

SHOWER TIMER INSTALLATION INSTRUCTIONS

Battery model 500

Flat wall surface must extend at least 3-1/4" above the center of the shower outlet for the control box to be water resistant.

The solenoid valve will cut off the water at the completion of the shower cycle. Many users will therefore 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 that plumbing should be checked on installation and it is unlikely to be a problem. However, we accept no responsibility for leaking joints hidden in the wall.

To install the timer you will need 6 AA Alkaline batteries, and a roll of Teflon thread sealing tape (available at any hardware or plumbing store) and maybe a drill and bits. **Fit only good quality, heavy duty Alkaline batteries.**

Preparation

- Remove the existing shower arm.
- Carefully clean out the elbow threads including old sealing tape, mortar, grout, etc. Threads must be clean and in good condition. A wire brush is handy for this purpose.
- Water and electronics are not compatible so it is important that the control box is firmly against a flat wall surface on all sides. In some bathrooms, where the wall is tiled, the tiled surface is less than **3-1/4" above the center of the shower water outlet elbow**. You must ensure that area is flat for the top of the box to seal. A piece of tile with a dab or two of silicon adhesive will suffice and the box will hold it in place. There are drain holes in the bottom and breather holes in the top of the box. They prevent condensation within the box and they should not be sealed.
- In order for the box to be flat against the wall, the shower outlet elbow must be flush with the finished wall surface (tiles).

To instal the solenoid valve

- Without thread sealing tape, screw the valve fully in by hand and note the position of the "coil" part of the valve. About **five full turns** should put the coil at the **6 O'clock position**. The end of the valve must be flush or deeper than the wall surface in order for the box to seal against that surface.
- Trial fit the box over the solenoid valve and check that it is firmly against the wall on all sides. Ensure that wires are not caught under the mounting lugs. If the box is not against the wall, try for another full turn on the valve but do not use a wrench. More than hand tight will risk breaking the valve. If that fails, the elbow must be more than flush with the finished wall surface.
- Unscrew the valve, counting the number of turns until it comes out of the elbow.
- Apply thread sealing tape clockwise tightly around the threads of the valve. 8 turns of Teflon tape is not too much.
- Screw the valve in, counting the same number of turns achieved in the trial fitting. Do not go past the 6 O'Clock position or the box cannot be fitted vertically. **A wrench can be used if necessary but don't exceed the number of turns.**

(2)

- Turn on the water and inspect around the valve for any sign of a leak. To be sure, leave the tap turned on and check for moisture later.
- Now is the time to mark the wall for the screws to secure the box if that is intended. It is not essential but be aware that, if the box is not screwed to the wall, the settings can easily be changed by removing the showertimer. Do not use a hammer drill on the tile or it will crack. Beware of water pipes when drilling into the wall. It is unlikely there will be a pipe in this location because the pipe comes from the taps to the shower. However, if in doubt, do not drill.

To program the timer

After installation it is necessary to remove the shower in order to re-program the timer so please consider the options carefully and program before installing.

Refer to the table of settings below and apply the desired settings to the “**dipswitches**” on the right side of the electronic circuit board. (See Fig 1) Note the “ON” position marked on the dipswitch and the numbers 1 to 8. To select the shower time and the waiting time between showers, push ON the appropriate white switches as indicated with an X below. All others must be OFF. The photo shows the dipswitch set for 1 minute shower and 1 min wait time and the beeper is “off”. The factory setting is 5 min shower, 1 min waiting, beeper on.

	Dipswitch	1	2	3	4	
Shower time	1 minute	X				
	2 minute		X			
	3 minute	X	X			
	4 minute			X		
Factory set	5 minute	X		X		
	6 minute		X	X		
	7 minute	X	X	X		
	8 minute				X	
	9 minute	X			X	
	10 minute		X		X	
	11 minute	X	X		X	
	12 minute			X	X	
	13 minute	X		X	X	
	14 minute		X	X	X	
	15 minute	X	X	X	X	
	Dipswitch	5	6	7	8	
Waiting time	0 seconds					
	15 secs	X				
	30 secs		X			
Factory set	1 minute	X	X			
	2 minute			X		
	5 minute	X		X		
	10 minute		X	X		
	30 minute	X	X	X		
Beeper					X	

(3)

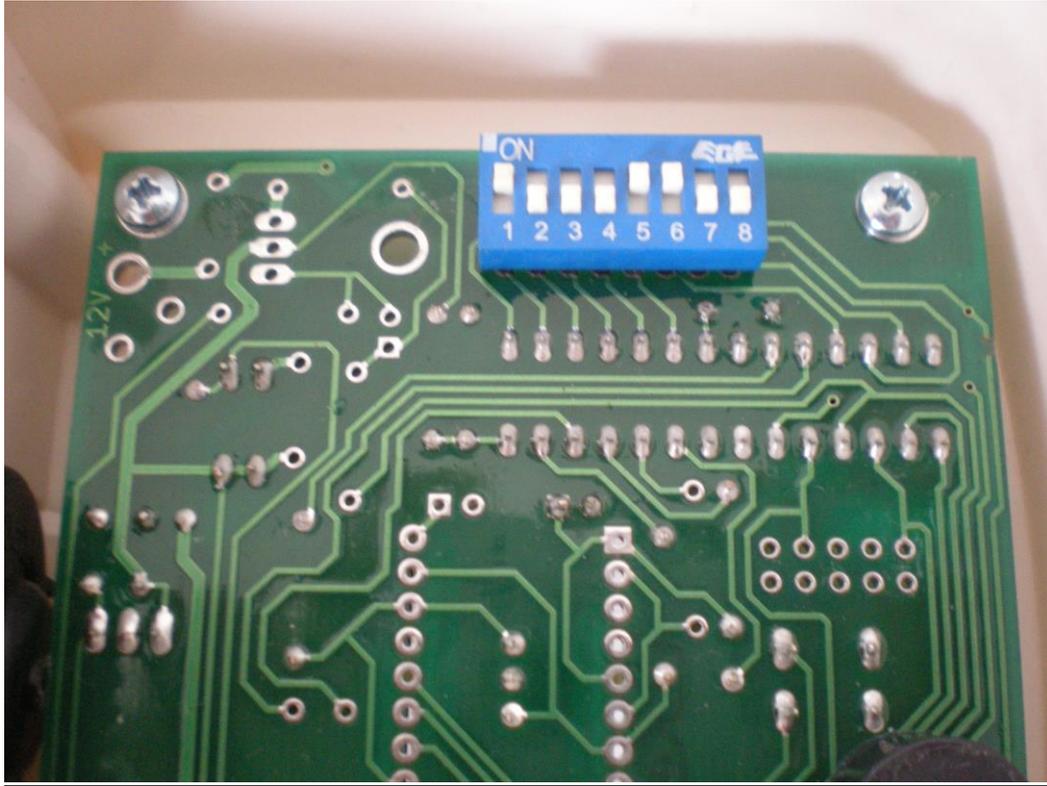


Fig 1

To instal the Box

- First fit the 6 AA cells into the battery holder ensuring that the **flat (-) end of each cell is against the spring.**
- Double check that there is no sign of water weeping from the valve. The interior of the box must be dry. Turn taps off.
- Plug the two wire leads firmly onto the solenoid valve. **Match the white wire to the lug with the white dot** and direct the wires toward the wall.
- Slip the box over the solenoid valve. Ensure that the wiring is not obstructed within the box. The wires must pass between the valve and the wall, behind the coil. (See view from behind - Fig 2) The solenoid valve will locate the box vertically. Check that the box touches flat against the wall, on all sides.
- Before securing the box, press the Start button and with a tap open, water should come out of the valve. Turn taps off but allow the timer to run through the cycle, observe the light color changes, hear the beeper, check the shower time and waiting time. When you are satisfied, secure the box to the wall.
- Screw the box to the wall (See Fig 3) but do not fit the screw caps until you are satisfied that everything is working correctly and the settings are satisfactory.

(4)



Fig 2



Fig 3

To fit the showerhead

- Screw the shower arm in without sealing tape until it is in the correct position. Count the number of turns when you remove the shower arm.
- Tape the threads abundantly and screw the shower arm in again the same number of turns. Keep turning until the shower arm is in the correct position. **Too tight and you will break the valve.** If the shower arm is too loose, remove it and add more sealing tape.
- Hold the box firmly to keep it vertical while screwing the shower arm on and off.

Operating instructions

Press the Start button and turn on the taps in the usual way. Water will flow from the shower and the **green light** will flash every 5 seconds.

When there is 2 minutes remaining, the beeper will sound two beeps.

When there is one minute remaining, the beeper will sound once and the light will change from green to **amber color**, flashing every 5 seconds.

From 30 secs remaining, the amber light will begin flashing more and more frequently.

With 10 secs remaining the beeper will sound and the light will change from amber to **red color**, flashing every second.

The beeper will sound every one of the last five seconds and the red "Finish" light will alternate with the central red light, similar to railway crossing lights.

The water will be cut off for the duration of the waiting time. During that time, the **blue "Wait" light** will flash every 10 seconds.

At the completion of waiting time, the beeper will sound once and the shower is ready to go again.

Battery expiring

When the battery is approaching the end of life, the "**Battery Low**" light will flash. You should replace the batteries with **good quality, heavy duty Alkaline cells** as soon as possible. Before the battery fully expires, the solenoid valve will open permanently so that the shower can be used, unrestricted. The Battery Low light will continue flashing intermittently until there is no more power available.

We do not recommend re-chargeable cells because they are each 1.2 Volts giving a total voltage of only 7.2 Volts instead of 9 Volts.

Cheap battery will not perform well and will expire very early.