



Battery model

Thank you for your purchase.

Installation instructions

Preliminary checks

- Hot water supply must be mains pressure, or equal to the cold water pressure. Gravity fed hot water systems are not suitable for this model of Showertimer.
- It is best if the vertical wall extends in a straight vertical line, 40mm above the centre of the outlet. The vertical can be extended with an off-cut tile neatly added above, if required.
- The Shower outlet pipe should be at right angles to the flat wall surface.

The brass Solenoid valve included in the kit, cuts off the water at the completion of the shower cycle. Note that if the taps are not turned off, this will result in the 'riser pipe' (between the taps and shower outlet) being subjected to prolonged pressure. The integrity of that section of plumbing should have been checked by the plumber when installed so it is unlikely to be a problem. However, we accept no responsibility for leaking joints hidden in the wall. It is best to check for problems.

Preparation

You will need 6 x Alkaline AA batteries. Read page 5 for 'More on Batteries'.

A shifting wrench or open ended spanners will be needed for the fittings.

The Showertimer Solenoid valve is designed to fit onto the ½" BSP male outlet pipe that your Shower head is screwed onto. We need to take the shower head off and prepare to fit the Solenoid valve.

At some stage, the domed flange plate behind the shower head may need some gentle 'panel beating' to restore the convex shape of the dome.

If the thread from the wall for the shower head protrudes more than 14mm, you will need to trim that length back with a hacksaw and a file. Please refer to 'Trimming the Outlet' on the next page. Most outlets are not longer than 14mm and therefore will not require trimming.

Carefully clean out the thread of the outlet from old plumbers thread tape, mortar, etc., right back to the wall. A wire brush is handy for this purpose. The thread must be clean and in good condition.

Trimming the Outlet *(if required)*

In order for the box to be installed firm against the wall, the shower outlet pipe must not extend more than 14mm from the finished wall surface. In some cases you will need to cut that pipe using a hacksaw and file. But most outlets are not longer than 14mm and therefore will not require trimming.

To assist in cutting the pipe at right angles and avoid cutting it too short, we suggest cutting a round hole about 22mm in diameter into a 12mm thick MDF panel. Place the hole over the outlet pipe and cut **anti-clockwise** around the pipe. Carefully deburr the pipe by filing the end flat and slightly bevelling the outer and the inner edge.

Remove any loose brass inside the pipe then turn on the tap for the shower to flush it out. Pipes must be flushed out to remove impurities and failure to do so will likely cause premature malfunction of the Solenoid Valve.



Install the Solenoid Valve

Screw the valve fully on by hand until tight, then back off until the silver cylinder is pointing downwards at the 6 o'clock position. Do not use plumbers tape yet. The box will not be firmly seated on the wall unless the end of the valve is flush with the wall surface.

Trial fit the box over the Solenoid valve and check that it is firmly against the wall surface on all sides. Ensure that wires for the Solenoid valve are not caught under the mounting lugs. If the box is not seated against the wall, gently try for another full turn on the valve. If that fails, the pipe is likely more than 14mm in length from the wall surface. See instructions (above) for Trimming the Outlet.

The Red ring on the outlet of the Solenoid valve ideally, should be flush to the front of the box.

Ideally, the box should fit firmly against a flat wall surface on all sides. Please ensure that the vents on top and bottom are not obstructed. These vents allow air flow which therefore prevents condensation so the electronics remain dry. You don't need to seal the box if it is firmly seated.

Now unscrew the valve, taking note of the number of turns till it is released from the pipe.

Apply white Plumber's tape clockwise, tightly around the outlet pipe. **Up to 8-10 turns are often required.** Screw the valve on, counting the same number of turns as was achieved in the trial fitting. Do not go past the 6 o'clock position (silver coil pointing downwards as shown above).

The Solenoid valve is a latching type. It uses a very brief electrical pulse to open and then to close the water flow. Latching valves are used to conserve power and prolong battery life. Most valves are shipped in the closed position but be aware that some may arrive in the open position. If your valve has arrived open, close the valve by connecting it to the Showertimer and hold the start button down until the Showertimer closes the valve. When the valve is pulsed closed, the Showertimer will beep.

With the valve closed, turn on the cold water tap and inspect for any sign of a leak.

To be sure, leave the tap on for half an hour and then check again for any moisture.

Programming the Timer

The Showertimer is programmed with the little 'DIP' type switches shown below. They are located just above the battery holder on the electronic circuit board.

After the installation is complete, the shower head will need to be removed to change the settings. To avoid that inconvenience, please choose the settings carefully before completing the installation.

The table of settings below show how to select the times you have chosen.

Note the ON position marked on the DIP switches and the numbers 1 to 4.

To select the shower time and the waiting time between showers, slide the appropriate little numbered levers to the ON position as indicated below. Leave the others in the OFF position.

Shower Time

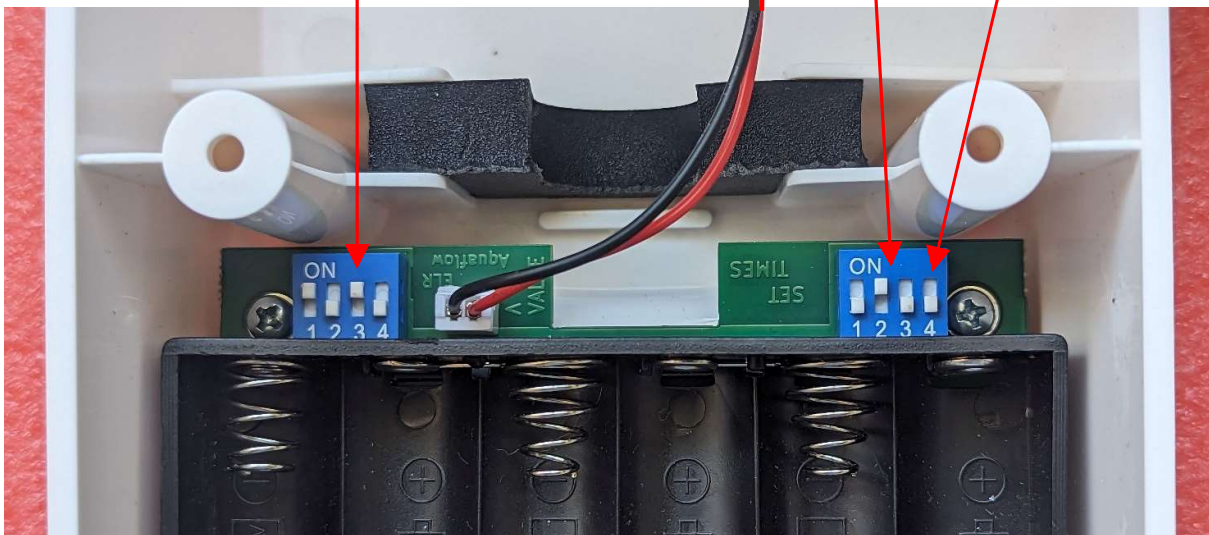
DIP switch # >	1	2	3	4
1 Minute	ON	off	off	off
2 Minutes	off	ON	off	off
3 Minutes	ON	ON	off	off
4 Minutes	off	off	ON	off
5 Minutes	ON	off	ON	off
6 Minutes	off	ON	ON	off
7 Minutes	ON	ON	ON	off
8 Minutes	off	off	off	ON
9 Minutes	ON	off	off	ON
10 Minutes	off	ON	off	ON
11 Minutes	ON	ON	off	ON
12 Minutes	off	off	ON	ON
14 Minutes	ON	off	ON	ON
16 Minutes	off	ON	ON	ON
20 Minutes	ON	ON	ON	ON

Wait Time

DIP switch # >	1	2	3
0 Seconds	off	off	off
1 Minute	ON	off	off
2 Minutes	off	ON	off
3 Minutes	ON	ON	off
5 Minutes	off	off	ON
10 Minutes	ON	off	ON
15 Minutes	off	ON	ON
20 Minutes	ON	ON	ON

to the Solenoid Valve.

DIP Switch #4 on this side extends the Pause time to 90 seconds. Please refer to page 5 for the details.



Settings shown above are for a 5 minute shower and a 2 minute wait time.

the Beeper

These are options for the beep sounds.

A 'Connector'.

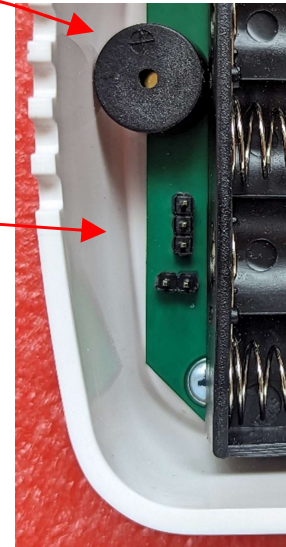
Connect these 2 pins for Loud beeps.

Connect these 2 pins for Soft beeps.

No connection on the 3 pins = no beeps.

Connect these 2 pins for Shorter beeps.

Showtimers as posted, are set Loud + Short.



Securing the Box

Remember that the settings are accessible by taking the shower head off. However, the settings can be made secure by fastening the box to the wall.

If you are going to use an anchor screw (one is all that is required), now is the time to mark the wall to secure the box. Use 6G screw(s) into White wall plugs and a 5mm masonry drill bit.

A tip for when mounting onto a wall. Do not use a percussion drill on a 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 is usually direct in line with the shower. **But if in doubt, do not drill.**

For extra security, Stainless Steel Torx security screws can be used (available from hardware stores).

Install the Box

Fit the 6 AA Alkaline cells into the battery holder, ensuring that polarities are correct (with flat end of each battery against the spring). Double check that there is no sign of water weeping from the inlet of the Solenoid valve. The interior of the box must be dry. Turn taps off.

Push the connector for the Solenoid valve into the white socket. This may require a little nudge with a fingernail to push it fully into place. Note that for removing this Solenoid valve plug, a fingernail may likewise be required to gently encourage the plug to come free.

Slip the box over the output of the valve. Ensure that the wiring is not obstructed within the box. It must be between the mounting pegs. Also, try to avoid pinching the wires against the rubber guide. The Solenoid valve will fit snugly into the rubber guide and locate the box vertically. Gently press the box into place against the wall.

Before securing the box press the Start button and with a tap partly open, water should come out of the valve. Turn taps off but allow the timer to run through the cycle, observe the light colour changes, hear the beeper, check the shower time and waiting time.

When you are satisfied that everything is in order, secure the box and fit the shower head. If the Showtimer is screwed to the wall, it is suggested that you do not fit the provided white caps yet. Wait until you are satisfied that everything is working correctly and the settings are appropriate. Maybe wait a week before inserting the caps? Or simply leave them off.

the Early Stop / Pause function

The Showertimer can be stopped early simply by pressing the start button during a shower. The valve will stop the water flow and the Wait time will commence. This avoids unnecessary delays between showers when someone else is waiting.

If the Start button is pressed again within 20 seconds after a Stop, the timed shower will resume with the remaining time restored that was left (before being stopped). Stopping the Showertimer early is therefore a Pause function, as long as it is restarted within the available Pause time. When the 'Extended Pause' is enabled (DIP Switch #4 on Page 3), the available Pause time becomes 90 seconds.

There is a flash every 2 seconds during a Pause. With 20 seconds remaining the flash sequence is :

4 times Green, 3 times Orange and then 2 times Red.

If the Shower is not resumed during a Pause, it is assumed that the Showertimer was stopped early. The way this works should be fairly intuitive. Note that a Shower can only be paused once.

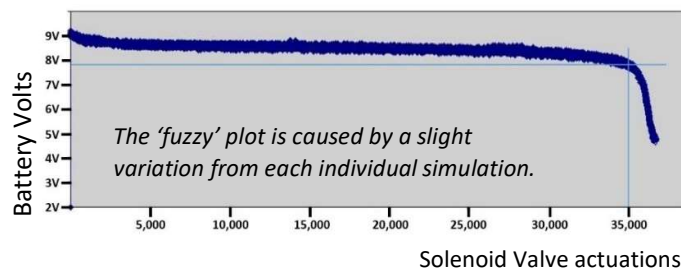
More on Batteries

Alkaline batteries can provide the energy required. Not all Alkaline batteries have the same characteristics however. **We recommend Duracell or Eveready Gold batteries from fresh stock.**

We will continue to test other batteries and may add to the list of recommendations. But if a battery is not listed, it either already failed the longevity test or has not yet been tested.

We have tested the battery model for well over 30,000 actuations of the valve. Each shower requires 2 actuations (open valve, then close the valve). For the average household, this equals to more than 2 years on one set of batteries. The plot below shows the result of one of our lab tests.

Note that for old stock near end of shelf life, the performance of batteries may be adversely affected.



Caution

Do not allow the electronic board to be subjected to direct exposure to water. While it is lacquered for protection from occasional drips, constant contact with water will destroy any electronic board.

Please ensure that the valve is installed correctly as failure to do so will cause problems.

Note that the holes on the top and bottom are vents, included to allow air flow. They prevent excess condensation and help keep the electronics dry. Do not block the vents. If however, the Showertimer is going to be mounted below the shower head (e.g., for a rail system with an extension hose), please do seal the top vent with some silicone, but keep the bottom vent open. To change the batteries, fresh silicone will obviously need to be re-applied.



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Warranty

We are here to support you.

If you have any problem with our product, please Contact Us.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law.

You are entitled to have a faulty unit repaired. You are also entitled to have the unit replaced if the goods fail to be of acceptable quality or the failure amounts to a major failure.

If you are a consumer within the terms of the Commonwealth Trade Practices Act 1974 or other State or Territory Law this warranty is in addition to your rights as such a consumer.

Aquaflow Distributors warrants to the original purchaser of this equipment that during the period of one (1) year from the date of purchase any component found by Aquaflow Distributors to be defective will be repaired or replaced by Aquaflow Distributors without charge for either parts or labour. If the product is used for commercial or industrial purposes this warranty will apply for a period of ninety (90) days only from the date of purchase.

This warranty is given on the condition that all service on the Showertimer is performed by Aquaflow Distributors or by an authorized service agent.

This warranty does not apply to any defect or failure due to accident, misuse, abuse, negligence, operation under adverse environmental conditions, non-observance of installation instructions or connection to an electrical supply not corresponding with the product's specifications.

Subject to the purchaser's statutory rights, Aquaflow Distributors reserves the right to charge for any service not covered by this warranty.

Non-Warranty Service

If you experience problems outside our warranty period, our repair service can quickly get you up and running again for a modest fee. When installed correctly and with proper care, our products give many years of trouble free service.

The address for any returns is :

Aquaflow Distributors
PO Box 359,
Melrose Park
SA 5039

Battery model

Operating instructions

Press the **Start button** there is a beep.

Turn on the taps in the usual way.

- The **Green light** will flash once to confirm that the battery is OK.
- Water will flow from the shower.

When there is **2 minutes** remaining, there are two beeps.

When there is **1 minute** remaining, there is a beep.

- the centre light will change from **Green** to **Amber colour**, flashing every 5 seconds.

With 30 seconds remaining, the **Amber light** will begin flashing more frequently.

With **20 seconds** remaining, there are 2 beeps.

With **10 seconds** remaining, there is a beep.

- the centre light will change from **Amber** to a **Red colour**, flashing every second.

For each of **the remaining five seconds**, there is a beep.

- 2 **Red lights** will alternatively flash.

The water will be cut off for the duration of the waiting time.

Turn the taps off so that the next person to use the shower is aware of and has full control over the water temperature. This avoids the possibility of nasty surprises.

While waiting, a **light** will flash every 10 seconds on the **right side** of the display.

At the completion of the Wait time, the beeper will sound once and a Green light will indicate that the shower can be used again.

As much as is possible and while also conserving battery power, the Battery model Showertimer has been designed to provide enough feedback to be intuitive to use. The way it works should quickly become self apparent.

the Battery low warning

When the batteries are becoming flat, the Battery logo will flash **Red** before the shower starts. When batteries are near end of life there is a pause, a Beep and the **Red** flash before the start. To avoid inconvenience, please replace the batteries before they become completely flat.