Electronic Shower Timer
INSTALLATION INSTRUCTIONS
Standard model with remote solenoid valve

These instructions are for installing the shower timer with the solenoid valve cut into the water supply pipe, preferably in the riser pipe after mixing of hot and cold water. If it is difficult to gain access to these pipes, we can supply an easy retrofit model which locates the solenoid valve at the shower head.

Electrical

- The 12 V DC Power Supply is UL listed and RoHS compliant. It can be located behind the shower wall near the water supply pipes or in the ceiling above the shower area and is permanently switched on. The shower timer box should be fitted on a flat wall surface to comply with IPX5 standard.
- The power pack comes with 6 ft. of wire and a 2.1mm DC plug.
- If the power is to run within or through the wall a **5/8 in. diameter** hole should be drilled within the confines of the shower timer box location.
  TIP: Be aware of water pipes when drilling around the shower area.
  Damage can be expensive.
- The cylindrical plug on the power supply lead fits into a socket on the Printed Circuit Board (PCB). Squeeze the plug and socket together between two fingers and thumb to ensure that the plug is fully seated. About 3mm of the plug will remain outside the socket (See Fig 1). The display will light up and should alternate between “07” and “05”. These are the factory settings – 7 minute Shower time and 5 minute waiting time between showers. This may be an opportune time to programme the timer. (See programming instructions).
- The PCB output leads are terminated on a connector block. Run a lead of wire (17 gauge or 1mm diameter conductors) from here to the solenoid valve as per Figs 1 and 2.

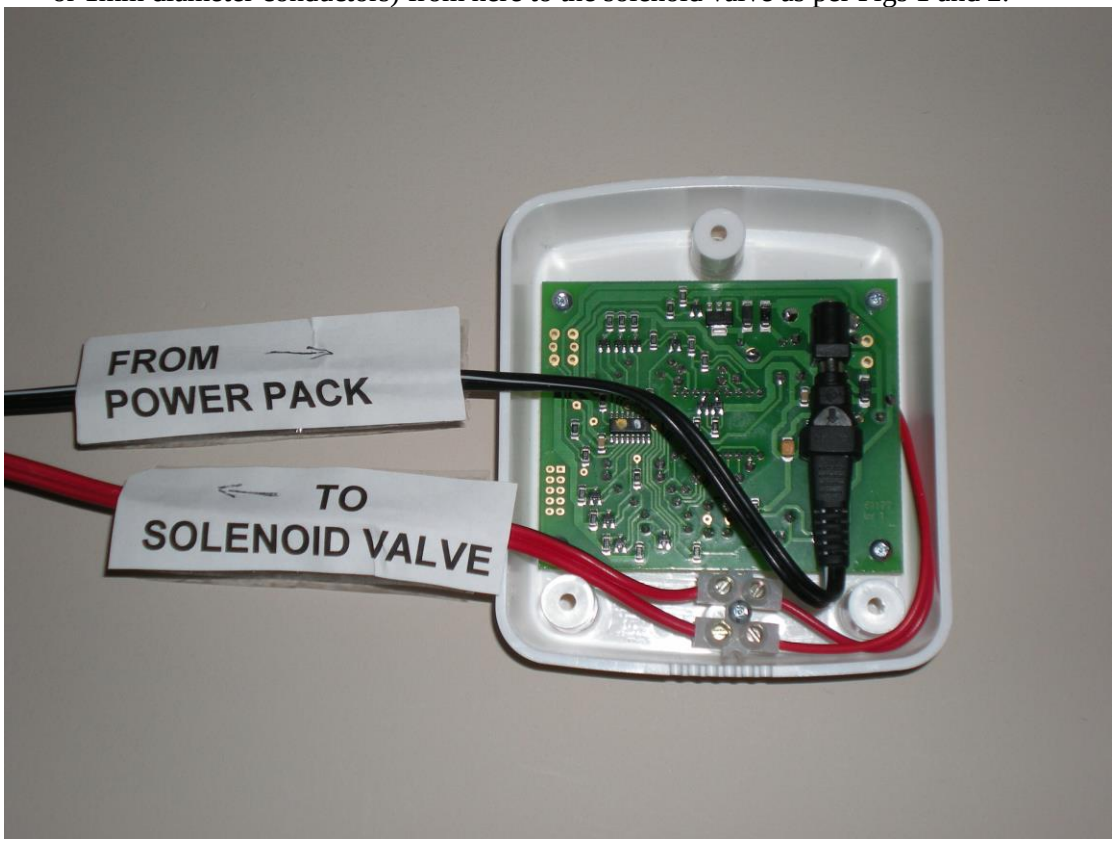


Figure 1

Plumbing

- WITH REMOTE SOLENOID VALVE IT IS NOT NECESSARY TO INTERFERE WITH EXISTING SHOWER OUTLET.

To install solenoid valve

- Note the flow directional arrow on the body of the valve.
- The Solenoid valve must be fitted on the riser pipe (after mixing body).
- Inspect around the valve for any sign of a leak.
- Output leads from the shower timer should be plugged onto the solenoid valve.

NOTE: Our standard solenoid valve is ½" NPT male in / female out.

Figure 2

To fit the box

- The box should be fitted at approximately eye level for optimum visual and audible performance. It should not be subject to excessive water splashing on to it.
- Draw a level horizontal line where the box is to be located and mark (2) screw holes 2-1/2 inches on centre for the lower holes. Drill the wall to take the #6 gauge screws and the plastic star plugs provided.
- Tap out the blanking caps on the front of the box by pushing through the screw holes from the rear.
- Mark the position of the top mounting hole and drill the wall at that point.
- Within the triangle formed by the three mounting screw holes, drill a hole through the wall at least 5/8 inch diameter.
- Run the wire lead to the solenoid valve and plug the power 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. About 3mm of the plug will remain outside the socket (See Fig 1). The display will light up.
- Screw the box to the wall, firmly but not too tight and replace the plastic "blanking" caps.
- Do not seal the hole in the wall or the breather holes in the bottom of the box.

PROGRAMMING SHOWER CONTROLLER

- To enter the programming mode, disconnect the power for 30 seconds minimum.
- Within 2 minutes of reconnecting power to the timer, press and hold the Start button for 10 seconds, until the buzzer sounds 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. To confirm your selection, the buzzer will beep when you release the button.
  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 beep when you release the button)

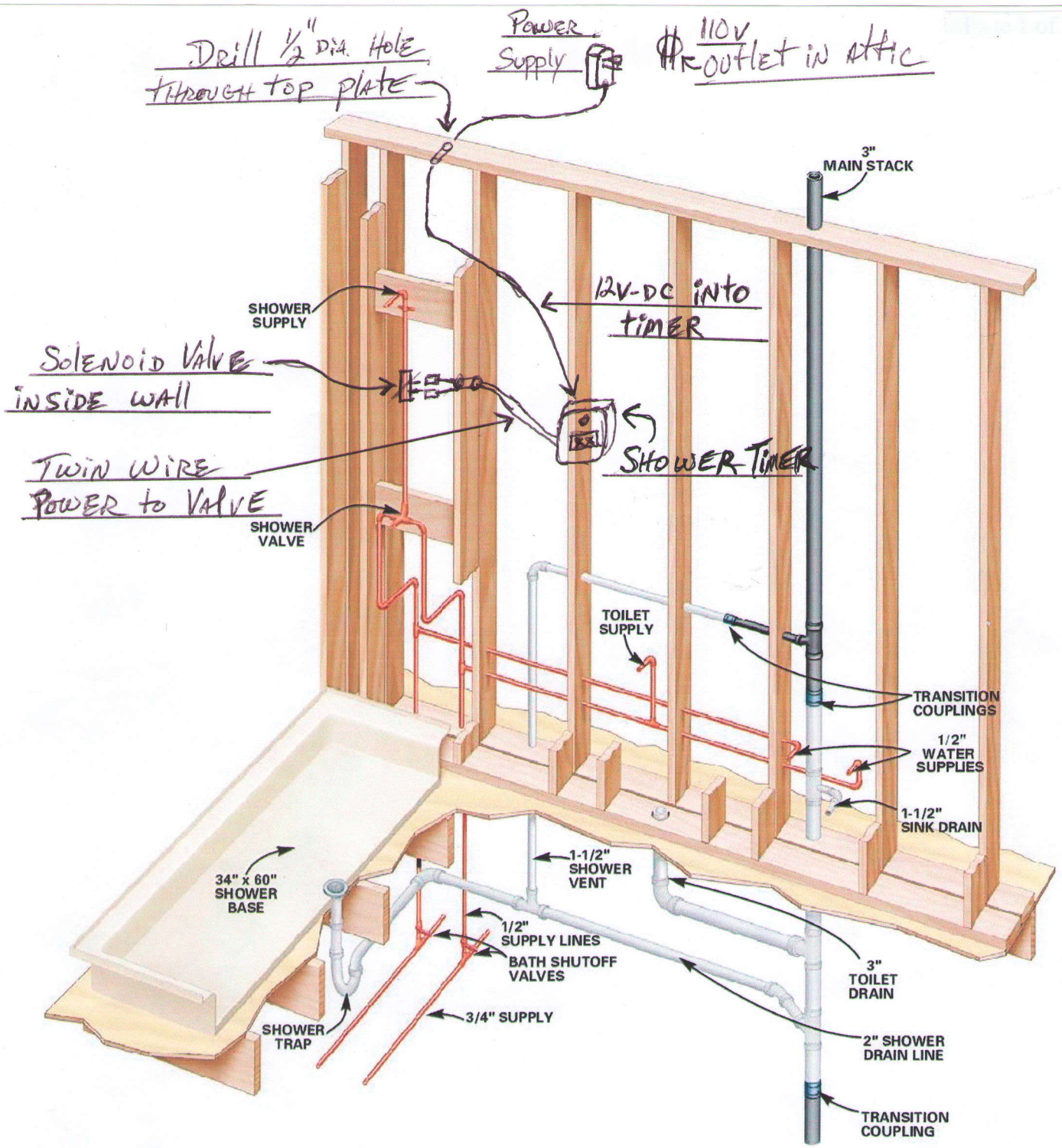
- Do not press the button anymore, until you hear the beep again.
  The new settings should be displayed.

- 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 domestic situation 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.


Drill ½" Dia. Hole through top plate
Power Supply
110V Outlet in attic
3" MAIN STACK
12V-DC into timer
SHOWER SUPPLY
Solenoid Valve inside wall
Shower Timer
Twin Wire Power to Valve
SHOWER VALVE
TOILET SUPPLY
TRANSITION COUPLINGS
1/2" WATER SUPPLIES
1-1/2" SINK DRAIN
34" x 60" SHOWER BASE
1-1/2" SHOWER VENT
1/2" SUPPLY LINES
BATH SHUTOFF VALVES
3" TOILET DRAIN
3/4" SUPPLY
SHOWER TRAP
2" SHOWER DRAIN LINE
TRANSITION COUPLING