



FLECK® 2750 DOWNFLOW SERVICE MANUAL

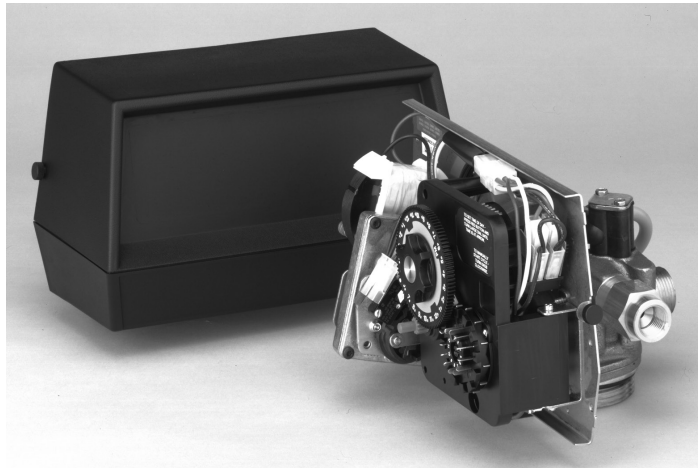


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IMPORTANT PLEASE READ:

- The information, specifications and illustrations in this manual are based on the latest information available at the time of release. The manufacturer reserves the right to make changes at any time without notice.
- This manual is intended as a guide for service of the valve only. System installation requires information from a number of suppliers not known at the time of manufacture. This product should be installed by a plumbing professional.
- This unit is designed to be installed on a potable water system only and is not intended to treat water that is microbiologically unsafe or of unknown quality without adequate disinfection before and after the system.
- This product must be installed in compliance with all state and municipal plumbing and electrical codes. Permits may be required at the time of installation.
- It is established that when daytime water pressure exceeds 80 psi (5.5 bar), the maximum pressure rating of 125 psi (8.6 bar) can be exceeded. A pressure regulator must be installed on this system or warranty is voided.
- Do not install the unit where temperatures may drop below 32°F (0°C) or above 120°F (52°C).
- Do not place the unit in direct sunlight. Black units will absorb radiant heat increasing internal temperatures.
- Do not strike the valve or any of the components.
- Warranty of this product extends to manufacturing defects. Misapplication of this product may result in failure to properly condition water, damage to product, or personal injury.
- A prefilter should be used on installations in which free solids are present.
- In some applications local municipalities treat water with Chloramines. High Chloramine levels may damage valve components.
- Correct and constant voltage must be supplied to the controller to maintain proper function.
- The system is intended to treat only potable quality water. It is not intended as the permanent primary treatment of water from a source that is contaminated, such as from radon, pesticides, insecticides, sewage or wastewater.
- This system is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children shall not play with the system.
- Cleaning shall not be made by children without supervision.
- Periodic cleaning and maintenance may be required to function properly. See disinfection instructions on page 5.

CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

JOB SPECIFICATION SHEET

Job Number: _____
Model Number: _____
Water Hardness: _____
ppm or gpg
Capacity Per Unit: _____
Mineral Tank Size: _____ Diameter: _____
Height: _____
Salt Setting per Regeneration: _____

1. Type of Timer:

- A. 7 Day or 12 Day
- B. Meter Initiated

2. Downflow: Upflow Upflow Variable

3. Meter Size:

- A. 3/4-inch Std Range (125 - 2,100 gallon setting)
- B. 3/4-inch Ext Range (625 - 10,625 gallon setting)
- C. 1-inch Std Range (310 - 5,270 gallon setting)
- D. 1-inch Ext Range (1,150 - 26,350 gallon setting)
- E. 1 1/2 inch Std Range (625 - 10,625 gallon setting)
- F. 1 1/2 inch Ext Range (3,125 - 53,125 gallon setting)
- G. 2-inch Std Range (1,250 - 21,250 gallon setting)
- H. 2-inch Ext Range (6,250 - 106,250 gallon setting)
- I. 3-inch Std Range (3,750 - 63,750 gallon setting)
- J. 3-inch Ext Range (18,750 - 318,750 gallon setting)
- K. Electronic ____ Pulse Count ____ Meter Size _____

4. System Type:

- A. System #4: 1 Tank, 1 Meter, Immediate, or Delayed Regeneration
- 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, Series Regeneration, Mechanical
2-4 Tanks, 1 Meter, Series Regeneration, Electronic
- F. 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. System #14: Electronic Only, 2-4 Tanks, Meter per Valve. Brings
units on and offline based on flow.

5. Valve Operating Parameters:

Models: 2500, 2510, 2750, 2850

Minimum operating pressure:	20 psi / 1.4 bar / 138 kPa
Maximum operating pressure:	125 psi / 8.61 bar / 861 kPa
Minimum water temperature:	34° F / 1° C
Maximum water temperature:	110° F / 43° C
Maximum Ambient temperature:	120° F / 52° C
Maximum humidity:	75%
Input Voltage:	120 Volts AC / 60 Hz
Maximum Watts:	30 watts
Maximum altitude:	2000 meters

6. Timer Program Settings:

- A. Backwash: Minutes
- B. Brine and Slow Rinse: _____ Minutes
- C. Rapid Rinse: _____ Minutes

D. Brine Tank Refill: _____ Minutes

E. Pause Time: _____ Minutes

F. Second Backwash: _____ Minutes

7. Drain Line Flow Control: gpm

8. Brine Line Flow Controller: gpm

9. Injector Size#:

10. Piston 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 Warnings & Caution Statement

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.

Grounding Instructions

This appliance must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a cord having an appliance-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances.

⚠ WARNING: Improper connection of the appliance-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt whether the appliance is properly grounded. Do not modify the plug provided with the appliance; if it will not fit the outlet, have a proper outlet installed by a qualified technician.

⚠ WARNING: Risk of Electric Shock Disconnect power before servicing.

FOR DRY LOCATIONS USE ONLY.

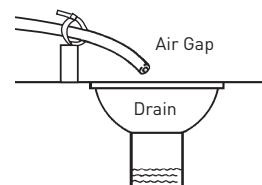
The cover should only be removed during installation set-up and maintenance by a qualified service person.

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 the drain to prevent air breaks and back flow. You must have an air gap on the drain line to prevent back flow of drain water into the system. The air gap should be two (2) times the diameter of the drain line pipe but must be at least 1-inch



By-Pass Valves

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

INSTALLATION *CONTINUED*

CAUTION 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.

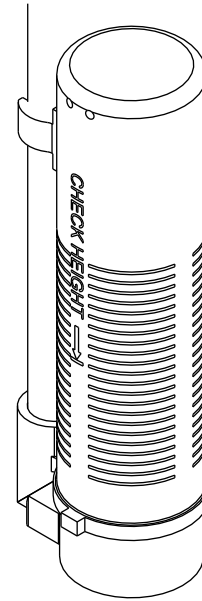
Installation Instructions

1. 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-inch (13 mm). Backwash flow rates in excess of 7 gpm (26.5 Lpm) or length in excess of 20 feet (6 m) require 3/4-inch (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.
5. Lubricate the distributor o-ring seal and tank o-ring seal. Place the main control valve on tank.

NOTE: Only use silicone lubricant.

6. **⚠ IMPORTANT:** For valves equipped with electromechanical timers and stainless steel meters, refer to the Meter Dome and Union Orientation section.
7. Solder joints near the drain must be done prior to connecting the Drain Line Flow Control fitting (DLFC). Leave at least 6 inches (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.
8. Plumber 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.
9. Make sure that the floor is clean beneath the salt storage tank and that it is level.
10. Place approximately 1 inch (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.
11. 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.
12. 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.
13. 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

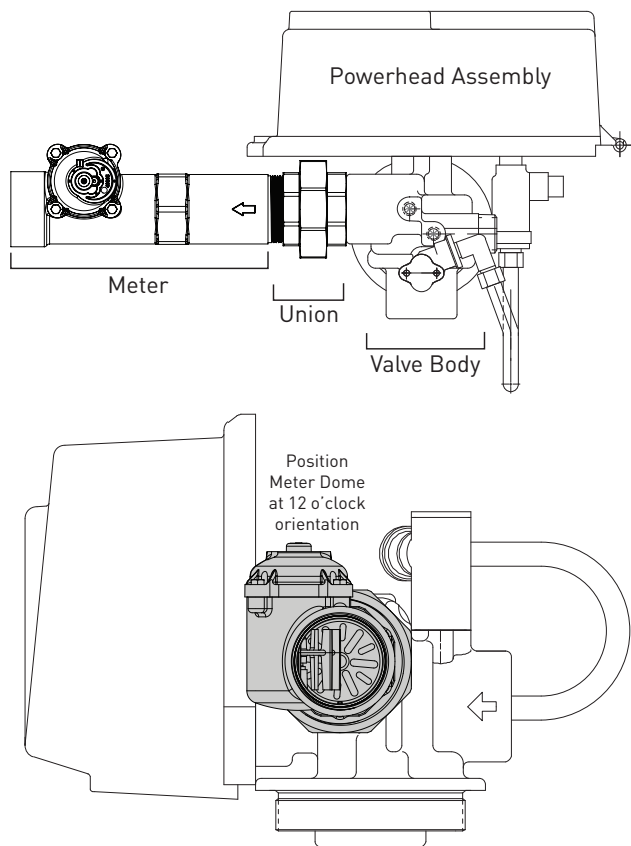
Figure 1 Residential Air Check Valve

Meter Dome and Union Orientation

Control valves outfitted with an electromechanical timer and stainless steel water meter include a special male x female threaded stainless steel union to insure proper installation and operation of the water meter.

⚠ WARNING: The location of this union in relation to the control valve and water meter is critical for proper operation. DO NOT omit or substitute this special union; it positions the meter dome at the correct distance from the control valve and allows re-positioning the water meter dome for proper operation.

1. Apply a suitable thread sealant to the male threads of the union and meter body.
2. Thread the union into the OUTLET port of the control valve, then thread the meter into the union. See illustrations on page 5.
3. Rotate the water meter body so the meter dome is at the 12 o'clock position. Loosen the nut on the union to facilitate this if required. Once in position, tighten the union nut.
4. Connect the meter cable to the open port in the center of the meter dome.
5. Continue with the installation of the control 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.

1. Turn the manual regeneration 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.

2. 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).
4. Position the valve to the rapid rinse position. Check the drain line flow, and run for 5 minutes or until the water runs clear.
5. 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.

SYSTEM DISINFECTION

The system is not intended to be used for the treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Disinfection of Water Softeners

The materials of construction of the modern water softener will not support bacterial growth, nor will these materials contaminate a water supply. During normal use, a softener may become fouled with organic matter, or in some cases with bacteria from the water supply. This may result in an off-taste or odor in the water.

Some softeners may need to be disinfected after installation and some softeners will require periodic disinfection during their normal life.

Depending upon the conditions of use, the style of softener, the type of ion exchanger, and the disinfectant available, a choice can be made among the following methods.

Sodium or Calcium Hypochlorite

Application

These materials are satisfactory for use with polystyrene resins, synthetic gel zeolite, greensand and bentonites.

5.25% Sodium Hypochlorite

These solutions are available under brand names of household bleach. If stronger solutions are used, such as those sold for commercial laundries, adjust the dosage accordingly.

1. Dosage
 - A. Polystyrene resin; 1.2 fluid ounce (35.5 ml) per cubic foot.
 - B. Non-resinous exchangers; 0.8 fluid ounce (23.7 ml) per cubic foot.
2. Salt tank softeners
 - A. Backwash the softener and add the required amount of hypochlorite solution to the well of the salt tank. The salt tank should have water in it to permit the solution to be carried into the softener.
 - B. Proceed with the normal recharge.

Calcium Hypochlorite

Calcium hypochlorite, 70% available chlorine, is available in several forms including tablets and granules. These solid materials may be used directly without dissolving before use.

1. Dosage
 - A. Two grains (approximately 0.1 ounce [3 ml]) per cubic foot.
2. Salt tank softeners
 - A. Backwash the softener and add the required amount of hypochlorite to the well of the salt tank. The salt tank should have water in it to permit the chlorine solution to be carried into the softener.
 - B. Proceed with the normal recharge.

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.

3200 TIMER SETTING PROCEDURE *CONT.*

How To Set The Time Of Day

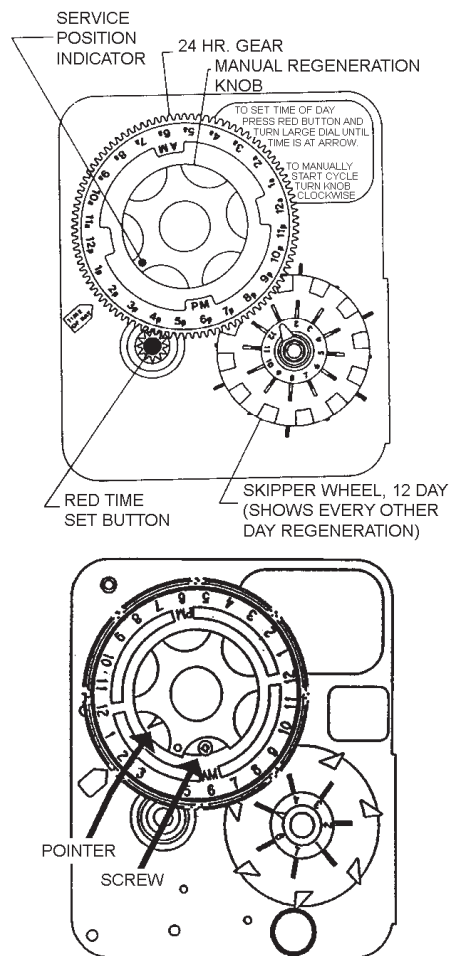
1. Press and hold the red button in to disengage the drive gear.
2. Turn the large gear until the actual time of day is at the time of day pointer.
3. Release the red button to again engage the drive gear.

How To Manually Regenerate Your Water Conditioner At Any Time

1. Turn the manual regeneration knob clockwise.
2. 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.
4. 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.
5. 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.
2. 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.
4. Locate the regeneration time pointer on the inside of the 24 hour dial in the cut out.
5. Turn the time plate so the desired regeneration time aligns next to the raised arrow.
6. Push the red button in and rotate the 24 hour dial. Tighten each of the three screws.
7. 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.



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

1. Press and hold the red button in to disengage the drive gear.
2. 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.
2. This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.

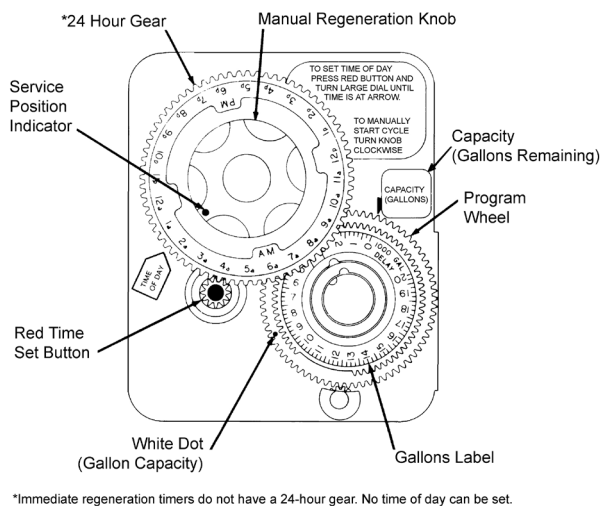
3. The black center knob will make one revolution in the following approximately three hours and stop in the position shown in the drawing.
4. Even though it takes three hours for this center knob to complete one revolution, the regeneration cycle of your unit might be set for only one half of this time.
5. 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.



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)

1. To expose cycle program wheel, grasp timer in upper left-hand corner and pull, releasing snap retainer and swinging timer to the right.
2. 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.
3. 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

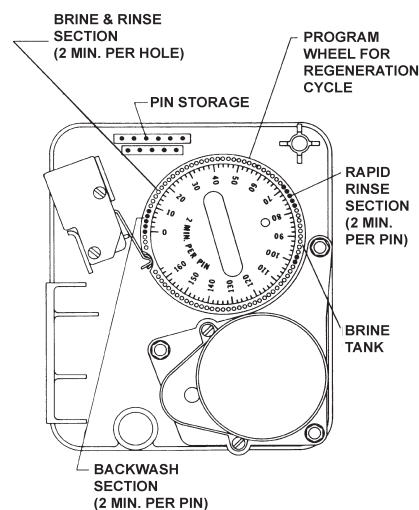
1. The group of holes between the last pin in the backwash section and the second group of pins determines the length of time that your unit will brine and rinse (2 min. per hole).
2. To change the length of brine and rinse time, move the rapid rinse group of pins to give more or fewer holes in the brine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

How To Change The Length Of Rapid Rinse

1. 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).
2. 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

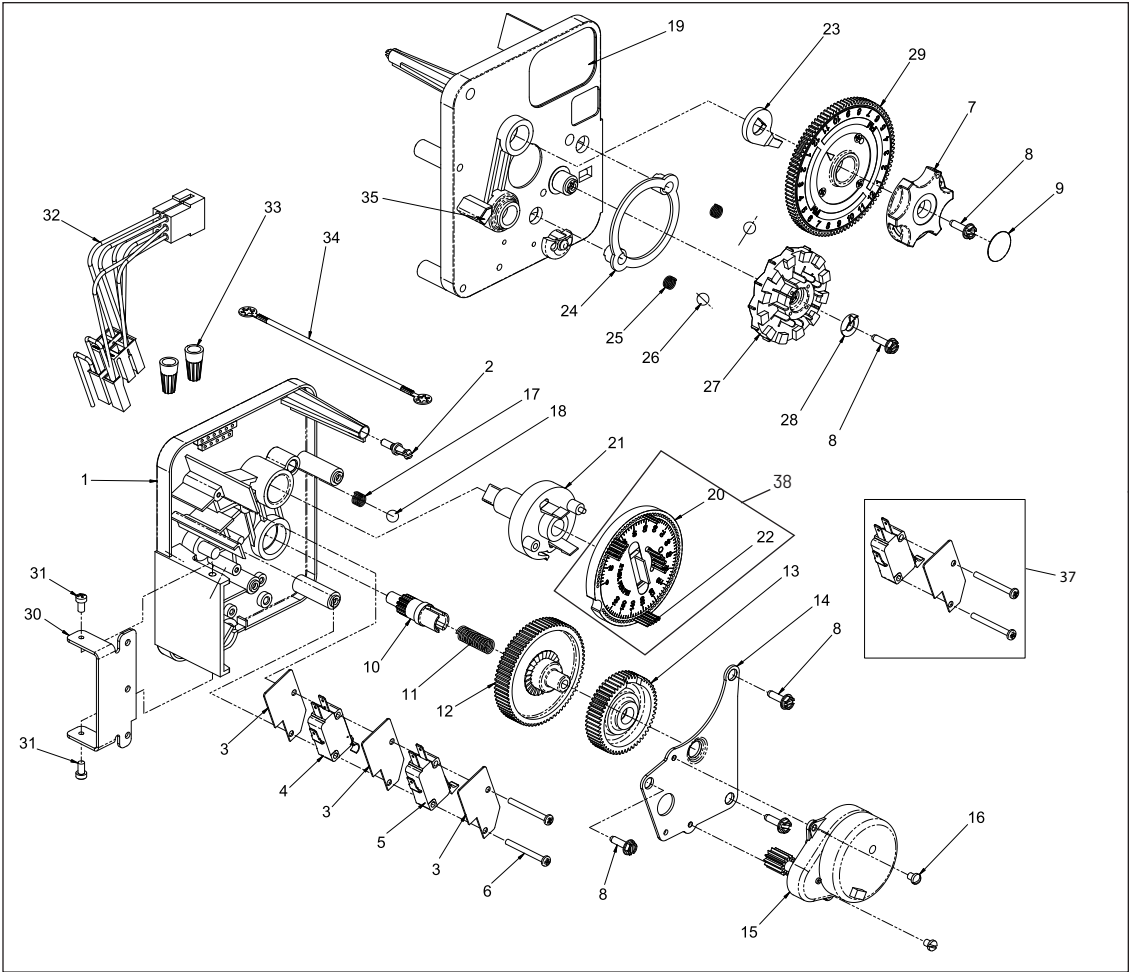
1. The second group of holes in the program wheel determines the length of time that your water conditioner will refill the brine tank (2 min. per hole).
2. To change the length of refill time, move the two pins at the end of the second group of holes as required.
3. The regeneration cycle is complete when the outer microswitch is tripped by the two pin set at end of the brine tank refill section.
4. The program wheel, however, will continue to rotate until the inner micro switch drops into the notch on the program wheel.



61502-3210 Rev A

Figure 4

3200 TIME CLOCK TIMER ASSEMBLY



61502-3200 Rev A

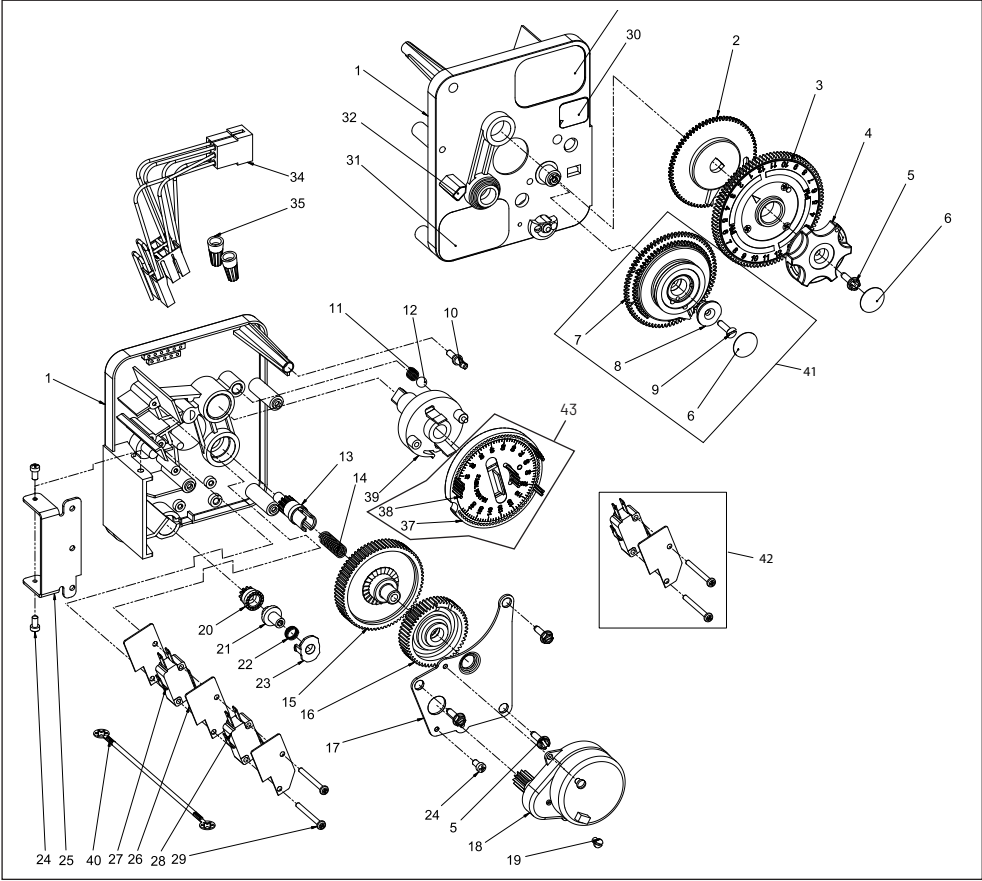
3200 TIME CLOCK TIMER ASSEMBLY *CONTINUED*

Item No.	QTY	Part No.	Description
1.....	1.....	13870	Housing, Timer, 3200
2	1.....	14265	Clip, Spring
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
		 18752-1.....	Motor, 100V, 50Hz, 1/30 RPM
		 18824-1	Motor, 230V, 50Hz, 1/30 RPM
		 18826-1.....	Motor, 24V, 50Hz, 1/30 RPM
		 19659-1.....	Motor, 24V, 60Hz, 1/30 RPM
		 19660-1	Motor, 230V, 60Hz, 1/30 RPM
16.....	2.....	13278	Screw, Sltd Fillister Hd 6-32 x .156
17.....	1.....	15424	Spring, Detent, Timer
18.....	1.....	15066	Ball, 1/4-inch, 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-inch, SS
27	1.....	14381.....	Skipper Wheel Assy, 12 Day
		 14860	Skipper Wheel Assy, 7 Day
28	1.....	13014.....	Pointer, Regeneration
29	1.....	40096-24.....	Dial, 12 AM Regen Assy, Black
		 40096-02.....	Dial, 2 AM Regen Assy, Black

Item No.	QTY	Part No.	Description
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 inches
35	1.....	14007	Label, Time of Day
36	1.....	*	Complete 3200 Time Clock Timer Assembly
37		60320-02.....	Switch Kit, 3200/9000 Timer Auxiliary, Optional
38		61420-03.....	Program Wheel, Gear Assy, Filter 2 Min Per Pin
		 61420-04.....	Program Wheel, Gear Assy, Softener, 2 Min Per Pin
		 61420-06.....	Program Wheel, Gear Assy, Soft Immed, 2 Min Per Pin
		 61420-42.....	Program Wheel, Gear Assy, Filter Immed, 2 Min Per Pin

*Call your distributor for Part Number

3210 METER DELAYED TIMER ASSEMBLY

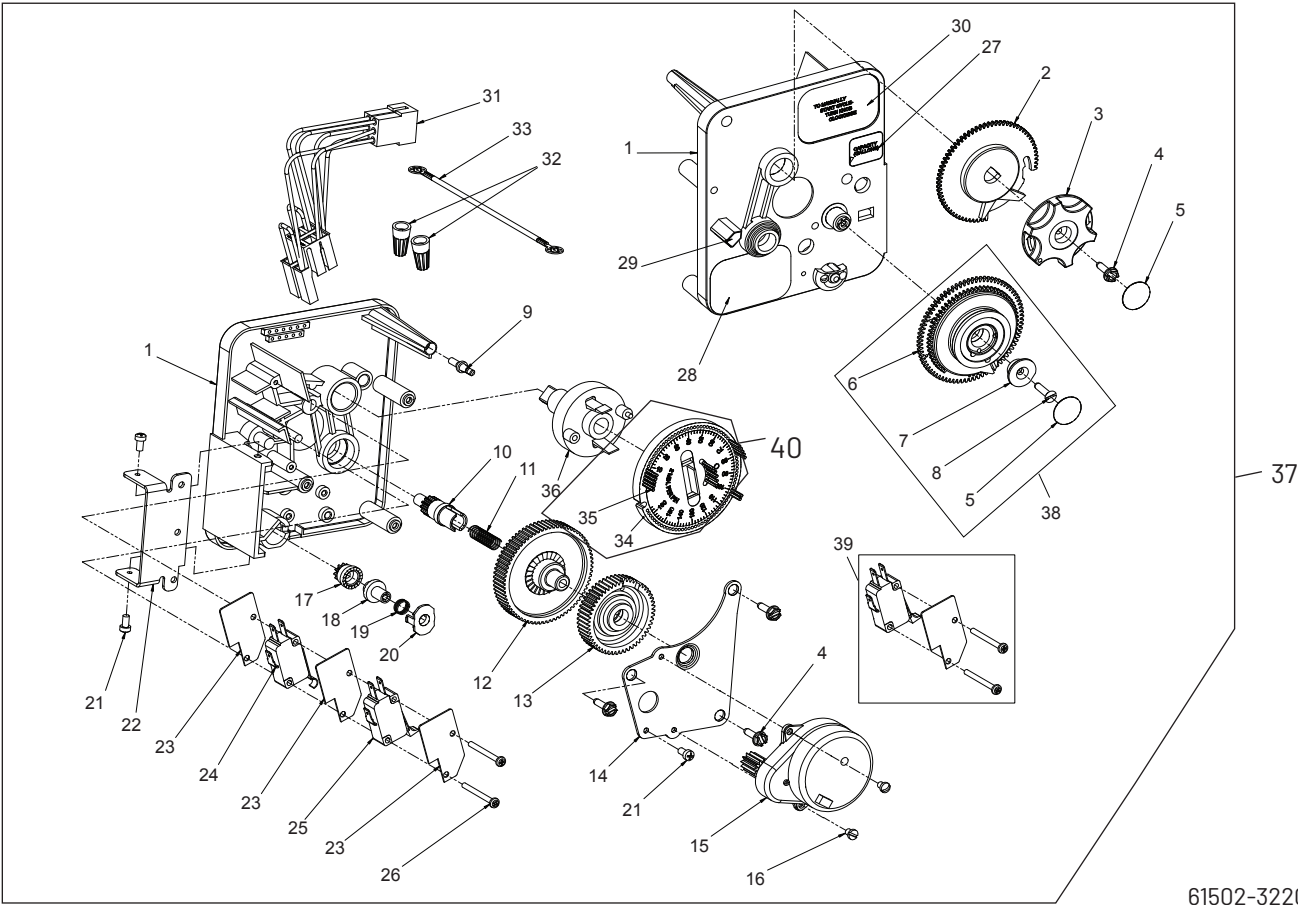


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3210 METER DELAYED TIMER ASSEMBLY *CONTINUED*

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1.....	1.....	13870	Housing, Timer, 3200	35	2.....	40422	Nut, Wire, Tan
2	1.....	13802	Gear, Cycle Actuator	36	1.....	15354-01.....	Wire, Ground, 4 inches
3	1.....	40096-02	Dial 2 AM Regen Assy, Black	37	1.....	19210.....	Program Wheel Assy
4	1.....	13886	Knob, 3200	38	17	41754.....	Pin, Spring, 1/16 x 5/8 SS, Timer
5	4.....	13296	Screw, Hex Wsh, 6-20 x 1/2	39	1.....	13911.....	Gear, Main Drive, Timer
6	2.....	11999	Label, Button	40.....	1.....	*	Complete 3210 Meter Delayed Timer Assembly
7	1.....	13803	Gear, Program Drive Wheel	41		60405-10	Program Wheel, w/3/4-inch STD Label 0-2,100 gal
8	1.....	13806	Retainer, Program Wheel			60405-20.....	Program Wheel, w/3/4-inch EXT Label 0-10,000 gal
9	1.....	13748	Screw, Flat Head St, 6-20 x 1/2			60405-11	Program Wheel, w/3/4-inch STD Metric Label 0-8 m3
10.....	1.....	14265	Clip, Spring			60405-21.....	Program Wheel, w/3/4-inch EXT Range 0-40 m3
11.....	1.....	15424	Spring, Detent, Timer			60405-30.....	Program Wheel, w/1-inch STD Range Label, 0-5,270
12.....	1.....	15066	Ball, 1/4-inch Delrin			60405-40.....	Program Wheel, w/1-inch EXT Range Label 0-26,350
13.....	1.....	13018	Pinion, Idler	42		60320-02.....	Switch Kit, 3200/9000 Timer Auxiliary, Optional
14.....	1.....	13312	Spring, Idler Shaft	43		61420-03.....	Program Wheel, Gear Assy, Filter 2 Min Per Pin
15.....	1.....	13017	Gear, Idler			61420-04.....	Program Wheel, Gear Assy, Softener, 2 Min Per Pin
16.....	1.....	13164	Gear, Drive			61420-06.....	Program Wheel, Gear Assy, Soft Immed, 2 Min Per Pin
17.....	1.....	13887	Plate, Motor Mounting			61420-42.....	Program Wheel, Gear Assy, Filter Immed, 2 Min Per Pin
18.....	1.....	18743-1.....	Motor, 120V, 60Hz 1/30 RPM	*Call your distributor for Part Number			
		 18752-1.....	Motor, 100V, 50Hz, 1/30 RPM				
		 18824-1	Motor, 230V, 50Hz, 1/30 RPM				
		 18826-1.....	Motor, 24V, 50Hz, 1/30 RPM				
		 19659-1.....	Motor, 24V, 60Hz, 1/30 RPM				
		 19660-1	Motor, 230V, 60Hz, 1/30 RPM				
19.....	1.....	13278	Screw, Fillister Hd, 6-32 x .156				
20.....	1.....	13830	Pinion, Program Wheel Drive				
21.....	1.....	13831	Clutch, Drive Pinion				
22	1.....	14276	Spring, Meter, Clutch				
23	1.....	14253	Retainer, Clutch Spring				
24	3.....	11384.....	Screw, Phil, 6-32 x 1/4				
25	1.....	13881	Bracket, Hinge Timer				
26.....	3.....	14087	Insulator				
27	1.....	10896	Switch, Micro				
28	1.....	15320	Switch, Micro, Timer				
29	2.....	11413.....	Screw, Pan Hd Mach, 4-40 x 1 1/8				
30.....	1.....	14198	Label, Indicator				
31.....	1.....	15465	Label, Caution				
32	1.....	14007	Label, Time of Day				
33	1.....	14045.....	Label, Instruction				
34	1.....	13902	Harness, 3200				

3220 METER IMMEDIATE TIMER ASSEMBLY



61502-3220 Rev B

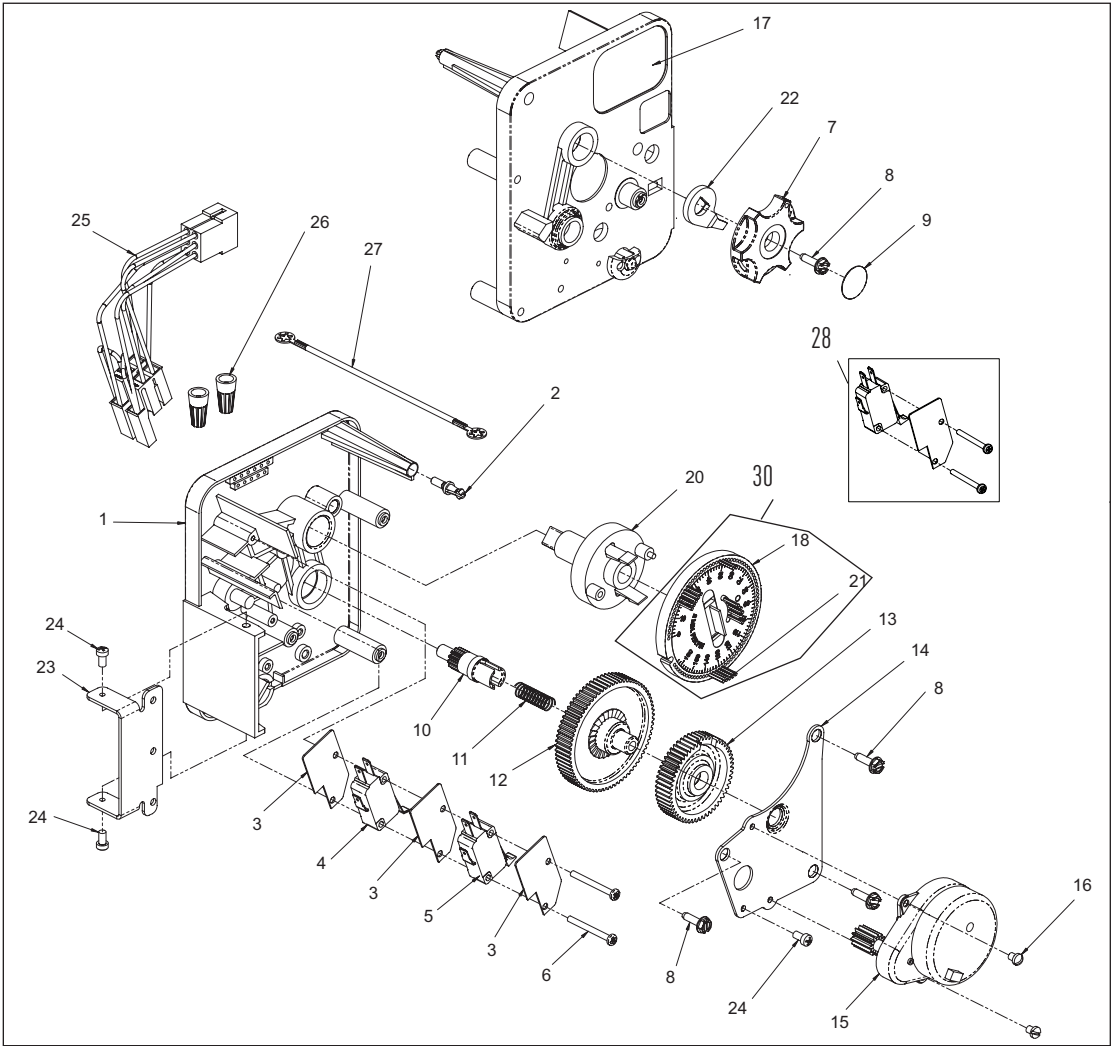
3220 METER IMMEDIATE TIMER ASSEMBLY *CONTINUED*

Item No.	QTY	Part No.	Description
1.....	1.....	13870	Housing, Timer
2.....	1.....	15431.....	Gear, Cycle Actuator, System #5
3.....	1.....	13886	Knob, 3200
4.....	4.....	13296	Screw, Hex Wsh, 6-20 x 1/2
5.....	2.....	11999	Label, Button
6.....	1.....	13807	Gear, Program Drive Wheel
7.....	1.....	13806	Retainer, Program Wheel
8.....	1.....	13748	Screw, Flt Hd St, 6-20 x 1/2
9.....	1.....	14265	Spring Clip
10.....	1.....	13018	Pinion, Idler
11.....	1.....	18563	Idler Shaft Spring
12.....	1.....	13017	Gear, Idler
13.....	1.....	13164	Drive Gear
14.....	1.....	13887	Plate, Motor Mounting
15.....	1.....	18743-1.....	Motor, 120V, 60 Hz, 1/30 RPM
		 18752-1.....	Motor, 100V, 50Hz, 1/30 RPM
		 18824-1	Motor, 230V, 50Hz, 1/30 RPM
		 18826-1.....	Motor, 24V, 50Hz, 1/30 RPM
		 19659-1.....	Motor, 24V, 60Hz, 1/30 RPM
		 19660-1	Motor, 230V, 60Hz, 1/30 RPM
16.....	2.....	13278	Screw, Sltd Fillister Hd
17.....	1.....	14502	Pinion, Program Wheel
18.....	1.....	14501.....	Clutch, Drive Pinion
19.....	1.....	14276	Meter Clutch Spring
20.....	1.....	14253	Retainer, Clutch Spring
21.....	3.....	11384.....	Screw, Phil, 6-32 x 1/4 Zinc
22.....	1.....	13881	Bracket, Hinge Timer
23.....	3.....	14087	Insulator
24.....	1.....	15414-00	Micro Switch
25.....	1.....	15320	Switch, Micro, Timer
26.....	2.....	11413.....	Screw, Pan Hd Mach, 4-40 x 1-1/8
27.....	1.....	14198	Label, Indicator
28.....	1.....	15465	Label, Caution
29.....	1.....	14007	Label, Time of Day
30.....	1.....	15148	Label, Instruction
31.....	1.....	40617	Harness, 3220
32.....	2.....	40422	Nut, Wire, Tan
33.....	1.....	15354-01.....	Wire, Ground, 4 inches
34.....	1.....	19210-05	Program Wheel Assembly, 9000/3230

Item No.	QTY	Part No.	Description
35.....	17	41754.....	Pin, Spring, 1/16 x 5/8 Stainless Steel, Timer
36.....	1.....	15055	Gear, Main Drive
37.....	1.....	*	Complete 3220 Meter Immediate Timer Assy
38.....		60405-10	Program Wheel, w/3/4-inch STD Label 0-2,100 gal
		 60405-20.....	Program Wheel, w/3/4-inch EXT Label 0-10,000 gal
		 60405-11	Program Wheel, w/3/4-inch STD Metric Label 0-8 m ³
		 60405-21.....	Program Wheel, w/3/4-inch EXT Range 0-40 m ³
39.....		60320-02.....	Switch Kit, 3200/9000 Timer Auxiliary, Optional
40.....		61420-06.....	Program Wheel, Gear Assy, Softener Immediate 2 Min Per Pin
		 61420-42.....	Program Wheel, Gear Assy, Filter Immediate 2 Min Per Pin

*Call your distributor for Part Number

3230 REMOTE START TIMER ASSEMBLY



61502-3230R REV A

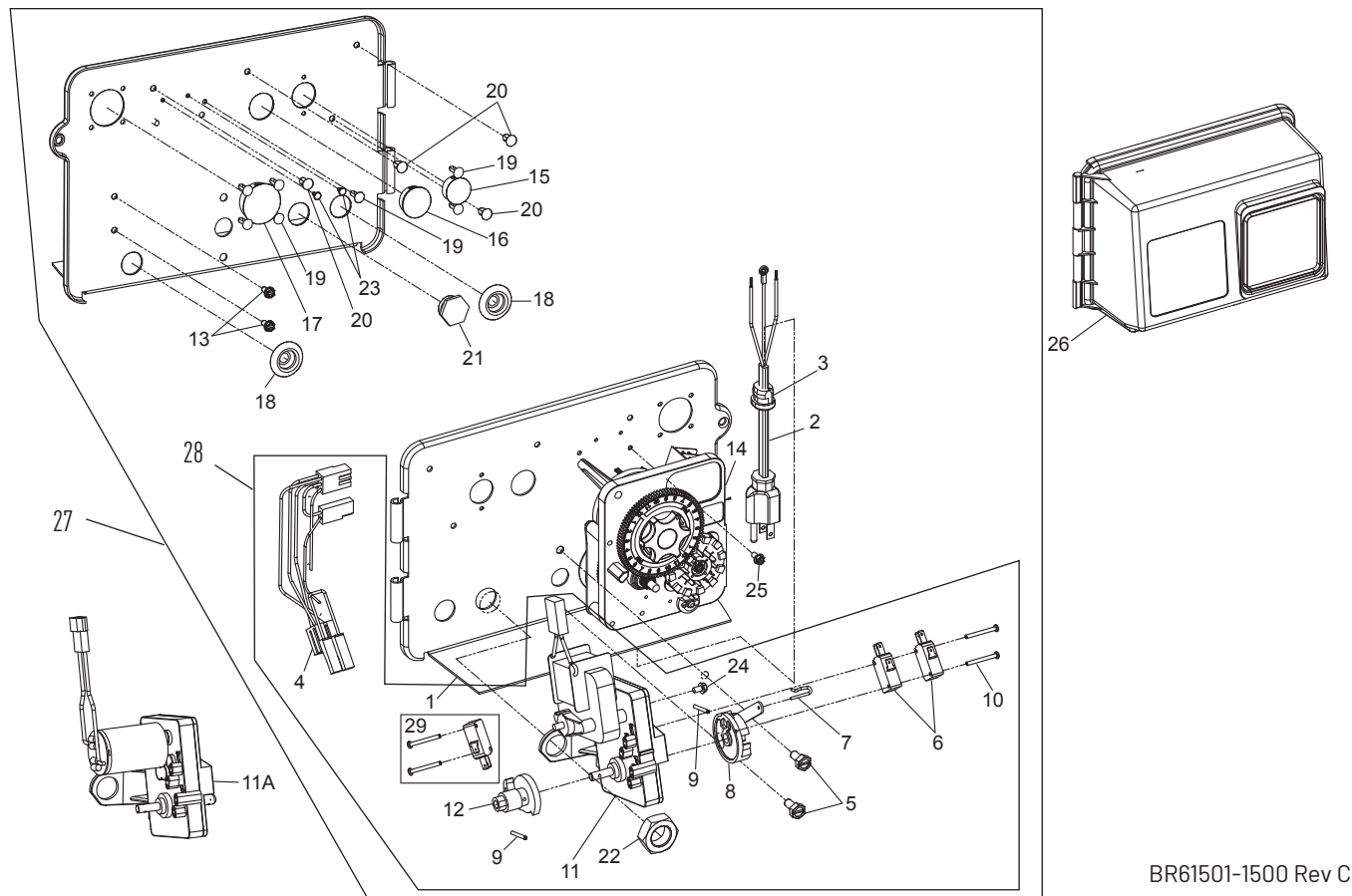
3230 REMOTE START TIMER ASSEMBLY *CONTINUED*

Item No.	QTY	Part No.	Description
1.....	1.....	13870	Housing, Timer
2	1.....	14265	Spring Clip
3	3.....	14087	Insulator
4	1.....	15314	Micro Switch
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	4.....	13296	Screw, Hex Wsh, 6-20 x 1/2
9	1.....	11999	Label, Button
10.....	1.....	13018.....	Pinion, Idler
11.....	1.....	18563	Idler Shaft Spring
12.....	1.....	13017	Gear, Idler
13.....	1.....	15055	Drive Gear
14.....	1.....	13887	Plate, Motor Mounting
15.....	1.....	18743-1.....	Motor, 120V, 60 Hz, 1/30 RPM
		 18752-1.....	Motor, 100V, 50Hz, 1/30 RPM
		 18824-1	Motor, 23V, 50Hz, 1/30 RPM
		 18826-1.....	Motor, 24V, 50Hz, 1/30 RPM
		 19659-1.....	Motor, 24V, 60Hz, 1/30 RPM
		 19660-1	Motor, 230V, 60Hz, 1/30 RPM
16.....	2.....	13278	Screw, Sltd Fillister Hd
17	1.....	15313	Label, Caution
18.....	1.....	19210-05	Program Wheel Assembly, 3200
20	1.....	15055	Main Drive Gear
21.....	17	41754.....	Pin, Spring, 1/16 x 5/8 Stainless Steel, Timer

Item No.	QTY	Part No.	Description
22	1.....	13011.....	Cycle Actuator Arm
23	1.....	13881	Bracket, Hinge Timer
24	3.....	11384.....	Screw, Phil, 6-32 x 1/4 Zinc
25	1.....	16336	Harness, 3230R
26	2.....	40422	Nut, Wire, Tan
27	1.....	15354-01.....	Wire, Ground, 4 inches
28		60320-02.....	Switch Kit, 3200/9000 Timer Auxiliary, Optional
29		*	3230 Timer Assy
30		61420-06.....	Program Wheel, Gear Assy, Softener Immediate 2 Min Per Pin
		 61420-42.....	Program Wheel, Gear Assy, Filter Immediate 2 Min Per Pin

*Call your distributor for Part Number

POWERHEAD ASSEMBLY (ENVIRONMENTAL)

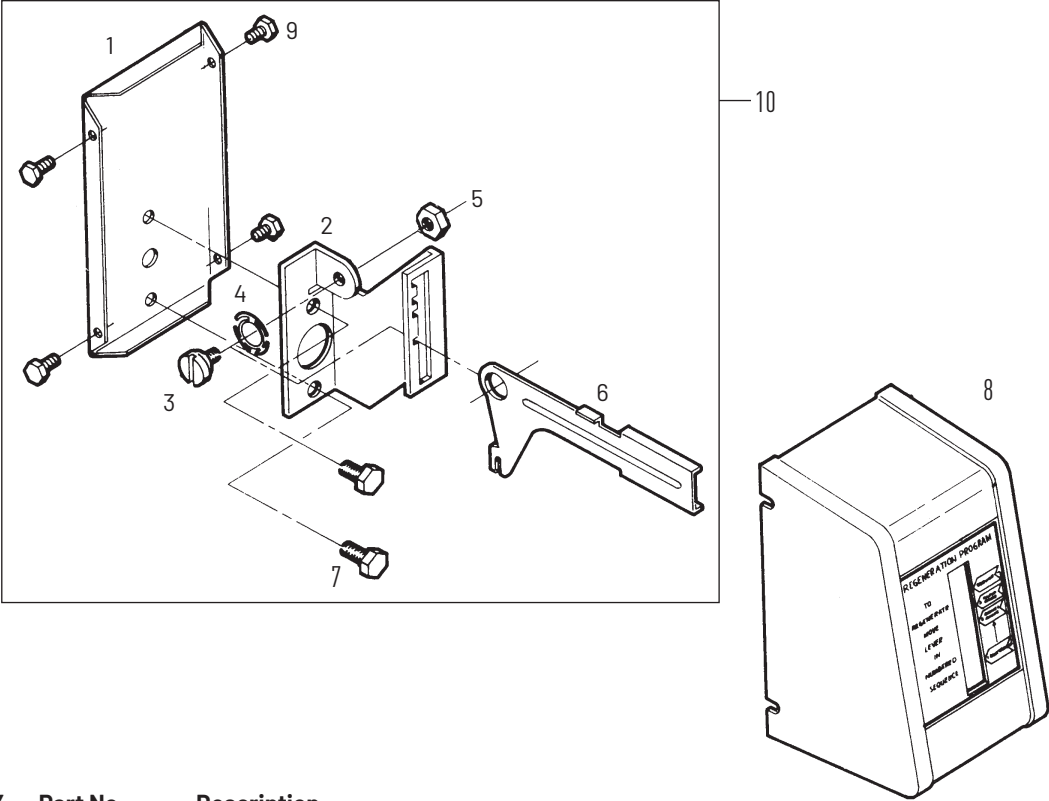


BR61501-1500 Rev C

POWERHEAD ASSEMBLY (ENVIRONMENTAL) *CONTINUED*

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	18697-15	Backplate, Hinged	17	1	17421	Plug, 1.20 Hole
2	1	11838	Power Cord, 6-foot, North American, Flat	18	2	19691	Plug, .750 Dia. Hole, Flush
		19303-01	Power Cord, 6-foot, Australian	19	7	19800	Plug (Hole Size: Dia .140)
		19885-01	Power Cord, 6-foot, Japanese	20	4	19801	Plug, Dia .190
		11545-01	Power Cord, 6-foot, European	21	1	43560	Fitting, Brine Valve (Used on Filter Valves)
3	1	13547	Strain Relief, Cord	22	1	10269	Nut, Jam, 3/4-16 (Used on Filter Valves) Wrench Tighten
4	1	40400	Harness, Drive Designer/Envirmtl	23	2	41581	Plug, Hole .125 Dia, White
5	2	10231	Screw, Slot Hex 1/4-20 x 1/2 35 in-lbs ±20%	24	1	10872	Screw, Hex WSH, 8-32 x 5/16 20 in-lbs ±20%
6	2	10218	Switch, Micro	25	1	14202-01	Screw, Hex Washer #8-32 x 5/16 Hand Tighten
7	1	10909	Pin, Connecting Rod Spring	26	1	60219-02	Cover Assy, Environmental, Black, Clear Window
8	1	60160-15	Drive Cam Assy, STF, Blue, 2900			60219-12	Cover Assy, Environmental, Black, Black Window
9	2	10338	Pin, Roll, 3/32 x 7/8	27	1	*	Powerhead Assembly
10	2	14923	Screw, Pan Hd MACH, 4-40 x 15.0 in-lbs ±10%	28	1	60050-23	Drive Motor Assy, 24 VAC/DC, 50-60 Hz FAM 1
11	1	41543	Motor, Drive, 115V/60 Hz			60050-21	Drive Motor Assy, 115V/60 Hz
		41545	Motor, Drive, 220V, 50-60Hz, SP, Fam 1			60050-22	Drive Motor Assy, 220V, 50-60 Hz SP FAM1
11A		42579	Motor, Drive, 24 VAC/DC, 50-60 Hz, Fam 1	29		60320-12	Switch Kit, 1500-2850 Drive Motor
12	1	12777	Cam, Shut-off Valve	Not Shown:			
13	2	10300	Screw, Hx Wash Head, 8 x 3/8 20 in-lbs ±20%	1		15441	Cable Guide Assy, 2750
14	1	3200	Timer Assy, 3200 7 or 12 Day	1		15513	Meter Cable, 17.5 inch, 1 inch Brass Meter
			3210 Meter Delay	1		17741	Meter Cable, 16.5 inch, 1 inch Stainless Steel Meter
			3220 Meter Immediate	*Call your distributor for Part Number			
15	1	15806	Hole Plug, (HeyCo)				
16	1	16493	Plug, Hole, HeyCo, .88 Dia				

MANUAL POWERHEAD ASSEMBLY



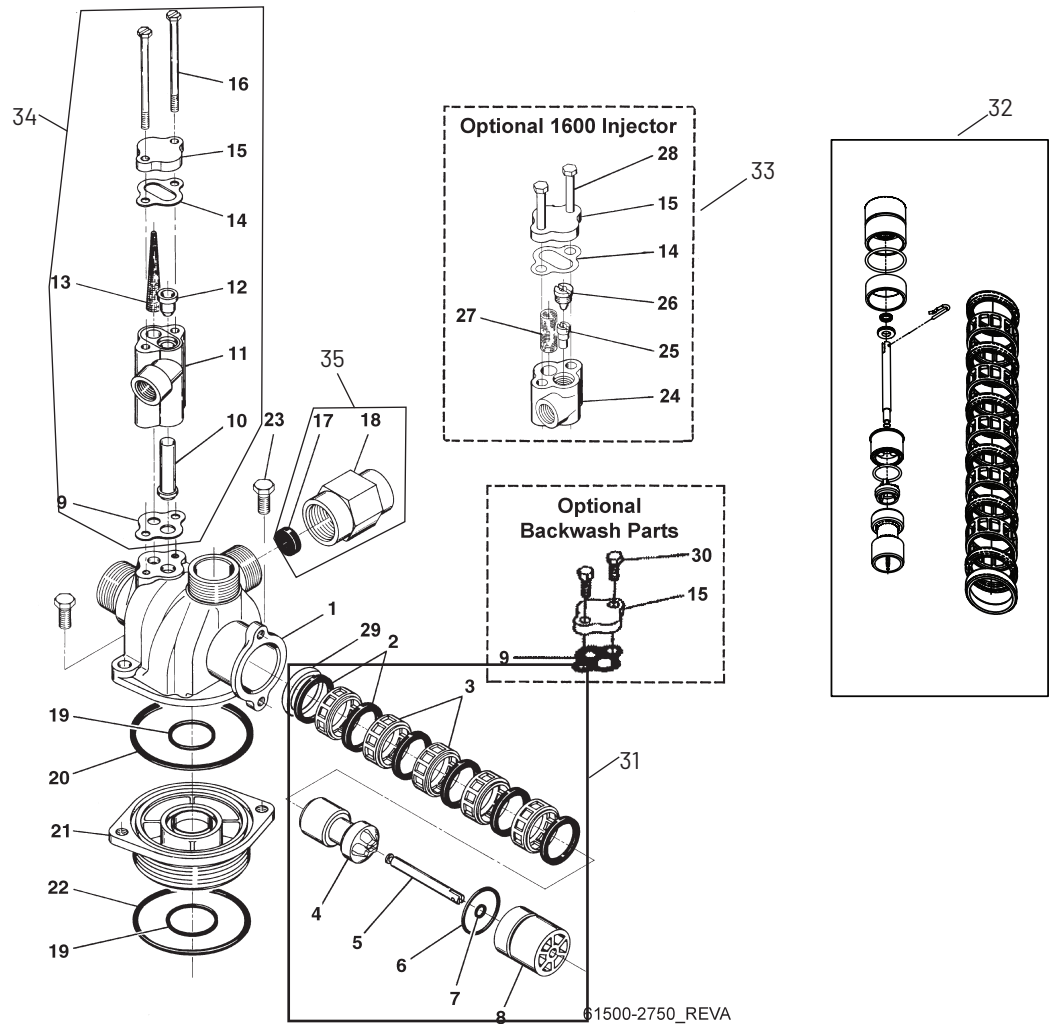
Item No.	QTY	Part No.	Description
1.....	1.....	12593	Backplate, Manual
2	1	12592	Bracket, Lever Position
3	1.....	12596	Screw, Spec Mach, 1/4 - 20 x 1/2
4	1.....	12707	Washer, Spring
5	1.....	11235.....	Nut, Hex, 1/4 - 20, Mach Screw, Zinc
6	1.....	12594	Lever, Valve Position
7	2.....	10231.....	Screw, Slot Hex, 1/4 - 20 x 1/2 18-8 SS
8	1.....	60224-32	Cover Assy, Manual, Filter
		 60224-33	Cover Assy, Manual, Softener
9	4.....	10300.....	Screw, Slot Hex Wsh, 8-18 x 3/8 Type "B" RC44-47
10.....		60409	Powerhead Assy, Manual

Not Shown:

- 1..... 10909 Pin, Link

60409 Rev A

CONTROL VALVE WITH 1700 INJECTOR ASSEMBLY



60036 Rev C

CONTROL VALVE WITH 1700 INJECTOR *CONTINUED*

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1.....	1.....	14749	Valve Body, 2750	.....		10914-4	Throat, Injector, #4, Green
2.....	6.....	10545	Seal, Piston	.....		12974-0	Throat, Injector, #0, PVC, Grey
3.....	5.....	11451.....	Spacer, 12 Hole	.....		12974-1.....	Throat, Injector, #1, PVC, Grey
		 16589	Spacer, HW	.....		12974-2	Throat, Injector, #2, PVC, Grey
4.....	1.....	14451.....	Piston, 2750	.....		12974-3	Throat, Injector, #3, PVC, Grey
5.....	1.....	14452	Rod, Piston	.....		12974-4	Throat, Injector, #4, PVC, Grey
6.....	1.....	10234-01	O-Ring, -024, 560CD	.....		10226-0.....	Throat, Injector, #0, Stainless Steel
7.....	1.....	10209	Quad Ring, -010	.....		10226-1	Throat, Injector, #1, Stainless Steel
8.....	1.....	10598	End Plug Assembly	.....		10226-2.....	Throat, Injector, #2, Stainless Steel
		 10598-01	End Plug Assembly, Hot Water	.....		10226-3.....	Throat, Injector, #3, Stainless Steel
9.....	1.....	14805	Gasket, Injector Body, 1600/1700	.....		10226-4.....	Throat, Injector, #4, Stainless Steel
10.....		14802-03C	Throat, Injector, #3C, Yellow	26.....	1.....	10913-000	Nozzle, Injector #000, Brown
		 14802-04C	Throat, Injector, #4C, Green	.....		10913-00	Nozzle, Injector #00, Violet
		 14802-05C	Throat, Injector, #5C, White	.....		10913-0	Nozzle, Injector #0, Red
		 14802-06C	Throat, Injector, #6C, Red	.....		10913-1	Nozzle, Injector #1, White
11.....	1.....	17777	Body, Injector, 1700	.....		10913-2	Nozzle, Injector #2, Blue
12.....		14801-03C	Nozzle, Injector, #3C, Yellow	.....		10913-3.....	Nozzle, Injector #3, Yellow
		 14801-04C	Nozzle, Injector, #4C, Green	.....		10913-4	Nozzle, Injector #4, Green
		 14801-05C	Nozzle, Injector, #5C, White	.....		12973-0	Nozzle, Injector #0, PVC, Grey
		 14801-06C	Nozzle, Injector, #6C, Red	.....		12973-1.....	Nozzle, Injector #1, PVC, Grey
13.....	1.....	14803	Screen, Injector	.....		12973-2	Nozzle, Injector #2, PVC, Grey
14.....	1.....	10229	Gasket, Injector Cap, 1600	.....		12973-3	Nozzle, Injector #3, PVC, Grey
15.....	1.....	11893	Cap, Injector, Stainless Steel	.....		12973-4	Nozzle, Injector #4, PVC, Grey
		 10228	Cap, Injector, Brass	.....		10225-0.....	Nozzle, Injector #0, Stainless Steel
16.....	2.....	14804	Screw, Hex Hd Mach, 10-24 x 2-3/4	.....		10225-1	Nozzle, Injector #1, Stainless Steel
17.....	1.....		Washer - Flow Control (specify size)	.....		10225-2.....	Nozzle, Injector #2, Stainless Steel
18.....	1.....	60365-00	Housing, DLFC, 1/2-inch F x 3/4-inch F, Blank	.....		10225-3.....	Nozzle, Injector #3, Stainless Steel
19.....	2.....	11710.....	O-ring, -215	.....		10225-4.....	Nozzle, Injector #4, Stainless Steel
20.....	1.....	11208.....	O-ring, -232	27.....	1.....	10227	Screen, Injector
21.....	1.....	12461-01	Adapter Base, 1-inch 2-1/2 inch - 8 Quick Connect	28.....	2.....	10692	Screw, Slot Hex Hd, 10-24 x 18-8 Stainless Steel
22.....	1.....	10381.....	O-ring, -231	29.....	1.....	10757	Spacer, End
23.....	2.....	11224.....	Screw, Hex Hd, 5/16 - 18 x 5/8	.....		..... 10757B	Spacer, End, Brass
24.....	1.....	17776.....	Body, Injector	30.....	1.....	15137	Screw, Hex Wsh Mach, 10-24 x 3/8
25.....		10914-000	Throat, Injector #000, Brown	31.....	1.....	61670-01.....	Piston Kit, 2510/2750
		 10914-00	Throat, Injector, #00, Violet	.....		..... 62044	Piston Kit, 2750, Hot Water
		 10914-0	Throat, Injector, #0, Red	32.....	1.....	61670-02	Piston Kit, 2510/2750, NHWP
		 10914-1.....	Throat, Injector, #1, White	33.....	1.....	60480-000.....	Injector Assy, 1600 #00, Plastic
		 10914-2	Throat, Injector, #2, Blue				
		 10914-3	Throat, Injector, #3, Yellow				

CONTROL VALVE WITH 1700 INJECTOR *CONTINUED*

Item No.	QTY	Part No.	Description
		 60480-00.....	Injector Assy, 1600 #0, Plastic
		 60480-01.....	Injector Assy, 1600 #1, Plastic
		 60480-02.....	Injector Assy, 1600 #2, Plastic
		 60480-03.....	Injector Assy, 1600 #3, Plastic
		 60480-04.....	Injector Assy, 1600 #4, Plastic
		 60481-21.....	Injector Assy, 1600, #1, S.S. Complete, Brass
		 60481-22.....	Injector Assy, 1600, #2, S.S. Complete, Brass
		 60481-23.....	Injector Assy, 1600, #3, S.S. Complete, Brass
		 60080-11.....	Injector Assy, 1600, #1, PVC
		 60080-12.....	Injector Assy, 1600, #2, PVC
		 60080-14.....	Injector Assy, 1600, #4, PVC
34.....	1.....	60381-03.....	Injector Assy, 1700, 3C
		 60381-04.....	Injector Assy, 1700, 4C
		 60381-05.....	Injector Assy, 1700, 5C
		 60381-06.....	Injector Assy, 1700, 6C
35.....	1.....	60365-06.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 0.6 gpm
		 60365-08.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 0.8 gpm
		 60365-10.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 1.0 gpm
		 60365-12.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 1.2 gpm
		 60365-13.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 1.3 gpm
		 60365-15.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 1.5 gpm
		 60365-17.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 1.7 gpm
		 60365-20.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 2.0 gpm
		 60365-24.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 2.4 gpm
		 60365-30.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 3.0 gpm
		 60365-35.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 3.5 gpm
		 60365-40.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 4.0 gpm
		 60365-45.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 4.5 gpm
		 60365-50.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 5.0 gpm

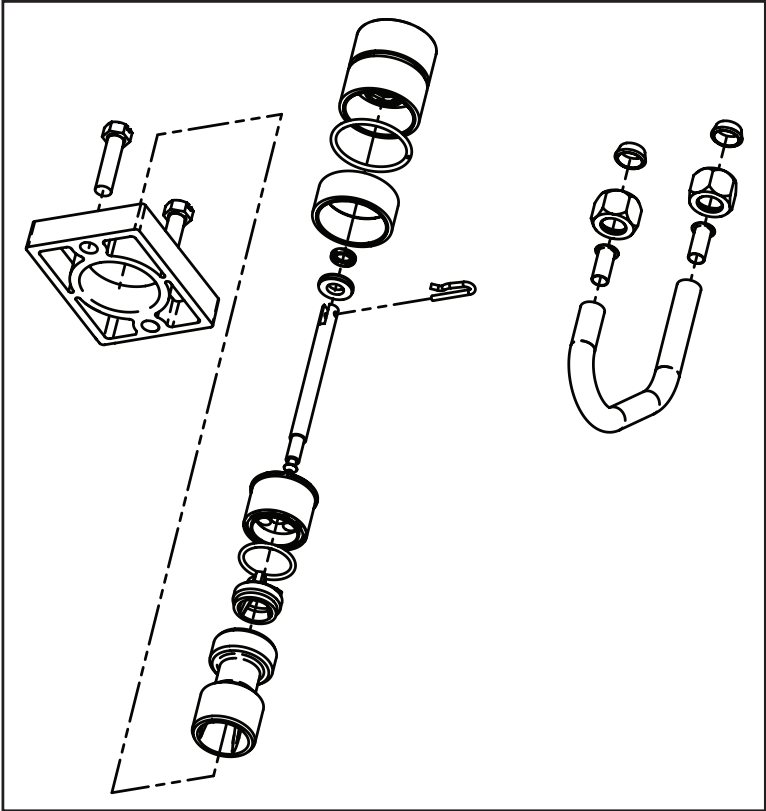
Item No.	QTY	Part No.	Description
		 60365-60.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 6.0 gpm
		 60365-70.....	DLFC, 3/4-inch F x 1/2-inch F, NPT 7.0 gpm
		 60700-00.....	DLFC, 3/4-inch F x 3/4-inch F, NPT Blank
		 60700-8.0.....	DLFC, 3/4-inch F x 3/4-inch F, NPT 8.0 gpm
		 60700-9.0.....	DLFC, 3/4-inch F x 3/4-inch F, NPT 9.0 gpm
		 60700-10.....	DLFC, 3/4-inch F x 3/4-inch F, NPT 10.0 gpm
		 60700-12.....	DLFC, 3/4-inch F x 3/4-inch F, NPT 12.0 gpm
		 60700-15.....	DLFC, 3/4-inch F x 3/4-inch F, NPT 15.0 gpm
		 60700-20.....	DLFC, 3/4-inch F x 3/4-inch F, NPT 20.0 gpm
		 60700-25.....	DLFC, 3/4-inch F x 3/4-inch F, NPT 25.0 gpm

Not Shown

..... 1.....	16221.....	Disperser, Air, 1600
..... 1.....	17996.....	Disperser, Air, 1700

SOFTENER FILTER CONVERSION KITS

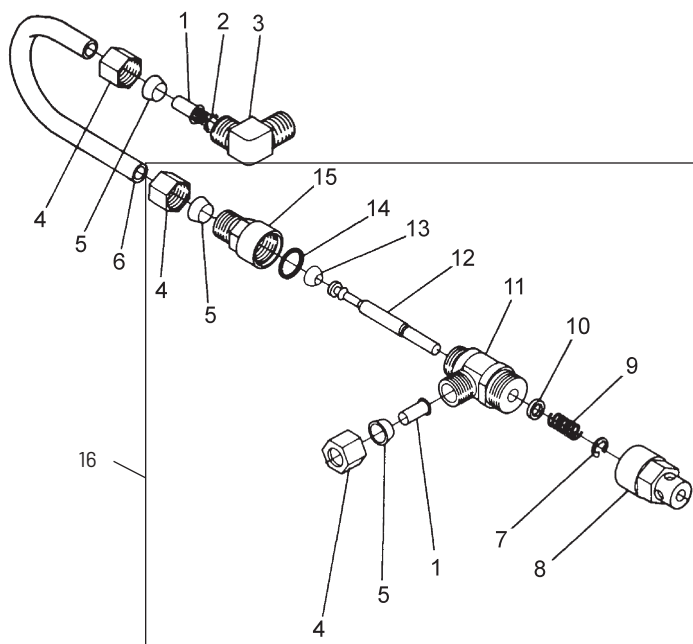
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61671 Rev E

Item No.	QTY	Part No.	Description
1.....		61671-02.....	NHWBP Conversion Kit, 2510

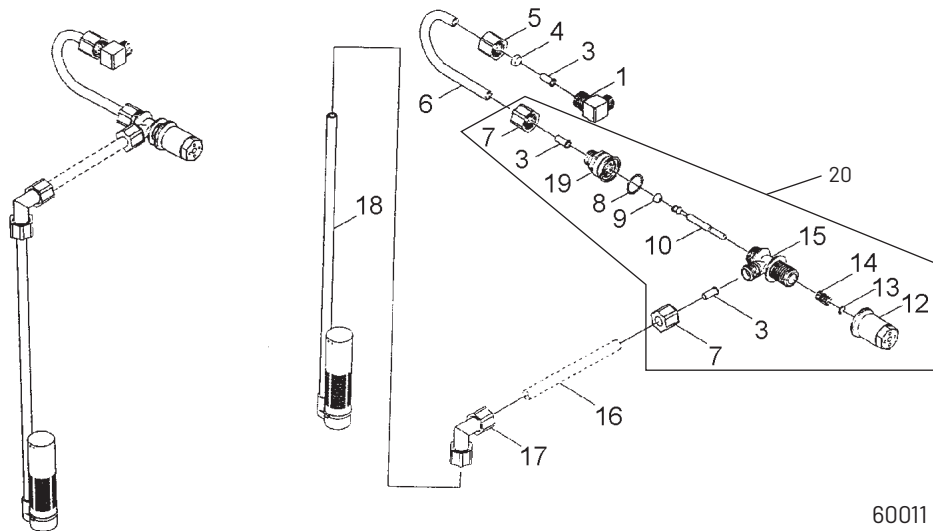
1600 BRINE SYSTEM ASSEMBLY



60029 Rev C

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1.....	2.....	10332	Fitting, Insert, 3/8	13.....	1.....	12626	Seat, Brine Valve
2.....	1.....	12767	Screen, Brine	14.....	1.....	11982	O-ring, -016
3.....	1.....	10328	Fitting, Elbow, 90 Deg. 1/4-inch NPT x 3/8Tube	15.....	1.....	60020-25.....	BLFC, .25 GPM, 1600
4.....	3.....	10329	Fitting, Tube, 3/8 Nut, Brass	.....	.....	60020-50.....	BLFC, .50 GPM, 1600
5.....	3.....	10330	Fitting, Sleeve, 3/8 Celcon	.....	.....	60020-100	BLFC, 1.0 GPM, 1600
6.....	1.....	16508-01.....	Tube, Brine Valve, 2850/2900s	16.....	1.....	60029-010.....	Brine Valve, 1600 Short Stem, 0.25 gpm
.....	.....	12774	Tube, Brine Valve, 1500	.....	.....	60029-020.....	Brine Valve, 1600 Short Stem, 0.50 gpm
.....	.....	40027	Tube, Brine Valve, 2510, HWBP	.....	.....	60029-030.....	Brine Valve, 1600 Short Stem, 1.00 gpm
.....	.....	14228	Tube, Brine Valve, 2510, NHWBP				
.....	.....	15221-01	Tube, Brine Valve, 2750/2900				
.....	.....	42184	Tube, Brine Valve, 2850s				
.....	.....	41683.....	Tube, Brine Valve, UF, 2900S 1600/1650				
7.....	1.....	10250	Ring, Retaining				
8.....	1.....	11749	Guide, Brine Valve Stem				
9.....	1.....	10249	Spring, Brine Valve				
10.....	1.....	12550	Quad Ring, -009				
11.....	1.....	12748	Brine Valve Body Assy, 1600 w/Quad Ring				
12.....	1.....	12552-02.....	Brine Valve Stem, 1600, with Seat				

1650 BRINE SYSTEM

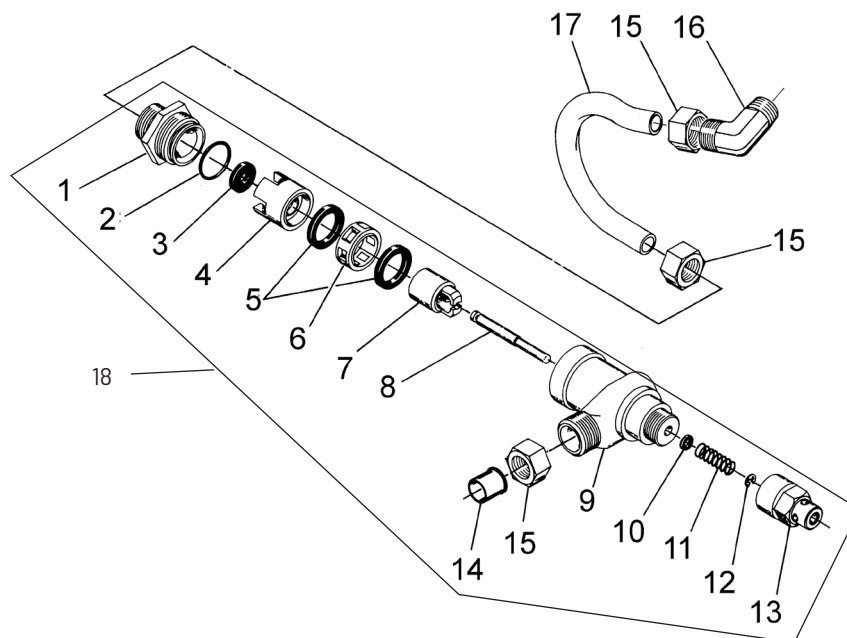


60011 Rev D

Item No.	QTY	Part No.	Description
1.....	1.....	10328	Elbow, 90 1/4 NPT x 3/8
3.....	3.....	10332	Insert, 3/8
4.....	1.....	10330	Sleeve, 3/8 Nut Brine
5.....	1.....	10329	Tube Fitting, 3/8 Nut Brine
6.....	1.....	16508-01.....	Tube, Brine Valve, 2850/2900s
		 12774	Tube, Brine Valve, 1500
		 40027	Tube, Brine Valve, 2510, HWBP
		 14228	Tube, Brine Valve, 2510, NHWBP
		 15221-01	Tube, Brine Valve, 2750/2900
		 42184	Tube, Brine Valve, 2850s
		 41683.....	Tube, Brine Valve, UF, 2900S 1600/1650
7.....	2.....	19625	Assy., GFN Nut
8.....	1.....	16924	O-ring, -018
9.....	1.....	12626	Seat, Brine Valve
10.....	1.....	12552	Brine Valve Stem, 1600
12.....	1.....	17906	Guide, Brine Valve Stem
13.....	1.....	10250	Retaining Ring
14.....	1.....	10249	Spring, Brine Valve
15.....	1.....	17884	Brine Valve Body Assy., Plastic
17.....	1.....	12794	Elbow, 3/8 Tube Poly, White
18.....	1.....	60002	#500 Air Check
19.....		60010-25 BLFC Assy. (Parts)	

Item No.	QTY	Part No.	Description
1.....		17907	Housing
1.....		12128	.25 GPM Label
1.....		12094	.25 Flow Washer
1.....		12098	Retainer
		60010-50 BLFC Assy. (Parts)	
1.....		17907	Housing
1.....		10759	.50 GPM Label
1.....		12095	.50 Flow Washer
1.....		12098	Retainer
		60010-100 BLFC Assy. (Parts)	
1.....		17907	Housing
1.....		10760	1.0 GPM Label
1.....		12097	1.0 Flow Washer
1.....		12098	Retainer
20.....		60011-010	Brine Valve, 1650, Short Stem, 0.25 gpm
		 60011-020	Brine Valve, 1650, Short Stem, 0.50 gpm
		 60011-030	Brine Valve, 1650, Short Stem, 1.00 gpm

1700 SERIES BRINE SYSTEM ASSEMBLY



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
		12086	Washer, Flow, 1.5 GPM
		12087	Washer, Flow, 2.0 GPM
		12088	Washer, Flow, 2.4 GPM
		12089	Washer, Flow, 3.0 GPM
		12090	Washer, Flow, 3.5 GPM
		12091	Washer, Flow, 4.0 GPM
		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-inch, Tube
15	2	15414	Nut, 2900, w/Sleeve
16	1	15413	Fitting, Elbow, Male, 1/2T x 3/8 NPT
17	1	15416	Tube, Brine, 2900/2750
		16460	Tube, Brine, 2850/2900s
		41447*	Tube, Brine, 2900s, U/F
		42183	Tube, Brine, 1700, 2850s

Item No.	QTY	Part No.	Description
18	1	60034-00	Brine Valve, 1700, Blank
		60034-10	Brine Valve, 1700, 1.0 gpm
		60034-12	Brine Valve, 1700, 1.2 gpm
		60034-15	Brine Valve, 1700, 1.5 gpm
		60034-20	Brine Valve, 1700, 2.0 gpm
		60034-24	Brine Valve, 1700, 2.4 gpm
		60034-30	Brine Valve, 1700, 3.0 gpm
		60034-40	Brine Valve, 1700, 4.0 gpm
		60034-50	Brine Valve, 1700, 5.0 gpm

Not Shown:

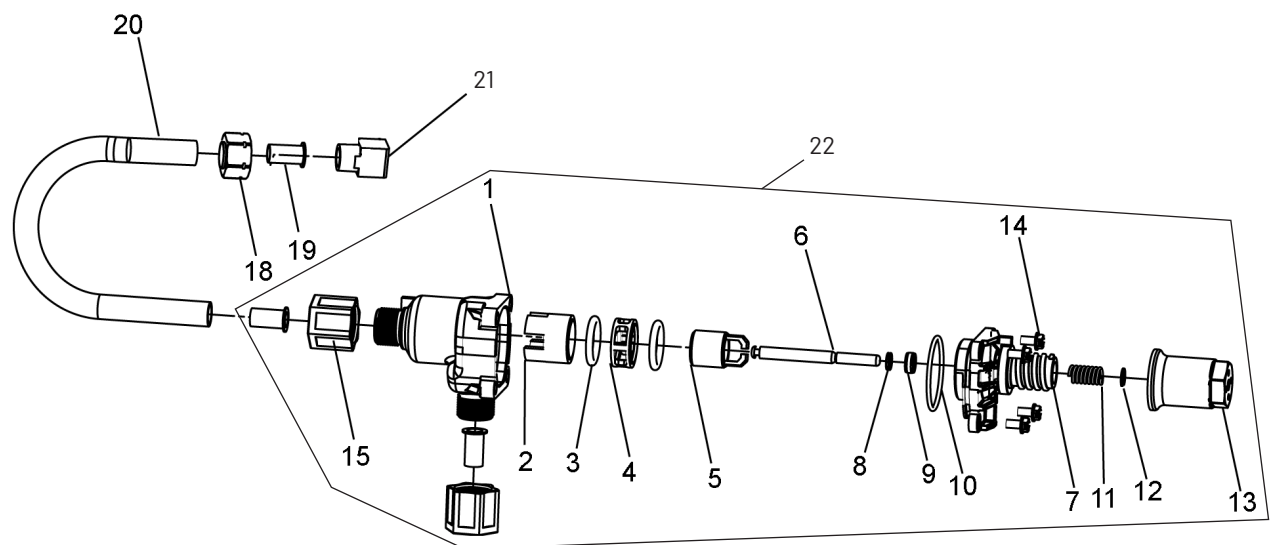
..... 1 16974 Fitting, Plastic, Female, 3/4 x 3/4 Slip

..... 1 17996 Disperser, Air, Injector

*Upflow Only

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



60604 Rev F

Item No.	QTY	Part No.	Description
1.....	1.....	41202	Brine Valve, 1700, Plastic, Top
2.....	1.....	14785-01.....	Retainer, Flow Control
3.....	1.....	14811.....	O-Ring, -210, 560CD, Brine
4.....	1.....	14798	Spacer, 1700, Brine
5.....	1.....	14795	Piston, Brine Valve
6.....	1.....	41203	Stem, Brine, 1710, Plastic, 2900
7.....	1.....	41201.....	Brine Valve, 1700, Plastic, Bottom
8.....	5.....	17908	Sleeve, Brine Valve Stem
9.....	1.....	12550	Quad Ring, -009
10.....	3.....	41547.....	O-Ring, 2mm x 35mm
11.....	2.....	15310.....	Spring, Brine Valve
12.....	2.....	10250	Ring, Retaining
13.....	1.....	17906	Guide, Brine Valve Stem
14.....	2.....	14202-01	Screw, Hex Wsh Mach, 8-32 X 5/16
15.....	2.....	41056	Nut Assembly, 1/2-inch Plastic
18.....	1.....	15414	Nut, 2900, w/Sleeve
19.....	1.....	15415	Fitting, Insert, 1/2-inch , Tube
20.....	1.....	16460	Tube, Brine, 2850, 2900s
		 42183	Tube, Brine, 1700/2850s
		 15416	Tube, Brine, 2900/2750
		 41447*	Tube, Brine, 2900s U/F

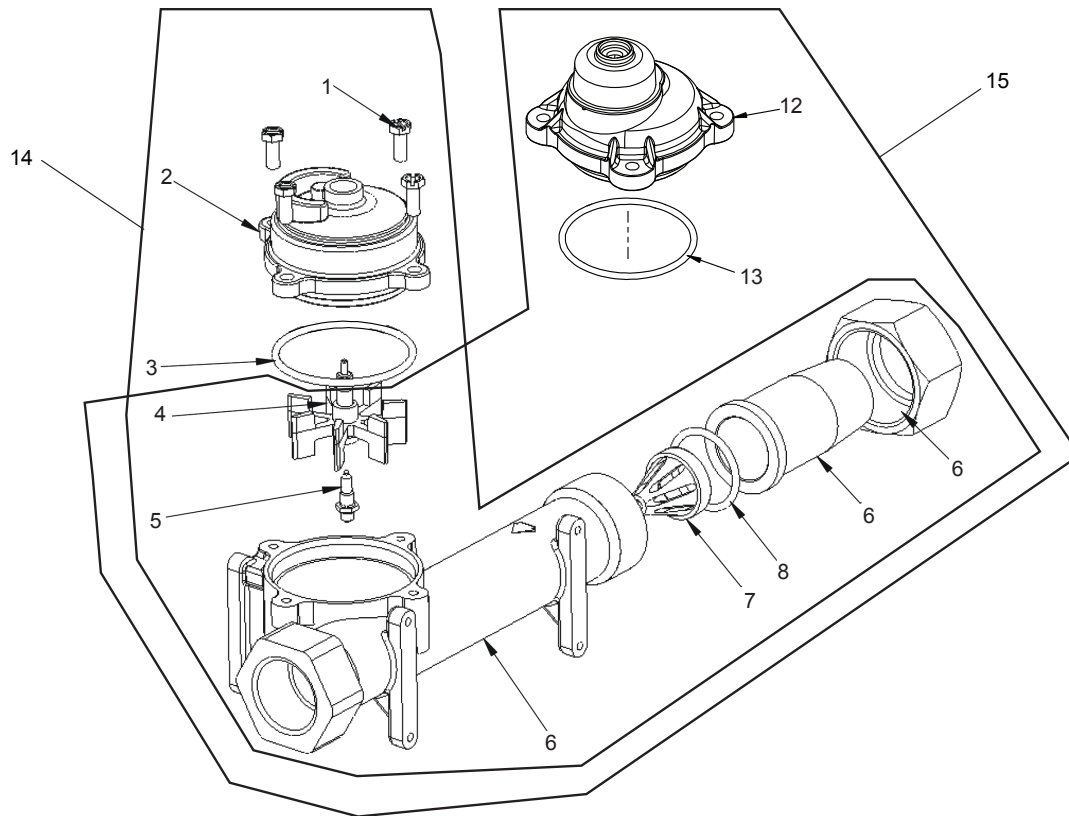
Item No.	QTY.....	Part No.	Description
21	1.....	15413	Fitting, Elbow, Male, 1/2T X 3/8 NPT
22		60605-00.....	Brine Valve, 1710, 2750, Blank
		 60605-10.....	Brine Valve, 1710, 2750, 1.0 gpm
		 60605-12.....	Brine Valve, 1710, 2750, 1.2 gpm
		 60605-15.....	Brine Valve, 1710, 2750, 1.5 gpm
		 60605-20.....	Brine Valve, 1710, 2750, 2.0 gpm
		 60605-24.....	Brine Valve, 1710, 2750, 2.4 gpm
		 60605-30.....	Brine Valve, 1710, 2750, 3.0 gpm
		 60605-40.....	Brine Valve, 1710, 2750, 4.0 gpm
		 60605-50.....	Brine Valve, 1710, 2750, 5.0 gpm

Not Shown

1.....	19151.....	Washer, Flow, 1.0 gpm
1.....	17996	Disperser, Air, Injector
1.....	414193-00.....	Label, Blank, BLFC, 1710

*Upflow only

1-INCH BRASS METER ASSEMBLY



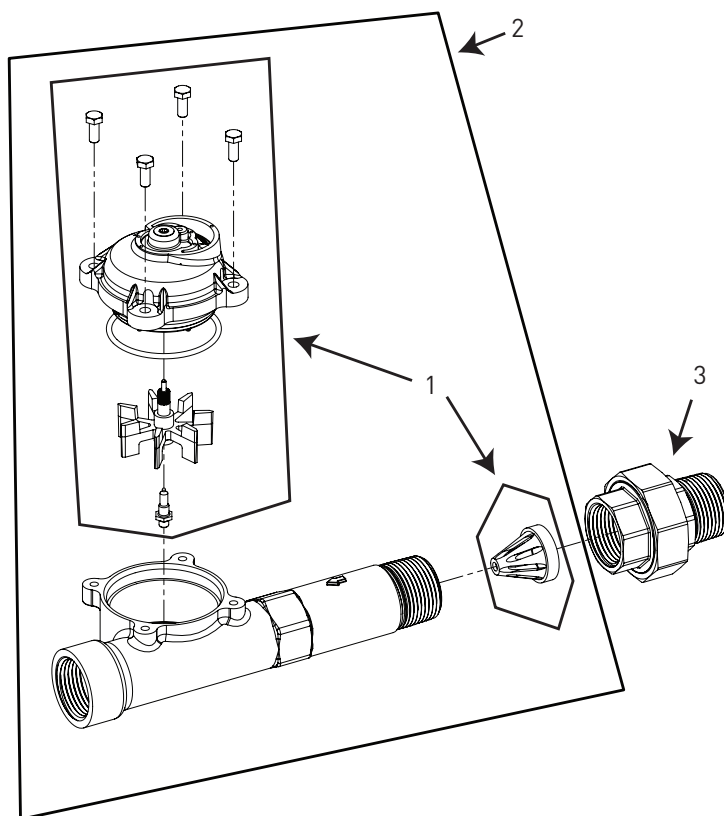
Item No.	QTY	Part No.	Description
1.....	4.....	12112	Screw, Slotted Hex Head, #10 - 24 x .50
2.....	1.....	14038	Cap, Meter, STD Range, Plastic
3.....	1.....	13847	O-ring, -137
4.....	1.....	13509	Impeller, Meter
	1.....	13509-01	Impeller, Celcon, Hot Water
5.....	1.....	13882	Post, Meter Impeller
6.....	1.....	14959	Body, Meter, 27550
	1.....	60628NP	Meter Assy, 1-inch, NP
		14959	Body, Meter, 2750
		14961	Fitting, Nipple, 1-inch, Quick Connect
		14962	Nut, 1-inch Meter, Quick Connect
7.....	1.....	14960	Flow Straightener
8.....	1.....	13287	O-ring, 123
12.....	1.....	15150	Meter Cap Assy, Ext, Range, Plastic
13.....	1.....	13847	O-ring, -137
14.....		60391	Meter Assy, 1-inch, NPT, STD Range, Brass, Paddlewheel
		60391NP	Meter Assy, 1-inch Inline, NPT, STD Nickel Plated, Paddlewheel
		60391HW	Meter Assy, 1-inch Inline, NPT, STD, Brass, Hot Water, Paddlewheel

Item No.	QTY	Part No.	Description
15.....		60392	Meter Assy, 1-inch Inline, NPT EXT Range
		60392NP	Meter Assy, 1-inch Inline, NPT, EXT Brass Body, Nickel Plated, Paddlewheel

Not Shown

1.....	15218	Meter Cap Assy, STD Range, Brass, Hot Water
1.....	15237	Meter Cap Assy, EXT Range, Brass, Hot Water

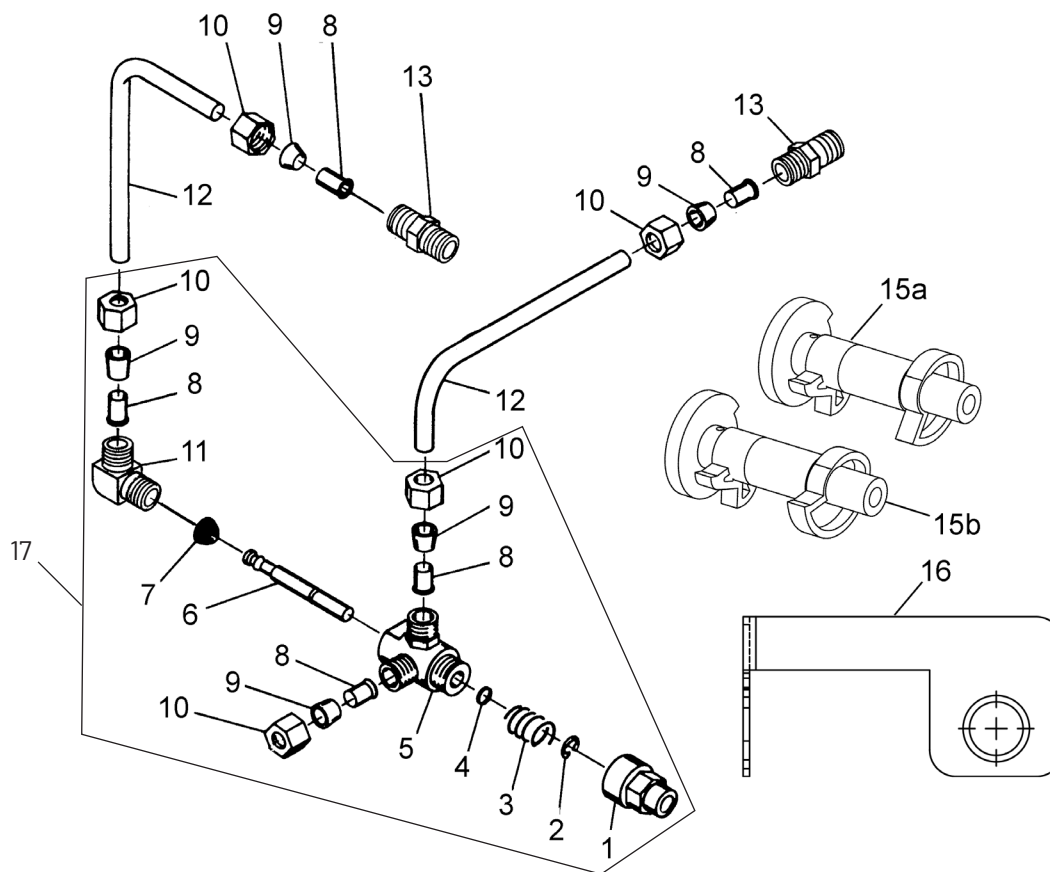
1-INCH STAINLESS STEEL METER ASSEMBLY



⚠ IMPORTANT: For valves equipped with electromechanical timers and stainless steel meters, refer to the Meter Dome and Union Orientation section.

Item No.	QTY	Part No.	Description
1.....	1.....	62049-01.....	Service Kit, 1 inch & 1-1/2 inch Meter, Standard Range
	1.....	62049-02.....	Service Kit, 1 inch & 1-1/2 inch Meter, Extended Range
2.....	1.....	61932-10.....	Meter Assy, 1 inch, Inline, Stainless Steel, NPT, Standard Range
	1.....	61932-11.....	Meter Assy, 1 inch, Inline, Stainless Steel, NPT, Extended Range
	1.....	61932-20.....	Meter Assy, 1 inch, Inline, Stainless Steel, BSP, Standard Range
	1.....	61932-21.....	Meter Assy, 1 inch, Inline, Stainless Steel, BSP, Extended Range
3.....	1.....	44022.....	Union, 1 inch, NPT (Optional on models with electronic controls)
	1.....	44023.....	Union, 1 inch, BSP (Optional on models with electronic controls)

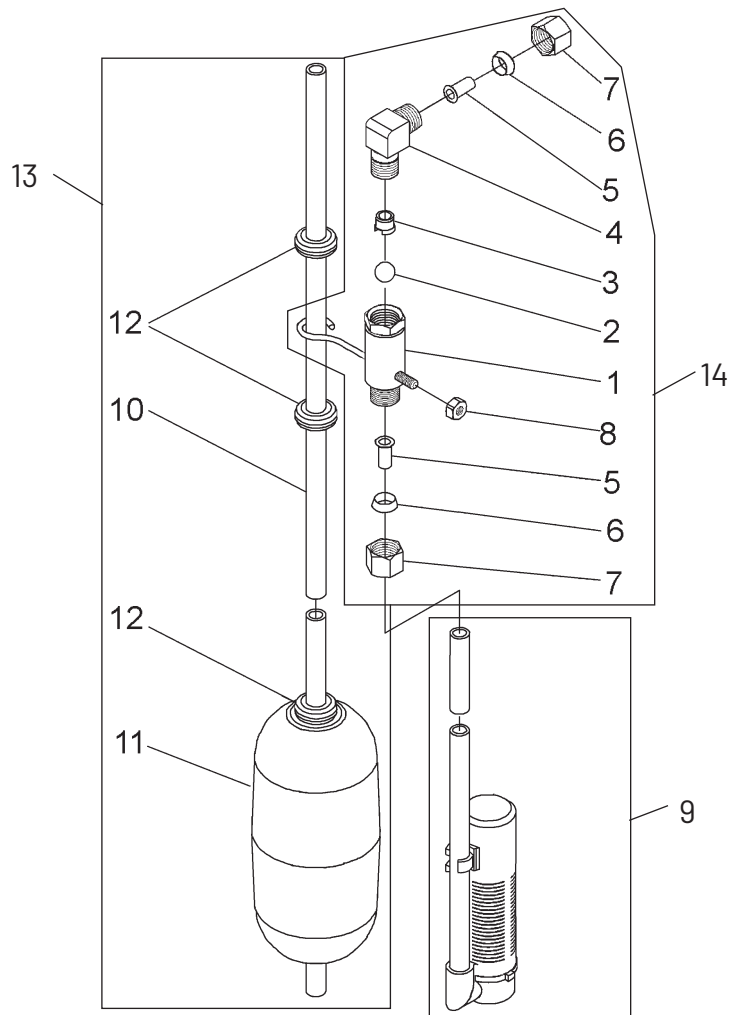
1600 SERVICE VALVE OPERATOR (NEW STYLE)



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-inch 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-inch 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

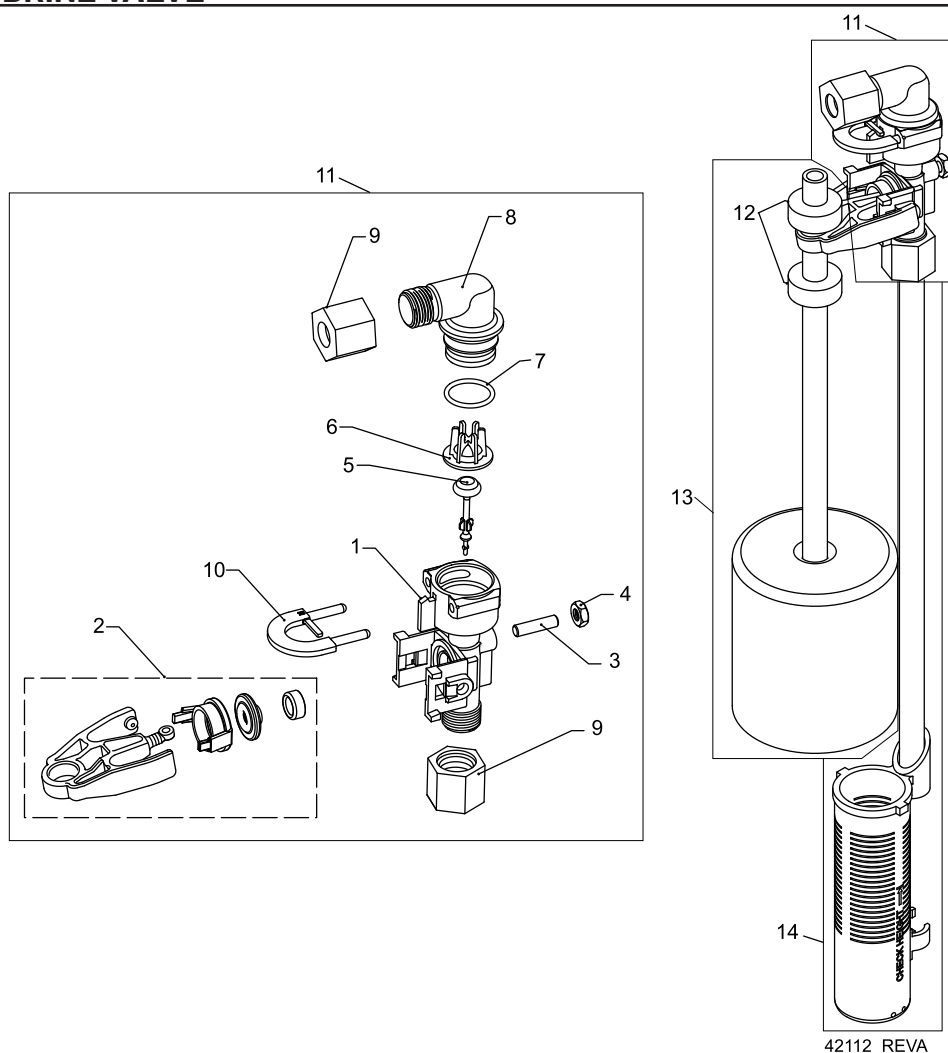
2300 SAFETY BRINE VALVE



60027 Rev D

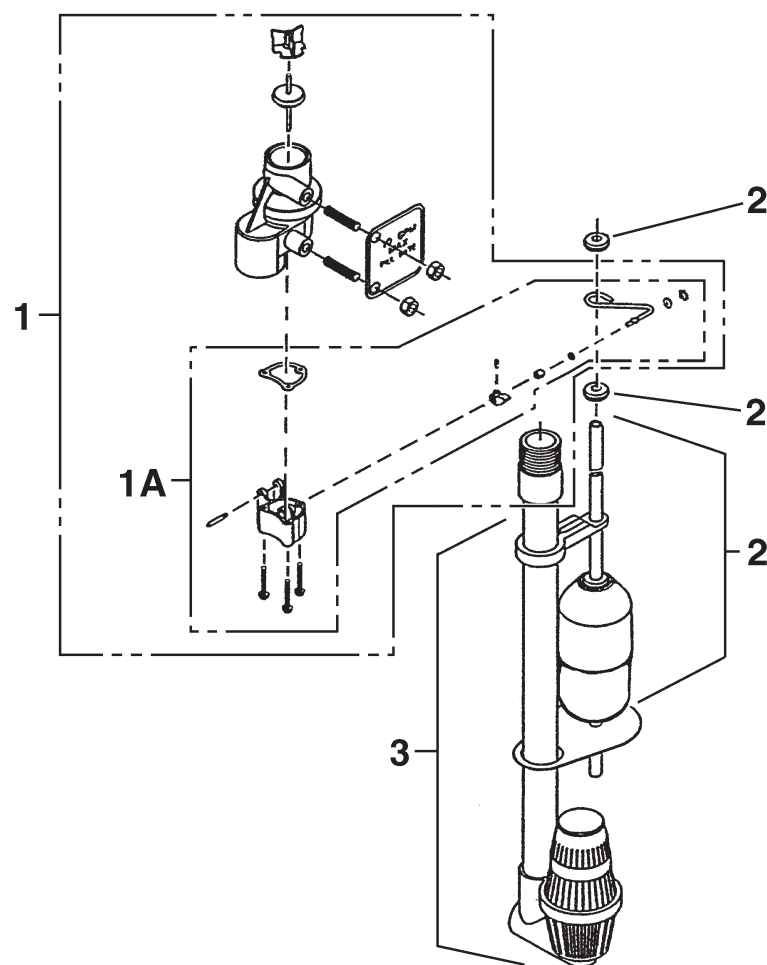
Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1.....	1.....	60027-00.....	Safety Brine Valve, 2300, Less Elbow	.....	60002-36.....		Air Check, #500, 36 inches Long
2.....	1.....	10138.....	Ball, 3/8-inch , Brass	.....	60002-48.....		Air Check, #500, 48 inches Long
3.....	1.....	11566.....	Ball Stop, Slow Fill	.....	60002-26.25...		Air Check, #500, 26.25 inches Long
4.....	1.....	10328.....	Fitting, Elbow, 90 Deg. 1/4 NPT x 3/8 Tube	.....	60002-33.25...		Air Check, #500, 33.25 inches Long
5.....	1.....	10332.....	Fitting, Insert, 3/8				
6.....	1.....	10330.....	Fitting, Sleeve, 3/8 Celcon	10.....	1.....	10149.....	Rod, Float, 30-inch
7.....	1.....	10329.....	Fitting, Tube, 3/8 Nut, Brass	11.....	1.....	10700.....	Float Assy, White
8.....	1.....	10186.....	Nut, Hex, 10-32	12.....	3.....	10150.....	Grommet, .30 Dia
9.....	1.....	60002-10.....	Air Check, #500, American Hydro	13.....	1.....	60028-30.....	Float Assy, 2300, 30-inch White
		60002-11.38....	Air Check, #500, 11.38 inches Long	14.....	1.....	60027-FFA.....	Safety Brine Valve, 2300, Fitting Facing Arm
		60002-24.....	Air Check, #500, 24 inches Long		1.....	60027-FFS.....	Safety Brine Valve, 2300 Fitting Facing Stud
		60002-27.....	Air Check, #500, 27 inches Long				
		60002-32.....	Air Check, #500, 32 inches Long				
		60002-34.....	Air Check, #500, 34 inches Long				

2310 SAFETY BRINE VALVE



Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1.....	1.....	19645	Body, Safety Brine Valve, 2310	.....	60068-30	Float Assy, 2310, w/30-inch Rod	
2	1.....	19803	Safety Brine Valve Assy	14.....	1.....	60002-10	Air Check, #500, American Hydro
3	1.....	19804	Screw, Sckt Hd, Set, 10-24 x .75		.....	60002-11.38	Air Check, #500, 11.38 inches Long
4	1.....	19805	Nut, Hex, 10-24, Nylon Black		.....	60002-24.....	Air Check, #500, 24 inches Long
5	1.....	19652-01.....	Poppet Assy, SBV w/O-ring		.....	60002-27	Air Check, #500, 27 inches Long
6	1.....	19649	Flow Dispenser		.....	60002-32.....	Air Check, #500, 32 inches Long
7	1.....	11183.....	O-ring, -017		.....	60002-34.....	Air Check, #500, 34 inches Long
8	1.....	19647	Elbow, Safety Brine Valve		.....	60002-36.....	Air Check, #500, 36 inches Long
9	2.....	19625	Nut Assy, 3/8-inch Plastic		.....	60002-48.....	Air Check, #500, 48 inches Long
10.....	1.....	18312	Retainer, Drain		.....	60002-26.25 ...	Air Check, #500, 26.25 inches Long
11.....	1.....	60014	Safety Brine Valve Assy, 2310		.....	60002-33.25 ...	Air Check, #500, 33.25 inches Long
12.....	2.....	10150.....	Grommet, .30 Dia				
13.....	1.....	60068-8.06	Float Assy, 2310, w/8.06-inch Rod				
		 60068-10.5.....	Float Assy, 2310, w/10.5-inch Rod				
		 60068-11.5.....	Float Assy, 2310, w/11.5-inch Rod				
		 60068-20	Float Assy, 2310, w/20-inch Rod				

2350 SAFETY BRINE VALVE ASSEMBLY



42303 REV A

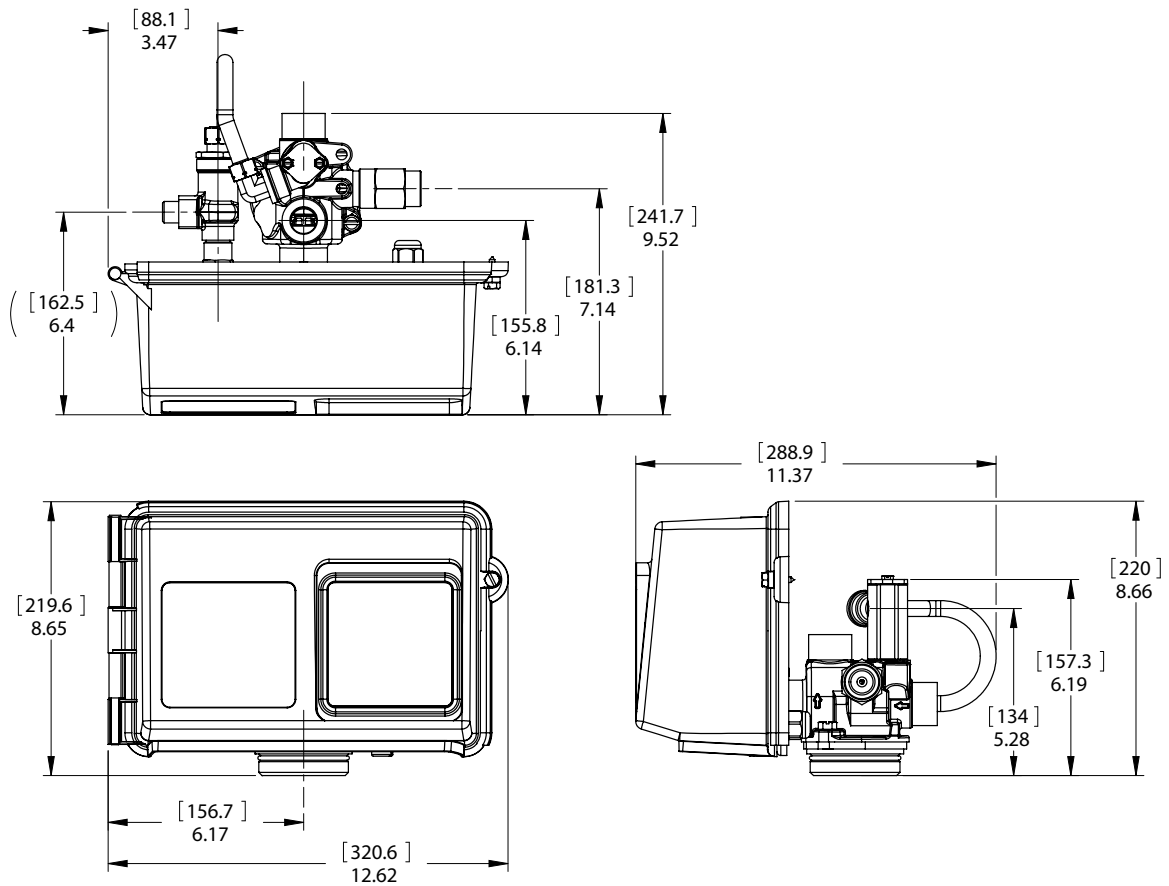
Item No.	QTY	Part No.	Description
1.....	1.....	60038	Safety Brine Valve, 2350
1A.....	1.....	61024	Actuator Assembly, 2350 Brine
2	1.....	60028-30	Float Assembly, 2350, 30-inch Wht
		 60026-30SAN.	Float Assembly, 2350, 30-inch , HW
3	1.....	60009-00.....	Air Check, #900, Commercial Less Fittings
		 60009-01.....	Air Check, #900, Commercial, HW Less Fittings

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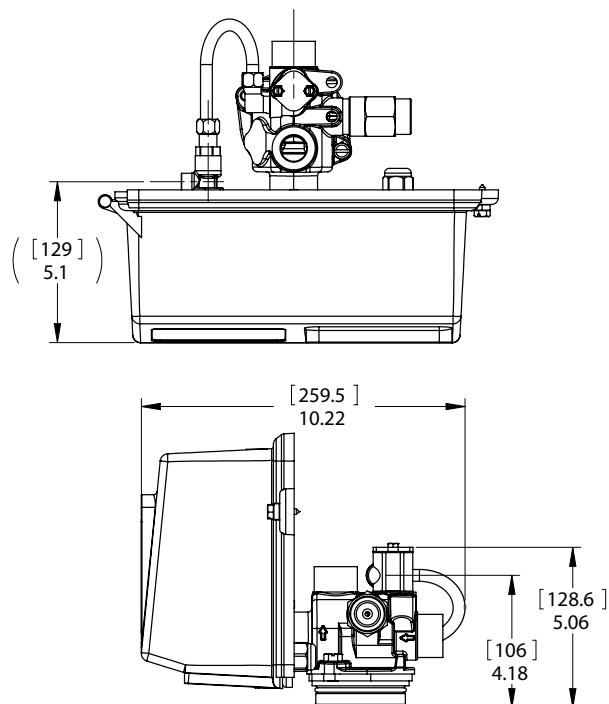
- 1..... 18603 Fitting Assembly, 900 Air
Check 2350
- 1..... 18602 Fitting Assembly, 900 Air
Check

2750 CONTROL VALVE DIMENSIONS

2750 MODEL WITH 1700 BRINE SYSTEM



2750 MODEL WITH 1600 BRINE SYSTEM



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.

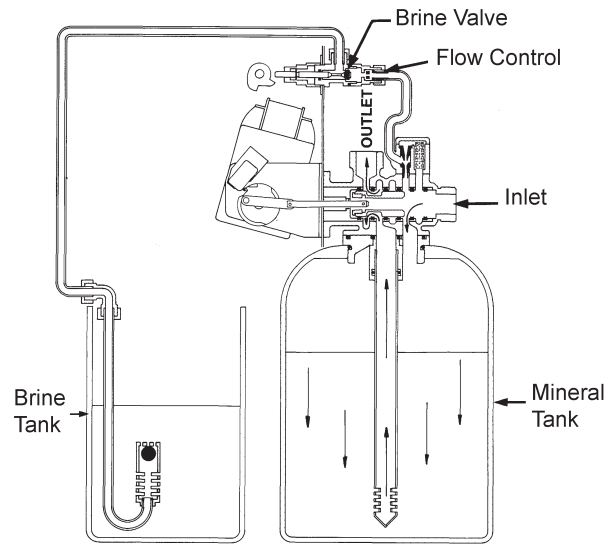
Correction: Pull cable out of meter cover and rotate manually. Program wheel must move without binding and clutch must give positive clicks when program wheel strikes regeneration stop. If it does not, replace timer.

Reason: Meter is not measuring flow.

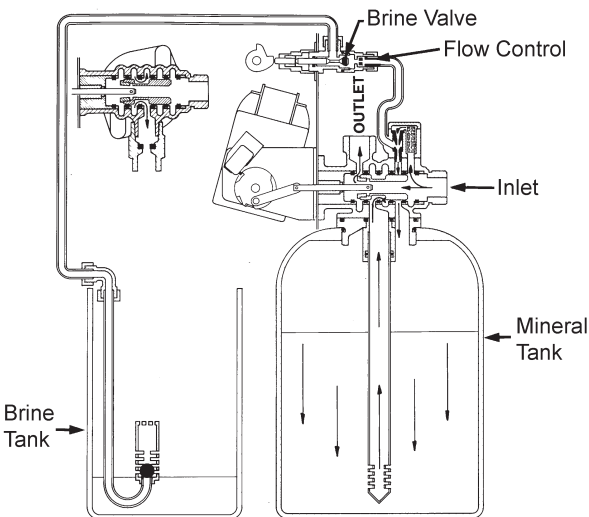
Correction: Check meter with meter checker.

WATER CONDITIONER FLOW DIAGRAMS

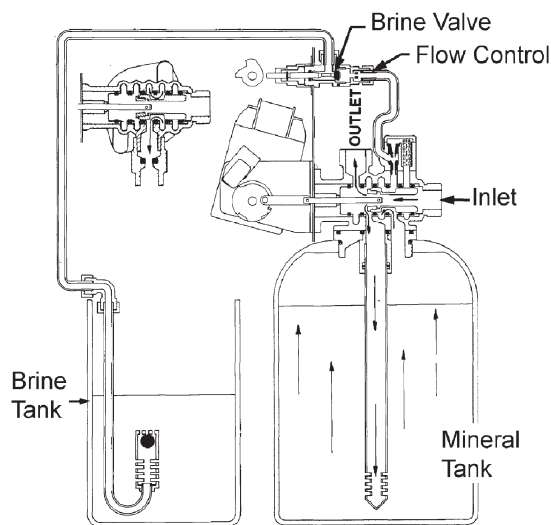
1 Service Position



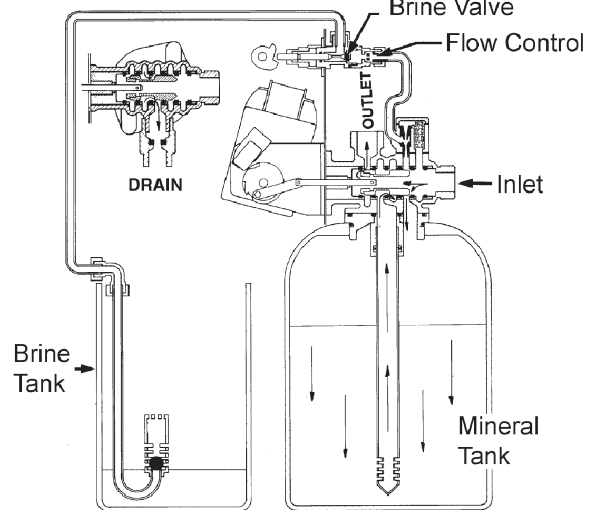
4 Slow Rinse Position



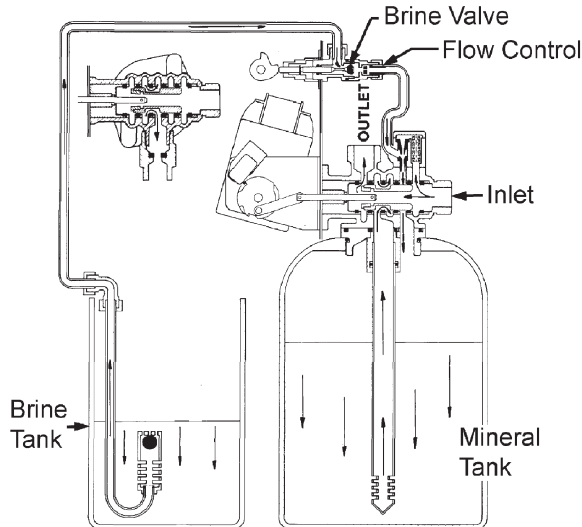
2 Backwash Position



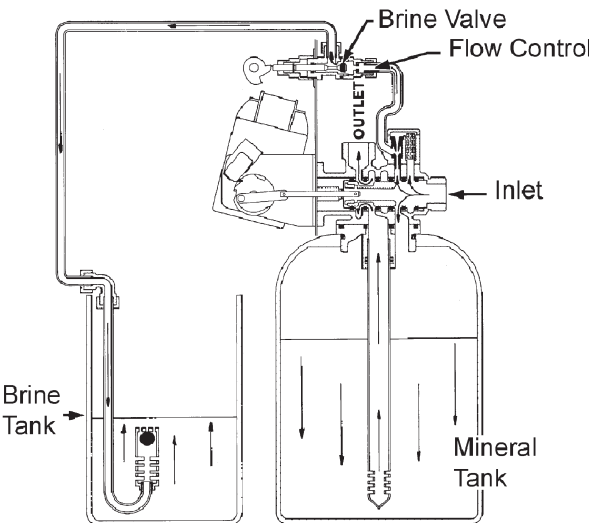
5 Rapid Rinse Position



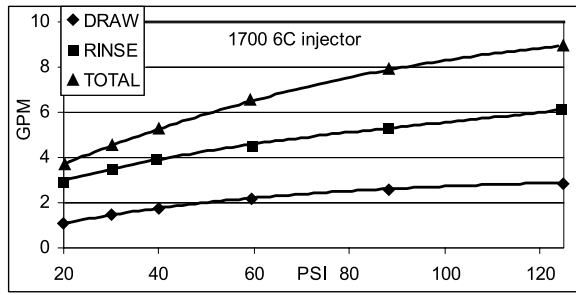
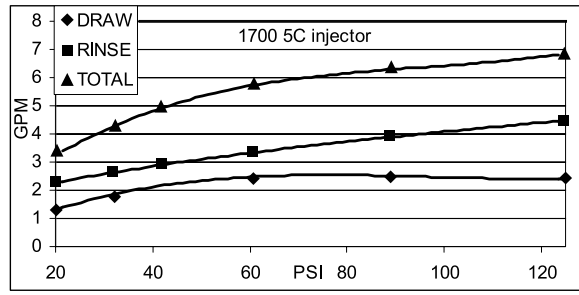
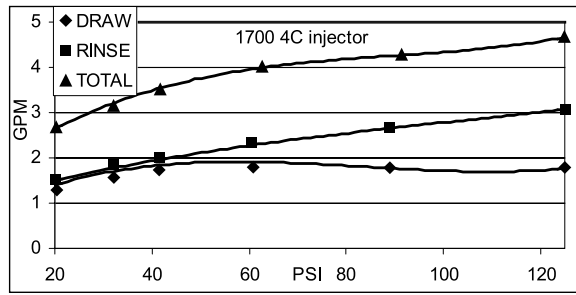
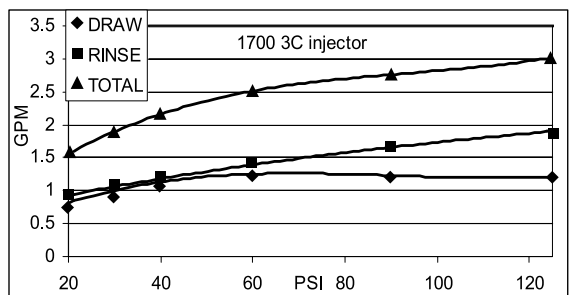
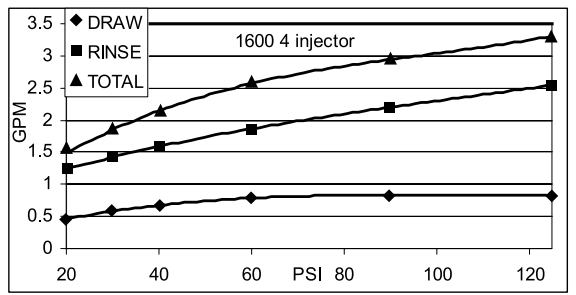
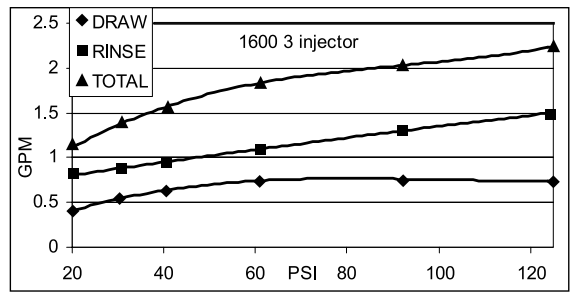
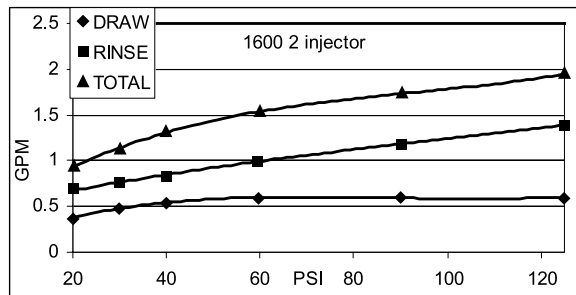
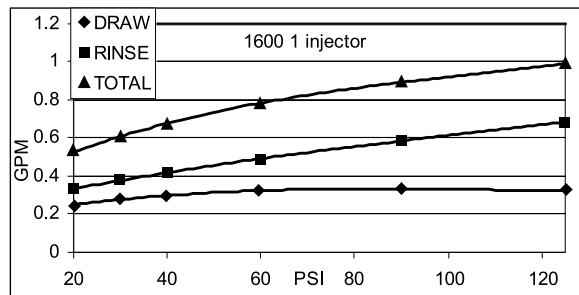
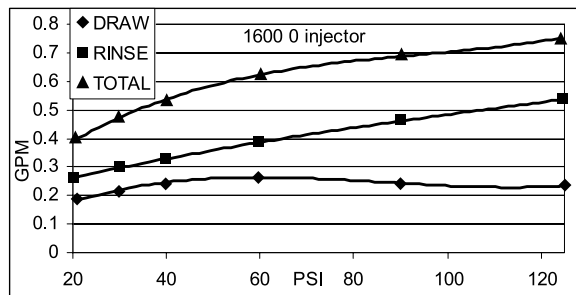
3 Brine Position



6 Brine Tank Fill Position



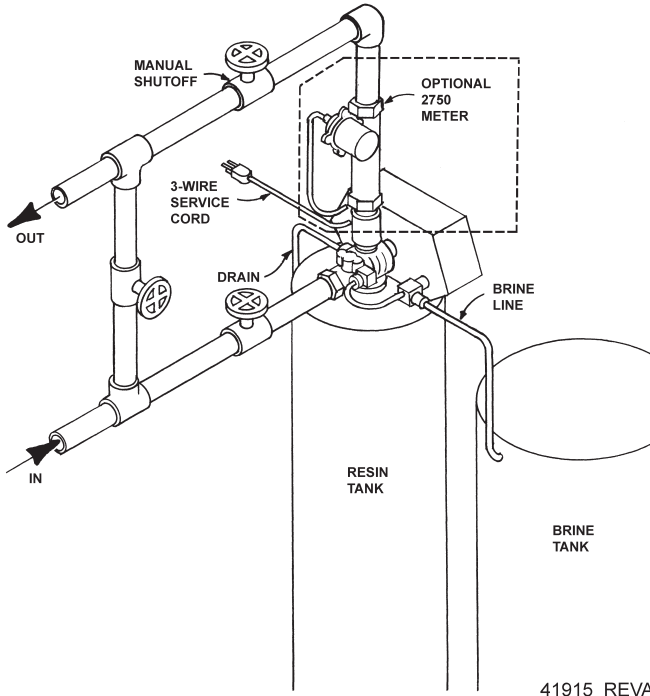
FLOW DATA & INJECTOR DRAW RATES



TR20391_REVA

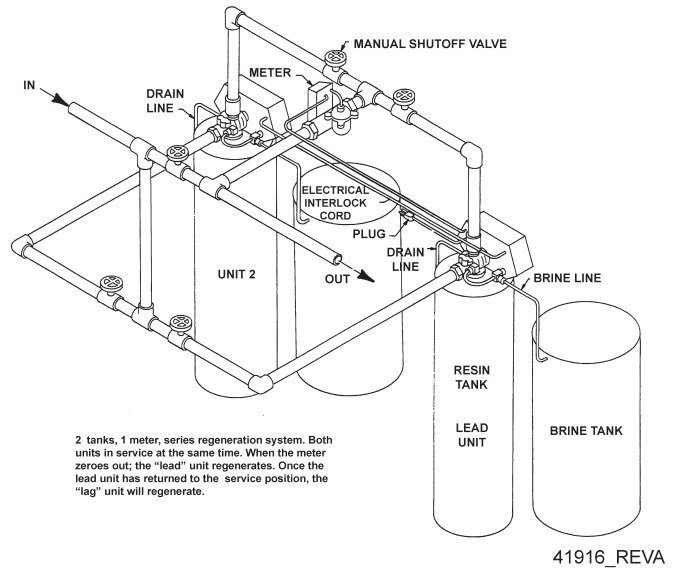
SYSTEM #4

Typical Tank Installation with Optional Meter



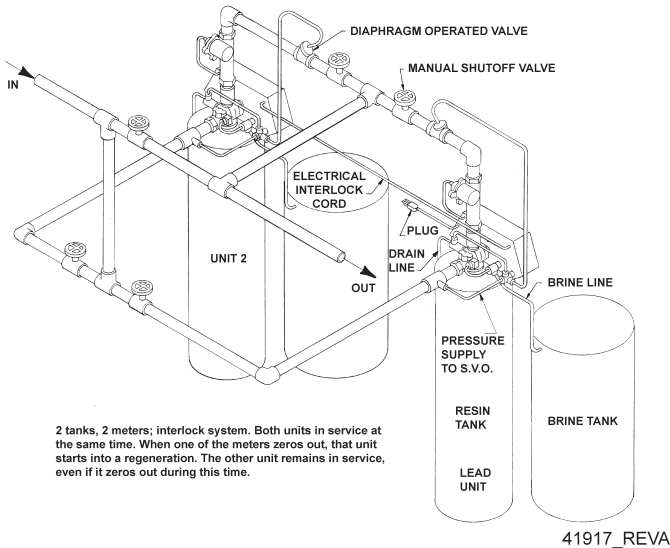
SYSTEM #6

Twin Series Regeneration Installation with a Remote Meter



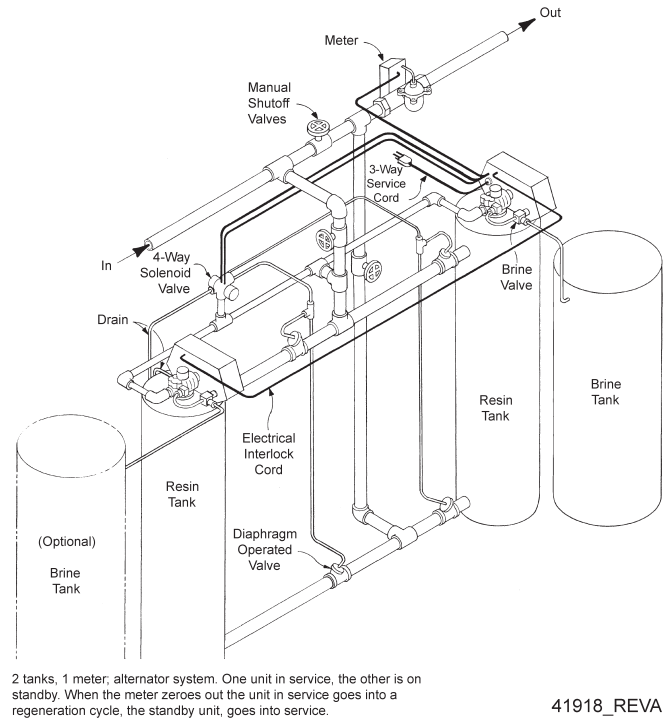
SYSTEM #5 INTERLOCK

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

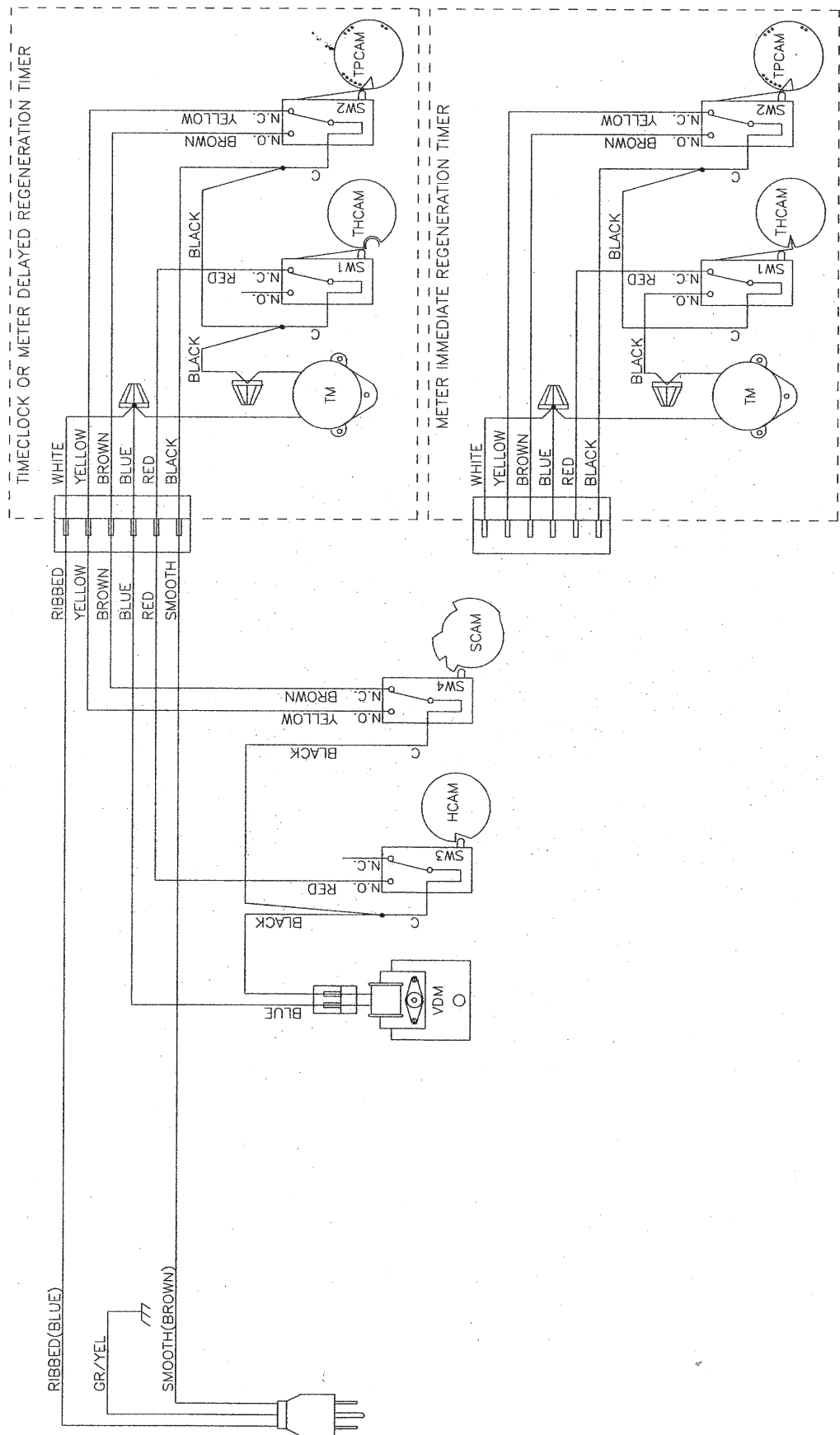


SYSTEM #7

Twin Alternator Installation with a Remote Meter

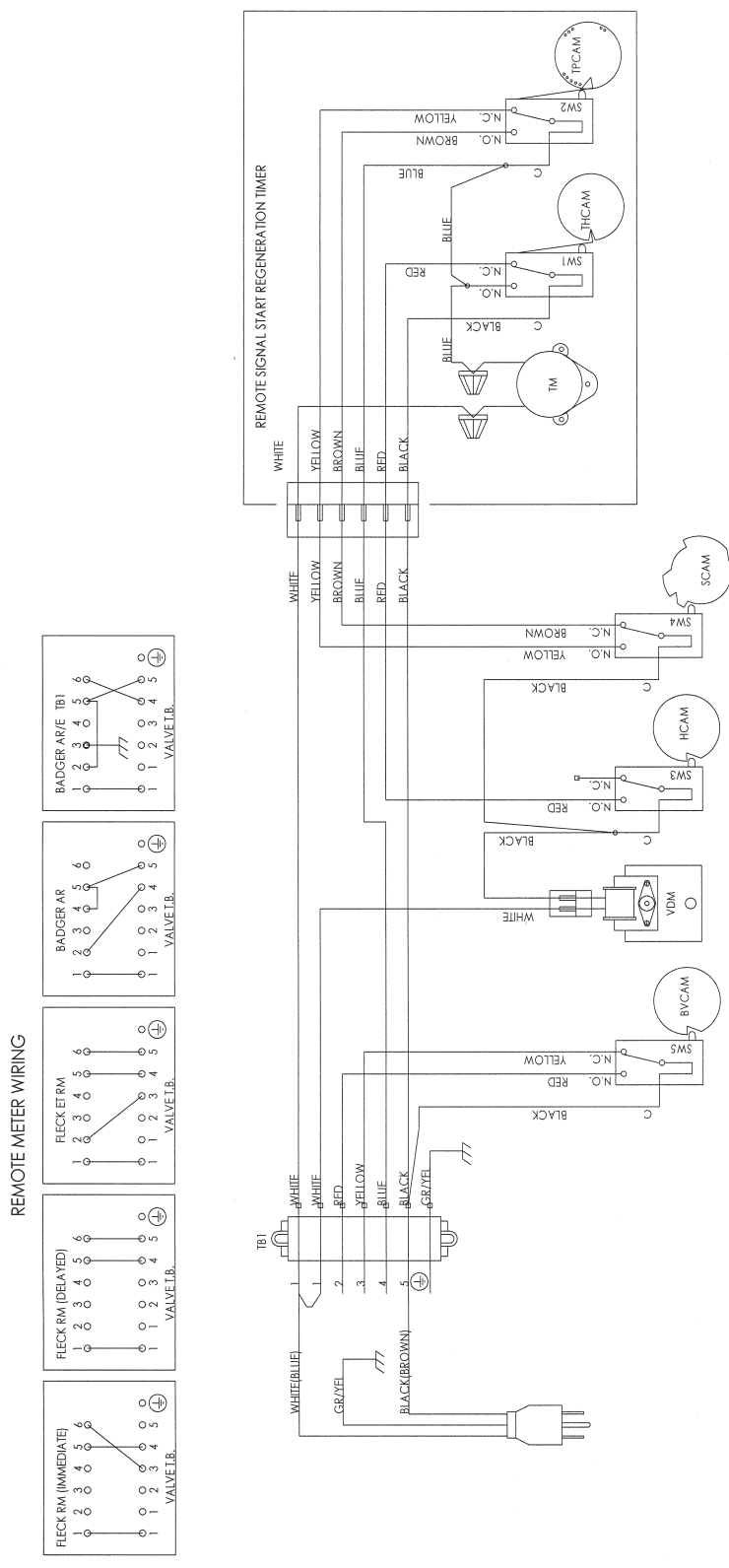


SYSTEM #4 IMMEDIATE & DELAYED VALVE WIRING



19201 Rev C

SYSTEM #4 REMOTE SIGNAL START VALVE WIRING



TB1 - 7 POSITION TERMINAL BLOCK
 TM - TIMER MOTOR
 VDM - VALVE DRIVE MOTOR
 SW1 - TIMER HOMING SWITCH
 SW2 - TIMER PROGRAM SWITCH
 SW3 - VALVE HOMING SWITCH
 SW4 - VALVE STEP SWITCH
 SW5 - BRINE CAM SWITCH
 THCAM - TIMER HOMING CAM
 TPCAM - TIMER PROGRAM CAM
 HCAM - VALVE HOMING CAM
 SCAM - VALVE STEP CAM
 BYCAM - BRINE VALVE CAM

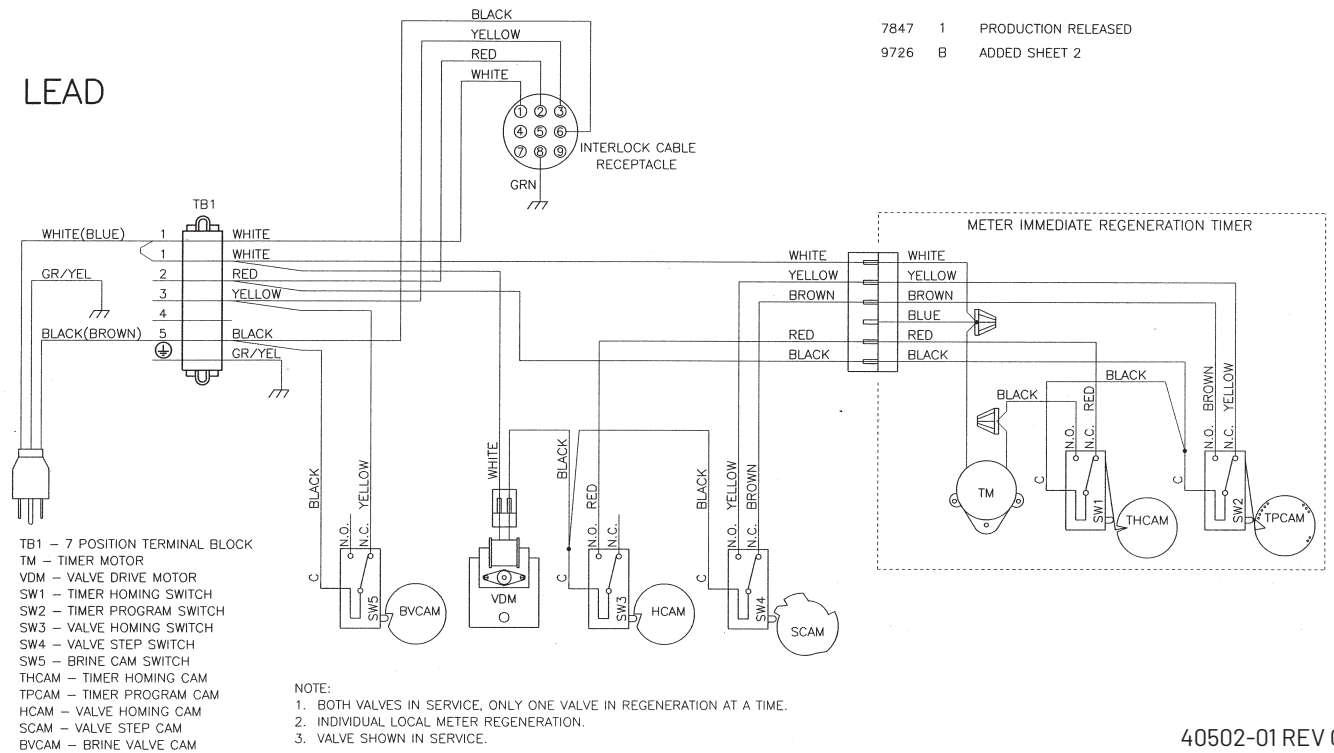
NOTE:

1. SINGLE TANK REMOTE METER INITIATED DELAYED, OR IMMEDIATE REGENERATION.
2. WITH 24V VALVES THE POWER CORD IS REPLACED WITH BLUE AND WHITE WIRES (WIRE BLUE TO TB1 #5, WHITE TO TB1 #1).
3. VALVE SHOWN IN SERVICE POSITION.

SYSTEM #5 DUPLEX VALVE WIRING

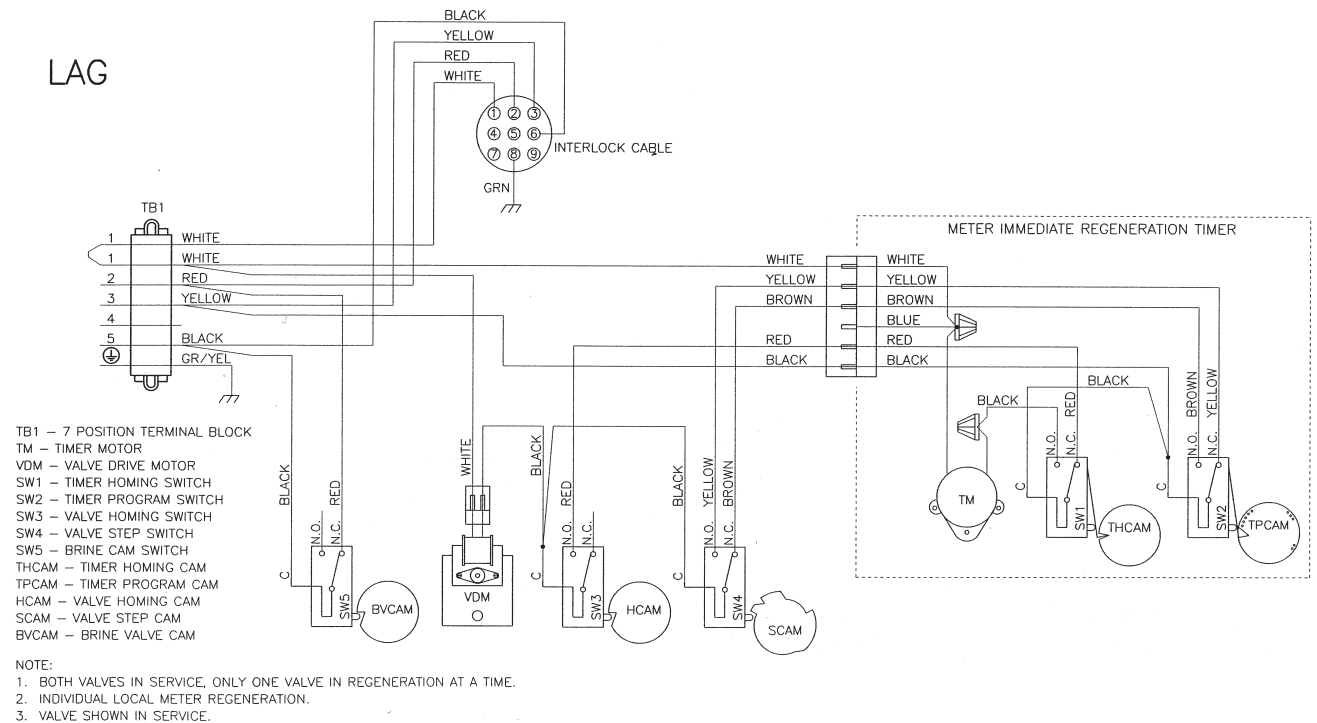
7847	1	PRODUCTION RELEASED
9726	B	ADDED SHEET 2

LEAD



40502-01 REV C

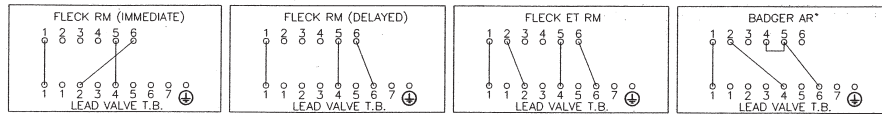
LAG



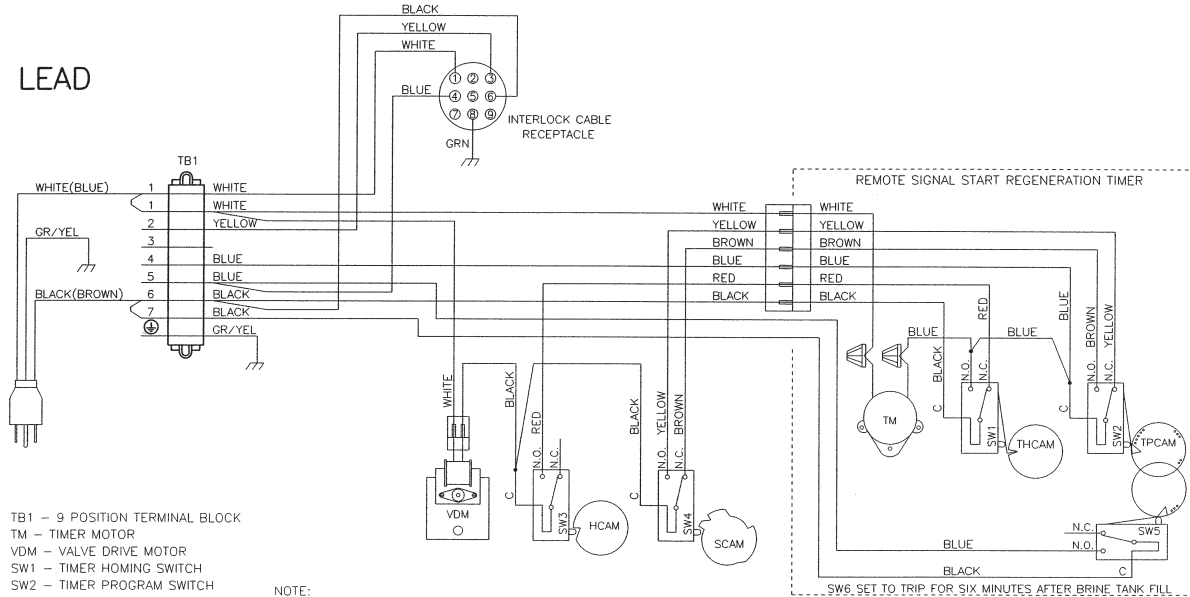
40502-02 REV C

SYSTEM #6 DUPLEX VALVE WIRING

REMOTE METER WIRING



LEAD



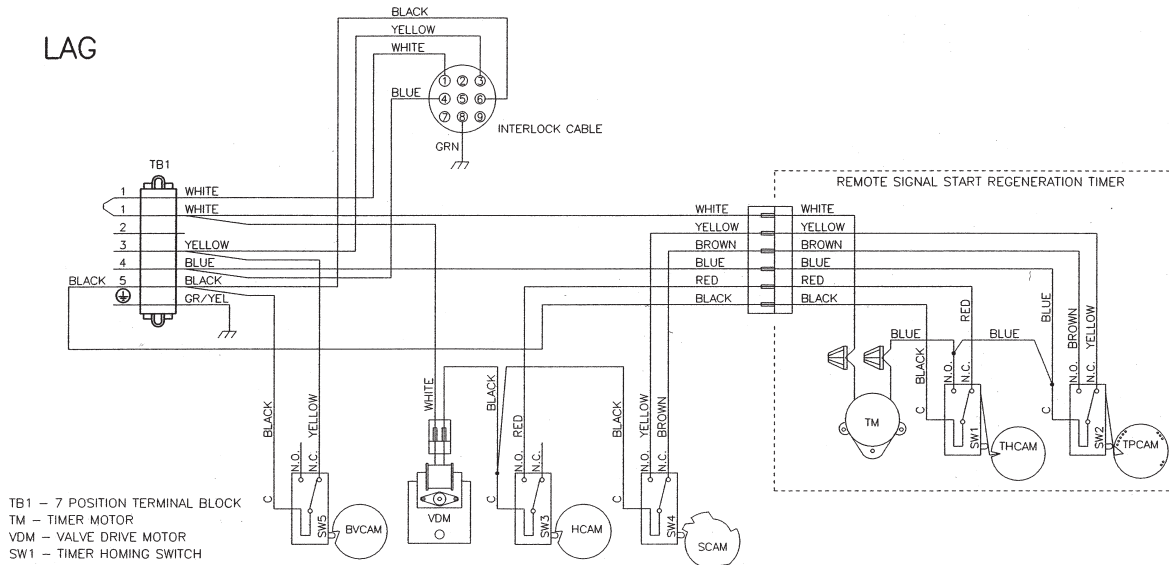
TB1 - 9 POSITION TERMINAL BLOCK
 TM - TIMER MOTOR
 VDM - VALVE DRIVE MOTOR
 SW1 - TIMER HOMING SWITCH
 SW2 - TIMER PROGRAM SWITCH
 SW3 - VALVE HOMING SWITCH
 SW4 - VALVE STEP SWITCH
 SW5 - AUXILIARY TIMER SWITCH
 THCAM - TIMER HOMING CAM
 TPCAM - TIMER PROGRAM CAM
 SCAM - VALVE STEP CAM

NOTE:

1. TWO TANK INTERLOCKED, SINGLE REMOTE METER, SERIES REGENERATION.
2. BOTH TANKS NORMALLY IN SERVICE.
3. ONLY ONE TANK IN REGENERATION, THE OTHER REMAINS IN SERVICE.
4. LEAD VALVE REGENERATES FIRST, FOLLOWED IMMEDIATELY BY LAG VALVE.
5. 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.

13632-01 REV L

LAG



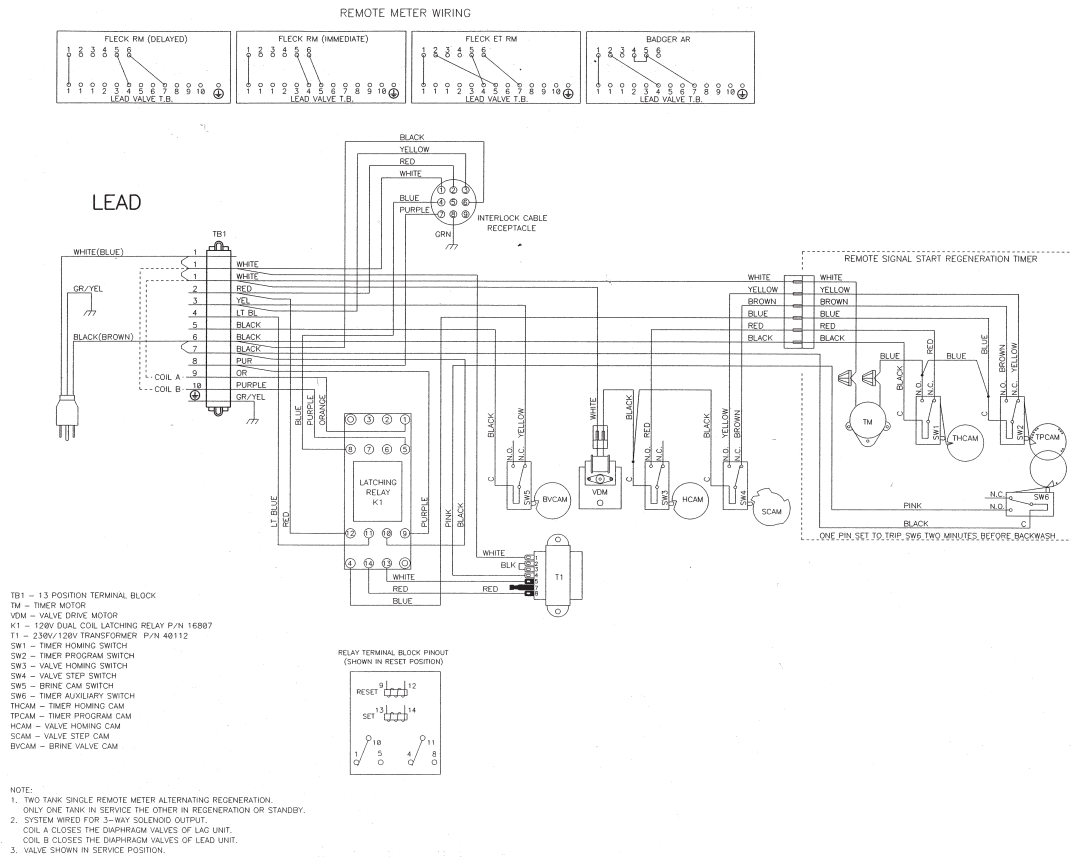
TB1 - 7 POSITION TERMINAL BLOCK
 TM - TIMER MOTOR
 VDM - VALVE DRIVE MOTOR
 SW1 - TIMER HOMING SWITCH
 SW2 - TIMER PROGRAM SWITCH
 SW3 - VALVE HOMING SWITCH
 SW4 - VALVE STEP SWITCH
 SW5 - BRINE CAM SWITCH
 THCAM - TIMER HOMING CAM
 TPCAM - TIMER PROGRAM CAM
 SCAM - VALVE STEP CAM
 BVCAM - BRINE VALVE CAM

NOTE:

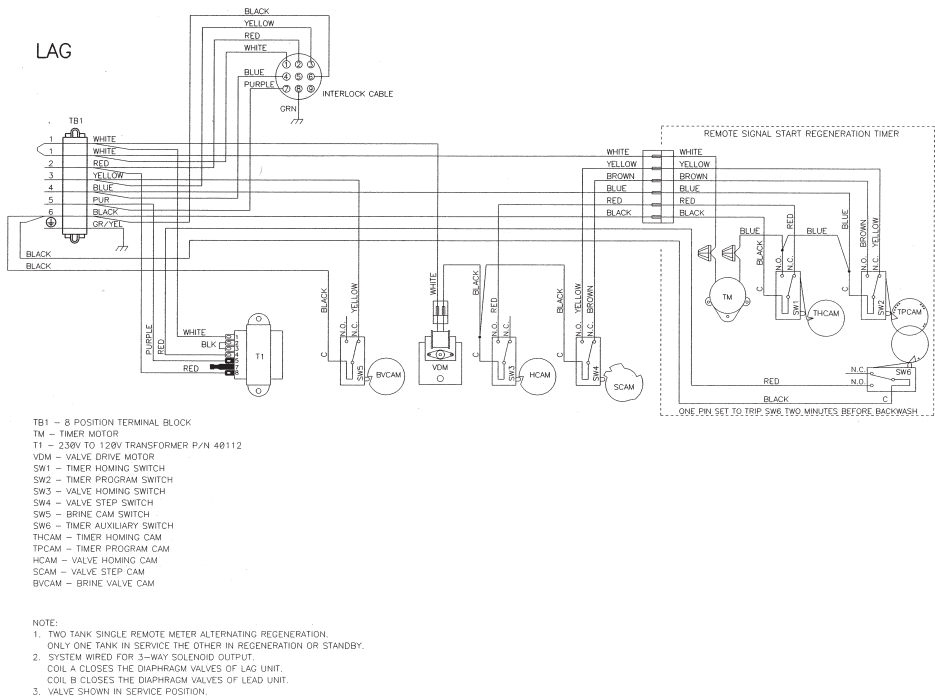
1. TWO TANK INTERLOCKED, SINGLE REMOTE METER, SERIES REGENERATION.
2. BOTH TANKS NORMALLY IN SERVICE.
3. ONLY ONE TANK IN REGENERATION, THE OTHER REMAINS IN SERVICE.
4. LEAD VALVE REGENERATES FIRST, FOLLOWED IMMEDIATELY BY LAG VALVE.
5. WITH 24V VALVES, THE POWER CORD IS REPLACED WITH BLUE AND WHITE WIRES (WIRE BLUE TO TB1 #6, WHITE TO TB1 #1).
6. VALVE SHOWN IN SERVICE POSITION.

13632-02 REV L

SYSTEM #7 DUPLEX 230V 3-WAY VALVE WIRING



17727-01 REV E



17727-02 REV E

SERVICE ASSEMBLIES

24 Hour Gear Assembly:

19205	Gear Assy, 24 Hour, Silver, 5600, 12AM
60519-02	Gear Assy, 24 Hour, 2 Times a Day Regen
60519-03	Gear Assy, 24 Hour, 3 Times a Day Regen
60519-04	Gear Assy, 24 Hour, 4 Times a Day Regen
60519-06	Gear Assy, 24 Hour, 6 Times a Day Regen

Air Checks

60002-34	Air Check, #500, 34 inch Long
60003-34	Air Check, #500, HW, 34-inch Tube
60009-00	Air Check, #900, Commercial, Less Fittings
60009-01	Air Check, #900, Commercial, HW Less Fittings

Brine Line Flow (BLFC):

60010-25	BLFC, 1650, .25 gpm
60010-50	BLFC, 1650, .50 gpm
60010-100	BLFC, 1650, 1.00 gpm
60020-25	BLFC, 1600, .25 gpm
60020-50	BLFC, 1600, .50 gpm
60010-100	BLFC, 1600, 1.00 gpm

Brine Valves:

60011-xx	1650 Brine Valve
60029-xx	1600 Brine Valve
60034-xx	1700 Brine Valve
60604-xx	1710 Brine Valve
-xx is for flow button size	

Cam Assemblies:

60160-15	Drive Cam Assy, Std, Blue
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Drain Line Flow Controls:

60365-xx	Brass DLFC 3/4-inch NPT
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Drive Assemblies:

60050-21	Drive Assy, 2750, STF, 120V Softener
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Injector Assemblies:

60480-xx	1600 Injector Assembly
60485-xx	1600 Injector Assembly
60381-xx	1700 Injector Assembly
60486-xx	1700 Injector Assembly
-xx is for the size injector used	

Meters:

60391	2750 Meter Assy, Std, Plastic Cap, 1-inch
60392	2750 Meter Assy, Ext, Plastic Cap, 1-inch

Covers:

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

Piston, Seal, and Spacer Kits:

61670-01	Piston Kit, 2750/2750
61670-02	Piston Kit, 2510, 2750, NHWBP
62044	Piston Kit, 2750 Hot Water
61671-02	NHWBP Conversion Kit, 2510

Auxiliary Switch Kit:

60320-12	Switch Kit, 1500 through 2850
60320-02	Switch Kit, 3200/9000 Timer

Program Wheel Assemblies:

60405-20	Program Wheel, w/3/4-inch Ext Label 1-1/2 inch Std
60405-30	Program Wheel, w/1-inch Std
60405-40	Program Wheel, w/1-inch Ext
60405-70	Program Wheel, w/1-1/2 inch EXT

Safety Brine Valves

60014	Safety Brine Valve Assy, 2310
60038	Safety Brine Valve, 2350
60027-FFA	Safety Brine Valve Body, 2300 Fitting Facing Arm
60027-FFS	Safety Brine Valve Body Fitting Facing Stud
60026-30	Float Assy, 2350, 30-inch Red/Wht
60026-30SAN	60026-30SAN Float Assy, 2350, 30-inch HW
60028-30	Float Assy, 2300, 30-inch , Blue/White
60068-30	Float Assy, 2310, w/30-inch Rod

Sales & Service Aids:

40737	Literature, Spec Sheet
42327	Literature, 2750 D/F
40717	Literature, Catalog Assy, PWT
.....	Residential/Commercial

Skipper Wheel Assemblies:

14860	Skipper Wheel Assy, 7 Day
14381	Skipper Wheel Assy, 12 Day

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