

FITTING THE PROGRAMMER

If surface wiring has been used, remove the knockout/insert from the bottom of the programmer to accommodate it.
Loosen the two 'captive' retaining screws on the bottom of the Backplate. Now fit the programmer to the Backplate, ensure the lugs on the Backplate engage with the slots on the programmer.
Swing the bottom of the programmer into position ensuring that the connection pins on the back of the unit locate into the terminal slots in the backplate.
Tighten the two 'captive' retaining screws to fix the unit securely.
Then switch on the mains supply.



END VIEW OF CENTAURPLUS PROGRAMMER

UPON COMPLETION OF INSTALLATION PLEASE RESET THE PROGRAMMER.- DETAILED BELOW

RESETTING THE PROGRAMMER

On the CentaurPlus press SET and SELECT buttons together:
Then release the buttons and the programmer will return to preset factory settings.
The preset factory settings are illustrated on page 2 of the USER GUIDE.



**The unit can now be programmed to suit the User's requirements.
Please refer to the User's Guide provided.**

GENERAL INFORMATION

Before handing over the installation to the user, always ensure that the system responds correctly on all control programmes and that other electrically operated equipment and controls are correctly adjusted.

EXPLAIN HOW TO OPERATE THE CONTROLS AND HAND OVER THE USERS OPERATING INSTRUCTIONS TO THE USER.

SPECIFICATION C11 - C17

Contact type: Micro dis-connection (Voltage Free)
Contact rating: 3(1)Amps 230-240V AC
Power supply: 230-240V AC 50Hz
Operating Temperature range: 0°C to 40°C
Double insulated.
Dirt protection: Normal situations.
Enclosure protection: IP30
Purpose of control: Electronic time switch
Independently mounted control for surface mounting.
Operating time limitation: Continuous
Type 1 Action
Battery Reserve: 10 months continuous operation(minimum)
Case material: Thermoplastic, flame retardant

Dimensions: 150mm x 84mm x 29mm
Display: Liquid crystal
Clock: 12 hour AM/PM
Display time adjustment: 1 Minute steps
Switched time adjustment: 10 Minute steps
Programme selection: Auto, On all day, On constant, Off
Operating periods per day: Three
(Separate daily programmes for C17)
Override: 1 Hour Boost
Instant advance
Backplate: Industry Standard Backplate

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LEAFLET No P60490
ISSUE 4

**CENTAURPLUS C11 - C17
INSTALLATION INSTRUCTIONS**



HORSTMANN

Horstmann's CentaurPlus - Single Channel Programmers Offer up to three programmed operating periods per day with Boost and Advance control.

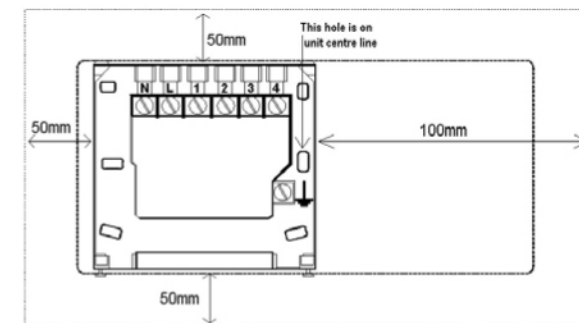
INSTALLATION AND CONNECTION SHOULD ONLY BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE IEE WIRING REGULATIONS.

WARNING : ISOLATE MAINS SUPPLY BEFORE COMMENCING INSTALLATION

FITTING THE BACKPLATE

Once the Backplate has been removed from the packaging please ensure the programmer is re-sealed to prevent damage from dust, debris etc.

The Backplate should be fitted with the wiring terminals located at the top and in a position which allows a total clearance of at least 50mm around the programmer.



DIRECT WALL MOUNTING

Offer the plate to the wall in the position where the programmer is to be mounted, remembering that the Backplate fits to the left hand end of the programmer. Mark the fixing positions through the slots in the Backplate(Fixing centres 60.3mm), drill and plug the wall, then secure the plate in position. The slots in the Backplate will compensate for any misalignment of the fixings.

WIRING BOX MOUNTING

The Backplate may be fitted directly on to a single gang steel flush wiring box complying with BS4662, using two M3.5 screws. CentaurPlus programmers are suitable for mounting on a flat surface only, they must not be positioned on a surface mounted wall box or on unearthed metal surfaces.

ELECTRICAL CONNECTIONS

All necessary electrical connections should now be made. Flush wiring can enter from the rear through the aperture in the Backplate. Surface wiring can only enter from beneath the programmer and must be securely clamped.

The mains supply terminals are intended to be connected to the supply by means of fixed wiring.

The recommended cable sizes are 1.0mm² or 1.5mm².

NEW INSTALLATIONS

Example circuit diagrams for some typical installations are shown below. These diagrams are schematic and should be used as a guide only.

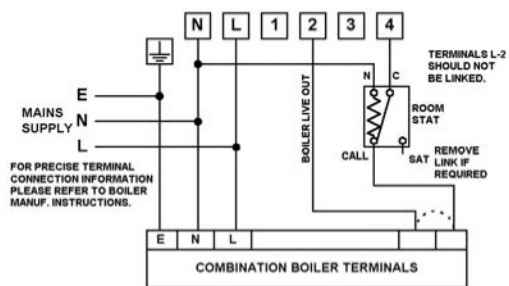
Please ensure that all installations comply with the current IEE regulations.

For reasons of space and clarity not every system has been included and the diagrams have been simplified, for instance some Earth connections have been omitted.

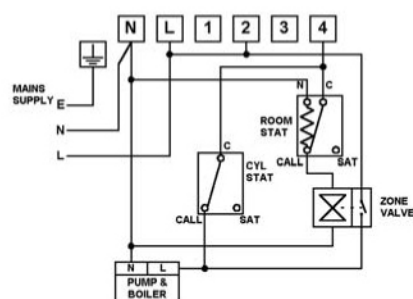
Other control components shown in the diagrams i.e. Valves, RoomStats etc are general representations only. However the wiring detail can be applied to the corresponding models of most manufactures e.g. Horstmann, Honeywell, Danfoss Randall, ACL Drayton etc.

Cylinder and Room Thermostat Key:

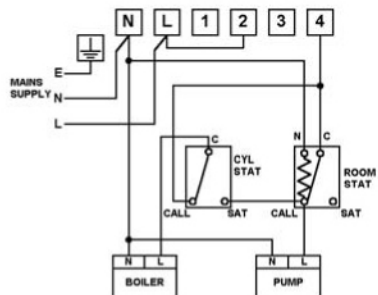
C = Common CALL = Call for heat or break on rise SAT = Satisfied on rise N = Neutral



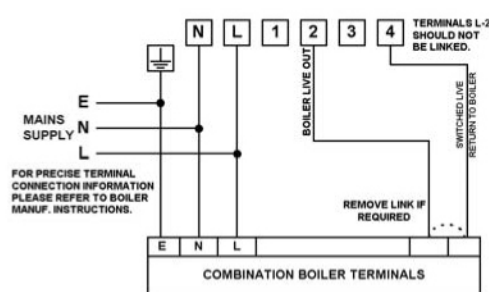
1. Typical combination boiler installation with RoomStat



2. Fully Pumped System with RoomStat and two port spring return valve (with auxiliary switch) on Heating circuit



3. Gravity primary with pumped Heating via RoomStat and CylinderStat



4. Typical combination boiler installation

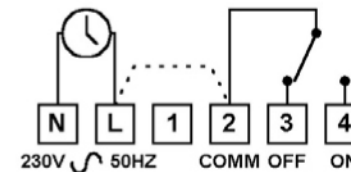
ELECTRICAL CONNECTIONS

CentaurPlus programmers are double insulated and do not require an Earth connection but an Earth connection block is provided on the Backplate for terminating any cable Earth conductors. Earth continuity must be maintained and all bare Earth conductors must be sleeved. Ensure that no conductors are left protruding outside the central space enclosed by the Backplate.

INTERNAL WIRING DIAGRAM C11 - C17

Your CentaurPlus has Voltage Free contacts.

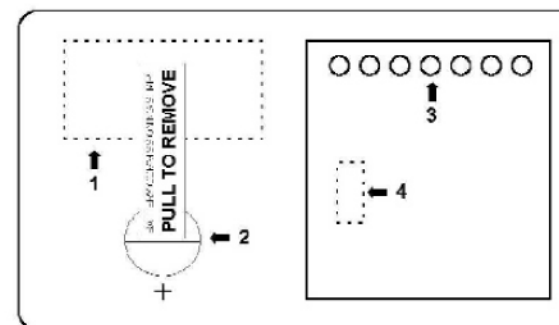
A link L - 2 is required for mains Voltage applications.



COMMISSIONING THE PROGRAMMER

Ensure all dust and debris has been cleared away from the work area before removing the programmer from its packaging. All CentaurPlus controls are fitted with battery reserve which will maintain programmed times in the event of a mains power failure.

REAR VIEW OF CENTAURPLUS PROGRAMMER



- 1 - RATINGS LABEL
- 2 - BATTERY
- 3 - CONNECTOR PINS
- 4 - PRODUCTION DATE LABEL

BATTERY RESERVE

The Battery must be commissioned prior to fitting the control to the Backplate. This is achieved by the means of a COMMISSIONING STRIP situated on the back of the unit. Pull out the battery commissioning strip at the back of the programmer and re-insert the Battery, the reserve is now activated. When the programmer is running on battery reserve the clock display will disappear. This is to prolong the life of the battery.

BATTERY

The programmer is fitted with a non-rechargeable, long life battery, which will maintain the programmed time settings for a minimum of ten months with the supply disconnected. THIS SHOULD BE SUFFICIENT TO COVER POWER INTERRUPTIONS DURING THE LIFE OF THE UNIT. During power interruptions the display will be blank, after 3 days the current time of day will be lost. These measures are to prolong the battery life.

SERVICE AND REPAIR

This programmer is NOT user serviceable. Please do not dismantle the unit. In the unlikely event of a fault developing please refer to the RESETTING THE PROGRAMMER section of this user guide located on page 2. If this fails to resolve the problem please contact a local heating engineer or a qualified electrician.

QUESTIONS AND ANSWERS

The unit display has become frozen	This could be due to local electrical interference. Using the RESET procedure may rectify the fault.
The indicator neon fails to illuminate	Using the RESET procedure may rectify the fault. If the problem persists the programmer will need replacing.
The indicator neon will illuminate but the pump and/or boiler fails to operate	This may indicate a problem elsewhere in your system; E.g. A zone valve, etc. please contact a registered installer for advice.
There is no display on the programmer	Try the RESET procedure on page 2, if this fails to rectify the problem please have the mains supply checked
How do I know if the programmer is still under warranty	The CentaurPlus range comes with a 2 year guarantee from the date of manufacture. This date is located on the rear of the unit, indicated by a month over a year
How is the programmer removed from the wall	WARNING: The CentaurPlus programmer must only be removed from it's backplate by either a qualified electrician or heating engineer; The programmer plugs in to a 6 pin backplate located on the rear of the unit and is secured using 2 screws located on the bottom surface of the unit. Undo these screws and pull forward and up in an arc motion

CENTAURPLUS C17
USER INSTRUCTIONS



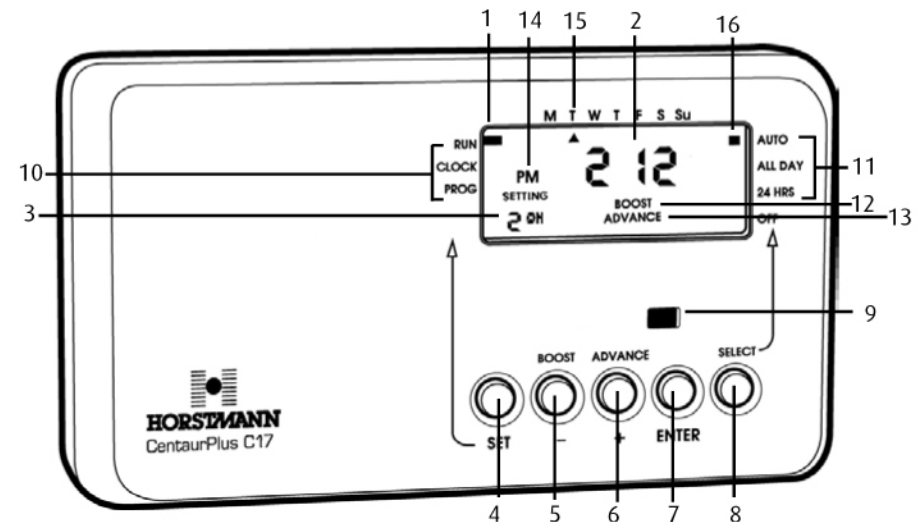
HORSTMANN

Horstmann CentaurPlus - Single Channel Programmers Offer up to three programmed operating periods per day, seven days a week, with Hot water Boost and Heating Advance control on a fully pumped system.

The following are some of the easy to operate features:-

- 1 Hour Boost
- Flexible 7 Day Control
- Advance gives instant On/Off override
- Up to 3 On/Off periods per 24 Hour operation.
- Programme options: Auto / All day / 24 Hours / Off

FRONT VIEW OF PROGRAMMER



- 1.SET indicator
- 2.Time of day
- 3.Switch Period symbol
- 4.SET Button
- 5.BOOST or adjust (-) button
- 6.ADVANCE or adjust (+) button
- 7.ENTER Button
- 8.SELECT or COPY button

- 9.System ON indicator
- 10.SET positions
- 11.PROGRAMME positions
- 12.BOOST symbol
- 13.ADVANCE symbol
- 14.AM/PM symbol
- 15.Day of week indicator
- 16.PROGRAMME indicator

RESETTING THE PROGRAMMER

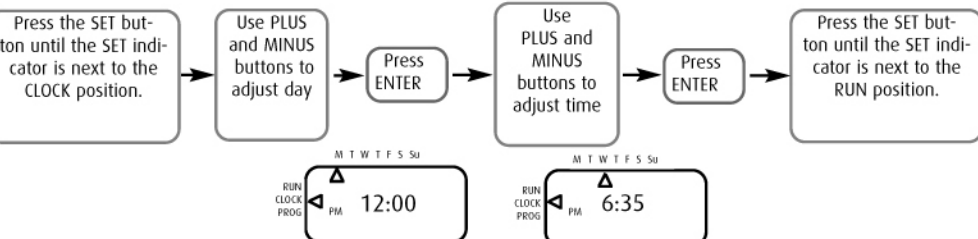
Electronic equipment can in some circumstances be affected by electrical interference. If the programmer's display becomes frozen or scrambled; or if you wish to revert back to the default time settings please use the following procedure.

Press the SET and SELECT buttons together then release the buttons and the programmer will return to preset factory settings.



The simple instructions below are designed to help with the programming of the unit.

SETTING DAY AND TIME OF DAY

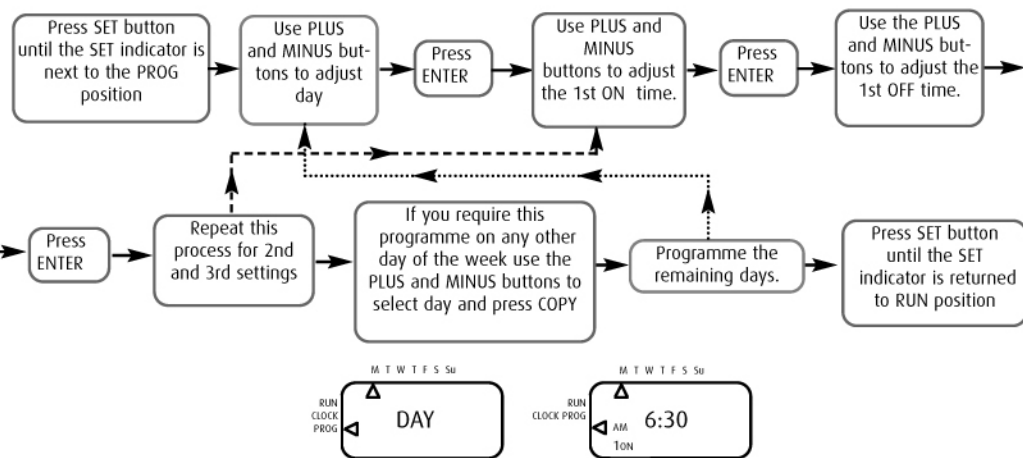


DEFAULT TIME SETTINGS

	1st ON	1st OFF	2nd ON	2nd OFF	3rd ON	3rd OFF
MON-FRI	6:30 AM	8:30 AM	12:00 PM	12:00 PM	4:30 PM	10:30 PM
SAT/SUN	7:30 AM	10:30 AM	12:00 PM	12:00 PM	5:00 PM	11:00 PM

The default factory settings are shown, however if you wish to change these proceed as instructed below.

SETTING THE ON AND OFF TIMES



Should you encounter any problems, please refer to the Question and Answer section located on page 4.

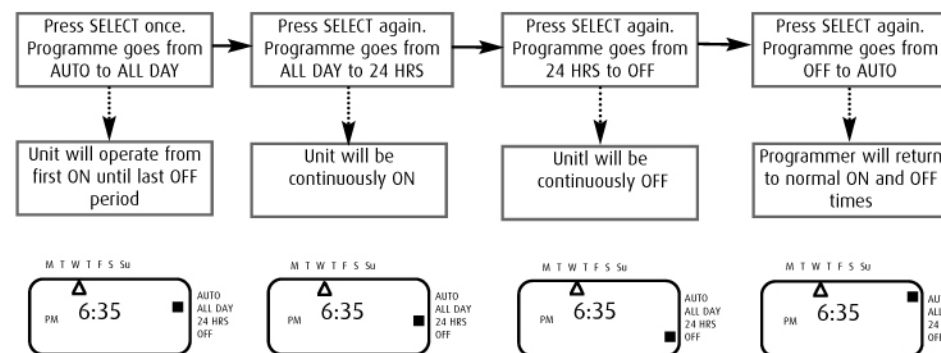
INFORMATION AND ADVICE

Programming ON/OFF times

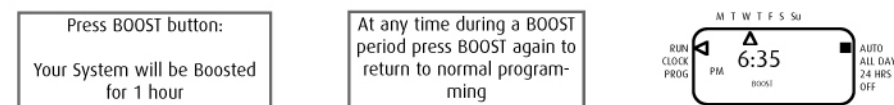
If a period is not required it can be cancelled by setting the ON and OFF settings to the same time. Example ON 10:00am OFF 10:00am

SPECIAL FEATURES

The SET indicator must remain in the RUN position for the following instructions.



BOOST FUNCTION - 1hour temporary override



ADVANCE FUNCTION - Brings forward next on or off operation

