

Shower Timer

INSTALLATION INSTRUCTIONS

Plumbing

- SHOWER OUTLET PIPE SHOULD BE PERPENDICULAR TO THE FLAT WALL SURFACE, AND NOT MORE THAN ½” BEHIND FINISHED SURFACE.
- PIPE ELBOW MUST BE CLEANED OUT OF ALL DEBRIS OR THE SOLENOID VALVE WILL MALFUNCTION.

The solenoid valve will cut off the water at the completion of the cycle. We recommend that the taps be turned off after each shower, but some users will not turn the taps off. This will result in the riser pipe between the taps and shower outlet being under pressure for the first time and for long periods. The integrity of this plumbing has perhaps never been tested. Please be sure there are no leaking joints hidden in the wall, which will cause dampness in adjoining rooms, etc.

To install solenoid valve

- Remove shower arm from the wall. This valve fits ½” NPT female outlet pipe elbow.
 - Carefully clean out the threaded elbow including old sealing tape, mortar, grout, etc.
 - Screw the valve in, counting 4 complete 360 degree turns. Turn the valve further clockwise from this position until the coil is in the vertically down (6 O’clock) position (see Fig 2).
 - **Turning more than 5 turns will damage the valve.**
 - Remove the valve counting and making note of the number of turns.
 - Apply thread sealing tape clockwise to the male thread of the valve.
 - Refit the valve counting the same number of turns until the coil is at 6 O’clock position. If it is not firm, remove and apply more sealing tape.
 - Turn on a tap and inspect around the valve for any sign of a leak. Leave the tap turned on to ensure that it does not weep.
 - Slip the box over the valve output and check that the sides press firmly against the wall, particularly at the valve end. If not, check that the body of the solenoid valve is flush against the wall surface.
- TIP:** Be sure that the wires are located between the two mounting “pegs” and not pinched.



Figure 1

Electrical

- The 12V DC Power Supply is 'UL Listed' and RoHS compliant. It is normally located in the ceiling above the shower cubicle and permanently "on" but please refer to the NOTE at the end of the programming instructions. The power pack comes with a 6 ft. wire lead.
- The shower timer box should be installed flat against the wall or tiles.
- If the power cable is to come through the wall, be aware of water pipes when drilling around the shower area. Damage can be expensive.
- The power lead should enter the shower area within the confines of the shower timer box. It may be possible to enter next to the shower outlet pipe.
- The cylindrical plug on the power supply lead fits into a socket on the Printed Circuit Board (PCB). Squeeze plug and socket between two fingers and thumb to ensure that the plug is fully engaged. About 3mm of the plug will remain outside the socket (See Fig 2). The display will light up and should alternate between "07" and "05". These are the factory settings – 7 minute shower time and 5 minutes waiting time before next shower can start.

TIP: This may be an opportune time to program the timer. (See Programming Instructions)

- Plug the PCB output leads on to the solenoid valve spade connectors as per Fig 2.
- Fit the box over the valve and be careful to allow room for the wiring. Keep it between the two mounting pegs.



Figure 2

To fit the box

- Turn tap off. Carefully plug power lead into the socket on the printed circuit board. Squeeze plug and socket between two fingers and thumb to ensure that the plug is fully engaged. About 3mm of the plug will remain outside the socket. The display will light up.
- Plug spade connectors onto the solenoid valve. The 90 degree connectors must be fitted so as to direct the wires toward the wall. Beware; some water may come out if timer is running.
- Slip the box over the output of the solenoid valve. Carefully ensure that the wiring is not obstructed within the box. It must be between the mounting pegs.
- The solenoid valve will locate the box vertically.

The cover box should be screwed to the wall through the two access holes in the front.

- Tap out the blanking plugs on the front of the box by pushing through the screw holes from the rear.
- Mark the wall for the mounting screws.
- Remove the box, drill the wall and use 6 gauge stainless screws. If there is any doubt about the presence of water pipes, use double sided adhesive tape or silicon to secure the box to the wall rather than screws. (See Fig 2)

TIP: A trial fitting before applying thread tape will indicate the number of turns needed for the next step.

- Apply fresh thread seal tape on the shower arm threads, and screw it into the valve.
- **Do NOT over tighten, that extra half turn WILL break the valve !**
- Start the timer, turn on water taps and check for leaks at the output.



PROGRAMMING SHOWER TIMER

- To enter programming mode, disconnect the power for 30 seconds minimum. (After the initial installation it may be necessary to remove the power at the source.)
- Within 2 minutes of re-connecting the power to the timer, press the Start button and hold for 10 seconds. The buzzer will sound 2 beeps and the display will flash “P1”.
- Repeatedly press the button to cycle through the program options. When the desired shower setting is displayed, press and hold the button for approximately 3 seconds (holding for 10 secs will take you out of programming mode). To confirm your selection, the buzzer will beep when you release the button.
If you want to change the waiting (Lockout) time between showers, repeatedly press the button again to advance to the desired waiting time. Press and hold for 3 seconds. (Buzzer will not beep until you release the button)
- The display will flash on all settings except the currently selected options.
- Holding the button for 10 seconds will return the timer to Normal mode. Failure to press the button during any period of 30 seconds will also return the timer to Normal mode.
- See table below for cycling sequence.

The following table shows the shower and waiting time options relating to the display shown during programming mode:

DISPLAY	SHOWER	WAITING
P1	1 MINUTE	
P2	2 MINUTES	
P3	3 MINUTES	
P4	4 MINUTES	
P5	5 MINUTES	
P6	6 MINUTES	
P7	7 MINUTES	
P8	8 MINUTES	
P9	9 MINUTES	
10	10 MINS	
11	11 MINS	
12	12 MINS	
00	DISABLED	(no shower)
L0	(no waiting)	DISABLED
15		15 SECS
30		30 SECS
L1		1 MINUTE
L2		2 MINUTES
L5		5 MINUTES

NOTE: In a residential application the customer can choose to have the power supply manually switched on and off from within the bathroom. It can be associated with the exhaust fan (piggy backed) and switched on and off with the fan.

In this case, the timer operates normally while the power is on but turning the switch off and on again resets the timer to Normal mode – ready to go again immediately.