



Customer's Guide

for the EP2001/EP3001 Electronic
Programmer.



POTTERTON



You have just had installed a quality product from Potterton International. We are confident that it will provide you with years of efficient service.

Please read this Guide carefully. It explains how to set the time control and how to make full use of the programmer's other features.

If you have any questions please contact the installer or your local Potterton Office (see the back page).

Please do not throw away this Guide—you may need to refer to it occasionally.

Thank you for choosing a Potterton programmer.

About the EP2001/ EP3001 and your system

The EP2001/EP3001 programmers will switch your central heating and hot water on and off at the times you have set in the programmer's memory.

If you have an EP2001 programmer then you can set the hot water and central heating to come on together for two time periods per day from Monday to Friday with different times for Saturday and Sunday if you prefer.

If you have an EP3001 programmer then you can set the hot water and central heating to come on together for two time periods per day with different times for each day of the week.

Special Features

■ When you wish, you can change your set times for any day using the touch keys underneath the cover flap below the display screen. You can also make temporary changes using the EXT and ADV keys without affecting the times you have set into the programmer's memory.

■ The EP2001 has weekday/weekend programming which allows you to automatically set times for CH and HW for weekdays Monday to Friday without having to copy them for each day—the programmer does it for you. You can also set different times for the weekend which the programmer will automatically run to for both Saturday and Sunday.

■ The EP3001 has daily programming which allows you to set different times for CH and HW for every day of the week.

■ A security lock switch on the back of the programmer can be used to prevent other people using the ADV, EXT and SELECT keys or from changing the times you have set into the programmer's memory.

Turn off the mains supply before removing the programmer from the mounting panel. Remember to turn on the mains supply again when you have replaced the programmer.

■ Both programmers have an electrical interlock to protect simple central heating systems which can only heat the radiators when the hot water is also on. If yours is a simple system, the electrical interlock will automatically cut out the programming facilities that your system cannot cope with. This means that the hot water is automatically turned on when the central heating is on.

Please note:

It does take time for the boiler to produce the required heating and hot water temperatures. So set the programmer to switch on, for example, half an hour earlier.

Other controls in your system (such as room, boiler and cylinder thermostats) may switch your boiler on and off. (Ask your installer to explain how they work.) So although the indicator light may show that the central heating is on, the boiler itself could be off.

The EXT and ADV keys on the left and right-hand sides of the display screen are used for making temporary changes to when your central heating or hot water will come ON or OFF.

These temporary changes will not affect the times you have set into the programmer's memory.

The PROG/RUN key is used when you wish to enter the programming mode, or when you wish to view the programs which are set in the programmer's memory.

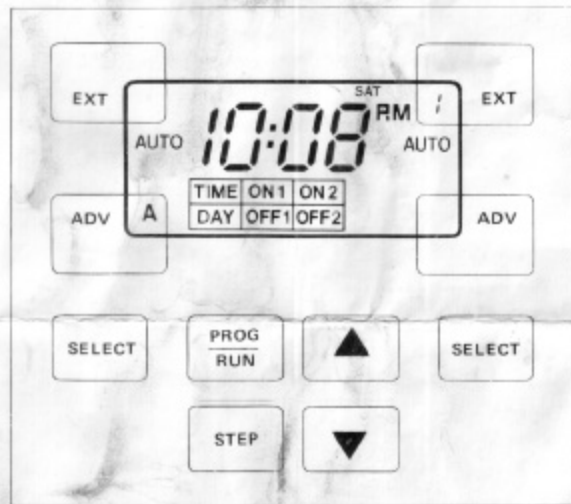
What the display screen shows you

The top of the display screen shows the day of the week.

The middle of the display screen shows the time of day or the program time setting.

When the PROG/RUN key is touched the bottom of the display screen will show the programming operation to be undertaken.

At each side of the display screen there is an indicator light. The left-hand light shows red when your central heating is on. The right-hand light shows red when your hot water is on.



The above display shows the programming options that appear when the PROG/RUN key is touched.

The programmer will beep each time you touch a key to show that it has carried out your instruction.

If it does not beep it may be because the programmer cannot carry out your instruction, e.g. you cannot use the SELECT key while you are programming.

What the touch keys do

There are two types of touch keys. The group of touch keys under the bottom flap below the display screen are used for setting the time of day and the ON and OFF times for the central heating and hot water.

The SELECT keys are used to set the number of times you wish the programmer to come ON and OFF in any 24 hour period.

How to set the programmer

You can set up to two time periods a day into the programmer's memory. They are called ON1 to OFF1, ON2 to OFF2.

The earliest time you can set is 12 a.m. (midnight).

The latest time you can set is 11.50 p.m.

If you set the same ON and OFF times they cancel each other out and you can put this to good use.

e.g. **If you have an EP2001 programmer** with CH or HW set to AUTO:

For weekdays you could set different ON1, OFF1, ON2 and OFF2 times to give you two CH or HW periods.

For weekends you could set OFF1 and ON2 to the same time to give one CH or HW period from ON1 to OFF2 (or you might even set all the times the same and then the central heating or hot water would be off all weekend etc.).

If you have an EP3001 programmer with CH or HW set to AUTO:

For Monday you could set different ON1, OFF1, ON2 and OFF2 times to give you two CH or HW periods.

For Tuesday you could set OFF1 and ON2 to the same time to give one CH or HW period from ON1 to OFF2.

For Wednesday you might set all the times the same and then the central heating or hot water would be off all day etc.

Setting the programmer for the built-in times

The programmer already has two time periods built into its memory which you can use if they suit your needs.

The built-in times for each day of the week are:

ON1 to OFF1: 6.30 a.m. to 9.30 a.m.

ON2 to OFF2: 4.30 p.m. to 10.30 p.m.

If the programmer time periods have not been altered since the programmer was first powered-up, then all you need to do to use the built-in times is to set the correct time of day and the day of the week.

It is also possible to reset the programmer to the built-in times if the time periods have been altered. To do this, you must first change the display so that it shows any ON or OFF time (see the instructions on How to Set the Time Periods). Now press the Hot Water 'SELECT' key and keep it pressed—then press the 'STEP' key and release it—and then finally release the Hot Water 'SELECT' key. The programmer time periods will now be reset to the built-in times.

Setting the correct time and day

To set the correct time, lower the flap on the front of the programmer, touch the PROG/RUN button and TIME will flash at the bottom of the display screen.

Press the forward ▲ or reverse ▼ keys until you reach the correct time. If you keep your finger pressed on these keys the displayed time will change slowly at first, then quickly.

When you have set the time, touch STEP and DAY will now flash at the bottom of the display screen.

Press the forward ▲ or reverse ▼ keys until the day you require is displayed at the top of the display screen.

If you have an EP2001 programmer, the following procedure tells you how to set the time periods for Monday to Friday/Saturday & Sunday

Touch PROG/RUN and the word TIME will flash.

If the time has already been set touch STEP and DAY will now flash. If the day has already been set touch STEP and ON1 will now flash and the middle of the display screen will now be showing the time ON1 is set to.

Use the forward ▲ or reverse ▼ keys to change the time for ON1 (the time moves in steps of 10-minute intervals).

When you have set the time for ON1 touch the STEP key and OFF1 will flash at the bottom of the display screen and the middle of the display screen will now be showing the time OFF1 is set to.

Use the forward ▲ or reverse ▼ keys to change the time for OFF1.

Set the times for ON2 and OFF2 in the same way.

After setting each time touch STEP to move on to the next ON or OFF time. The programmer will automatically run to the same times for Monday, Tuesday, Wednesday, Thursday and Friday. Touch STEP after setting OFF2 and Saturday and Sunday will be displayed at the top right-hand side of the display screen.

ON1 will be flashing, go through the procedure as before for setting the ON1 and OFF1 and ON2 and OFF2 times for Saturday and Sunday.

Press STEP after setting OFF2 for the second time, the programming sequence ends and the display screen reverts to the time of day set.

If you have an EP3001 programmer, the following procedure tells you how to set the time periods for each day of the week

Touch PROG/RUN and the word TIME will flash.

If the time has already been set touch STEP and DAY will now flash. If the day has already been set touch STEP and ON1 will now flash and the middle of the display screen will now be showing the time ON1 is set to.

Use the forward ▲ or reverse ▼ keys to change the time for ON1 (the time moves in steps of 10-minute intervals).

When you have set the time for ON1 touch the STEP key and OFF1 will flash at the bottom of the display screen and the middle of the display screen will now be showing the time OFF1 is set to.

Use the forward ▲ or reverse ▼ keys to change the time for OFF1.

Set the times for ON2 and OFF2 in the same way.

After setting each time touch STEP to move on to the next ON or OFF time. Touch STEP after setting OFF2 and the next day will be displayed at the top of the display screen.

Go through the procedure as before for setting the ON1 and OFF1 and ON2 and OFF2 times for each remaining day of the week.

Press STEP after setting the last OFF2 time, the programming sequence ends and the display screen reverts to the time of day set.

How to use the other touch keys

Using the advance keys

The advance keys (ADV) allow you to go forward to the next ON or OFF time. The key on the left advances CH. The key on the right advances HW. Simply touch the ADV keys once and your CH or HW will come on if they are off, or go off if they are on. An 'A' will appear next to the ADV key being used. The program will return to normal when the next ON or OFF time is reached. If you touch an ADV key and then change your mind, touch it again and the programmer will run to the set times again.

Please note: Using the ADV keys will not affect the times you have set in the programmer's memory. The change is only temporary.

Using the extend keys

The extend keys (EXT) allow you to extend a current ON period or switch your CH or HW on during an OFF period. The key on the left extends the period of CH. The key on the right extends the period of HW. Simply touch the EXT key and one hour will be added. Touch it again and a further hour will be added. You can add up to three hours of CH or HW. A '1', '2' or '3' will appear next to the EXT key being used. If you touch EXT a fourth time, the programmer will run to your original set times.

Please note: Using the EXT keys will not affect the times you have set in the programmer's memory. The change is only temporary.

Using the SELECT keys

By using the SELECT key you can turn your CH and HW off, run them on the times you have set in the programmer's memory, have them on once a day, or turn them on all day. The key on the left alters CH, the key on the right alters HW.

Touch the SELECT key and the option shown at the side of the screen will change.

Keep touching the key until the option that you want appears.

OFF ignores the time periods set in the programmer's memory.

AUTO allows your CH or HW to run to the times you have set in the programmer's memory.

ONCE allows your CH or HW to run once a day from the first ON time to the last OFF time.

CONT will turn your CH or HW on continuously. It will run for 24 hours every day.

Please note: Using the SELECT keys will not affect the times you have set in the programmer's memory.

The battery

If the electricity fails or is switched off, the battery in the programmer will maintain the set times for a minimum of 7 days. After that time you may have to reset the time. The battery will recharge automatically when the power is restored.

We recommend you change the battery every five years—spares can be bought from us.

Changing the battery

Diagram A and Diagram B

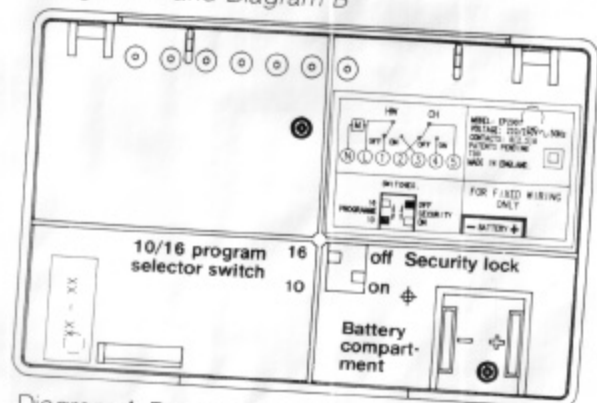


Diagram A Back view of the programmer

1 WARNING. DISCONNECT FROM THE MAINS IMMEDIATELY

To remove the programmer, insert a screwdriver into the rectangular slot in the groove at the bottom right-hand side of the keys.

Do not turn the screwdriver.

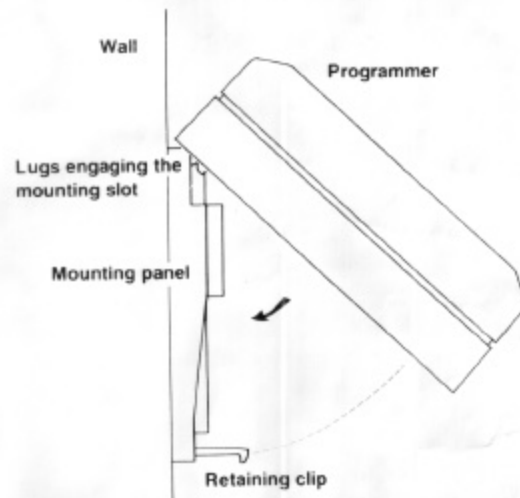
Use it to push up the retaining clip as you hinge the programmer slightly upwards.

Study the hinges so that you will be able to re-fit the programmer easily. Lift off the programmer.

2 Note the position of the old battery, then remove it. Clean the contacts in the battery compartment. Press in the new battery so that the battery's plus sign is next to the plus sign on the back of the programmer.

Please note: the new battery may have discharged during storage but will recharge when the programmer is connected to the mains supply.

Diagram B Side view of the programmer and mounting panel.



3 To re-fit the programmer:

- Fit the lugs on the back of the programmer into the slots at the top of the mounting panel.
- Hinge down the programmer. Make sure the programmer is firmly held by the clip.

Service and Parts Offices

Northern/Scottish Regional Service Office

8 The Gills, Otley, Leeds LS21 2AH. 0943-465636.

South Western/Midland Regional Service Office

Brooks House, Coventry Road, Warwick CV34 4LL.
0926-496896/7.

Southern Regional Service Office

10 Hardwicks Way, London SW18 4AJ. 081-870 4131.

Parts Department and Technical Services

Department

Brooks House, Coventry Road, Warwick CV34 4LL.
0926-493471.

All descriptions and illustrations in this leaflet have been carefully prepared but we reserve the right to make changes and improvements in our products which may affect the accuracy of the information.

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