-life Alkaline AA size LR-6 batteries and relocate the cover.

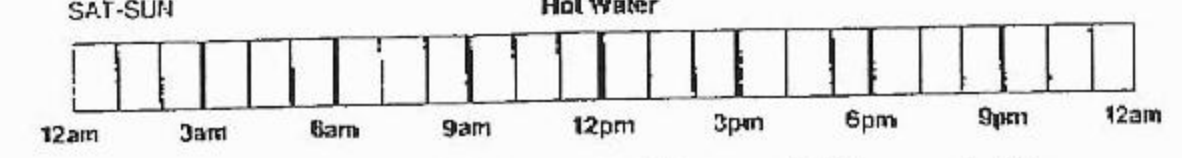
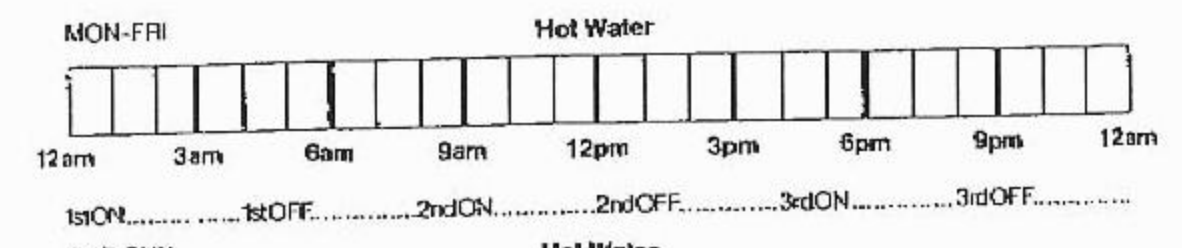
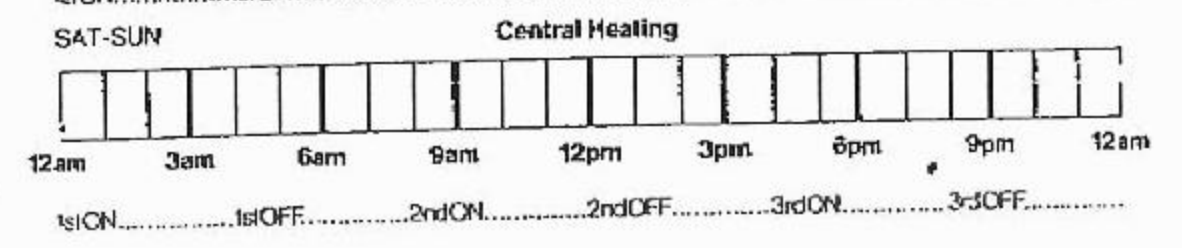
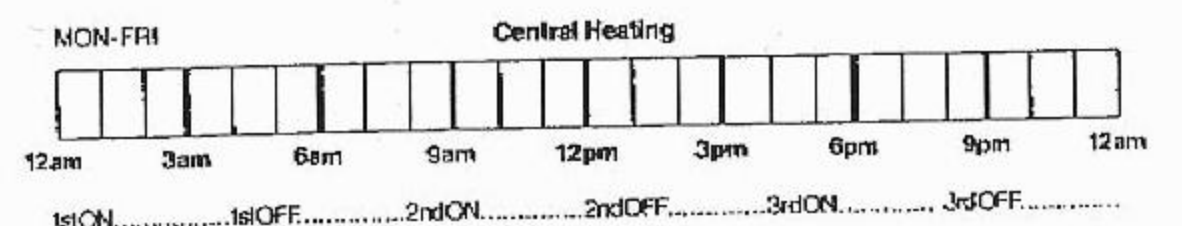


Re-assemble the unit and switch on the mains supply. The clock is reset to Mo (Monday) 12.00 pm and the built in programme is re-established.

Set the correct time, day of the week and all programmes.



10. Your own programme



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