

Heavy Duty model

Installation instructions

Notes

The Hot water supply must be mains pressure or equal to the Cold water pressure.

The flat wall surface must extend for at least 80mm above the centre of the Shower outlet. This may require an extra tile to be added.

Plumber's instructions

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.

Please be sure there are no leaking joints hidden in the wall, which will cause dampness in adjoining rooms, etc. We accept no responsibility for this potential problem but urge you to check the integrity of that plumbing.

To install brass solenoid valve.

- Remove shower and dome flange plate.
- Cut ½" BSP male outlet pipe squarely 15mm (max) from the finished wall surface (tiles?) and de-burr.
- Carefully clean out the thread including old sealing tape, mortar, grout, etc. right back to the finished wall surface or even further if possible. Thread must be clean and in good condition.
- Turn on the tap to flush out the outlet pipe. Metal filings and other impurities may cause the solenoid valve to malfunction.
- Without thread sealing tape, screw the valve fully on by hand and note the position of the "coil" (black plastic) part of the valve. Back off to the 12 O'clock position as shown.



Plumber's Instructions (continued)

- Try fitting the box over the valve. The box must press firmly against the wall. If not, you must turn the valve another full turn. You may need to cut away the cladding (tiles?) around the outlet pipe or trim a little more off the pipe. Ensure the wires are between the mounting lugs as in Figure 2.
- Unscrew the valve, counting the number of turns until it comes off the pipe.
- Apply white teflon thread sealing tape to outlet pipe, tightly wrapped clockwise at least six turns.
- Screw the valve on, counting the same number of turns achieved in the trial fitting. If not at the 12 O'Clock position the box cannot be fitted vertically.
- Turn on the cold tap and inspect around the valve for any sign of a leak. To be sure, leave the tap turned on and check for moisture later.

Electrician's instructions

Our 12 V DC Power Pack is double insulated and complies with AS1044 (Approval No. A/13542EA).

It is normally located in the roof cavity above the shower and permanently "on" but for a domestic situation, please read the NOTE at the end of the programming instructions.

The power consumption of the unit when operating is less than 15 Watts. For a single installation, the power can be drawn from a light fitting.

For a multiple installation (such as a caravan park) each timer will normally have a power pack in the ceiling above each shower or in an adjoining room. If required, a common power supply or a "no break" power supply is available using a 12V deep cycle battery and double insulated full time charger instead of a separate power pack for each shower. Each timer will draw less than 1 Amp from the 12 Volt supply.

The power pack normally supplied comes with 1½ metres of lead.

If the power cable is to be hidden in the wall, be aware of water pipes when drilling around the shower outlet.



To Install the Box

Slip the box over the output nipple of the solenoid valve. 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.

Access holes for a screwdriver are provided in the front of the box (See Figure 3) to suit the three stainless steel screws. The top 8 gauge screw is important because it resists the valve from turning when the shower is screwed on. That position is normally clear of water pipes but beware of that possibility when drilling. The green star plug is used there if appropriate. The other two 6 gauge screws use the white star plugs.

To prevent water ingress there must be a flat surface at least 80mm above the centre of the water outlet. In some cases you may need to fit an extra tile to extend that surface up.

Remove the box and drill the wall. Beware of water pipes when drilling into the wall. If in doubt, do not drill. The top screw and one other will probably suffice.

Double check that there is no sign of water weeping from the valve inlet. The interior of the box must be dry. Turn taps off.

Carefully plug the 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 home.

The display should light up and alternate every 3 seconds between the shower time setting and the shower prevention time setting.

It may be opportune to programme the timer now, before fixing the box to the wall, while the power can be easily removed and reconnected (please refer to the next page).

Plug the electrical socket on to the solenoid valve ensuring that the rubber seal (washer) is in place. Beware; the valve may open, releasing some water. Secure the socket with the screw provided.

Pushing the "Start" button with a tap turned on should allow the water to flow out of the valve. Do not secure the box until this has been achieved. Ensure the wires are between the mounting lugs as shown in the photo on the previous page (page 2).

The timer must run through "Shower time" and "Waiting time" before it turns off but the water can be turned off at the taps any time.

With the water running, check for leaks where the nipple screws into the solenoid valve outlet. Any sign of weeping here must be rectified.

Secure the box to the wall. Fit the domed flange, tape the output nipple and screw the shower arm/rose on, not too tight or you will break the top screw and/or box.



Seal the screwdriver access holes with the caps provided.

Programming

- To enter programming mode, disconnect power for 30 seconds minimum. After the initial installation it may be necessary to remove power at the fuse box.
- Within 2 minutes of re-connecting power to the timer, press the Start button and hold for 10 seconds. The buzzer will sound 2 beeps and the display will show "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 4 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.

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

DISPLAY	SHOWER	WAITING
P1	1 Minutes	
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 Minutes	
11	11 Minutes	
12	12 Minutes	
00	Disabled	(no shower)
LO	(no waiting)	Disabled
15		15 Seconds
30		30 Seconds
L1		1 Minute
L2		2 Minutes
L5		5 Minutes