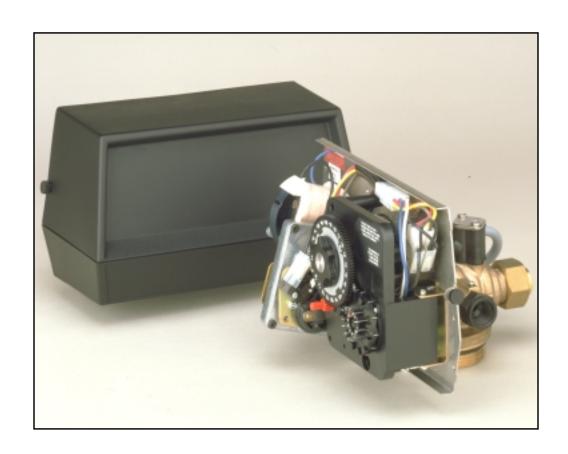
Service Manual



Job Specification Sheet

•	JOB	NO							
•	MODEL NO								
·	WAT	ER TEST							
•	CAP	ACITY PER UNITMAX	PER REGENERATION						
•	MINI	ERAL TANK SIZE DIAHEIGHT							
•	BRINE TANK SIZE & SALT SETTING PER REGENERATION								
•	2500	CONTROL VALVE SPECIFICATIONS							
	1.	Type of Timer A) Separate Time Fill B) Rapid Rinse							
	2.	Type of Meter (3/4") A) *Std. range 125 to 2,100 gal. setting B) * Ext. range 625 to 10,500 gal. setting							
	3.	Meter Gallon Setting	gal.						
	4.	Regeneration Program Setting (see page 5) A) Backwash B) Brine & Slow Rinse C) Rapid Rinse D) Brine Tank Refill	min. min.						
	5.	Drain Line Flow Control	gpm						
	6.	Brine Refill Rate	gpm						
	7.	Injector Size							

Installation Instructions

The water softener should be installed with the inlet, outlet and drain connections made in accordance with manufacturer's recommendations and to meet applicable plumbing codes.

- 1. Remove control box cover.
- 2. Make "Time of Day" setting and set "Program Wheel." (See time control instructions). Rotate program wheel counter clockwise until it stops at regeneration position.
- 3. Observe regeneration cycle settings. (These are factory preset and need no adjustment).
- 4. Add three inches of water to brine tank.
- 5. NOTE: To set the control to the various positions noted below turn the manual regeneration knob slowly in a clockwise direction until the drive motor runs and positions the valve drive shaft (located in the lower center of the control box.)

Control Valve Positions

Service — Drive shaft out

Backwash — Drive shaft in

Brine and Rinse — Drive shaft 1/2 way out

Brine Tank Fill — Drive shaft out but brine cam holds brine valve stem in.

- 6. Run water through softener with control in service position for at least three (3) minutes to settle bed.
- 7. Position valve to backwash and check to make sure that drain line flow remains steady for ten (10) minutes.
- 8. Position valve to brine tank fill and check to see if tank is filling.
- 9. Position valve to brine position and check suction.
- 10. Position valve to start of brine tank fill cycle. Brine valve drive cam will hold valve in at this position to fill the brine tank for the first regeneration.
- 11. Replace control box cover.
- 12. Check power cord connection. (Note: Make sure control is plugged into a non-interrupted electrical circuit).
- 13. Put salt in brine tank. (Do not use granulated salt.)

Demand Regeneration Control

Start-up Procedure

Typical Residential Application

To program, just set the time, set the hardness and it automatically monitors system needs and regenerates only when necessary. To set time of day press red time set button and turn 24 hour gear until present time of day is opposite "time of day arrow." Set program wheel by lifting the "people" dial and rotating it so that the number of people in the household is aligned with the grains per gallon water hardness scale. Release the dial and check for firm engagement at setting. (This method will provide reserve capacity based on 75 gallons per person.)

Optional Programming Procedure

Calculate the gallon capacity of the system, subtract the necessary reserve requirement and set the gallons available opposite the small white dot on the program wheel gear. Note, drawing shows 850 gallon setting. The capacity (gallons) arrow denotes remaining gallons exclusive of fixed reserve.

ie: Calculated gallon capacity of system is 1000 gallons. Number of people using the system is 4.75 gallons per person is used for a safe reserve capacity - 300 gallons reserve = 700 gallons available. This number should be set opposite the white dot on program wheel.

How To Set The Time Of Day:

Press and hold the red button in to disengage the drive gear.

Turn the large gear until the actual time of day is at the time of day pointer.

Release the red button to again engage the drive gear.

How To Manually Regenerate Your Water Conditioner At Any Time:

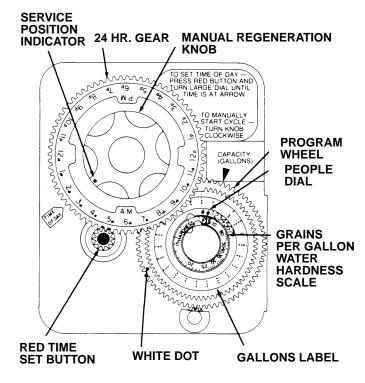
Turn the manual regeneration knob clockwise.

This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.

The black center knob will make one revolution in the following approximately three hours and stop in the position shown in the drawing.

Even though it takes three hours for this center knob to complete one revolution, the regeneration cycle of your unit might be set for only one half of this time.

In any event, conditioned water may be drawn after rinse water stops flowing from the water conditioner drain line.



IMPORTANT! SALT LEVEL MUST ALWAYS BE ABOVE WATER LEVEL IN BRINE TANK.

Regeneration Cycle Program Setting Procedure

How to Set The Regeneration Cycle Program:

The regeneration cycle program on your water conditioner has been factory preset, however, portions of the cycle or program may be lengthened or shortened in time to suit local conditions.

If unit has a meter, disconnect meter cable from meter at this time.

To expose cycle program wheel, grasp timer in upper lefthand corner and pull, releasing snap retainer and swinging timer to the right. (meter cable must be disconnected)

To change the regeneration cycle program, the program wheel must be removed. Grasp program wheel and squeeze protruding lugs towards center, lift program wheel off timer. (Switch arms may require movement to facilitate removal).

How To Change The Length Of The Backwash Time:

The program wheel as shown in the drawing is in the service position. As you look at the numbered side of the program wheel, the group of pins starting at zero determines the length of time your unit will backwash.

FOR EXAMPLE: If there are six pins in this section, the time of backwash will be 12 min. (2 min. per pin). To change the length of backwash time, add or remove pins as required. The number of pins times two equals the backwash time in minutes.

How To Change The Length Of Brine And Rinse Time:

The group of holes between the last pin in the backwash section and the second group of pins determines the length of time that your unit will brine and rinse. (2 min. per hole.)

To change the length of brine and rinse time, move the rapid rinse group of pins to give more or fewer holes in the brine and rinse section. Number of holes times two equals brine and rinse time in minutes.

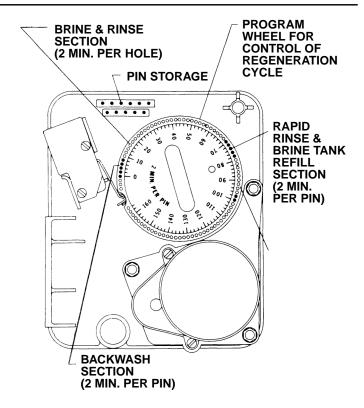
How to Change The Length Of Brine Tank Refill Separate From Rapid Rinse: STF Black Cams

The second group of pins on the program wheel determines the length of time that your water conditioner will rapid rinse. (2 min. per pin.)

To change the length of rapid rinse time, add or remove pins at the higher numbered end of this section as required. The number of pins times two equals the rapid rinse time in minutes.

How To Change The Length Of Brine Tank Refill Time:

The second group of holes on the program wheel determines the length of time that your water conditioner will refill the brine tank. (2 min. per hole.)



To change the length of refill time, move the two pins at the end of the second group of holes as required.

The regeneration cycle is complete when the outer microswitch is tripped by the two pin set at end of the brine tank refill section. The program wheel, however, will continue to rotate until the inner micro-switch drops into the notch on the program wheel.

How To Change The Length Of Rapid Rinse And Brine Tank Fill Time: RR White Cams

The second group of pins on the program wheel determines the length of time that your water conditioner will rapid rinse and brine tank fill. (2 min. per pin.)

To change the length of rapid rinse and brine tank fill time, add or remove pins at the higher numbered end of this section as required. The number of pins times two equals the rapid rinse and brine tank fill time in minutes.

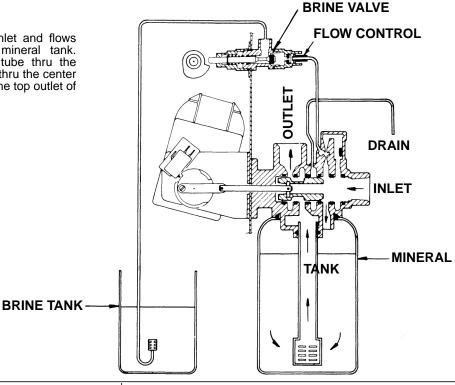
The regeneration cycle is complete when the outer microswitch drops off the last pin in the rapid rinse and brine tank fill group of pins. The program wheel, however, will continue to rotate until the inner micro-switch drops into the notch on the program wheel.

Return timer to closed position engaging snap retainer in back plate. Make certain all electrical wires locate above snap retainer post and the meter cable slides through the backplate and does not bind. Reconnect meter cable.

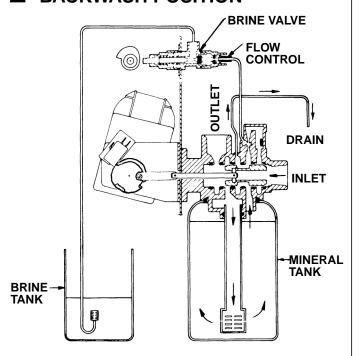
Water Conditioner Flow Diagrams

1 SERVICE POSITION

Hard water enters unit at valve inlet and flows down thru the mineral in the mineral tank. Conditioned water enters center tube thru the bottom distributor then — flows up thru the center tube — around the piston and out the top outlet of the valve

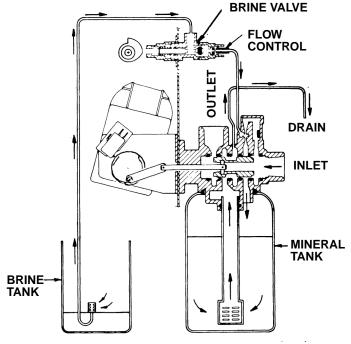


2 BACKWASH POSITION



Hard water enters unit at valve inlet — flows thru piston — down center tube — thru bottom distributor and up thru the mineral — around the piston and out the drain line.

$oldsymbol{3}$ BRINE POSITION

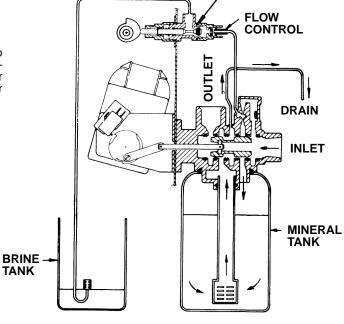


Hard water enters unit at valve inlet — flows up into injector housing and down thru nozzle and orifice to draw brine from the brine tank — brine flows down thru mineral and enters the center tube thru bottom distributor flows up thru center tube — around the piston and out thru the drain line.

Water Conditioner Flow Diagrams (Cont'd.)

4 SLOW RINSE POSITION

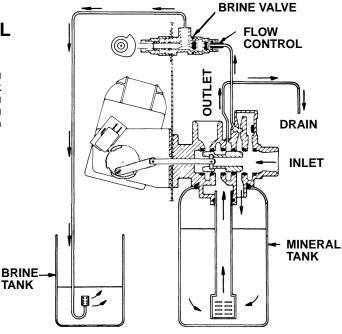
Hard water enters unit at valve inlet — flows up into injector housing and down thru nozzle and orifice — around the piston — down thru mineral enters center tube thru bottom distributor — flows up thru center tube — around piston and out thru the drain line.



BRINE VALVE

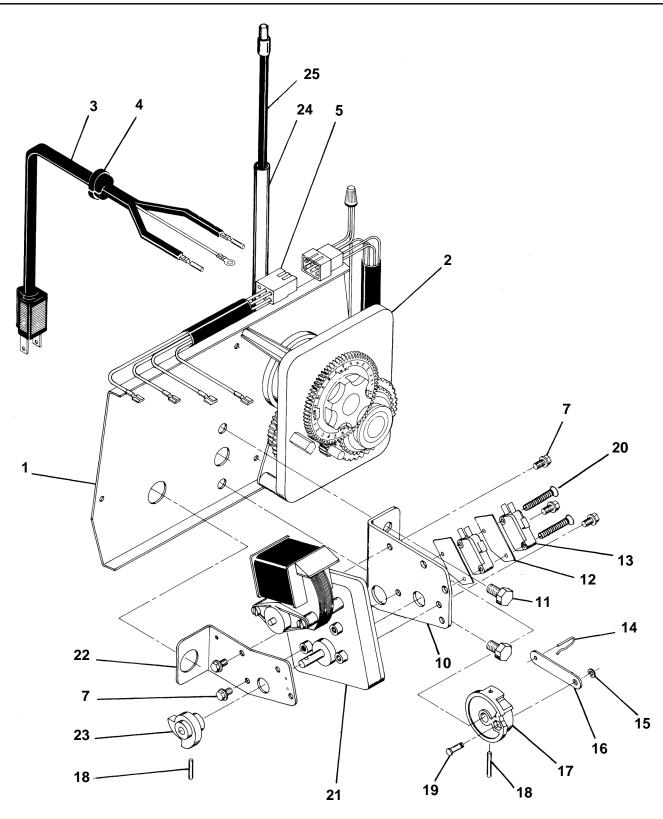
5 RAPID RINSE & BRINE TANK FILL

Hard water enters unit at valve inlet — flows up thru injector housing and thru brine valve to fill brine tank — hard water also flows directly from inlet down thru mineral into center tube bottom distributor and up thru center tube — around piston and out thru the drain line.



Control Valve Drive Assembly

(See opposite page for parts list)



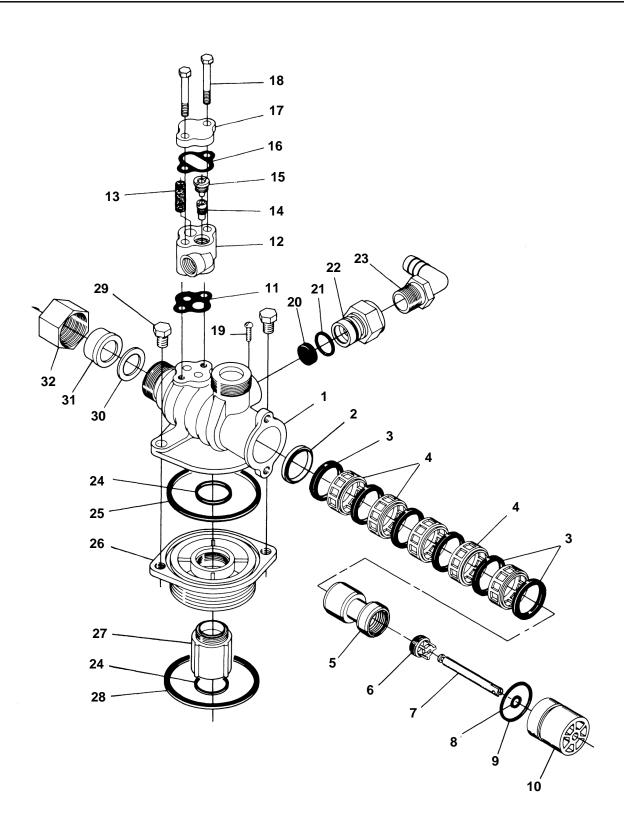
Control Valve Drive Assembly (Cont'd.)

Parts List

Item No.	Quantity	Part No.	Description
1	1	. 14884	. Back Plate - Stainless Steel
	1	. 11209	. Back Plate - Slant Front (not shown)
2	1		. 3200, Metered Unit Timer
3	1	. 11838	. Power Cord
4	1	. 13547	. Strain Relief
5	1	. 11667	. Wire Harness
			<u> </u>
7	5	. 10872	. Screw - Motor Mounting
8			. Not Assigned
9			. Not Assigned
10	1	. 10774	. Bracket - Motor Mounting
11	2	. 10231	. Screw - Drive Mounting
12	2	. 10302	. Insulator
		. 10218	
14	1	. 10909	. Connecting Link Pin
		. 10250	3 3
		. 10621	•
17		. 12576	,
		. 12102	` ,
		. 10338	
		. 13366	S .
		. 14923	G .
		. 10769	
			. Bracket - Brine Valve Side
23			. Brine Valve Cam - STF (Black) - (shown)
			. Brine Valve Cam - RR (White)
		. 15625	•
		. 14968	
			. Screw - Timer Mounting (not shown)
		. 13741	,
28	1	. 17904	. Hole Plug (not shown)
		COVER MOUNTING HA	ARDWARE
Stainless S			
		. 19367	. Screw
Slant Front		10200	Caravi
Back Plate	4	. 10300	. Screw

Control Valve Assembly

(See opposite page for parts list)



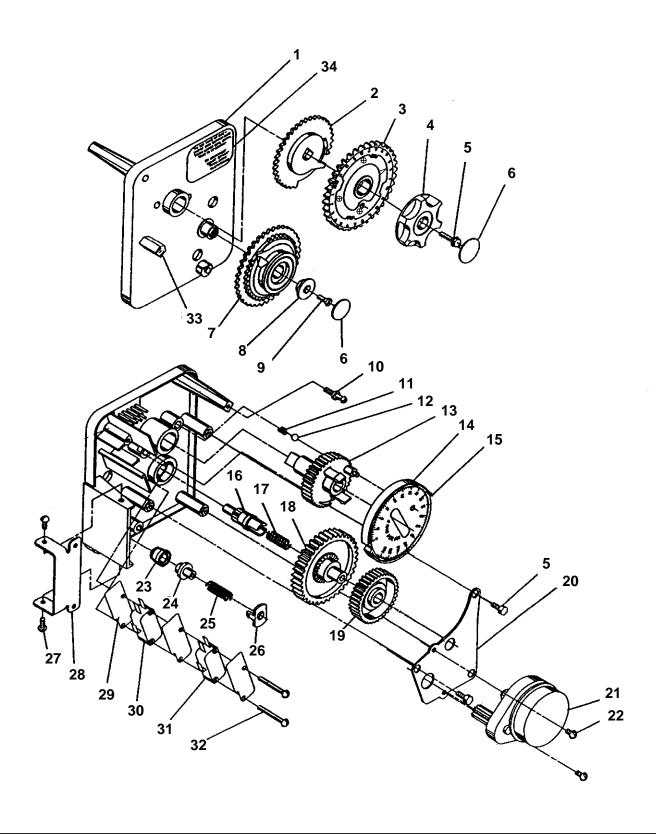
Control Valve Assembly (Cont'd.)

Parts List

Item No.	•	Part No.	Description
		11212	
2		10757	•
			End Spacer, Hot Water
3		10545	
	-	17773	
4		11451	
_		16589	
		15168	
		14309	
			Piston Rod Retainer, Hot Water
		14452	
8		10209	<u> </u>
_			Seal Quad Ring, Hot Water
			Seal O-Ring - End Plug
10		10598	
			End Plug Assembly, Hot Water
		11475	
		17776	
		11483	
		10227	
			Injector Throat (Specify Size)
			Injector Throat, Stainless Steel (Specify Size)
			Injector Nozzle (Specify Size)
			Injector Nozzle, Stainless Steel (Specify Size)
		10229	<u> </u>
17			Injector Cover (Brass Body)
			Injector Cover (Plastic Body)
		10692	
			Flow Control Retainer Screw
			Flow Control Washer (Specify Flow Rate in G.P.M.)
		11183	
22		11385	
			Flow Control Housing, Brass
			Flow Control Housing, Brass Bored
23	1	12338	1/2 Pipe x 1/2 Hose x 90° Drain Fitting
		10244	5
		11208	
26			Valve Body Adapter (For 2 1/4 - 16 Thd)
			Valve Body Adapter (For 2 1/2 - 8 Thd)
27			Distributor Tube Pilot Assembly 13/16"
			Distributor Tube Pilot Assembly 13/16", Hot Water
28			Tank O-Ring (For 2 1/4 - 16 Thd)
			Tank O-Ring (For 2 1/2 - 8 Thd)
		12570	
		11224	
		11206	
		11205	
		11207	
NOTE: F	or Flat Cap/Backwasl	h Filter Valve - Loss Items 12	2 thru 18.
		11893	
34	2	15137	Screw Flat Cap

Timer Assembly

(See opposite page for parts list)

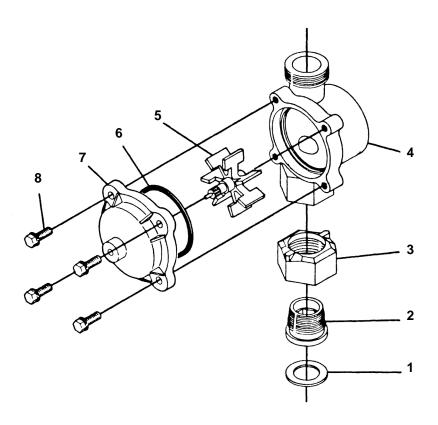


Timer Assembly (Cont'd.)

Parts List

Item No.	Quantity	Part No.	Description
1	1	13870-01	. Timer Housing Assembly
2	1	13802	. Cycle Actuator Gear
3	1	40096-24	. 24 Hour Gear Assembly, 12 Midnight
		40096-02	. 24 Hour Gear Assembly, 2 a.m.
4	1	13886-01	. Knob
5	4	13296	. Screw - Timer Knob and Motor Plate Mtg.
6	2	11999	. Button Decal
7	1	60405-15	. Program Wheel Assy. (Specify Hardness Capacity)
8	1	13806	. Program Wheel Retainer
9	1	13748	. Screw - Program Wheel Mtg.
10	1	14265	. Spring Clip
11	1	15424	. Spring - Detent
12	1	15066	. Ball - 1/4 in. Dia.
		13911	
14	1	19210	. Program Wheel
		15493	
16	1	13018	. Idler Shaft
17	1	13312	. Spring - Idler
		13017	
19	1	13164	. Drive Gear
		13887	<u> </u>
21	1	18743	
		19659	·
		13278	_
			. Drive Pinion - Program Wheel
		13831	
		14276	. •
		14253	
			. Screw - Timer Hinge and Ground Wire
28	1	13881	. Hinge Bracket
=	_	14087	
		10896	
		15320	
			. Screw - Switch Mounting
		14007	
		14045	
		13902	
		12681	
Not Show	n 1	15354-01	. Ground Wire 17748-01 F.E.

Meter Assembly



PARTS LIST

Item No.	Quantity	Part No.	Description
1	1	11206	Fitting Gasket
2	1	13942	Nut Retainer
3	1	11207	Special Nut
4	1	14083	Meter Body Assembly
5	1	13509	Impeller
		13509-01	Impeller, Hot Water
6	1	13847	O-Ring - Meter Cover Assembly
7	1	14038	Meter Cover Assembly
	1	15218	Meter Cover Assembly, Brass
	1	15150	Meter Cover Assembly Extended Range (not shown)
	1	15237	Meter Cover Assembly Extended Range (not shown), Brass
8	4	12473	Screw - Meter Cover Assembly

1600 Series Brine System Assembly

	3 2 4 5 6 4 5 3 3	23 22 20 - 2 20	19 18 17 16 15 14
8	Item No. Quantity	Part No.	Description
7	1 1 2 1 3 3 4 3 5 3 6 1 7 1 8 1 9 1 10 1 11 1 12 1 13 1 14 1 15 1 16 1 17 1 18 1 19 1 *20 1 *21 1 *22 1 *23 1	10328 12767 10332 10329 10330 12774 60002 12794 Not Supplied 10250 11749 12550 12748 12550 12748 12562 12747	

Service Instructions

	PROBLEM		CAUSE		CORRECTION
1.	Softener fails to regenerate.	A.	Electrical service to unit has been interrupted.	A.	Assure permanent electrical service (check fuse, plug, pull chain or switch).
		B.	Timer is defective.	B.	Replace timer.
		C.	Power failure.	C.	Reset time of day.
2.	Hard water.	A.	By-pass valve is open.	A.	Close by-pass valve.
		B.	No salt in brine tank.	B.	Add salt to brine tank and maintain salt level above water level.
		C.	Injector screen plugged.	C.	Clean injector screen.
		D.	Insufficient water flowing into brine tank.	D.	Check brine tank fill time and clean brine line flow control if plugged.
		E.	Hot water tank hardness.	E.	Repeated flushings of the hot water tank is required.
		F.	Leak at distributor tube.	F.	Make sure distributor tube is not cracked. Check O-ring and tube pilot.
		G.	Internal valve leak.	G.	Replace seals and spacers and/ or piston.
3.	Unit used too much salt.	A.	Improper salt setting.	A.	Check salt usage and salt setting.
		B.	Excessive water in brine tank.	B.	See problem no. 7
4.	Loss of water pressure.	A.	Iron buildup in line to water conditioner.	A.	Clean line to water conditioner.
		B.	Iron buildup in water conditioner.	B.	Clean control and add mineral cleaner to mineral bed. Increase frequency of regeneration.
		C.	Inlet of control plugged due to foreign material broken loose from pipes by recent work done on plumbing system.	C.	Remove piston and clean control.
5.	Loss of mineral through drain line.	A.	Air in water system.	A.	Assure that well system has proper air eliminator control. Check for dry well condition.
6.	Iron in conditioned water.	A.	Fouled mineral bed.	A.	Check backwash, brine draw and brine tank fill. Increase frequency of regeneration. Increase backwash time.

Service Instructions (Cont'd.)

PROBLEM	CAUSE	CORRECTION
7. Excessive water in brine tank.	A. Plugged drain line flow control.	A. Clean flow control.
	B. Plugged injector system.	B. Clean injector and screen.
	C. Timer not cycling.	C. Replace timer.
	D. Foreign material in brine valve.	D. Replace brine valve seat and clean valve.
	E. Foreign material in brine line flow control.	E. Clean brine line flow control.
8. Softener fails to draw brine.	A. Drain line flow control is plugged.	A. Clean drain line flow control.
	B. Injector is plugged.	B. Clean injector.
	C. Injector screen plugged.	C. Clean screen.
	D. Line pressure is too low.	D. Increase line pressure to 20 P.S.I.
	E. Internal control leak.	E. Change seals, spacers and piston assembly.
9. Control cycles continuously.	A. Broken or shorted switch.	Determine if switch or timer is faulty and replace it, or replace complete power head.
10. Drain flows continuously.	A. Valve is not programing correctly.	A. Check timer program and positioning of control. Replace power head assembly if not positioning properly.
	B. Foreign material in control.	B. Remove power head assembly and inspect bore. Remove foreign material and check control in various regeneration positions.
	C. Internal control leak.	C. Replace seals and piston assembly.

General Service Hints For Meter Control

Problem: Softener Delivers Hard Water.

Cause could be that . . . Reserve Capacity Has Been Exceeded.

Correction: Check salt dosage requirements and reset program wheel to provide additional reserve.

Cause could be that... Program Wheel Is Not Rotating With Meter Output.

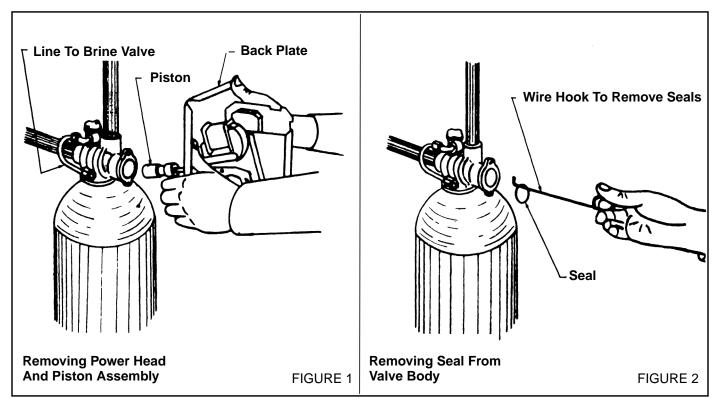
Correction: Pull cable out of meter cover and rotate manually. Program wheel must move without binding and clutch must give positive clicks when program wheel strikes regeneration stop. If it does not, replace timer.

Cause could be that... Meter Is Not Measuring Flow.

Correction: Check output by observing rotation of small gear on front of timer (Note — program wheel must not be against regeneration stop for this check). Each tooth to tooth is approximately 30 gallons. If not performing properly, replace meter.

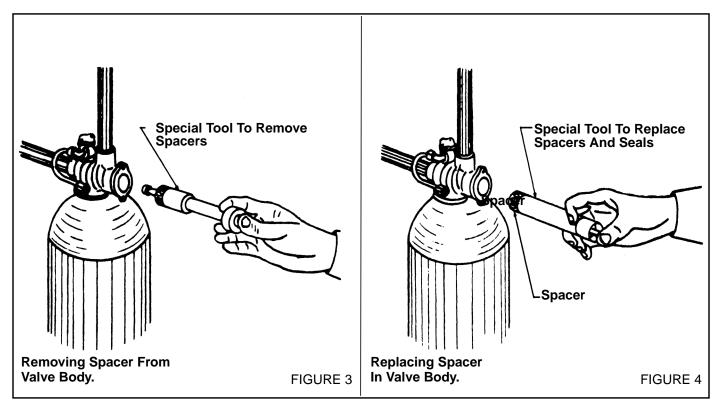
Seal and Spacer Replacement

- 1. Remove electrical plug from outlet, turn off water supply to valve and relieve water pressure.
- 2. Remove control box cover.
- 3. Disconnect the brine line, from the injector housing to the brine valve (if your unit has timed brine tank fill).
- 4. Remove the two capscrews that hold the back plate to the valve.
- 5. Grasp the back plate on both sides and slowly pull end plug and piston assembly out of the valve body, (see Fig. 1) and lay aside.



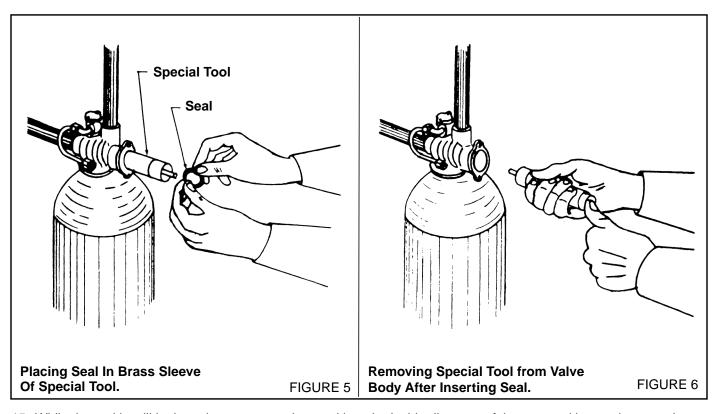
- 6. Remove the seal first using the wire hook with the finger loop (see Fig. 2).
- 7. The spacer tool (use only for removing the spacers) has three retractable pins, retained by a rubber ring, at one end; they are retracted or pushed out by pulling or pushing the center button on the opposite end.
- 8. Insert the pin end of the spacer tool into the valve body with the pins retracted (button pulled back). Push the tool tight against the spacer and push the button in, (see Fig. 3). When the button is pushed in, the pins are pushed out to engage the 1/4 dia. holes in the spacer. Remove the tool from the valve body. The spacer will be on the end. Pull the center button back, the pins will be retracted and the spacer can be removed from the spacer tool.

Seal and Spacer Replacement (Cont'd.)



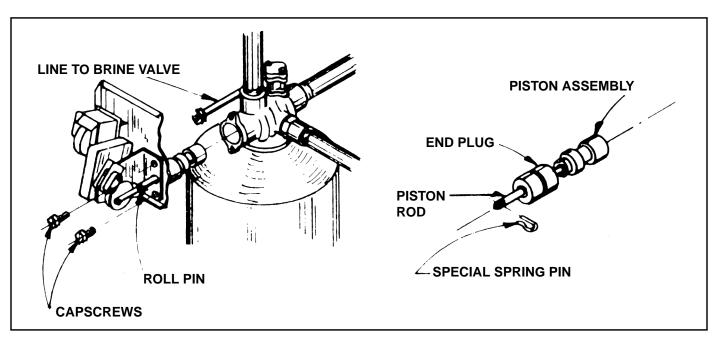
- 9. Alternately remove the remaining seals and spacers in accordance with steps No. 6 and 8.
- 10. The last or end spacer does not have any holes for the pins of the spacer tool to engage, therefore if the end spacer does not come out on the first try, try again using the wire hook with the finger loop.
- 11. To replace seals, spacers and end ring use special tool with the brass sleeve on one end. This is a double-purpose tool. (See Fig. 4.) The male end acts as a pilot to hold the spacers as they are pushed into the valve body and the brass female end is used to insert the seals into the valve body.
- 12. To restuff a valve body first take the end ring, (the plastic or brass ring without holes), then with your thumb press the button on the brass sleeve end, the large dia. inner portion is now exposed. (See Fig. 4.) Place the end ring on this pilot with the lip on the end ring facing the tool, and push the tool into the valve body bore until it bottoms. While the tool is in the valve body take a seal and press it into the inside diameter of the exposed brass female end. (See Fig. 5.)
- 13. Remove the tool, turn it end for end and insert it into the valve body bore. While holding the large dia. of the tool, slide it all the way into the valve body bore until it bottoms, then push the center button to push the seal out of the tool and leave it in place in the valve body. (See Fig. 6.)
- 14. Remove the tool from the valve body and push the center on the brass female end to expose the pilot on the opposite end. Place a spacer on this end and insert the spacer and tool into the valve.

Seal and Spacer Replacement (Cont'd.)



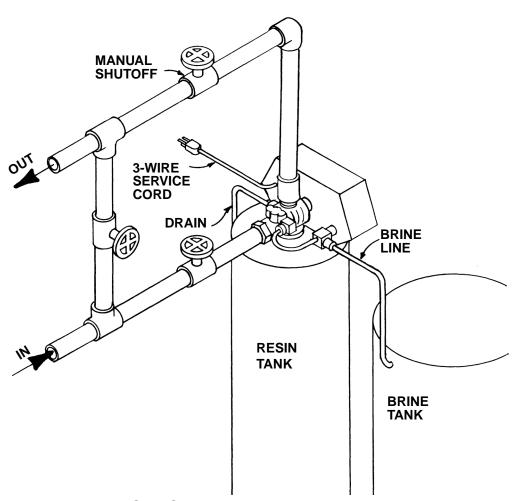
- 15. While the tool is still in the valve, press another seal into the inside diameter of the exposed brass sleeve end.
- 16. Remove the tool, turn it end for end, and insert it into the valve body bore.
- 17. Alternately repeat steps No. 13 and 14 until all seals and spacers have been pushed into the valve. (See valve cross section of your valve.)
- 18. Place silicone lubricant on the piston and inside the valve.
- 19. Hold the back plate with one hand and guide the piston into the valve body with the other hand, then grasp the back plate on both sides and slowly push the piston assembly and end plug assembly into the valve. (See Fig. 1.)
- 20. Replace the two capscews to hold the back plate to the valve and tighten securely.
- 21. Connect the brine line from the injector housing to the brine valve, (if your unit has timed brine tank fill).
- 22. Set the time of day dial to the correct time.
- 23. Replace the electrical plug in the outlet.
- 24. Turn on water supply.
- 25. Cycle control and check for proper function.
- 26. Check by-pass valve.

Piston Assembly Replacement



- 1. Turn off water supply to the valve and relieve water pressure.
- 2. Cycle the valve until the piston is in the service position (piston rod all the way out).
- 3. Remove electrical plug from outlet.
- 4. Remove two capscrews holding back plate to valve.
- 5. Disconnect brine line, from injector housing to brine valve, at the brine valve (if your unit has timed brine tank fill).
- 6. Grasp the back plate on both sides and slowly pull end plug and piston assembly out of the valve body.
- 7. Pull out the roll pin or special spring pin that connects the piston rod to the connecting link and remove the complete end plug and piston assembly.
- 8. Take the new piston assembly as furnished, pass thru the back plate and motor support and fasten piston rod to the connecting link with special spring pin.
- 9. Inspect the inside of the valve to make sure that all seals and spacers are in place.
- 10. Spread or spray silicone lubricant on the piston and on the seals inside the valve body.
- 11. While holding the back plate on the side with one hand, start the piston into the valve by guiding it with the other hand. Then grasp the back plate on both sides and slowly push the piston and then the end plug into the valve.
- 12. Replace the two valve body capscrews and tighten.
- 13. Connect the brine line to the brine valve, if used.
- 14. Place electrical plug in outlet.
- 15. Set time of day.
- 16. Turn on water supply.
- 17. Cycle control and check for proper function.
- 18. Make sure that valve is in service position (piston rod all the way out).
- 19. Check by-pass valve.

Typical Top Mounting Installation



TYPICAL CONTROL VALVE INFORMATION

Tank Size Dia.			Brine Draw Rate (SPM) @ 40 PSI	B.L.F.C. ¹	D.L.F.C. ²
6″	#0	.31 gpm	.28 gpm	.5 gpm	1.2 gpm
7″	#0 Red	.31 gpm	.28 gpm	.5 gpm	1.2 gpm
8″	#1	.45 gpm	.38 gpm	.5 gpm	1.5 gpm
9″	#1 White	.45 gpm	.38 gpm	.5 gpm	2.0 gpm
10″	#1	.45 gpm	.38 gpm	.5 gpm	2.4 gpm
12"	#2	.84 gpm	.56 gpm	1.0 gpm	3.5 gpm
13"	#2 Blue	.84 gpm	.56 gpm	1.0 gpm	4.0 gpm
14"	#3	1.0 gpm	.63 gpm	1.0 gpm	5.0 gpm
16"	#3 Yellow	1.0 gpm	.63 gpm	1.0 gpm	7.0 gpm

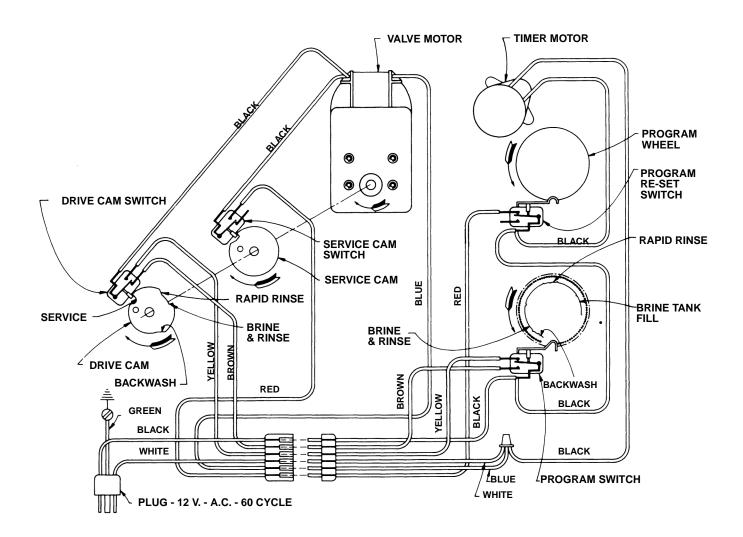
Note: Due to varying water conditions, tank sizes and water pressures, the above settings should be used only as a guideline.

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¹B.L.F.C. (Brine Line Flow Control). Refill Rate for Filling Brine Tank.

²D.L.F.C. (Drain Line Flow Control). Backwash and Rapid Rinse Flow Rates.

Wiring Diagram for Valve Drive Motor and Timer



Service Assemblies

60020-25BLFC .25 GPM	60122 Seal and Spacer Kit, Hot Water
60020-50 BLFC .50 GPM	water 610545Seal, Piston, Hot Water
60020-100BLFC 1.0 GPM	110757BEnd Spacer, Hot Water
For illustration, See Page 15	5 16589 Spacer, 12 Hole, Hot Water
60029	60050
1 Brine Valve Spring	For Illustration, See Page 8
1 10250 Retaining Ring	210218Micro Switch
2 10329 3/8" Brass Nut 2 10330 3/8" Ferrule	1Retaining Ring
2 10330	210302Insulator, Limit Switch
1	210338Pin, Roll 3/32 x 7/8
1	110621Link, 2500
1	110769Motor, Drive 110V 60HZ 110774Bracket, Motor Drive Side
1 12626 Shut Off Valve Seat	510872Screw, Hex Washer
1	8-32 x 5/16
1	111667Wire Harness, Drive Motor
60080 1600 Injector Assembly	111826Bracket, Sensor Motor
For Illustration, See Page 10	112576Cam, Drive STF
1 10227 Injector Screen	1
1 10227	113366Bearing, Drive 2500
1 10229 Injector Cover Gasket	214923Screw, Pan HD Mach 4-40 x 1
1 10328	1
210692Screw	60306-XXTimer, 3210 Delay
1 10913 Injector Nozzle	60307-XXTimer, 3220 Timed
1 Injector Throat	See Parts Price List
1 Injector Body Gasket	
1	60135-2500 Service Repair Kit See Parts Price List
60090Piston Assembly	
For Illustration, See Page 10	60085Meter, 3/4" Std Range
1 10209 Quad Ring, -010	60387Meter, 3/4" Ext Range
1 10234 O-Ring, -024	For Illustration, See Page 14
1 End Plug Assembly	
1	
1	
1 14452 Piston Rod, 2500	
1 Retainer, Piston Rod	
60091 Piston Assembly, Hot Water For Illustration, See Page 10	
60121 Seal and Spacer Klt	
6 10545 Seal, Piston	
1	
5	

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