2.5mm

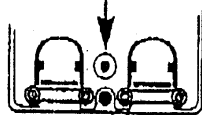Place the keyhole slot ⊖ (in back of unit) over the screw head and pull the unit downwards. Align the unit vertically and mark the wall through the recessed hole in the bottom of the unit.
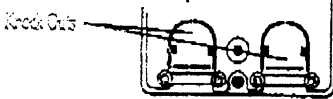
7. Remove the unit and at this third mark drill and plug as before.
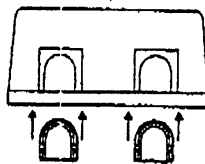
8a. For Bottom Cable Entry
Replace the unit over the first screw head and screw home the second screw through the recessed hole.

8b. For Rear Entry Cable
Carefully remove knock-outs from the rear of the unit and use the knock-outs to block off the bottom cable entry holes.

Knock-Outs

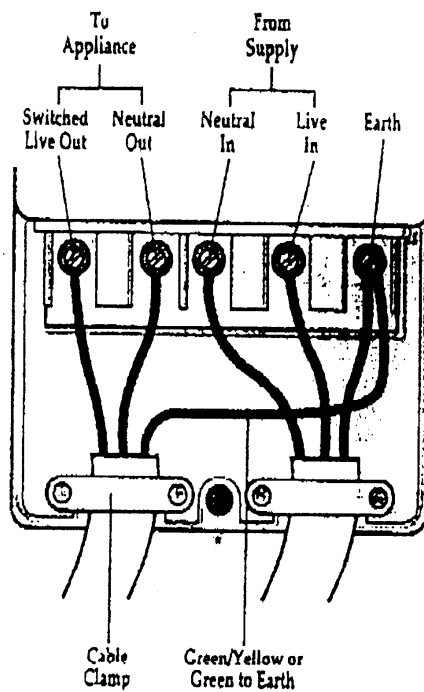Knock-outs slide into bottom cable entry holes.

If required only one knock-out can be removed giving rear cable entry and bottom cable exit.

Fix the unit to the wall as in 8a above after guiding cable tails through the knockouts.

Switch off/isolate mains electricity supply.

Wire in accordance with the cable plan below.

	To Appliance		From Supply	
Switched Live Out	Neutral Out	Neutral In	Live In	Earth

Cable Clamp   Green/Yellow or Green to Earth

For bottom cable entry use the cable clamps provided to grip the cable outer and provide strain relief.

Important: Earth continuity must be maintained, connect cable earths to the earth terminal marked ⊕

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1 To Reset Before Programming
(To alter clock time or modify programmes - see section 5)

To clear programmes from memory and reset the ETU2000 press and hold down both buttons until the display goes blank. Release buttons and display will fill with its complete range of characters and then clear to show clock and hour digit flashing. This procedure is essential with a new ETU2000 and is recommended if major reprogramming is required subsequently.

You are now in the clock setting mode at the beginning of the programme sequence

Programming sequence

Setting clock			Programme 3 ON
Programme 1 ON			Programme 3 OFF
Programme 1 OFF			Programme 4 ON
Programme 2 ON			Programme 4 OFF
Programme 2 OFF			Operating Mode

Note: Pauses between button presses greater than 1 minute during programming will result in automatic return to the operating mode.

2 Setting Clock (after reset)

i Hour Setting - Press the <Change> button to advance the hour setting. For rapid hour selections press and hold down <Change> button.

ii Minute Setting - Press the <Program> button briefly to select the minutes - display shows clock symbol and minute digits flashing. Press the <Change> button to advance the minutes setting. For rapid minute selection press and hold down <Change> button.
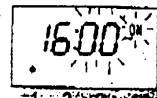(Note: 16 hours shown as example of hours set)

iii Press <Program> button briefly - clock is now set and display shows ready for the first programme ON time with ON and hours digits flashing.

3. To Set Programme ON/OFF Times
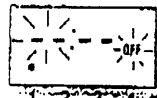*(after clock setting)*

i Press <Change> button to advance the hour setting for the first programme ON time.

ii Press <Program> button briefly to select minutes - display shows minute digits and ON flashing. Press <Change> button to advance minutes setting. (Note: 16 hours shown as example of hours set).

iii Press <Program> button briefly - the first ON time is now set and display shows ready for the first OFF programme time.

iv Now set the hours and minutes as before.

v Repeat steps i to iv to set the remainder of the 3 programme ON/OFF times as required. Note: Any unused ON/OFF programmes must be left blank and should be skipped by pressing the <Program> button until the display shows normal operating mode. Do not programme '0's into unused programmes.

IMPORTANT After setting a clock time which falls within a programmed ON period, the unit will not switch ON. Press the <Change> button to switch the ETU2000 ON. After this the unit will operate normally to the programmes set.

4. Programme Review

To fast review the set programmes or for quick exit to normal operating mode - press and hold down the <Program> button.
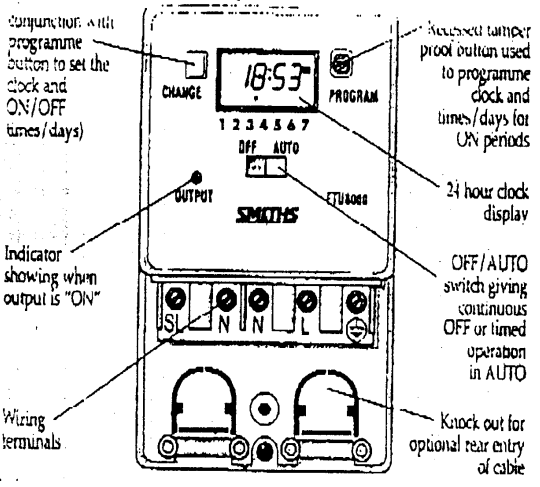Normal review can be carried out by pressing the <Program> button briefly which reviews the clock time with the whole display flashing. Further brief pressing of this button reviews the programme ON and OFF times in sequence again with the whole display flashing.

5. Initiating Programme Mode

This is required when making changes to the clock time or programme times and can be initiated any time during the normal operating mode. Press the <Program> button briefly and the clock symbol, hours and minutes symbols on the display will flash - this is review mode. Further brief pressing of the <Program> button will display the ON and OFF programmes in sequence. Having reached the clock or programme time requiring change, press the <Change> button briefly to initiate programme mode and then follow steps 2 and 3 as required. Having completed the change press and hold down the <Program> button until normal operating mode is reached and then release.

ETU2000/ETU3000 (2)

Indicator showing when output is "ON"

CHANGE (conjunction with programme button to set the clock and ON/OFF times/days)

Recessed tamper proof button used to programme clock and times/days for ON periods

24 hour clock display

OFF/AUTO switch giving continuous OFF or timed operation in AUTO

Wiring terminals

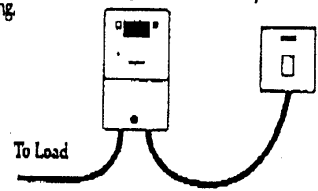Knock out for optional rear entry of cable

The ETU2000 and ETU8000 provide economical and convenient control of immersion heaters. They have a permanent OFF control for holidays and when alternative heating is available. The products are designed primarily for retrofit part way along the flying lead to an immersion heater from a switched connection unit, but also have knock outs to accept rear entry cables. The ON status is indicated by a light emitting diode (L.E.D.) - helpful in dark locations.

The ETU8000 is a 7 day timeswitch with up to 6 programmable ON periods each allocatable over all 7 days, 5 weekdays, 2 weekend days and individual days. It has an override but no boost feature.

The ETU2000 is a 24 hour Immersion Heater Timeswitch with up to 4 programmable ON periods per day. It has the capability to give 1 or 2 hours boost at the push of a button.
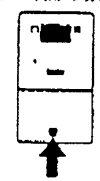
Installation should be carried out by a competent DIY person. If in doubt consult a qualified electrician.

1. Locate unit on a flat surface between switched supply and load. The location chosen should be accessible enough to enable clock adjustment and re-programming.
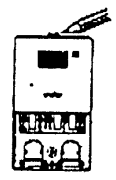

To Load

The local switch shown above (because it is usually present in retrofit situations) is not necessary to meet the IEE wiring regulations. The switch on your consumer unit or switch-fuse gives adequate isolation.
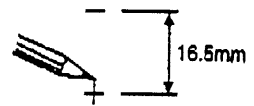
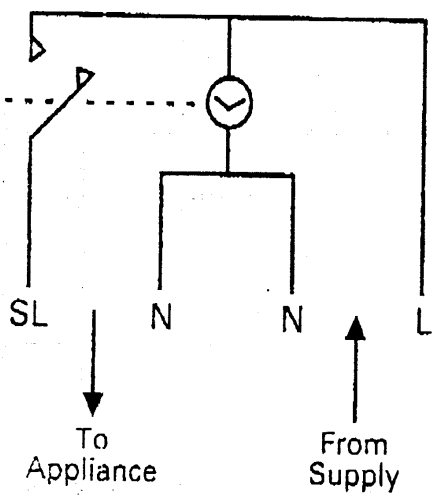2. Remove terminal cover screw and terminal cover.

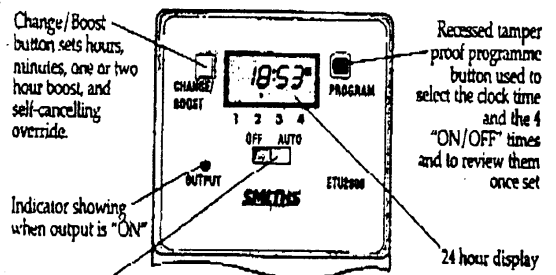3. Place unit in required position and mark the wall at the centre of the top side.

4. Measure down from this mark 16.5mm and make a second mark. At this second mark drill a hole and fit a wall plug suitable for a No. 6 woodscrew. (Screw and plug not supplied.)

16.5mm

Circuit Diagram

SL   N   N   L

To Appliance   From Supply

ETU2000 Programming Instructions

Change/Boost button sets hours, minutes, one or two hour boost, and self-cancelling override.

Recessed tamper proof programme button used to select the clock time and the 4 "ON/OFF" times and to review them once set

Indicator showing when output is "ON"

24 hour display

OFF/AUTO switch giving continuous OFF or timed operation in AUTO

Battery
This product has a factory fitted rechargeable battery. If the ETU2000 is left with its mains power switched off for more than 1 month the display may go blank. In this case, switch mains on, wait 30 minutes, and apply reset - see 1 before programming.

Programming
Only two setting buttons are required, <Change> and <Program>. The <Program> button is recessed to prevent inadvertent programme change and requires a pen or similar implement to operate it. In normal use the <Change> button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the <Change> button is used to set the hours and minutes. The <Program> button is used to select the clock time or the 4 programmed ON/OFF times and to review them once they have been set. Each time the <Program> button is pressed the display will flash either the hours or minutes in turn, starting with the clock then the first ON time, first OFF time, second ON time etc. Wherever the hours or minutes are flashing they may be set using the <Change> button. Once set the <Program> button is pressed again to proceed to the next stage.

Normal Operating Mode
In normal operation the unit will display the correct time with the colon flashing. The output status will be shown by either ON or OFF on the display.