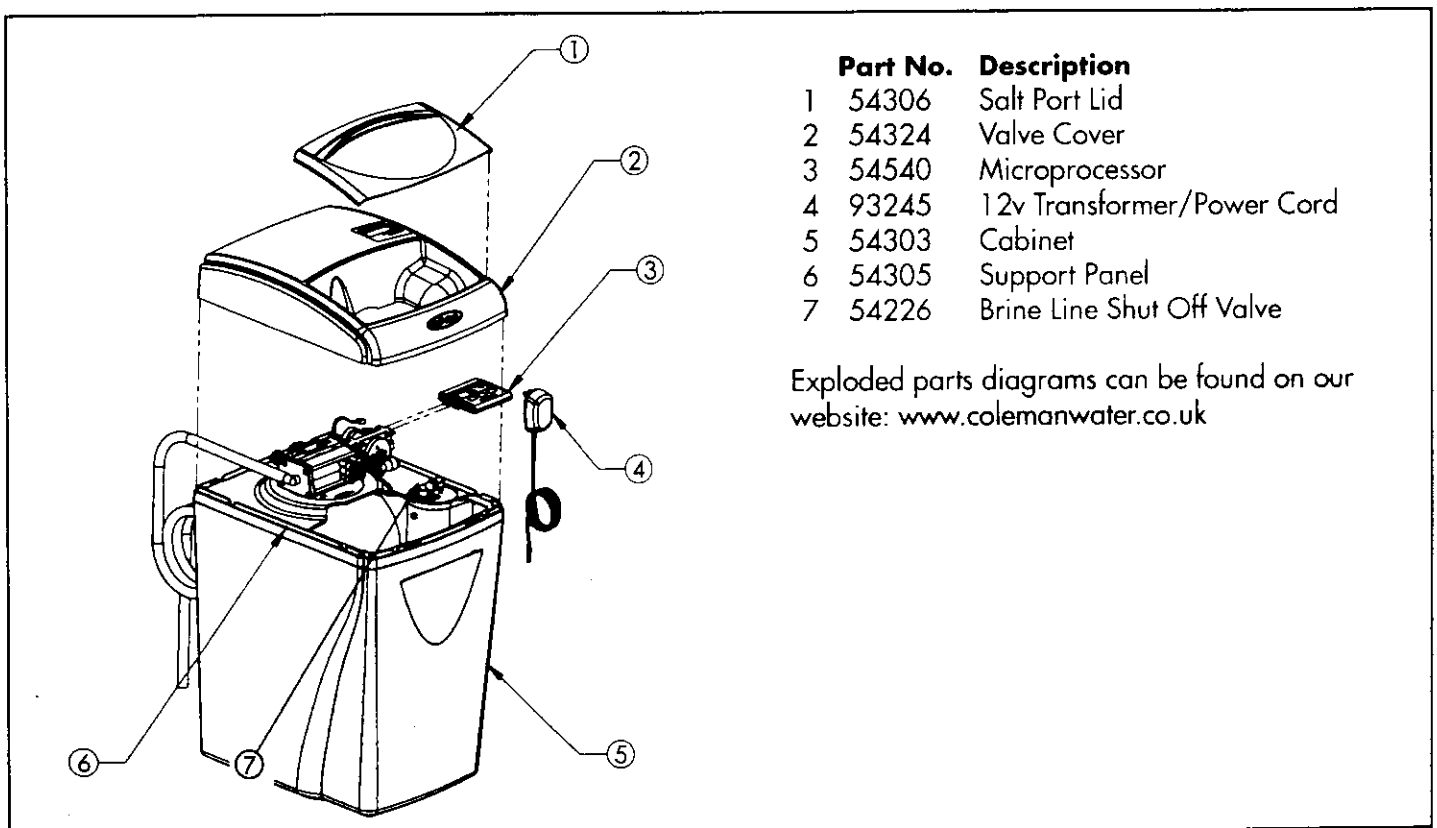


In choosing the WaterBoss you have made a very wise informed choice from which you will have very many happy years service.

Just a word of warning. You will not enjoy fully softened hot water until any stored water (in the tanks in the loft and the airing cupboard) has been replaced. When this happens you will probably only need one tablespoon of powder in your washing machine and in the meanwhile you will need to reduce the quantity gradually. Your dishwasher will no longer need salt.

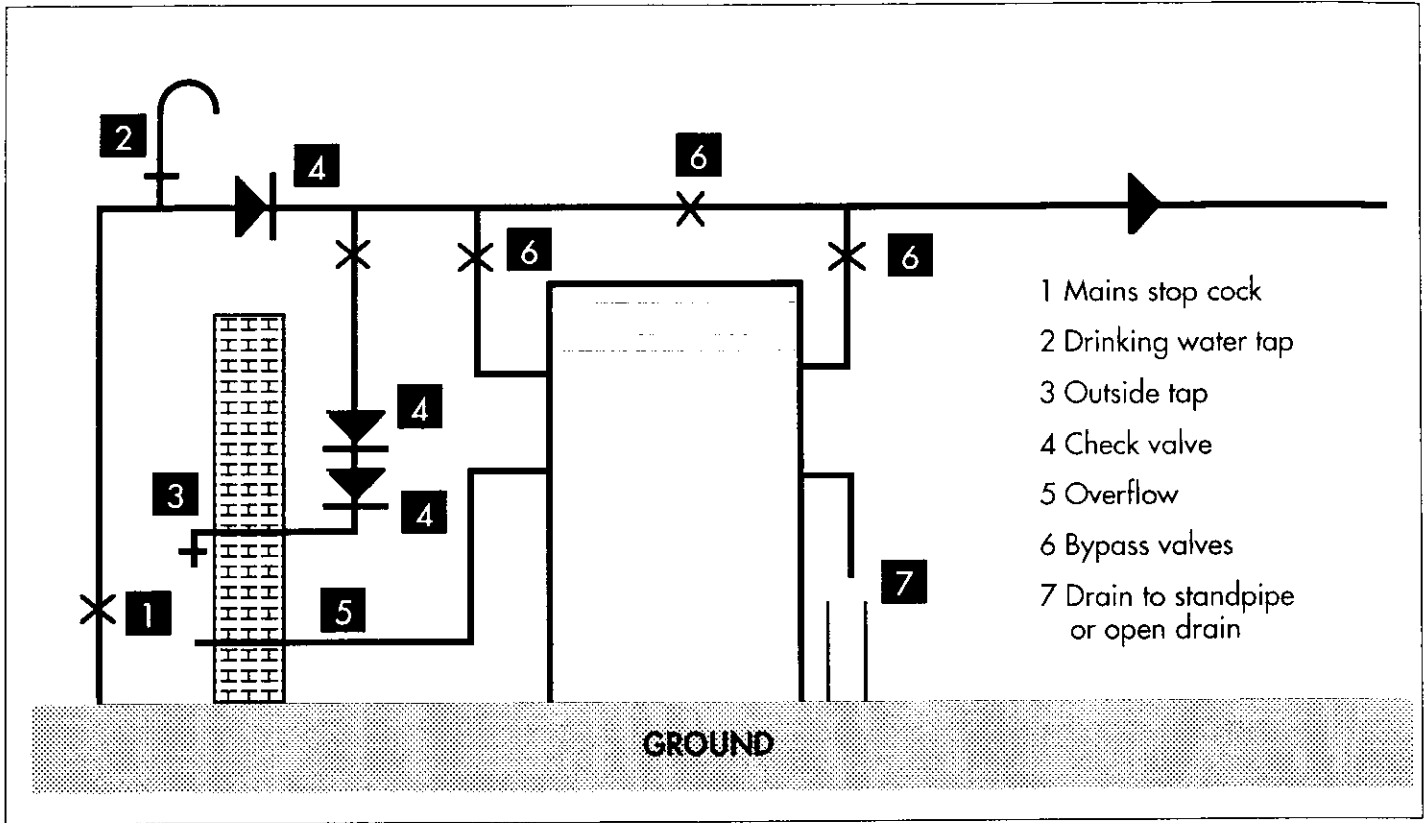
We are constantly striving to improve our products and marketing techniques and value comments, criticism and compliments to achieve these goals.

These components will be referred to in this instruction manual

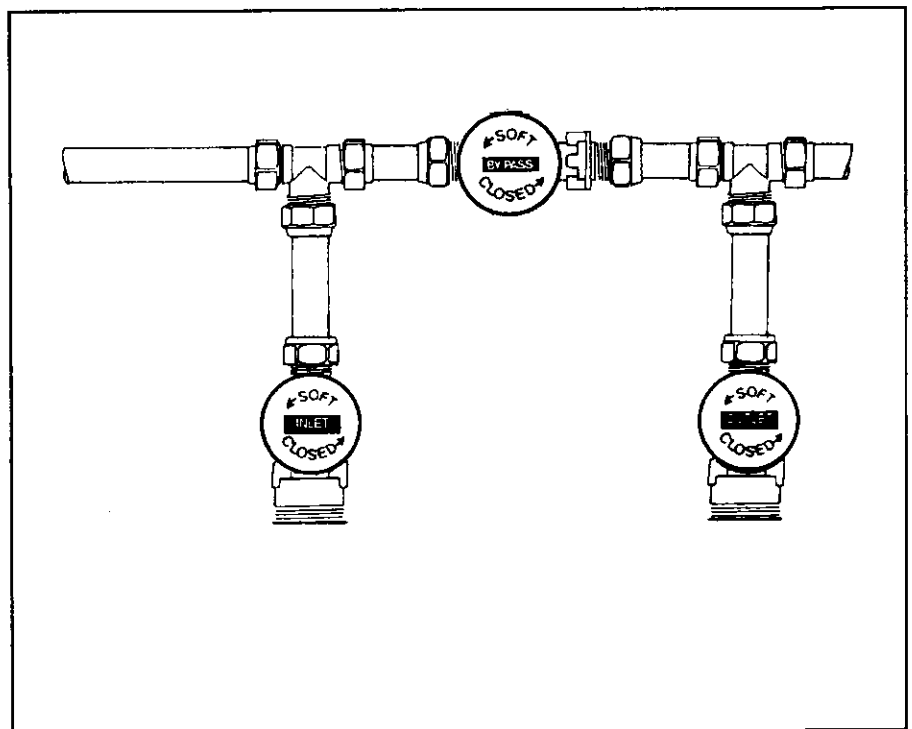


Part No.	Description
1	54306 Salt Port Lid
2	54324 Valve Cover
3	54540 Microprocessor
4	93245 12v Transformer/Power Cord
5	54303 Cabinet
6	54305 Support Panel
7	54226 Brine Line Shut Off Valve

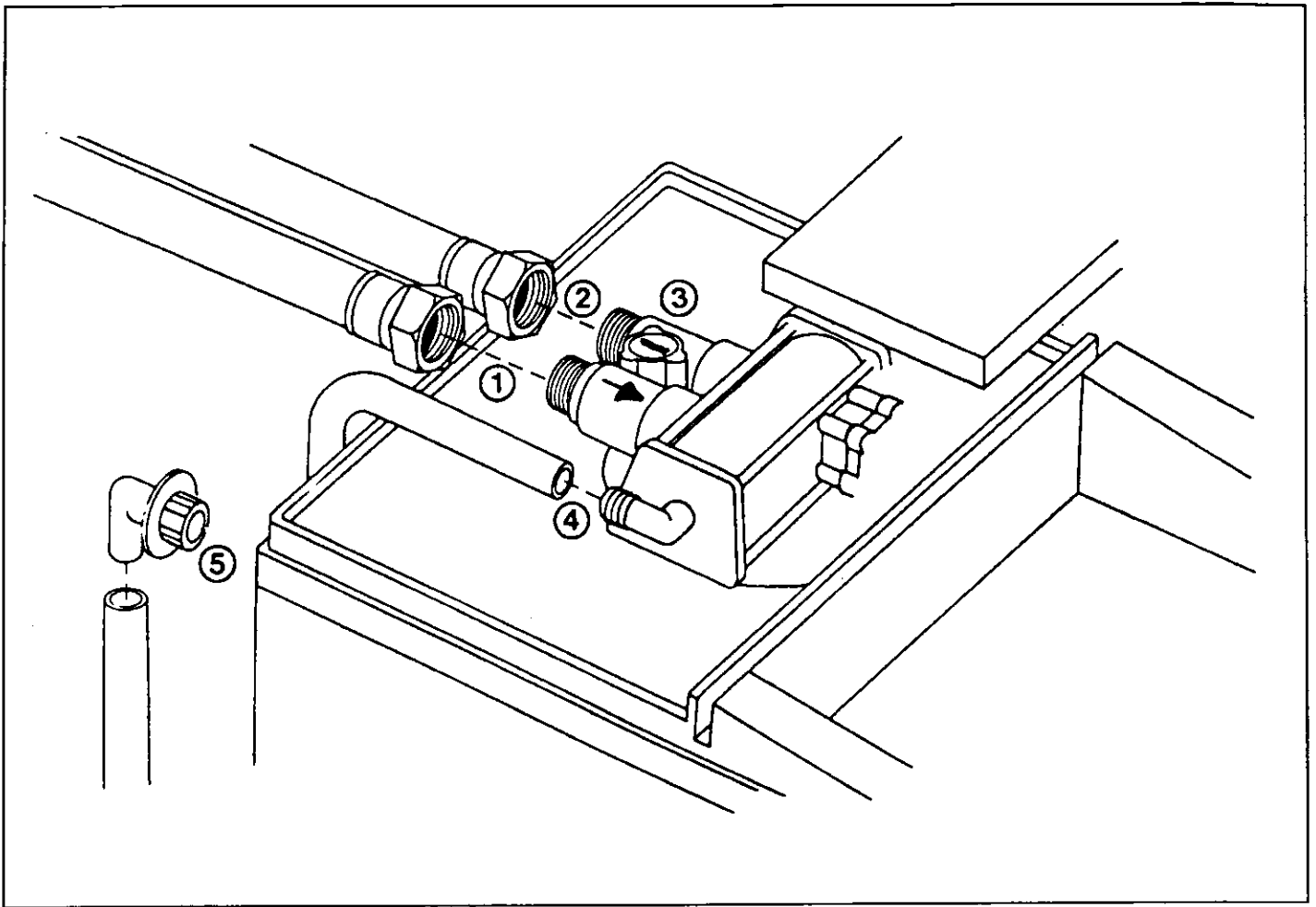
Exploded parts diagrams can be found on our website: www.colemanwater.co.uk



- The unit should be installed in accordance with the local Bye Laws and the BEWA*/QWG Code of Practice (COP.01.85) following the illustration above.
- An untreated supply should be provided for drinking and garden purposes.
- The diagram on this page shows valves in the by-pass position. Set in this position the water supply is maintained when the unit is isolated or removed.
- If the unit is installed outside, adequate protection must be given against frost.



* Now BRITISH WATER



Connect the unit

Lift and remove the valve cover from the back. Connect the unit as shown in the illustration to the mains supply. Check the inlet (number 1) and outlet (number 2) to ensure they are connected the right way round as indicated on the top of the valve.

Connect the drain

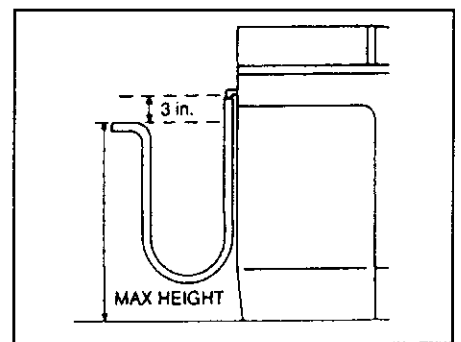
Soften one end of the clear hose in a kettle of hot water and slide it over connector (number 4). Cut to a suitable length to discharge into a standpipe or drain. A 1" air gap must be devised for all eventualities to prevent back siphoning. The drain line may be elevated 6 feet provided the water pressure is no less than 40 psi.

Connect the overflow line

Screw the overflow elbow into the back of the unit. Connect the remaining length of clear hose to connector (number 5) and take it through an outside wall as low as possible, cutting to leave 2" protruding.

The overflow line drains by gravity and must therefore be at least 3" lower than the connection to the cabinet.

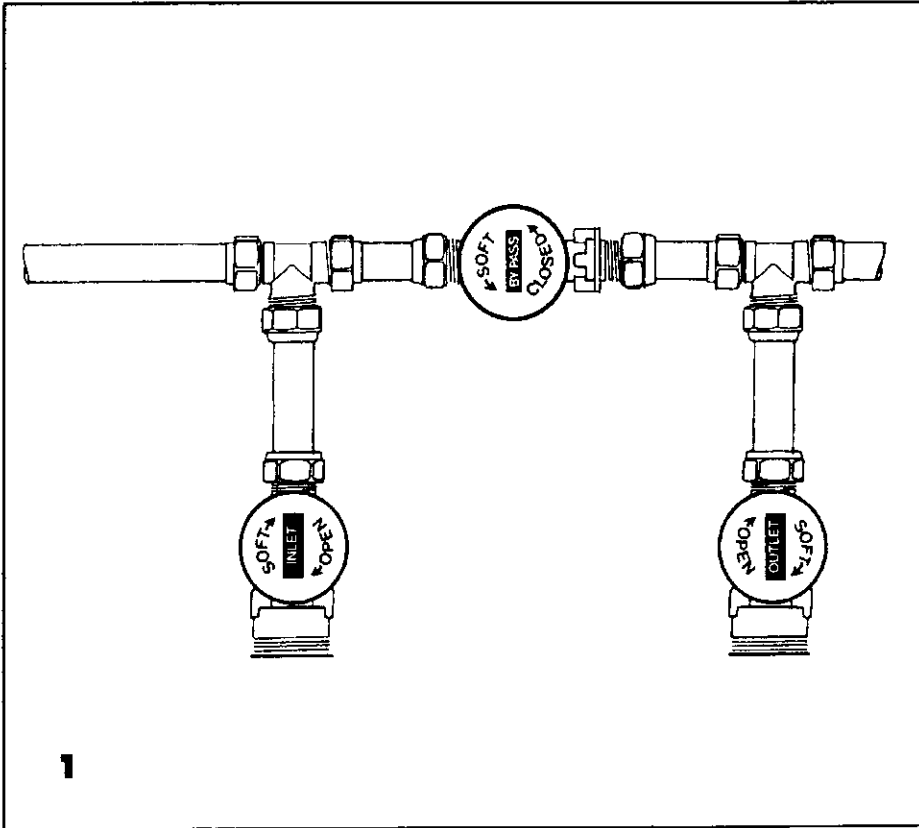
The overflow line should not be connected with the drain line. Ensure that no hoses are kinked or obstructed in any way.



Blending valve

The blending valve (number 3) is located between the input and output connections on the top of the softener valve. It is adjusted by placing a flat blade screwdriver in the slot and turning clockwise to introduce a little hardness to the water.

Total movement of the blending valve from fully closed to fully open is a quarter of a turn. In the diagram the valve is shown in the closed position.



1-START WATER

Open the inlet and outlet valves to the softener. Check for leaks. Close the bypass valve.

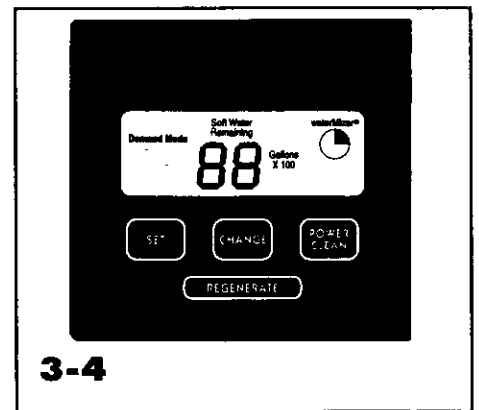
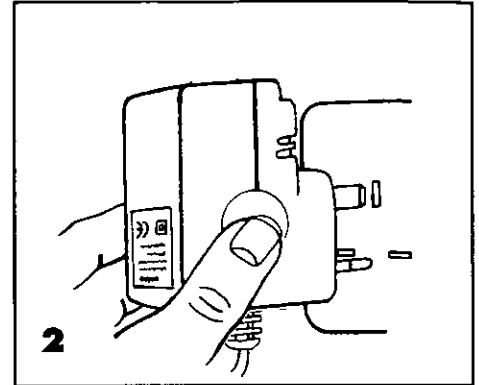
2-PLUG IN THE TRANSFORMER

Connect the transformer to a 240v AC supply (the microprocessor works on 12v AC). The display will light.

3-SET HARDNESS

Determine the hardness of your water and press SET until the display shows "Set Hardness". Now press CHANGE to record your hardness. Should you pass the setting you will have to go up to 70 and start again. Press SET to exit.

Turn on a tap directly fed from the softener and check that the WaterMiser symbol is rotating. Initially the water may be discoloured. This will clear in a short time.



4-INITIATE REGENERATION

Press and hold the REGENERATE button until 01 appears flashing in the display. Water will flow intermittently to drain until regeneration is complete in approximately 26 minutes. There will now be a few inches of water in the bottom of the cabinet.

Fill the cabinet with salt. The WaterBoss works perfectly well with tablet, granular or block salt. Do however ensure that your choice is specifically produced for water softeners.

Your WaterBoss is now fully operational and will regenerate when the indicated capacity has been exhausted. The operation is completely automatic and all you must do is check that the salt level is adequate.

Do not let the salt level fall below six inches.

Footnote; This guide assumes that the Microprocessor is set on all Default Settings as supplied and detailed on page 14.



Having set the hardness the volume of softened water available will show in the display (x 100). As water is drawn the display will reduce until 00 is displayed showing that less than 50 gallons are available.

On exhaustion the WaterBoss will Regenerate. The stages of regeneration are shown flashing in the display in the following sequence:

- 00 Regenerate standby
 - 01 Backwash
 - 02 Brine draw and slow rinse
 - 03 Rapid backwash
 - 04 Brine refill
 - H0 Return to service
- A regeneration normally takes 20 minutes and uses 14 gallons of water.

Watermiser

The WaterMiser symbol rotates when water is being drawn and thereby records usage.

Immediate regeneration

The REGENERATE button is normally only used when you have run out of salt. Should this be the problem fill the salt cabinet with salt, wait 2 hours for the salt to dissolve and then press the REGENERATE button until the display flashes 01.

PowerClean

Only to be used on private water supplies when instructed by your dealer. Engaging this will double your salt consumption.

Microprocessor

You do not have to worry about holidays or extra guests because the WaterBoss only regenerates when its capacity is exhausted. Then it waits until water is not being used before it goes into bypass and completes a fast regeneration.

Since the WaterBoss holds the programme information indefinitely, there will be no problems if there is an interruption of the electric supply. In the unlikely event that this should happen during a regeneration you may find that water will run to drain. It is suggested that you put the unit in bypass as shown on page 5 until power is restored.

Specific programming is detailed on page 14

CARE & MAINTENANCE page 12

PROBLEM	CAUSE	ACTION
No soft water	Turbine jammed (Watermizer doesn't blink) By-pass or blending valve is open Unit is plumbed in backwards Defective control panel	Call engineer Close Check and correct Call engineer
No soft water after recharge	No salt in brine tank Sediment in brine tank has blocked brine line Drain line is kinked or obstructed Clogged injector valve Salt bridge has formed	Add salt and recharge after 2 hours Call Engineer Straighten and clear Call engineer High humidity can create a salt 'bridge'. Break crust
Water level in salt cabinet high	Hose connections leaking Valve leaking Inadequate water pressure Drain line is kinked or obstructed	Check and tighten Call engineer Call engineer Call engineer
WaterBoss doesn't regenerate	By pass open Watermizer jammed Defective control panel	Close Call engineer Call engineer
Excessive salt consumption	PowerClean activated	Press PowerClean button to cancel

Control Panel

No readout	Electricity unconnected No electricity at outlet Defective transformer Terminal fault on back of control panel	Reconnect Check and restore Replace Repair
Watermizer doesn't blink with flow	By-pass valve is open Turbine jammed Sensor lead faulty Defective control panel Unit plumbed in backwards	Close Call engineer Call engineer Replace Reconnect
Watermizer blinks when water is not being used	There is a leak in your plumbing system Defective control panel	Call engineer Replace
Display numbers flashing (unit recharging) for more than 40 minutes	Motor defective Piston jammed Defective control panel Unit programmed for overnight regeneration	Call engineer Call engineer Replace Re-programme

In the event of an emergency, turn all valves to the by-pass position shown on page 5 and disconnect the electricity supply.

Help is otherwise available on the helplines - 01473 682488

The microprocessor will already be programmed and will generally need no further alteration.

Hold down SET and CHANGE simultaneously until display reads "HE". Your WaterBoss can be programmed for High Capacity (HC) or High Efficiency (HE). High Capacity means the unit will regenerate less often, but use more salt. High Efficiency will make the unit regenerate more often and use less salt. Press CHANGE to set "HC". Default is "HE".

3. Pressing SET will display "Demand Mode." Demand Mode triggers a regeneration as soon as softening capacity is exhausted. Press CHANGE to set Delayed Mode that allows regeneration at a specific time (e.g. at 2 am when less water is being used.) Default is "Demand Mode".

4. Pressing SET will display nothing new. Press CHANGE to select "96 Hours"-the unit will work no more than 4 days without a regeneration. (If there is iron in your water, select this option). Default is for "96 Hours" to be OFF.

5. Pressing SET will display "Gallons X100" remaining before next regeneration. Press CHANGE to select readout in litres. Default is "Gallons X100".

The following settings are only relevant when the micro processor is set on Delayed Mode.

6. Pressing SET will display "12". Press CHANGE to display 24 hour clock. Default is 12

7. Pressing SET will display "Set Time". To set the time, press and hold the CHANGE button to advance the numerical display. Default is 12.

8. Pressing SET will display "Set Reg. Time" and "02" is now displayed. To set the regeneration time, press and release the CHANGE button to advance the numerical display. Default is "02".

WATERBOSS GUARANTEE

Your WaterBoss is guaranteed for a period of three years at the installation address provided it has been installed in accordance with the guidance given in this manual, the operating parameters have been observed and it has been serviced by only approved personnel. It is also a condition of this guarantee that the installer completes the details opposite. Coleman Water will not be responsible for any labour charges with respect to this warranty. This guarantee is not transferable.

It will be necessary to produce this page when claiming service under guarantee.

Serial number

Date installed

Hardness setting.....°C

Agent.....

Installation address

Installer

Address

Signature