

Fleck 2750 Downflow

Service Manual

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JOB SPECIFICATION SHEET

Job Number:

Model Nu	mber:						
					ppm or gpg		
Capacity	Per Unit:						
		Diame	eter:	_ Height:			
Salt Settir	ng per Regen	eration:					
	e of Timer:						
A.	7 Day or 12	Day					
В.	Meter Initiate	ed					
2. Do	wnflow:	Upflow	Upflow	Variable			
3. Me	ter Size:						
A.	3/4" Std Ra	nge (125 - 2,100 ga	llon setting)				
В.	3/4" Ext Rai	nge (625 - 10,625 g	allon setting)				
C.	1" Std Rang	je (310 - 5,270 gallo	n setting)				
D.	1" Ext Rang	e (1,150 - 26,350 g	allon setting)				
E.	1-1/2" Std F	Range (625 - 10,625	gallon setting)			
F.	1-1/2" Ext R	Range (3,125 - 53,12	25 gallon settir	ng)			
G.	2" Std Rang	je (1,250 - 21,250 g	allon setting)				
H.	2" Ext Rang	e (6,250 - 106,250	gallon setting)				
1.	3" Std Rang	je (3,750 - 63,750 g	allon setting)				
J.	3" Ext Rang	e (18,750 - 318,750	gallon setting	g)			
K.	Electronic_	Pulse Co	unt	Meter Siz	e		
4. Sy	stem Type:						
A.	System #4:	1 Tank, 1 Meter, Im	mediate, or De	elayed Reg	eneration		
B.	System #4:	Time Clock					
C.	System #4:	Twin Tank					
D.	•	System #5: 2-5 Tanks, Interlock Mechanical 2-4 Tanks, Interlock Electronic Meter per unit for Mechanical and Electronic					
E.	System #6:	2-5 Tanks, 1 Meter, 2-4 Tanks, 1 Mete	•				
F.		2-4 Tanks, 1 Meter, Series Regeneration, Electronic System #7: 2-5 Tanks, 1 Meter, Alternating Regeneration, Mechanical 2 Tanks only, 1 Meter, Alternating Regeneration, Electronic					
G.	System #9:	Electronic Only, 2-4	Tanks, Meter	per Valve	Alternating		
H.	H. System #14: Electronic Only, 2-4 Tanks, Meter per Valve. Brings units on and offline based on flow.						
5. Tin	ner Program	Settings:					
A.	Backwash:				Minutes		
B.	Brine and S	Brine and Slow Rinse: Minutes					
C.	Rapid Rinse: Minutes						
D.	Brine Tank Refill: Minutes						
E.	E. Pause Time: Minutes						
F.	F. Second Backwash: Minutes						
6. Dra	ain Line Flow	Control:			gpm		
7. Bri	ne Line Flow	Controller:			gpm		
8. Inje	ector Size#:						
9. Pis	ton Type:						

A. Hard Water Bypass B. No Hard Water Bypass

INSTALLATION

Water Pressure

A minimum of 20 pounds (1.4 bar) of water pressure is required for regeneration valve to operate effectively.

Electrical Facilities

An uninterrupted alternating current (A/C) supply is required. Note: Other voltages are available. Please make sure your voltage supply is compatible with your unit before installation.

Existing Plumbing

Condition of existing plumbing should be free from lime and iron buildup. Piping that is built up heavily with lime and/or iron should be replaced. If piping is clogged with iron, a separate iron filter unit should be installed ahead of the water softener.

Location Of Softener And Drain

The softener should be located close to a drain to prevent air breaks and back flow.

BY-PASS VALVES

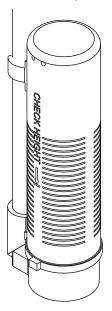
Always provide for the installation of a by-pass valve if unit is not equipped with one.

Water pressure is not to exceed 125 psi (8.6 bar), water temperature is not to exceed 110°F (43°C), and the unit cannot be subjected to freezing conditions.

Installation Instructions

- Place the softener tank where you want to install the unit making sure the unit is level and on a firm base.
- 2. During cold weather, the installer should warm the valve to room temperature before operating.
- 3. All plumbing should be done in accordance with local plumbing codes. The pipe size for residential drain line should be a minimum of 1/2" (13 mm). Backwash flow rates in excess of 7 gpm (26.5 Lpm) or length in excess of 20' (6 m) require 3/4" (19 mm) drain line. Commercial drain lines should be the same size as the drain line flow control.
- 4. Refer to the dimensional drawing for cutting height of the distributor tube. If there is no dimensional drawing, cut the distributor tube flush with the top of the tank.
- Lubricate the distributor O-ring seal and tank O-ring seal. Place the main control valve on tank. Note: Only use silicone lubricant.
- Solder joints near the drain must be done prior to connecting the Drain Line Flow Control fitting (DLFC). Leave at least 6" (15 cm) between the DLFC and solder joints when soldering pipes that are connected on the DLFC. Failure to do this could cause interior damage to the DLFC.
- Teflon tape is the only sealant to be used on the drain fitting. The drain from twin tank units may be run through a common line.
- 8. Make sure that the floor is clean beneath the salt storage tank and that it is level.
- Place approximately 1" (25 mm) of water above the grid plate. If a grid is not utilized, fill to the top of the air check (Figure 1) in the salt tank. Do not add salt to the brine tank at this time.
- 10. On units with a by-pass, place in by-pass position. Turn on the main water supply. Open a cold soft water tap nearby and let run a few minutes or until the system is free from foreign material (usually solder) that may have resulted from the installation. Once clean, close the water tap.

- 11. Slowly place the by-pass in service position and let water flow into the mineral tank. When water flow stops, slowly open a cold water tap nearby and let run until the air is purged from the unit.
- 12. Plug unit into an electrical outlet. Note: All electrical connections must be connected according to local codes. Be certain the outlet is uninterrupted.



60002 Rev E

Figure 1 Residential Air Check Valve

START-UP INSTRUCTIONS

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

 Turn the manual regeneraton knob slowly in a clockwise direction until the program micro switch lifts on top of the first set of pins. Allow the drive motor to move the piston to the first regeneration step and stop. Each time the program switch position changes, the valve will advance to the next regeneration step. Always allow the motor to stop before moving to the next set of pins or spaces.

NOTE: For electronic valves, please refer to the manual regeneration part of the timer operation section. If the valve came with a separate electronic timer service manual, refer to the timer operation section of the electronic timer service manual.

- Position the valve to backwash. Ensure the drain line flow remains steady for 10 minutes or until the water runs clear (see above).
- 3. Position the valve to the brine / slow rinse position. Ensure the unit is drawing water from the brine tank (this step may need to be repeated).
- Position the valve to the rapid rinse position. Check the drain line flow, and run for 5 minutes or until the water runs clear.
- Position the valve to the start of the brine tank fill cycle.
 Ensure water goes into the brine tank at the desired rate.
 The brine valve drive cam will hold the valve in this position to fill the brine tank for the first regeneration.
- 6. Replace control box cover.
- 7. Put salt in the brine tank.

NOTE: Do not use granulated or rock salt.

3200 TIMER SETTING PROCEDURE

How To Set Days On Which Water Conditioner Is To Regenerate (Figure 2)

Rotate the skipper wheel until the number "1" is at the red pointer. Set the days that regeneration is to occur by sliding tabs on the skipper wheel outward to expose trip fingers. Each tab is one day. Finger at red pointer is tonight. Moving clockwise from the red pointer, extend or retract fingers to obtain the desired regeneration schedule.

How To Set The Time Of Day

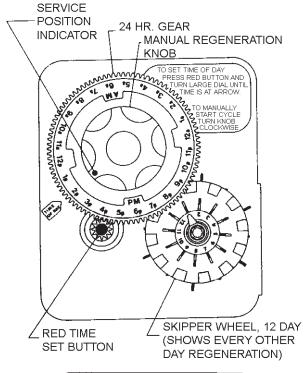
- Press and hold the red button in to disengage the drive gear.
- 2. Turn the large gear until the actual time of day is at the time of day pointer.
- 3. Release the red button to again engage the drive gear.

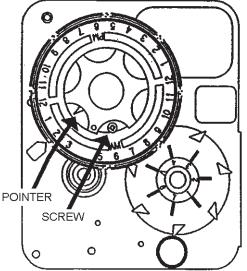
How To Manually Regenerate Your Water Conditioner At Any Time

- 1. Turn the manual regeneration knob clockwise.
- This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.
- 3. 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.

How to Adjust Regeneration Time

- 1. Disconnect the power source.
- Locate the three screws behind the manual regeneration knob by pushing the red button in and rotating the 24 hour dial until each screw appears in the cut out portion of the manual regeneration knob.
- 3. Loosen each screw slightly to release the pressure on the time plate from the 24 hour gear.
- Locate the regeneration time pointer on the inside of the 24 hour dial in the cut out.
- Turn the time plate so the desired regeneration time aligns next to the raised arrow.
- Push the red button in and rotate the 24 hour dial. Tighten each of the three screws.
- Push the red button and locate the pointer one more time to ensure the desired regeneration time is correct.
- 8. Reset the time of day and restore power to the unit.





3200 ADJUSTABLE REGENERATION TIMER

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

61502-3200 Rev A

Figure 2

3210 TIMER SETTING PROCEDURE

Typical 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 (Figure 3).

NOTE: Drawing shows 8,750 gallon setting. The capacity (gallons) arrow (15) shows zero gallons remaining. The unit will regenerate tonight at the set regeneration time.

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 opposite the time of day pointer.
- 3. Release the red button to again engage the drive gear.

How To Manually Regenerate Your Water Conditioner At Any Time

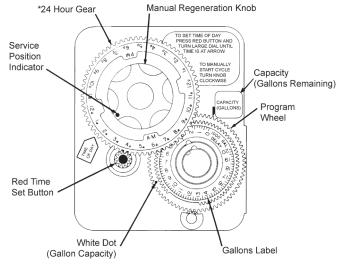
- 1. Turn the manual regeneration knob clockwise.
- This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.
- 3. The black center knob will make one revolution in the following approximately three hours and stop in the position shown in the 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.

Immediate Regeneration Timers

These timers do not have a 24 hour gear. Setting the gallons on the program wheel and manual regeneration procedure are the same as previous instructions. The timer will regenerate as soon as the capacity gallons reaches zero.

NOTE: The program wheel to the left may be different than the program wheel on the product.

NOTE:To set meter capacity rotate manual knob one - 360° revolution to set gallonage.



*Immediate regeneration timers do not have a 24-hour gear. No time of day can be set.

61502-3200 Rev A

Figure 3

3200, 3210, 3220, 3230 REGENERATION CYCLE 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.

3200 Series Timers (Figure 4)

- To expose cycle program wheel, grasp timer in upper lefthand corner and pull, releasing snap retainer and swinging timer to the right.
- To change the regeneration cycle program, the program wheel must be removed. Grasp program wheel and squeeze protruding lugs toward center, lift program wheel off timer. Switch arms may require movement to facilitate removal.
- Return timer to closed position engaging snap retainer in back plate. Make certain all electrical wires locate above snap retainer post.

Timer Setting Procedure

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

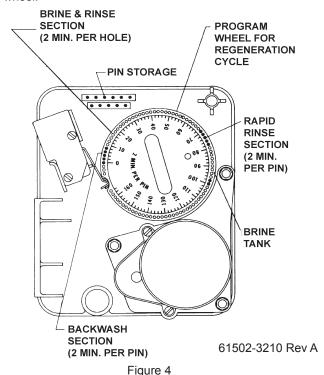
- 1. The group of holes between the last pin in the backwash section and the second group of pins determines the length of time that your unit will brine and rinse (2 min. per hole).
- 2. To change the length of brine and rinse time, move the rapid rinse group of pins to give more or fewer holes in the brine and rinse section. Number of holes times two equals brine and rinse time in minutes.

How To Change The Length Of Rapid Rinse

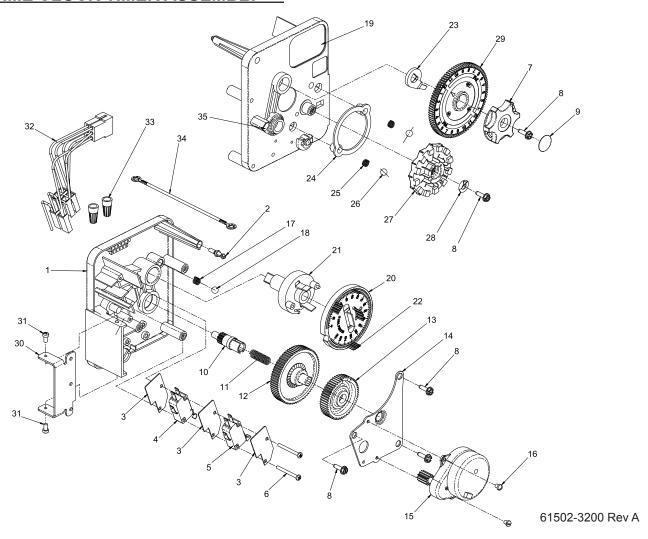
- The second group of pins on the program wheel determines the length of time that your water conditioner will rapid rinse (2 min. per pin).
- To change the length of rapid rinse time, add or remove pins at the higher numbered end of this section as required. The number of pins times two equals the rapid rinse time in minutes.

How To Change The Length Of Brine Tank Refill Time

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



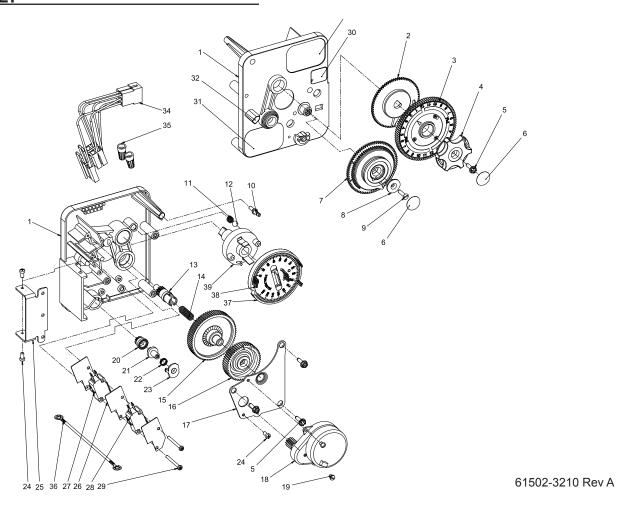
3200 TIME CLOCK TIMER ASSEMBLY



Item No.	QTY	Part No.	Description
1	1	13870	Housing, Timer, 3200
2	1	14265	Clip, Sping
3	3	14087	Insulator
4	1	10896	Switch, Micro
5	1	15320	Switch, Micro, Timer
6	2	11413	Screw, Pan Hd Mach, 4-40 x 1-1/8
7	1	13886	Knob, 3200
8	5	13296	Screw, Hex Wsh, 6-20 x 1/2
9	1	11999	Label, Button
10	1	13018	Pinion, Idler
11	1	13312	Spring, Idler Shaft
12	1	13017	Gear, Idler
13	1	13164	Gear, Drive
14	1	13887	Plate, Motor Mounting
15	1	18743-1	Motor, 120V, 60Hz, 1/30 RPM
	1	18752-1	Motor, 100V, 50Hz, 1/30 RPM
	1	18824-1	Motor, 23V, 50Hz, 1/30 RPM
	1	18826-1	Motor, 24V, 50Hz, 1/30 RPM
	1	19659-1	Motor, 24V, 60Hz, 1/30 RPM
	1	19660-1	Motor, 230V, 60Hz, 1/30 RPM
16	2	13278	Screw, Sltd Fillister Hd 6-32 x .156

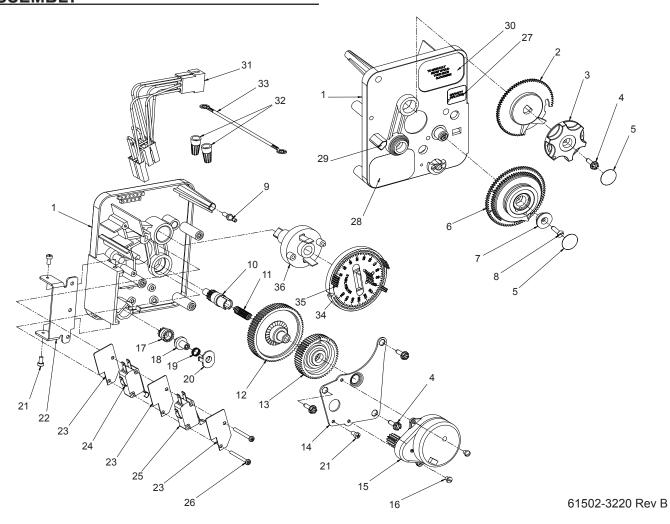
Item No.	QTY	Part No.	Description
17	1	15424	Spring, Detent, Timer
18	1	15066	Ball, 1/4", Delrin
19	1	15465	Label, Caution
20	1	19210	Program Wheel Assy
21	1	13911	Gear, Main Drive, Timer
22	17	41754	Pin, Spring, 1/16 x 5/8 SS, Timer
23	1	13011	Arm, Cycle Actuator
24	1	13864	Ring, Skipper Wheel
25	2	13311	Spring, Detent, Timer
26	2	13300	Ball, 1/4", SS
27	1	14381	Skipper Wheel Assy, 12 Day
	1	14860	Skipper Wheel Assy, 7 Day
28	1	13014	Pointer, Regeneration
29	1	40096-24	Dial, 12 AM Regen Assy, Black
	1	40096-02	Dial, 2 AM Regen Assy, Black
30	1	13881	Bracket, Hinger Timer
31	2	11384	Screw, Phil, 6-32 x 1/4 Zinc
32	1	13902	Harness, 3200
33	2	40422	Nut, Wire, Tan
34	1	15354-01	Wire, Ground, 4"
35	1	14007	Label, Time of Day

3210 METER DELAYED TIMER ASSEMBLY



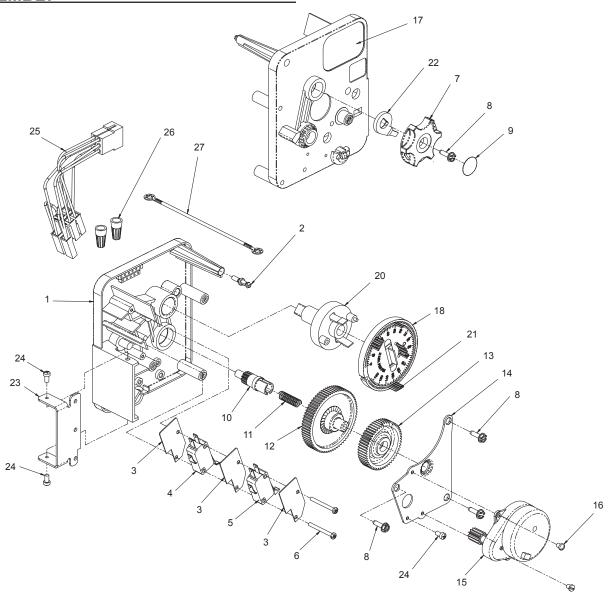
Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	13870	Housing, Timer, 3200		1	. 19660-1	Motor, 230V, 60Hz, 1/30 RPM
2	1	13802	Gear, Cycle Actuator	19	1	. 13278	Screw, Fillister Hd, 6-32 x .156
3	1	40096-02	Dial 2 AM Regen Assy, Black	20	1	. 13830	Pinion, Program Wheel Drive
4	1	13886	Knob, 3200	21	1	. 13831	Clutch, Drive Pinion
5	4	13296	Screw, Hex Wsh, 6-20 x 1/2	22	1	. 14276	Spring, Meter, Clutch
6	2	11999	Label, Button	23	1	. 14253	Retainer, Clutch Spring
7	1	60405-15	Program Wheel, w/34" Std Label,	24	3	. 11384	Screw, Phil, 6-32 x 1/4
			w/People Label Set @ 21	25	1	. 13881	Bracket, Hinge Timer
			Retainer, Program Wheel	26	3	. 14087	Insulator
			Screw, Flat Head St, 6-20 x 1/2	27	1	. 10896	Switch, Micro
		14265		28	1	. 15320	Switch, Micro, Timer
			Spring, Detent, Timer	29	2	. 11413	Screw, Pan Hd Mach, 4-40 x 1
			Ball, 1/4" Delrin				1/8
		13018					Label, Indicator
			Spring, Idler Shaft			. 15465	
15	1	13017	Gear, Idler	32	1	. 14007	Label, Time of Day
16	1	13164	Gear, Drive	33	1	. 14045	Label, Instruction
17	1	13887	Plate, Motor Mounting	34	1	. 13902	Harness, 3200
18	1	18743-1	Motor, 120V, 60Hz 1/30 RPM	35	2	. 40422	Nut, Wire, Tan
	1	18752-1	Motor, 100V, 50Hz, 1/30 RPM	36	1	. 15354-01	Wire, Ground, 4"
	1	18824-1	Motor, 23V, 50Hz, 1/30 RPM	37	1	. 19210	Program Wheel Assy
	1	18826-1	Motor, 24V, 50Hz, 1/30 RPM	38	17	. 41754	Pin, Spring, 1/16 x 5/8 SS, Timer
	1	19659-1	Motor, 24V, 60Hz, 1/30 RPM	39	1	. 13911	Gear, Main Drive, Timer

3220 METER IMMEDIATE TIMER ASSEMBLY



Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	13870	Housing, Timer	18	1	. 14501	Clutch, Drive Pinion
2	1	15431	Gear, Cycle Actuator, System #5	19	1	. 14276	Meter Clutch Spring
3	1	13886	Knob, 3200	20	1	. 14253	Retainer, Clutch Spring
4	4	13296	Screw, Hex Wsh, 6-20 x 1/2	21	3	. 11384	Screw, Phil, 6-32 x 1/4 Zinc
5	2	11999	Label, Button	22	1	. 13881	Bracket, Hinge Timer
6	1	60408-50	Program Wheel, W/2" Std Label	23	3	. 14087	Insulator
7	1	13806	Retainer, Program Wheel	24	1	. 15414-00	Micro Switch
8	1	13748	Screw, Flt Hd St, 6-20 x 1/2	25	1	. 15320	Switch, Micro, Timer
9	1	14265	Spring Clip	26	2	. 11413	Screw, Pan Hd Mach, 4-40 x
10	1	13018	Pinion, Idler				1-1/8
11	1	18563	Idler Shaft Spring	27	1	. 14198	Label, Indicator
12	1	13017	Gear, Idler	28	1	. 15465	Label, Caution
13	1	13164	Drive Gear	29	1	. 14007	Label, Time of Day
14	1	13887	Plate, Motor Mounting	30	1	. 15148	Label, Instruction
15	1	18743-1	Motor, 120V, 60 Hz, 1/30 RPM	31	1	. 40617	Harness, 3220
	1	18752-1	Motor, 100V, 50Hz, 1/30 RPM	32	2	. 40422	Nut, Wire, Tan
	1	18824-1	Motor, 23V, 50Hz, 1/30 RPM	33	1	. 15354-01	Wire, Ground, 4"
	1	18826-1	Motor, 24V, 50Hz, 1/30 RPM	34	1	. 19210-05	Program Wheel Assembly, 9000/3230
	1	19659-1	Motor, 24V, 60Hz, 1/30 RPM	35	17	41754	Pin, Spring, 1/16 x 5/8 Stainless
	1	19660-1	Motor, 230V, 60Hz, 1/30 RPM			, 0	Steel, Timer
16	2	13278	Screw, Sltd Fillister Hd	36	1	. 15055	Gear, Main Drive
17	1	14502	Pinion, Program Wheel				

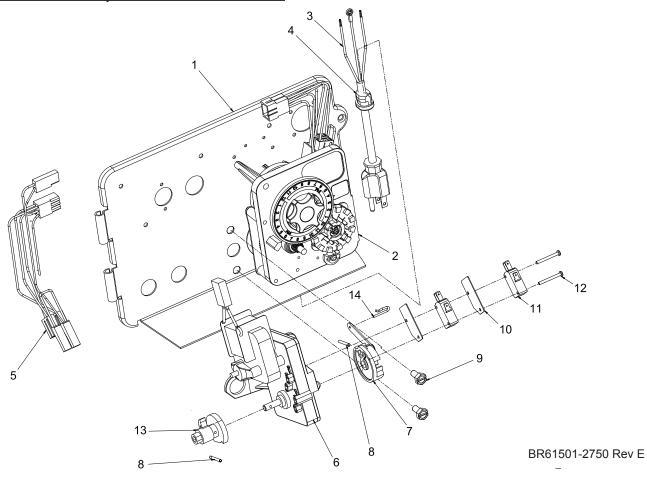
3230 REMOTE START TIMER ASSEMBLY



61502-3230R REV A

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	13870	Housing, Timer		1	. 18824-1	Motor, 23V, 50Hz, 1/30 RPM
2	1	14265	Spring Clip		1	. 18826-1	Motor, 24V, 50Hz, 1/30 RPM
3	3	14087	Insulator		1	. 19659-1	Motor, 24V, 60Hz, 1/30 RPM
4	1	15314	Micro Switch		1	. 19660-1	Motor, 230V, 60Hz, 1/30 RPM
5	1	15320	Switch, Micro, Timer	16	2	. 13278	Screw, Sltd Fillister Hd
6	2	11413	Screw, Pan Hd Mach, 4-40 x	17	1	. 15313	Label, Caution
			1-1/8	18	1	. 19210-05	Program Wheel Assembly, 3200
7	1	13886	Knob, 3200	20	1	. 15055	Main Drive Gear
8	4	13296	Screw, Hex Wsh, 6-20 x 1/2	21	17	. 41754	Pin, Spring, 1/16 x 5/8 Stainless
9	1	11999	Label, Button				Steel, Timer
10	1	13018	Pinion, Idler	22	1	. 13011	Cycle Actuator Arm
11	1	18563	Idler Shaft Spring	23	1	. 13881	Bracket, Hinge Timer
12	1	13017	Gear, Idler	24	3	. 11384	Screw, Phil, 6-32 x 1/4 Zinc
13	1	15055	Drive Gear	25	1	. 16336	Harness, 3230R
14	1	13887	Plate, Motor Mounting	26	2	. 40422	Nut, Wire, Tan
15	1	18743-1	Motor, 120V, 60 Hz, 1/30 RPM	27	1	. 15354-01	Wire, Ground, 4"
	1	18752-1	Motor, 100V, 50Hz, 1/30 RPM				

POWERHEAD ASSEMBLY (ENVIRONMENTAL)



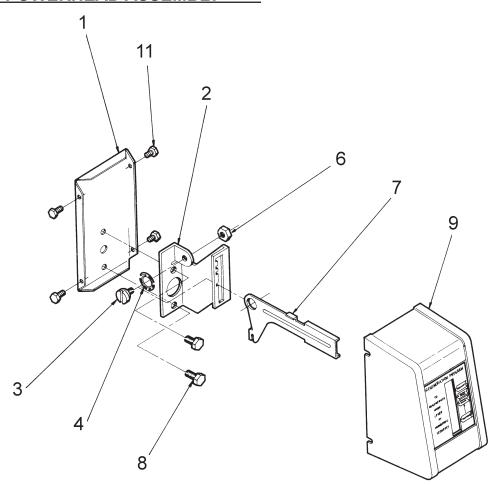
ltem No.	QTY	Part No.	Description
1	1	. 18697-13	.Backplate, Hinged, 2900
2	1		Timer: 3200 7 Day, 3200 12 Day, 3210 Meter
3	1	. 11839	.Power Cord, 12' Fleck
4	1	. 13547	.Strain Relief, Flat Cord
5	1	. 40400	.Harness, Drive, Designer/ Environmental
6	1	. 41543*	.Motor, Drive, 115V, 50/60Hz
		. 42579**	.Motor, Drive, 24VAC/VDC, 50/60 Hz
		. 41545*	.Motor, Drive, 230V, 50/60 Hz
7	1	. 60160-15	Drive Cam Assy, STF, Blue, 2900
8	2	. 10338	.Pin, Roll, 8/32 x 7/8
9	2	. 10231	.Screw, Slot Hex, 1/4 - 20 x 1/2
10	2	. 10302	.Insulator, Limit Switch
11	2	. 10218	.Switch, Micro

Item No.	QTY	Part No.	Description
12	2	14923	Screw, Pan Hd Mach, 4-40 x 1
13	2	12777	Cam, Shut-Off Valve
14	1	10909	Pin, Link
Not Show	ո։		
	1	15513	Meter Cable, 17.50"
	1	15441	Cable Guide Assy, 2750
	2	10300	Screw, Slot Hex Wsh, 8-18 x 3/8
	1	13741	Plug, 3/4" Knock-Out
	1	15806	Plug, Hole, Heyco #2693
	1	16493	Plug, Hole, Heyco
	1	17421	Plug, 1.20 Hole Heyco #2733
	2	19691	Plug, .750 Dia, Recessed, Black
	7	19800	Plug, .140 Dia, White
	4	19801	Plug, .190 Dia, White
	1	10872	Screw, Hex Wsh, 8-32 x 17/64

^{*}Bracket is integrated into the motor.

^{**}Bracket is integrated into the motor and picture may not reflect actual component.

MANUAL POWERHEAD ASSEMBLY

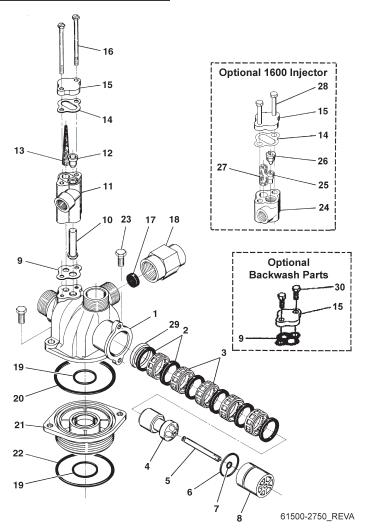


60409 Rev G

Item No.	QTY	Part No.	Description
1	1	12593	Backplate, Manual
2	1	12592	Bracket, Lever Position
3	1	12596	Screw, Spec Mach, 1/4 - 20 x 1/2
4	1	12707	Washer, Spring
6	1	11235	Nut, Hex, 1/4 - 20, Mach Screw, Zinc
7	1	12594	Lever, Valve Position
8	2	10231	Screw, Slot Hex, 1/4 - 20 x 1/2 18-8 SS
9	1	60224-32	Cover Assy, Manual, Filter
	1	60224-33	Cover Assy, Manual, Softener
11	4	10300	Screw, Slot Hex Wsh, 8-18 x 3/8 Type "B" RC44-47
Not Show	ո։		

1 10909......Pin, Link

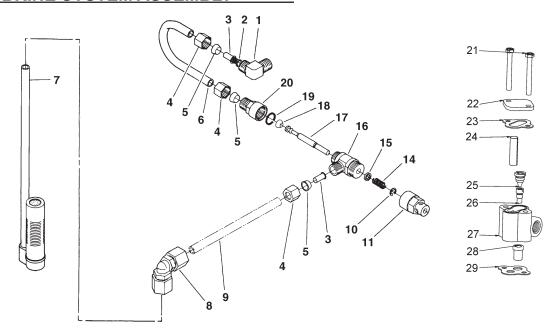
CONTROL VALVE WITH 1700 INJECTOR



Item No.	QTY	Part No.	Description
1	1	14749	Valve Body, 2750
2	6	10545	Seal, Piston
3	5	11451	Spacer, 12 Hole
		16589	Spacer, HW
4	1	14451	Piston, 2750
5	1	14452	Rod, Piston
6	1	10234-01	O-Ring, -024, 560CD
7	1	10209	Quad Ring, -010
8	1	10598	End Plug Assembly
		10598-01	End Plug Assembly, Hot Water
9	1	14805	Gasket, Injector Body, 1600/1700
10	1	14802-xxc	Throat, Injector, -xxc is for Injector Size
11	1	17777	Body, Injector, 1700
12	1	14801-xxc	Nozzle, Injector, -xxc is for Injector Size
13	1	14803	Screen, Injector
14	1	10229	Gasket, Injector Cap, 1600
15	1	11893	Cap, Injector, Stainless Steel
		10228	Cap, Injector, Brass
16	2	14804	Screw, Hex Hd Mach, 10-24 x 2-3/4
			Washer - Flow Control (specify size)

ltem No.	QTY	Part No.	Description
18	1	60365-00	Housing, DLFC, 1/2"F x 3/4"F
19	2	11710	O-ring, -215
20	1	11208	O-ring, -232
21	1	12461-01	Adapter Base, 1" 2-1/2" - 8 Quick Connect
22	1	10381	O-ring, -231
23	2	11224	Screw, Hex Hd, 5/16 - 18 x 5/8
24	1	17776	Body, Injector
25	1	10914-xx	Throat, Injector, -xx is for Injector Size
26	1	10913-xx	Nozzle, Injector, -xx is for Injector Size
27	1	10227	Screen, Injector
28	2	10692	Screw, Slot Hex Hd, 10-24 x 18-8 Stainless Steel
29	1	10757	Spacer, End
		10757B	Spacer, End, Brass
30	1	15137	Screw, Hex Wsh Mach, 10-24 x 3/8
Not Shown	l		
	1	16221	Disperser, Air, 1600
	1	17996	Disperser, Air, 1700

1600 BRINE SYSTEM ASSEMBLY

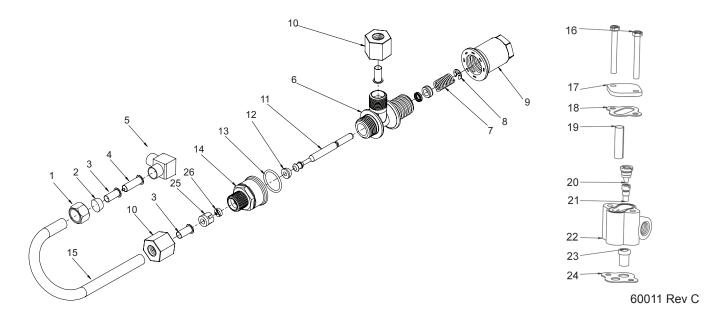


60029 Rev C

Item No.	QTY	Part No.	Description
1	1	10328	Elbow, 90 Deg. 1/4 NPT x 3/8 Tube
2	1	12767	Screen, Brine
3	2	10332	Fitting, Insert, 3/8
4	3	10329	Fitting, Tube, 3/8 Nut, Brass
5	3	10330	Fitting, Sleeve, 3/8 Celcon
6	1	15221	Tube, Brine Valve, Gray
7	1	60002-34	Air Check, #500
		60003-34	Air Check, #500, HW
8	1	12794	Fitting, Elbow, 90 Deg 3/8, White, Poly Tube
9	1	Not Supplied	Brine Line Tube (3/8" Flexible Tube)
10	1	10250	Ring, Retaining
11	1	11749	Guide, Brine Valve Stem
14	1	10249	Spring, Brine Valve
15	1	12550	Quad Ring, -009
16	1	12748	Brine Valve Body Assy, 1600 w/ Quad Ring

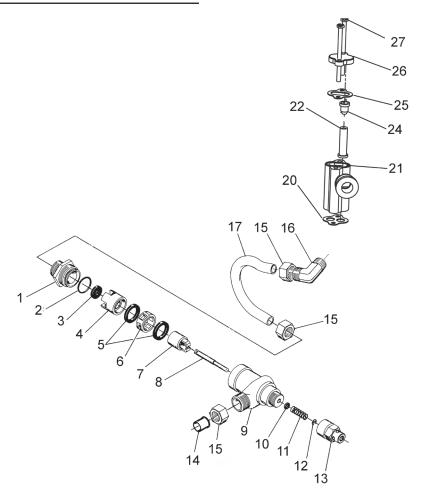
Item No.	QTY	Part No.	Description
17	1	12552-02	Brine Valve Stem, 1600, w/Seat
18	1	12626	Seat, Brine Valve
19	1	11982	O-ring, -016
20	1	60020-25	BLFC, .25 GPM, 1600
		60020-50	BLFC, .50 GPM, 1600
		60020-100	BLFC, 1.0 GPM, 1600
21	2	10692	Screw, Slot Hex Hd, 10-24 x 18-8
22	1	11893	Cap, Injector, SS
23	1	10229	Gasket, Injector Cap, 1600
24	1	10227	Screen, Injector
25	1	10913-xx	Nozzle, Injector, -xx is for Injector Size
26	1	10914-xx	Throat, Injector, -xx is for Injector Size
27	1	17776	Body, Injector, 1600
28	1	16221	Disperser, Air
29	1	. 14805	Gasket. Injector Body. 1600/1700

1600 BRINE SYSTEM ASSEMBLY



Itama Na	OTV	Dowt No.	Description
Item No.		Part No.	
1	1	10329	Fitting, Tube, 3/8 Nut, Brass
2	1	10330	Fitting, Sleeve, 3/8 Celcon
3	3	10332	Fitting, Insert, 3/8
4	1	12767	Screen, Brine
5	1	10328	Fitting, Elbow, 90 Deg 1/4 NPT x 3/8T
6	1	17884	Brine Valve Body Assy, 1650
7	1	10249	Spring, Brine Valve
8	1	10250	Ring, Retaining
9	1	17906	Guide, Brine Valve Stem
10	2	19625	Nut Assy, 3/8", Plastic
11	1	12552-02	Brine Valve Stem, 1600, with Seat
12	1	12626	Seat, Brine Valve
13	1	16924	O-Ring, -018
14	1	60010-25	BLFC, 1650, .25 GPM, Plastic
	1	60010-50	BLFC, 1650, .50 GPM, Plastic
	1	60010-100	BLFC, 1650, 1.0 GPM, Plastic
15	1	16508-01	Tube, Brine Valve, 2850/1600
	1	40027	Tube, Brine Valve, 2510
	1	42184	Tube, Brine Valve, 2850s
	1	12774	Tube, Brine Valve, 1500
	1	15221	Tube, Brine Valve, 2750
	1	41683*	Tube, Brine Valve, UF, 1600/1650

Item No.	QTY	Part No.	Description
16	2	10692	Screw, Slot Hex Hd, 10 - 24X 18-8 Stainless Steel
17	1	11893	Cap, Injector, SS
18	1	10229	Gasket, Injector Cap, 1600
19	1	10227	Screen, Injector
20	1	10913-xx	Nozzle, Injector, -xx is for Injector Size
21	1	10914-xx	Throat, Injector, -xx is for Injector Size
22	1	17776	Body, Injector, 1600
	1	17776-02*	Body, Injector, 1600 Upflow
23	1	16221	Disperser, Air
24	1	14805	Gasket, Injector Body, 1600/1700
25	1	12098	Retainer, Flow Control
26	1	12094	Washer, Flow, .25 gpm
	1	12095	Washer, Flow, .50 gpm
	1	12097	Washer, Flow, 1.00 gpm

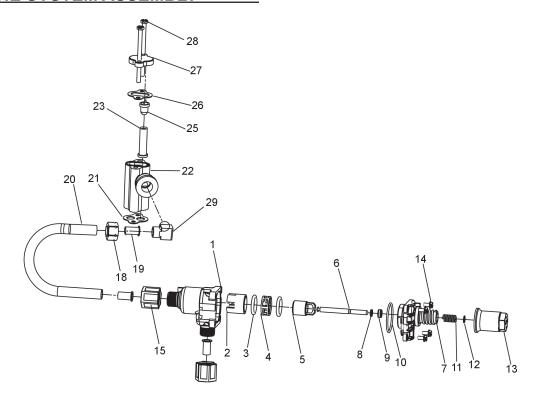


Item No.	QTY	Part No.	Description
1	1	14792	Plug, End, Brine Valve
2	1	13201	Quad Ring, -020
3	1	12085	Washer, Flow, 1.2 GPM
	1	12086	Washer, Flow, 1.5 GPM
	1	12087	Washer, Flow, 2.0 GPM
	1	12088	Washer, Flow, 2.4 GPM
	1	12089	Washer, Flow, 3.0 GPM
	1	12090	Washer, Flow, 3.5 GPM
	1	12091	Washer, Flow, 4.0 GPM
	1	12092	Washer, Flow, 5.0 GPM
4	1	14785	Retainer, Flow Control
5	3	14811	O-ring, -210, 560CD, Brine
6	1	14798	Spacer, 1700, Brine
7	1	14795	Piston, Brine Valve
8	1	14797	Brine Valve Stem
9	1	14790	Brine Valve Body
10	1	12550	Quad Ring, -009
11	1	15310	Spring, Brine Valve
12	1	10250	Retaining Ring
13	1	15517	Guide, Stem
14	1	15415	Fitting, Insert, 1/2", Tube
15	2	15414	Nut, 2900, w/Sleeve
16	1	15413	Fitting, Elbow, Male, 1/2T x 3/8 NPT

Item No.	QTY	Part No.	Description
17	1	15416	Tube, Brine, 2900/2750
	1	16460	Tube, Brine, 2850/2900s
	1	41447*	Tube, Brine, 2900s, U/F
	1	42183	Tube, Brine, 1700, 2850s
20	1	14805	Gasket, Injector Body, 1600/1700
21	1	17777	Body, Injector, 1700
	1	17777-02*	Body, Injector, 1700 U/F
22	1	14802-xxc	Throat, Injector, -xxc is for Injector Size
24		14801-xxc	Nozzle, Injection, -xxc is for Injector Size
25	1	10229	Gasket, Injector Cap, 1600
26	1	11893	Cap, Injector, Stainless Steel
	1	10228	Cap, Injector
27	2	14804	Screw, Hex Hd Mach, 10 - 24 x 2 3/4" 18-8 Stainless Steel
Not Show	n:		
	1	16974	Fitting, Plastic, Female, 3/4 x 3/4 Slip
	1	17996	Disperser, Air, Injector
*Upflow Or	nly		
			3) is used on injector sizes 2

NOTE: Item number 26 (11893) is used on injector sizes 2 through 5C. Part number 10228 is used on injector sizes 6C.

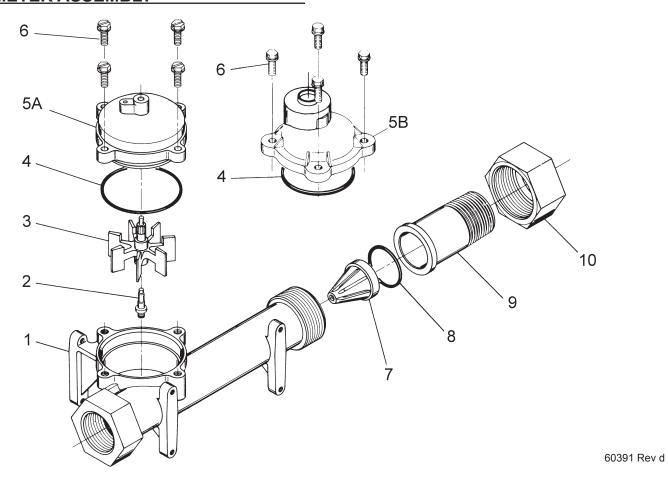
1710 BRINE SYSTEM ASSEMBLY



30604	Rev F
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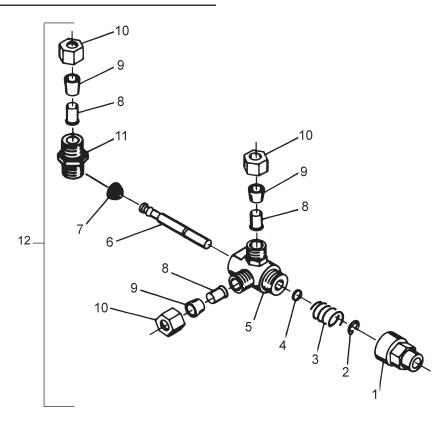
Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	. 41202	Brine Valve, 1700, Plastic, Top	20	1	. 16460	.Tube, Brine, 2850, 2900s
2	1	. 14785-01	Retainer, Flow Control		1	. 42183	.Tube, Brine, 1700/2850s
3	1	. 14811	O-Ring, -210, 560CD, Brine		1	. 15416	.Tube, Brine, 2900/2750
4	1	. 14798	Spacer, 1700, Brine		1	. 41447*	.Tube, Brine, 2900s U/F
5	1	. 14795	Piston, Brine Valve	21	1	. 19925	.Gasket, Injector Body, 1700
6	1	. 41203	Stem, Brine, 1710, Plastic, 2900	22	1	. 17777	.Body, Injector, 1700
7	1	. 41201	Brine Valve, 1700, Plastic, Bottom	23	1	. 14802-xxc	.Throat, Injector, -xxc is for Injector Size
8	5	. 17908	Sleeve, Brine Valve Stem	25	1	. 14801-xxc	Nozzle, Injector, -xxc is for
9	1	. 12550	Quad Ring, -009				Injector Size
10	3	. 41547	O-Ring, 2mmx35mm	26	1	. 10229	.Gasket, Injector Cap, 1600
11	2	. 15310	Spring, Brine Valve	27	1	. 10228	Cap, Injector
			Ring, Retaining	28	2	. 14804	. Screw, Hex Head Mach, 10 - 24 x 2 3/4
			Guide, Brine Valve Stem	29	1	. 15413	.Fitting, Elbow, Male, 1/2T X
14	2	. 14202-01	Screw, Hex Wsh Mach, 8-32 X 5/16				3/8NPT
15	2	41056	Nut Assembly, 1/2" Plastic	Not Shown	l		
			Nut, 2900, w/Sleeve		1	. 19151	.Washer, Flow, 1.0 gpm
			Fitting, Insert, 1/2", Tube		1	. 17996	Disperser, Air, Injector
13	1	10410	ittiing, insert, 1/2 , Tube		1	. 414193-00	.Label, Blank, BLFC, 1710

1" METER ASSEMBLY



Item No.	QTY	Part No.	Description
1	1	14959	Body, Meter, 2750
2	1	13882	Post, Meter Impeller
3	1	13509	Impeller, Meter
4	1	13847	O-ring, -137, Std/560CD, Meter
5A	1	15218	Meter Cap Assembly, Brass, Hot Water
5B	1	15237	Meter Cap Assembly, Ext, Brass, Hot Water
6	4	12112	Screw, Hex Hd Mach, 10-24 x 1/2
7	1	14960	Flow Straightener, 1"
8	1	13287	O-ring, -123
9	1	14961	Fitting, 1" Quick Connect
10	1	14962	Nut, 1" Meter, Quick Connect
Not Show	า		
	1	15308	Fitting, Coupling, 1", Brass
	1	14038	Meter Cap Assembly, Std, Plastic
	1	15150	Meter Cap Assembly, Ext, Plastic

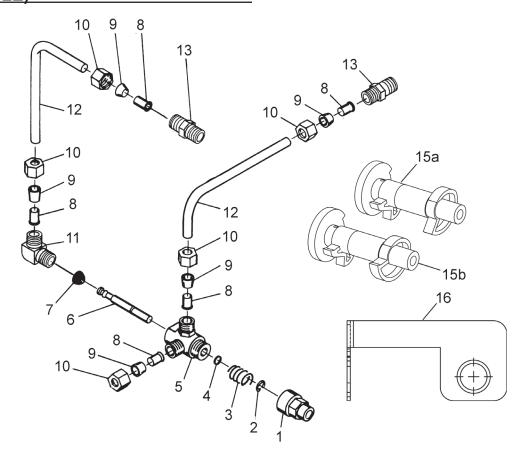
1600 SERVICE VALVE OPERATOR (OLD STYLE)



60150 Rev A

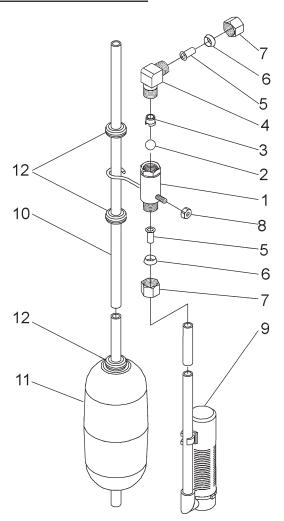
tem No.	QTY	Part No.	Description
1	1	11749	Guide, Brine Valve Stem
2	1	10250	Ring, Retaining
3	1	10249	Spring, Brine Valve
4	1	12550	Quad Ring, -009
5	1	10785	Service Valve Operator Body Assembly Brass Valves
6	1	12552	Brine Valve Stem, 1600
7	1	12626	Seat, Brine Valve
8	3	10332	Fitting, Insert, 3/8
9	3	10330	Fitting, Sleeve, 3/8 Celcon
10	3	10329	Fitting, Tube, 3/8 Nut, Brass
11	1	10331	Fitting, Compression, 1/4" x 3/8"
12	1	60150	Service Valve Assembly, Old Style

1600 SERVICE VALVE OPERATOR (NEW STYLE)



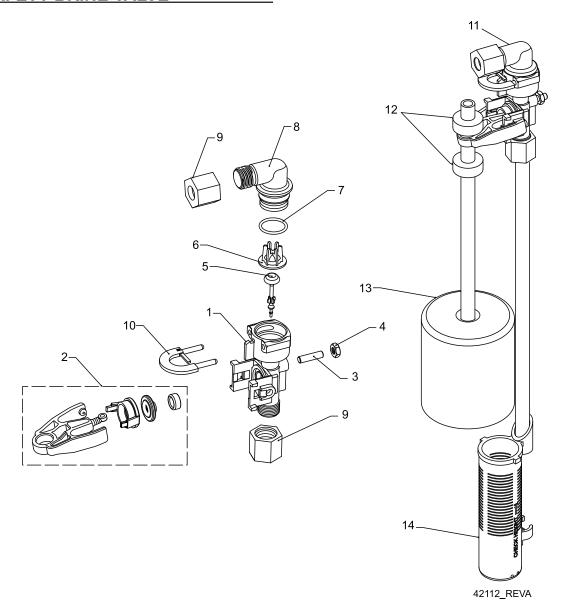
60150 Rev A

Item No.	QTY	Part No.	Description
1	1	. 11749	Guide, Brine Valve Stem
2	1	. 10250	Ring, Retaining
3	1	. 10249	Spring, Brine Valve
4	1	. 12550	.Quad Ring, -009
5	2	. 10785	SVO Body Assy Brass Valves
6	1	. 12552	.Brine Valve Stem, 1600
7	1	. 12626	Seat, Brine Valve
8	5	. 10332	.Fitting, Insert, 3/8
9	5	. 10330	.Fitting, Sleeve, 3/8" Celcon
10	5	. 10329	.Fitting, Tube, 3/8 Nut, Brass
11	1	. 10328	.Fitting, Elbow, 90 Deg 1/4 NPT x 3/8 Tube
12	2	. 12897	.Tube, Fitting, 3/8 x 9 3/4
13	1	. 16730	.Fitting, Male, 1/4 x 1
14	2	. 15415	Fitting, Insert, 1/2" Tube
15a	1	. 12472	Cam Assy, Tri-Stack, After RR
15b	1	. 15770	.Cam Assy, Special Tri-Stack After Brine Fill
16	1	. 12114	.Bracket, Motor Outboard, Coated
17	1	. 60150-01	. Service Valve Operator Assy, 1600, New Style, Item Nos 1-11



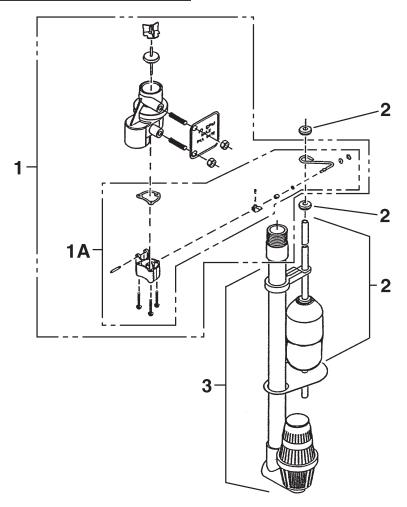
60027 Rev D

Item No.	QTY	Part No.	Description
1	1	60027-00	Safety Brine Valve, 2300, Less Elbow
2	1	10138	Ball, 3/8", Brass
3	1	11566	Ball Stop, Slow Fill
4	1	10328	Fitting, Elbow, 90 Deg. 1/4 NPT x 3/8 Tube
5	1	10332	Fitting, Insert, 3/8
6	1	10330	Fitting, Sleeve, 3/8 Celcon
7	1	10329	Fitting, Tube, 3/8 Nut, Brass
8	1	10186	Nut, Hex, 10-32
9	1	60002-34	Air Check, #500, 34" Long
		60003-34	Air Check, #500, HW, 34" Tube
10	1	10149	Rod, Float
11	1	10700	Float Assy, White
12	3	10150	Grommet, .30 Dia



Item No.	QTY	Part No.	Description
1	1	19645	Body, Safety Brine Valve, 2310
2	1	19803	Safety Brine Valve Assy
3	1	19804	Screw, Sckt Hd, Set, 10-24 x .75
4	1	19805	Nut, Hex, 10-24, Nylon Black
5	1	19652-01	Poppet Assy, SBV w/O-ring
6	1	19649	Flow Dispenser
7	1	11183	O-ring, -017
8	1	19647	Elbow, Safety Brine Valve
9	2	19625	Nut Assy, 3/8" Plastic
10	1	18312	Retainer, Drain
11	1	60014	Safety Brine Valve Assy, 2310
12	2	10150	Grommet, .30 Dia
13	1	60068-30	Float Assy, 2310, w/30" Rod
14	1	60002-34	Air Check, #500, 34" Long

2350 SAFETY BRINE VALVE ASSEMBLY



42303 REV A

Item No.	QTY	Part No.	Description
1	1	. 60038	Safety Brine Valve, 2350
1A	1	. 61024	Actuator Assembly, 2350 Brine
2	1	. 60028-30	Float Assembly, 2350, 30" Wht
	1	. 60026-30SAN .	Float Assembly, 2350, 30", HW
3	1	. 60009-00	Air Check, #900, Commercial Less Fittings
	1	. 60009-01	Air Check, #900, Commercial, HW Less Fittings
Not Shown	n:		
	1	. 18603	Fitting Assembly, 900 Air Check 2350
	1	. 18602	Fitting Assembly, 900 Air Check

TROUBLESHOOTING

Problem	Cause	Correction
Water conditioner fails to regenerate.	Electrical service to unit has been interrupted	Assure permanent electrical service (check fuse, plug, pull chain, or switch)
	Timer is defective.	Replace timer.
	Power failure.	Reset time of day.
Hard water.	By-pass valve is open.	Close by-pass valve.
	No salt is in brine tank.	Add salt to brine tank and maintain salt level above water level.
	Injector screen plugged.	Clean injector screen.
	Insufficient water flowing into brine tank.	Check brine tank fill time and clean brine line flow control if plugged.
	Hot water tank hardness.	Repeated flushings of the hot water tank is required.
	Leak at distributor tube.	Make sure distributor tube is not cracked. Check O-ring and tube pilot.
	Internal valve leak.	Replace seals and spacers and/or piston.
Unit used too much salt.	Improper salt setting.	Check salt usage and salt setting.
	Excessive water in brine tank.	See "Excessive water in brine tank".
Loss of water pressure.	Iron buildup in line to water conditioner.	Clean line to water conditioner.
	Iron buildup in water conditioner.	Clean control and add mineral cleaner to mineral bed. Increase frequency of regeneration.
	Inlet of control plugged due to foreign material broken loose from pipes by recent work done on plumbing system.	Remove piston and clean control.
Loss of mineral through drain line.	Air in water system.	Assure that well system has proper air eliminator control. Check for dry well condition.
	Improperly sized drain line flow control.	Check for proper drain rate.
Iron in conditioned water.	Fouled mineral bed.	Check backwash, brine draw, and brine tank fill. Increase frequency of regeneration. Increase backwash time.
Excessive water in brine tank.	Plugged drain line flow control.	Clean flow control.
	Plugged injector system.	Clean injector and screen.
	Timer not cycling.	Replace timer.
	Foreign material in brine valve.	Replace brine valve seat and clean valve.
	Foreign material in brine line flow control.	Clean brine line flow control.
Softener fails to draw brine.	Drain line flow control is plugged.	Clean drain line flow control.
	Injector is plugged.	Clean injector
	Injector screen plugged.	Clean screen.
	Line pressure is too low.	Increase line pressure to 20 psi
	Internal control leak	Change seals, spacers, and piston assembly.
	Service adapter did not cycle.	Check drive motor and switches.
Control cycles continuously.	Misadjusted, broken, or shorted switch.	Determine if switch or timer is faulty and replace it, or replace complete power head.
Drain flows continuously.	Valve is not programming correctly.	Check timer program and positioning of control. Replace power head assembly if not positioning properly.
	Foreign material in control.	Remove power head assembly and inspect bore. Remove foreign material and check control in various regeneration positions.
	Internal control leak.	Replace seals and piston assembly.

GENERAL SERVICE HINTS FOR METER CONTROL

Problem: Softener delivers hard water

Reason: Reserve capacity has been exceeded.

Correction: Check salt dosage requirements and reset

program wheel to provide additional reserve.

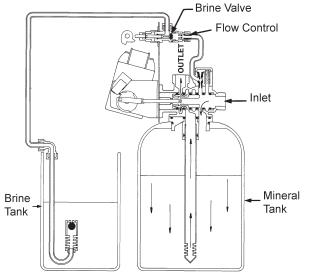
Reason: Program wheel is not rotating with meter output. **Correction:** Pull cable out of meter cover and rotate manually. Program wheel must move without binding and clutch must give positive clicks when program wheel strikes regeneration

stop. If it does not, replace timer. **Reason:** Meter is not measuring flow.

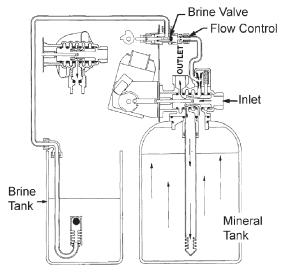
Correction: Check meter with meter checker.

WATER CONDITIONER FLOW DIAGRAMS

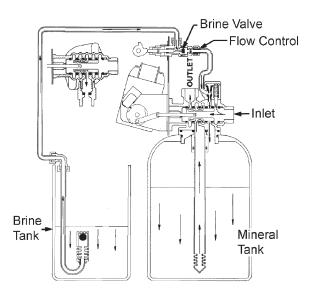
1 Service Position



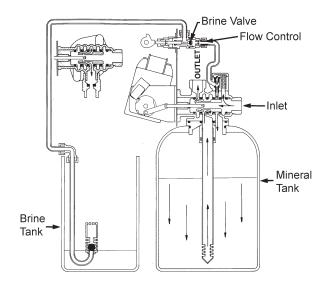
2 Backwash Position



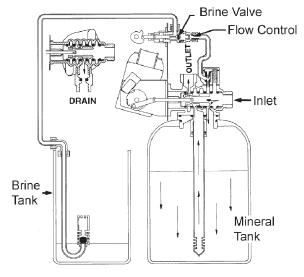
3 Brine Position



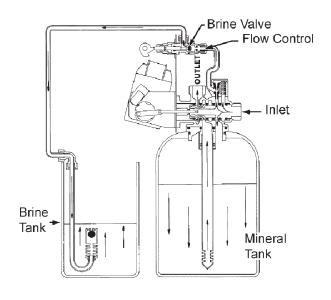
4 Slow Rinse Position



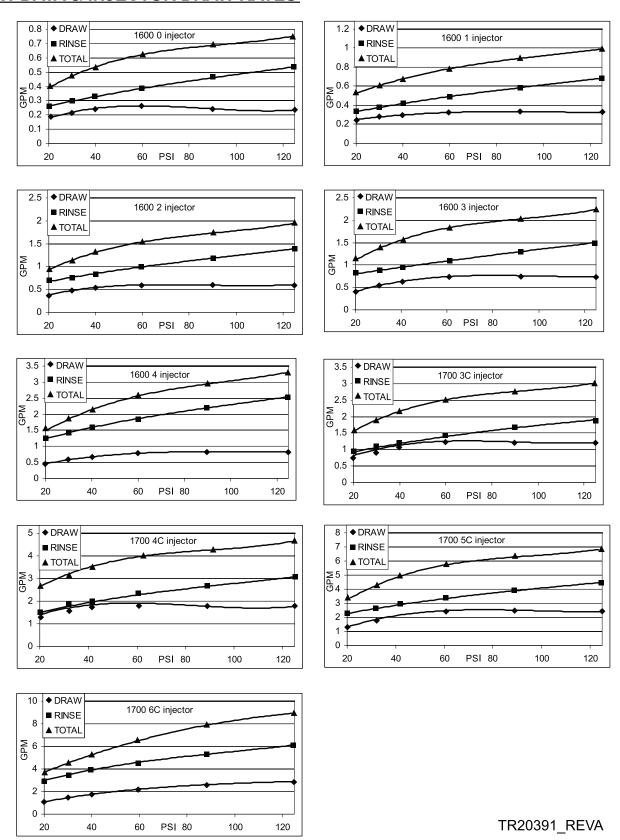
5 Rapid Rinse Position



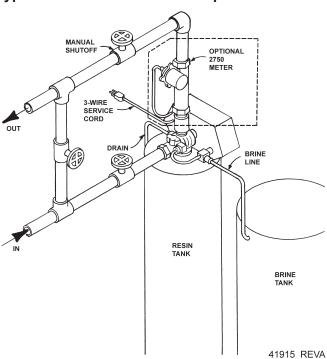
6 Brine Tank Fill Position



FLOW DATA & INJECTOR DRAW RATES

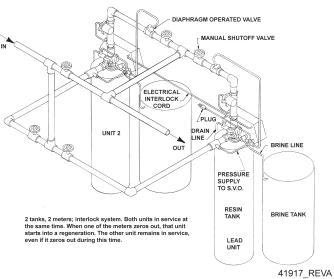


Typical Tank Installation with Optional Meter



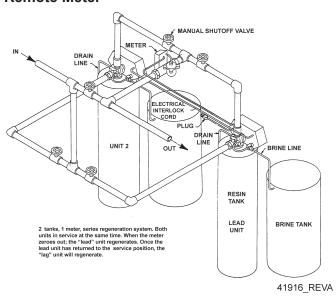
SYSTEM #5 INTERLOCK

Typical Twin Tank Installation with Optional 2 Meter Interlock and No Hard Water Bypass



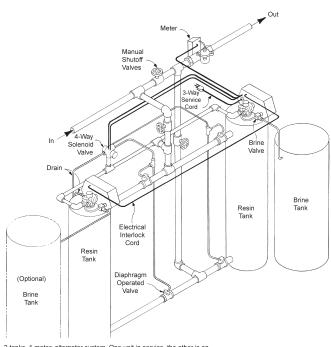
SYSTEM #6

Twin Series Regeneration Installation with a Remote Meter



SYSTEM #7

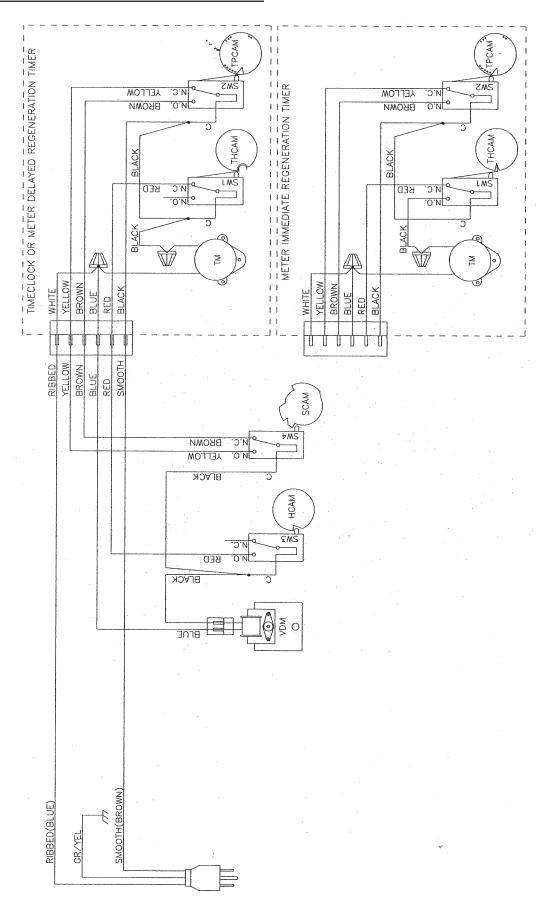
Twin Alternator Installation with a Remote Meter

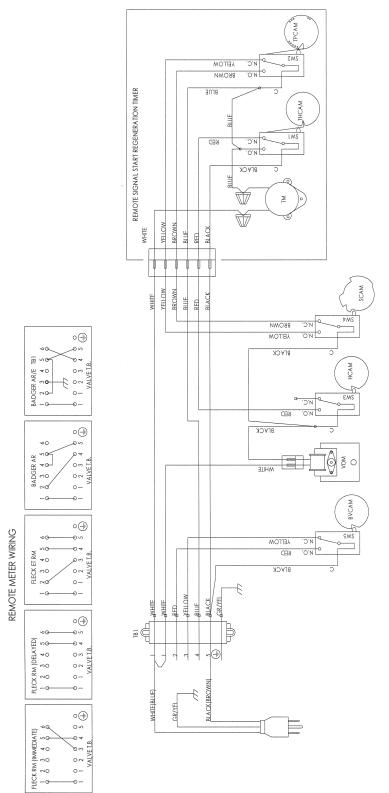


2 tanks, 1 meter; alternator system. One unit in service, the other is on standby. When the meter zeroes out the unit in service goes into a regeneration cycle, the standby unit, goes into service.

41918_REVA

SYSTEM #4 IMMEDIATE & DELAYED VALVE WIRING





1B. 1-7 POSITION TERMINAL BLOCK
TIM-TIMER MOTOR
VDM-VALVE DRIVE MOTOR
VDM-VALVE DRIVE MOTOR
SWD-TIMER PROCESAM SWITCH
SWG-TIMER PROCESAM SWITCH
SWG-TIMER PROCESAM SWITCH
SWG-TIMER PROCESAM SWITCH
SWG-TIMER PROCESAM CAM
FPCAM-TIMER PROMICH
FPCAM-TIMER PROMICH
FPCAM-VALVE FIFF CAM
SCAM-VALVE FIFF CAM
SCAM-VALVE FIFF CAM
SVGAM-RRIVE VALVE FOAM
SVGAM-RRIVE VALVE FOAM
SVGAM-RRIVE FIFF CAM

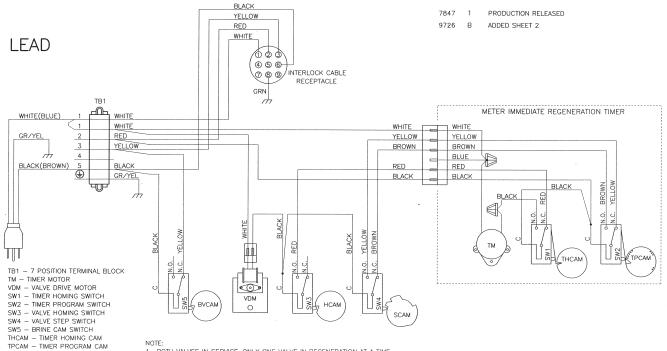
NOTE:

1. SINGLE TANK REMOTE METER INITIATED DELAYED, OR IMMEDIATE REGENERATION.

2. WITH 24V YANGES THE FOWER CORD IS REPLACED WITH BLUE AND WHITE
WIRES UNRES UND #5, WHITE TO 181 #1).

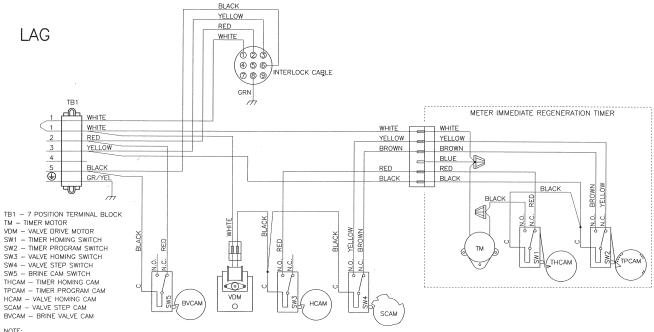
3. VALVE SHOWN IN SERVICE POSITION.

SYSTEM #5 DUPLEX VALVE WIRING



- 1. BOTH VALVES IN SERVICE, ONLY ONE VALVE IN REGENERATION AT A TIME.
 2. INDIVIDUAL LOCAL METER REGENERATION.
 3. VALVE SHOWN IN SERVICE.

40502-01 REV C



- BOTH VALVES IN SERVICE, ONLY ONE VALVE IN REGENERATION AT A TIME.
 INDIVIDUAL LOCAL METER REGENERATION.
 VALVE SHOWN IN SERVICE.

HCAM - VALVE HOMING CAM SCAM - VALVE STEP CAM BVCAM - BRINE VALVE CAM

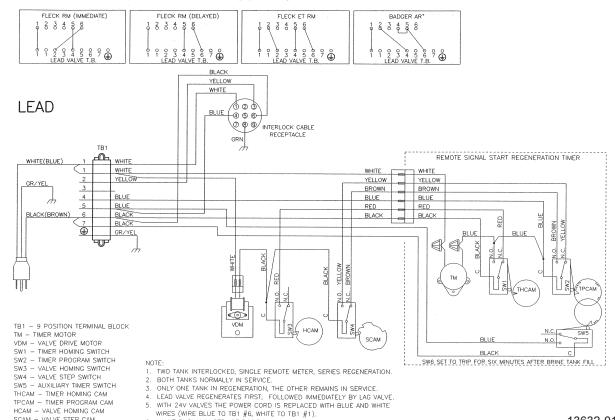
40502-02 REV C

SYSTEM #6 DUPLEX VALVE WIRING

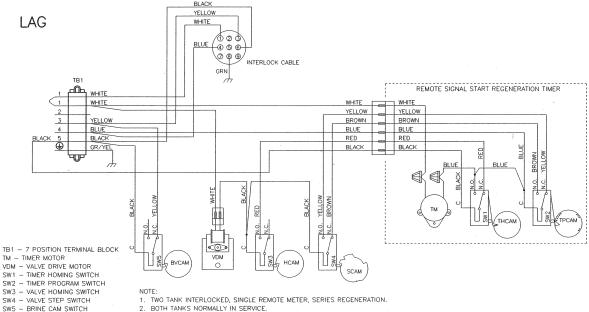
HCAM - VALVE HOMING CAM SCAM - VALVE STEP CAM

THCAM - TIMER HOMING CAM TPCAM - TIMER PROGRAM CAM HCAM - VALVE HOMING CAM SCAM - VALVE STEP CAM BVCAM - BRINE VALVE CAM

REMOTE METER WIRING



13632-01 REV L



- TWO TANK INTERLOCKED, SINGLE REMOTE METER, SERIES REGENERATION.
 BOTH TANKS NORMALLY IN SERVICE.

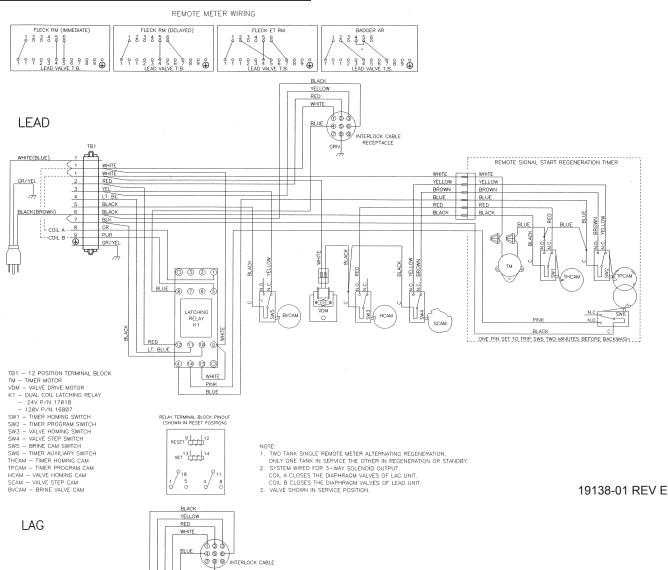
6. VALVE SHOWN IN SERVICE POSITION.

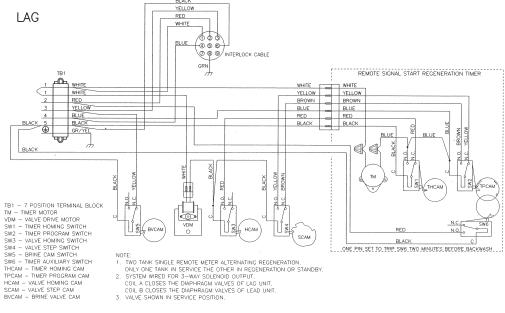
- ONLY ONE TANK IN REGENERATION, THE OTHER REMAINS IN SERVICE. LEAD VALVE REGENERATES FIRST, FOLLOWED IMMEDIATELY BY LAG VALVE WITH 24V VALVES, THE POWER CORD IS REPLACED WITH BLUE AND WHITE
- WIRES (WIRE BLUE TO TB1 #6, WHITE TO TB1 #1).

 6. VALVE SHOWN IN SERVICE POSITION.

13632-02 REV L

SYSTEM #7 DUPLEX 24V/120V 3-WAY VALVE WIRING

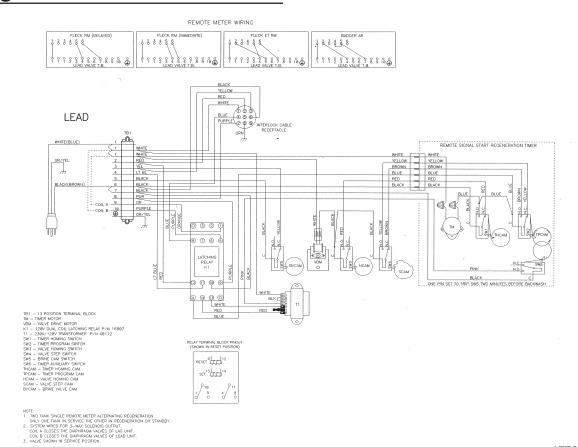




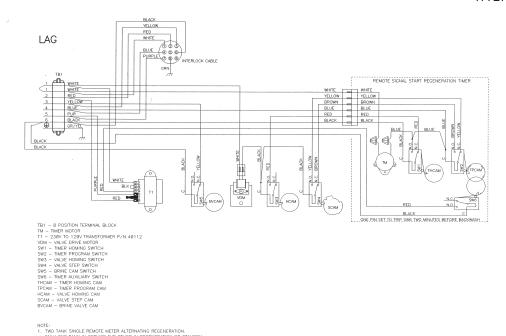
19138-02 REV E

SYSTEM #7 DUPLEX 230V 3-WAY VALVE

WIRING



17727-01 REV E



17727-02 REV E

SERVICE ASSEMBLIES

SERVICE ASSEMBLIES	
24 Hour Gear Assembly:	Piston Assemblies:
19205Gear Assy, 24 Hour, Silver, 5600, 12AM	60090-HFPiston Assy, 2750/2900
60519-02Gear Assy, 24 Hour, 2 Times a Day	60091-HFPiston Assy, 2750, Hot Water
Regen	60101-00Piston Assy, 2750 NHWBP Filter,
60519-03Gear Assy, 24 Hour, 3 Times a Day	Conversion Kit
Regen	60101-01Piston Assy, 2750 NHWBP
60519-04Gear Assy, 24 Hour, 4 Times a Day	60101-02Piston Assy, 2750 NHWBP,
Regen	1600 Conversion Kit
60519-06Gear Assy, 24 Hour, 6 Times a Day	60101-03Piston Assy, 2750 NHWBP,
Regen	1700 Conversion Kit
Air Checks	1700 Conversion Nit
60002-34Air Check, #500, 34" Long	Auxillary Switch Kit:
60003-34Air Check, #500, HW, 34" Tube	60320-12Switch Kit, 1500 through 2850
60009-00Air Check, #900, Commercial,	60320-02Switch Kit, 3200/9000 Timer
Less Fittings	00020-02Switch Nit, 3200/3000 Timer
60009-01Air Check, #900, Commercial,	Program Wheel Assemblies:
HW Less Fittings	60405-20Program Wheel, w/3/4" Ext Label
TIVV E033 Fittings	1-1/2" Std
Brine Line Flow (BLFC):	60405-30Program Wheel, w/1" Std
60010-25BLFC, 1650, .25 gpm	60405-40Program Wheel, w/1" Ext
60010-50BLFC, 1650, .50 gpm	60405-70Program Wheel, w/1-1/2" EXT
60010-100BLFC, 1650, 1.00 gpm	55 155 15 rogram vincoi, w/ 1/2 E/(1
60020-25BLFC, 1600, .25 gpm	Safety Brine Valves
60020-50BLFC, 1600, .50 gpm	60014Safety Brine Valve Assy, 2310
60010-100BLFC, 1600, 1.00 gpm	60038Safety Brine Valve, 2350
	60027-FFASafety Brine Valve Body, 2300 Fitting
Brine Valves:	Facing Arm
60011-xx1650 Brine Valve	60027-FFSSafety Brine Valve Body Fitting Facing
60029-xx1600 Brine Valve	Stud
60034-xx1700 Brine Valve	60026-30Float Assy, 2350, 30" Red/Wht
60604-xx1710 Brine Valve	60026-30SAN60026-30SAN Float Assy, 2350, 30" HW
-xx is for flow button size	60028-30Float Assy, 2300, 30", Blue/White
	60068-30Float Assy, 2310, w/30" Rod
Cam Assemblies:	·
60160-15Drive Cam Assy, Std, Blue	Sales & Service Aids:
	40737Literature, Spec Sheet
Drain Line Flow Controls:	42327Literature, 2750 D/F
60365-xxBrass DLFC 3/4" NPT	40717Literature, Catalog Assy, PWT
	Residential/Commercial
Drive Assemblies:	
60050-21Drive Assy, 2750, STF, 120V Softener	Seal & Spacer Kits:
	60121Seals & Spacers, 2750
Injector Assemblies:	60122Seal & Spacer Kit, 2750 H/W
60480-xx1600 Injector Assembly	
60485-xx1600 Injector Assembly	Skipper Wheel Assemblies:
60381-xx1700 Injector Assembly	14860Skipper Wheel Assy, 7 Day
60486-xx1700 Injector Assembly	14381Skipper Wheel Assy, 12 Day
-xx is for the size injector used	
M. Const	
Meters:	
603912750 Meter Assy, Std, Plastic Cap, 1"	
603922750 Meter Assy, Ext, Plastic Cap, 1"	
Covers	
Cover Designer Inc. Plack	

60232-110.....Cover, Designer, 1pc, Black 60219-02....Cover Assy, Enviromental, Black