



Bosch Group

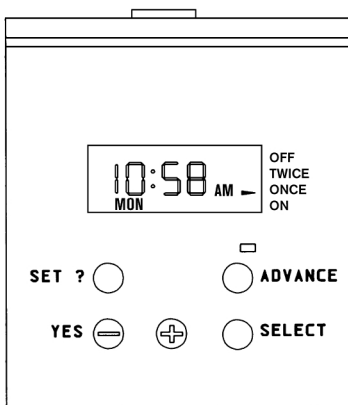
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DIGITAL SINGLE-CHANNEL PROGRAMMER

FITTING AND OPERATING INSTRUCTIONS

FOR GREENSTAR 27 HE COMBI & Si II SERIES

General information is given in the users instruction leaflet despatched with the appliance and/or on the lighting instruction plate fitted to the appliance.



CONFORMS TO THE ESSENTIAL REQUIREMENTS OF
THE FOLLOWING DIRECTIVES:

89/336/EEC - Electromagnetic compatibility

73/23/EEC - Low voltage Directive



THESE INSTRUCTIONS APPLY IN THE UK ONLY

THESE INSTRUCTIONS ARE TO BE LEFT WITH THE USER OR AT THE APPLIANCE

Gas Safety (Installation and Use) Regulations : All gas appliances must be installed by a competent person, in accordance with the above regulations. Failure to install the appliance correctly could lead to prosecution. The manufacturers notes must not be taken, in any way, as overriding statutory obligations.

IMPORTANT: Read these instructions carefully in order to get the best from your appliance.

WARNING: This appliance must be earthed and protected by a 3A fuse if a 13A plug is used, or, if any other type of plug is used, by a 5A fuse either in the plug or adaptor or at the distribution board.

PROGRAMMER

7 day single channel timeswitch. User maintenance is not possible.

CONTROL

One or Two ON and OFF periods can be chosen per day.

Programme times are set within a 23 hour 50 minute period.

POWER UP CONDITION

On power up, when the battery back-up has not been operational, the pre-set programme times will be in force:

	ON1	OFF1	ON2	OFF2
MON - FRI	6.30AM	8.30AM	4.30PM	10.30PM
SAT - SUN	7.00AM	9.00AM	4.00PM	11.00PM

To return the programmer to the standard programme and 12.00am MON press the SET and + buttons together.

BATTERY BACK-UP

Lifetime Lithium battery giving:

Display: 1 Hour min, 2 hour max every power loss.

Timekeeping: 7 hour min, 8 hour max every power loss.

Programme: 1.5 year min, 10 year typical.

TO FIT THE PROGRAMMER

WARNING: Switch off the power supply before starting work.

Remove the fascia cover plate by releasing the clip at the top and withdraw it from the front.

Present the programmer to the fascia and plug in the programmer connector into the four-way connection on the board. (Fig. 1).

Push the programmer into position ensuring that the lead is not trapped and that the clip has been properly engaged.

Switch on the power supply.

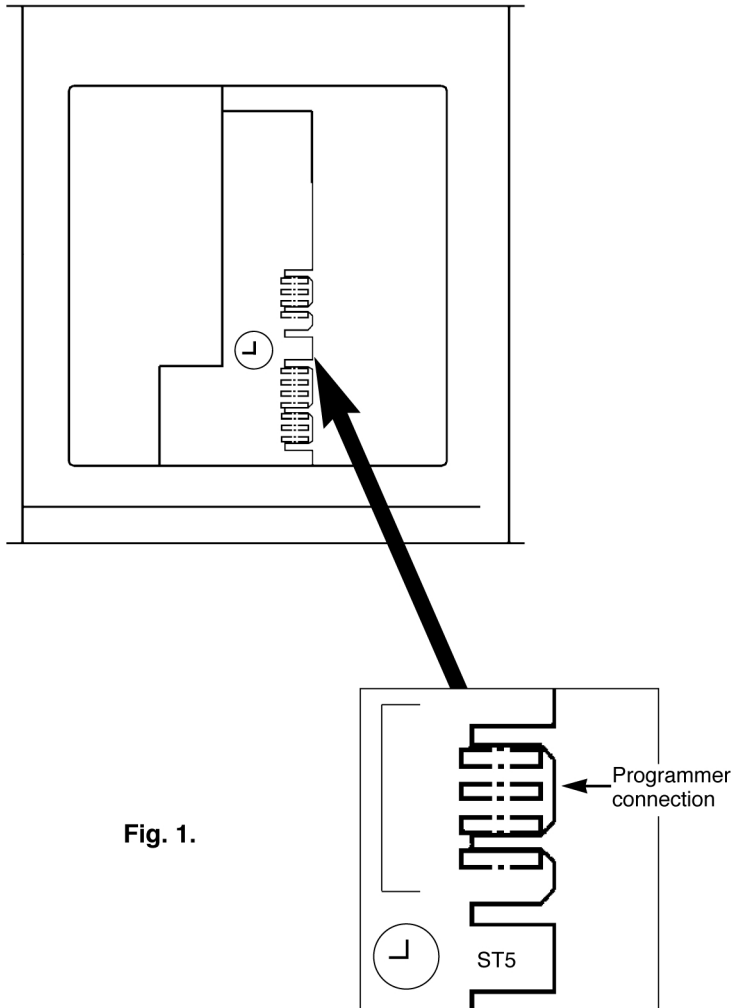
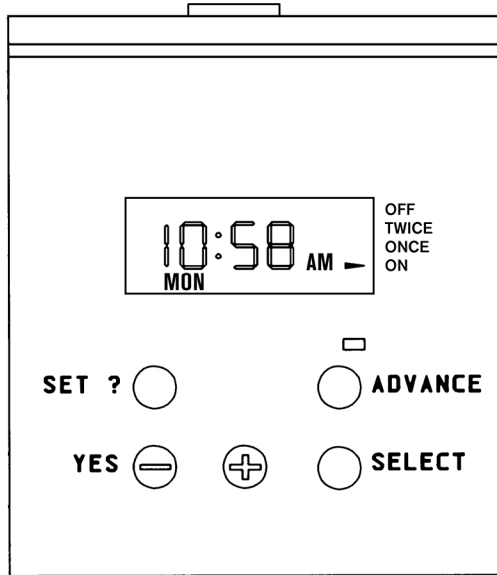


Fig. 1.

TO REPLACE THE PROGRAMMER
Follow the preceding instructions.



PROGRAMMER OPERATING INSTRUCTIONS

The programmer controls the operation of the central heating circuit. The domestic hot water is permanently available upon demand and will take priority over the supply of heat to the system during the demand. On 27 HE combi's the control system will periodically fire the boiler to maintain the temperature of the DHW heat exchanger. To de-activate the keep hot water facility, depress the eco mode button. A slight delay in the time taken to produce hot water should be expected.

Pressing the **SET** button repeatedly progresses you through the settings. To reset at any point the **YES** button must be pressed, followed by the **+** and **-** buttons as necessary.

NOTE: The **-** button is also the **YES** button.

Check that the gas supply to the appliance is **OFF** and that the room thermostat, if fitted, is at minimum to prevent the accidental operation of the appliance during the initial setting of the programmer. It is not necessary to do this when making adjustments to the programmer at a later date. Check that all taps and showers are shut.

Switch on the power supply.

TO SET THE CLOCK

Starting with the display showing the time of day press **SET**.

The display will ask **SET CLOCK ?**. If the clock display is not correct, press **YES**.

The display will show the current time and day with the day flashing.

Use the **+** and **-** buttons to change to the correct day. Press **SET** to lock in the day.

The display will show the hours flashing. Use the **+** and **-** buttons to set the hours (remember to take into account **AM** or **PM**), press **SET** to lock in the hours.

Repeat the actions to set the minutes.

The display will show **SET PROG?**.

TO SET THE PROGRAMME

If you wish to change the programme press **YES** otherwise press **SET** twice to return to the run mode with the standard programme.

If you pressed **YES** then the display will ask **SET MON-FRI PROG?**

If you want the weekday times to be the same press **YES**.

If you require a different time for each day press **SET** to access each day separately.

If you pressed **YES** then the display will show the first **ON** time for **MON-FRI**. Use the **+** and **-** buttons to change the time as necessary.

Press **SET** to access the first **OFF** time.

Use the **SET** and **+** and **-** buttons to go through the programme and change as necessary.

When you press **SET** after the second **OFF** the display will ask **SET MON PROG?**

If you wish set or modify the **MON** times use the **YES** button to access the times and the **SET**, **+** and **-** buttons to change as necessary.

You can access each day in turn by pressing the **SET** button and only if you wish to change anything should you press the **YES** button followed by the **+** and **-** buttons.

After Friday you have the chance to set **SAT** and **SUN** the same after which they are accessed individually.

Pressing **SET** after the display **SET SUN PROG?** or the last **SUN** off time will show **TEST?** on the display.

TO TEST THE PROGRAMME

The test feature enables you to quickly run through the programme which has been set and check that all is correct with both the programme and the system.

Pressing the **YES** button in response to **TEST?** selects the test mode.

Pressing and holding down the **YES** button starts the clock fast running until it reaches the first switching time when the output changes and the display halts to show the time of switching and the output state.

If you continue to hold down the **YES** button the display will continue to fast run, after a few seconds, until the next switching time.

If you stop pressing the **YES** button the unit will stay in that mode until the **YES** button is pressed again.

In this way you can run through the days programme or, if you hold down the **YES** button, the whole weeks programme.

Pressing the **SET** button, at any time, returns the unit to the normal run mode.

OPERATIONAL NOTES

Switching:

The switching options for the central heating are

- | | |
|--------------|--|
| OFF | Off all the time |
| TWICE | On for two periods each day |
| ONCE | On for one period each day (ON1 to OFF2) |
| ON | On all the time. |

Operation of the **SELECT** button moves the arrow to the option required.

Mixing Once or Twice Options:

To have the Central Heating twice on some days and once on others, programme the twice days as normal. For the other days set **ON1** and then **OFF1**, **ON2** and **OFF2** at the desired off time. Set the **SELECT** button to **TWICE**.

One Day Off:

If you want the appliance to be off on a particular day, set the relevant **ON1** and **OFF1** to the same time and the **ON2** and **OFF2** to the same time later in the day. Set the **SELECT** button to **ONCE** or **TWICE**.

Central Heating Shutdown:

Set the **SELECT** button to **OFF**. This does not affect the programme.

Advance:

Advance is only operational in the **ONCE** or **TWICE** modes and is cancelled at the next programme time.

Hot Water Supply:

Hot water is available whenever a tap or shower is turned on. The supply of hot water takes priority over the delivery of heat to the central heating system for the period that the hot water is required.

Temperature Control:

The **Central Heating** water temperature is controlled by the centre knob on the fascia.

The Domestic Hot Water Temperature is controlled by the right hand knob on the fascia.

Standard Programme:

To return to the standard programme press the **SELECT** and **+** buttons together.

TO LIGHT AND STOP THE APPLIANCE

Refer to the User operating instruction leaflet or the lighting instruction plate on the appliance.



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