

TB121

Applies to models:

Powrtrol



www.powrmatic.co.uk

Instruction for replacing a spares Diehl Digital Clock.



General Information

The Powrmatic Powrtrol utilises a simple easy to operate digital timer.

The original Diehl 884 timer has been replaced with a Diehl Variotime 16124 which utilises the same fixing, wiring connections and

programming configuration as its predecessor.

This bulletin describes both the installation and programming procedure required to function the timer.



fig.1 Powrmatic Powrtrol

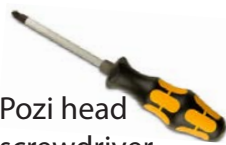


fig.2 Diehl Digital Timer

Tools required



Small flat head screwdriver



Pozi head screwdriver



Thin Nosed Pliers



1 x Digital timer # 143000408 including clear cover and two fixing clips.
Technical bulletin (TB121)



WARNING: Always switch off and disconnect electricity supply before carrying out any servicing or replacement of failed components.

Replacement of existing timer.

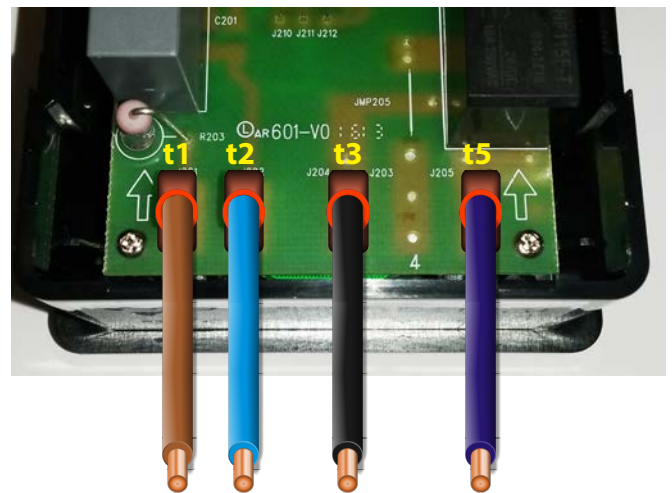
1. On Powtrol units, remove the two fixing screws and open the controller door.
2. Gently remove the four cables connected to the existing timer.
3. Using a small flat screwdriver, release the two side clips and withdraw.



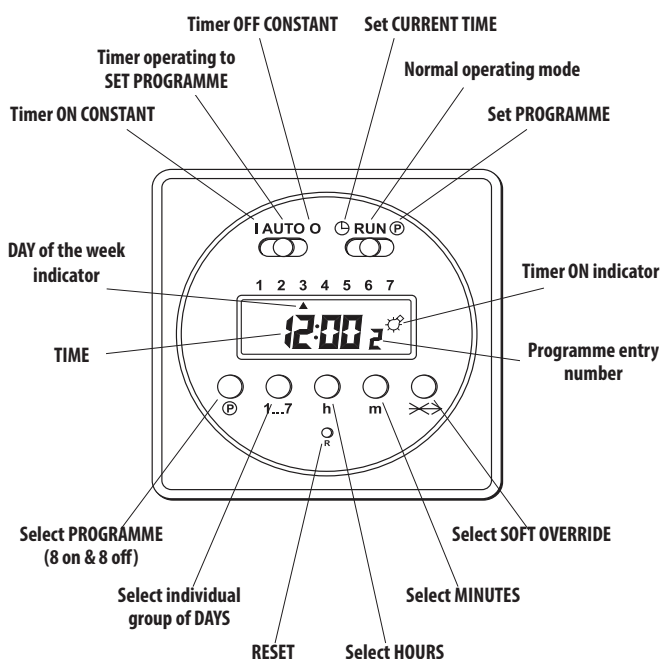
4. Replace new timer in same position.
5. Push the side clips into position ensuring a tight fit with controller door.



6. Refit cables to timer as per diagram below.




Programming time switch








Access to the Programme Dial for Time Setting

To gain access to the programme dial for timer setting, remove the clear plastic cover.

To prepare the module for programming clear the memory by pressing the button marked .











Setting Day of Week and Time of Day.

- Select CLOCK 
- Set current DAY by pressing  button (a black triangle indicates the day Monday=1; Sunday=7).
- Set the current time of day (24hr clock) using the   buttons. (Rapid selection can be achieved by continuously holding down for more than 3 seconds. Finally select RUN 




Planning a Programme


A programme is a **pair** of **ON** & **OFF** settings which will dictate when the heater will switch **ON** or **OFF**. Up to 8 **ON** & **OFF** settings may be programmed. Odd numbers are programme '**ON**' and indicated by a ☀ symbol, even numbers are programme '**OFF**'.

Setting a Programme

- Select **PROGRAMME** 
- Set the first switching **ON** time - programme 1 using the   buttons.
- Set day or group of days using the  button. (Individual or multiple days can be programmed by repeated pressing the  button.)
- Press the  button to confirm programme 1 and forward to first **OFF** time - programme 2.
- Set the first switching **OFF** time - programme 2 using the   buttons.
- Set day or group of days using the  button. (*this must match the previous ON entry*)
- Press the  button to confirm programme 2 and forward to first **OFF** time - programme 3.


- Continue until programmes are complete.

Programmes can be reviewed by pressing  button repeatedly. Individual programmes may be deleted by pressing and holding the  and  buttons together.


- Select  when all required programme times have been entered. (there is no need to go through all non used programmes).


The clock and programme settings are now complete.


Programme Override

Under programming operation, the button will be in the centre position .

There are three facilities for override:

Constant ON. Select . The air heater will operate in a constant ON state but dependent on thermostat temperature.

Constant OFF. Select . The air heaters will not operate unless in a frost condition.

Soft override. Select  at any time will change the current status to it's opposite i.e. On to Off. Timer will revert back to normal operation at the next switching time.

Prog No.	Status	Day(s)	Time	Prog No.	Status	Day(s)	Time
1	ON ☀			2	OFF		
3	ON ☀			4	OFF		
5	ON ☀			6	OFF		
7	ON ☀			8	OFF		
9	ON ☀			10	OFF		
11	ON ☀			12	OFF		
13	ON ☀			14	OFF		
15	ON ☀			16	OFF		

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Every effort is made to ensure accuracy at time of going to press. However as part of continued product improvement, we reserve the right to alter specification without prior notice.