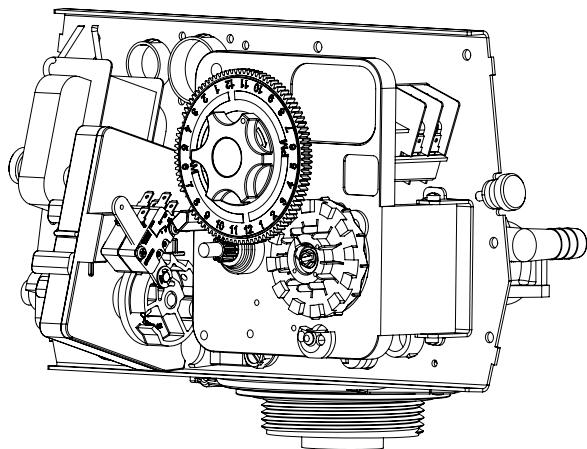




# FLECK® 2510 SERVICE MANUAL



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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 4.

## 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.

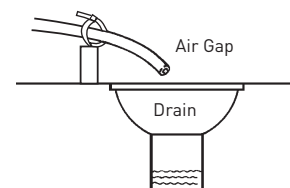
The cover should only be removed during installation set-up and maintenance by a qualified service person.

### 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.

**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 *CONTINUED*

### 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. 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.
7. 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.
8. Make sure that the floor is clean beneath the salt storage tank and that it is level.
9. 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.
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.**

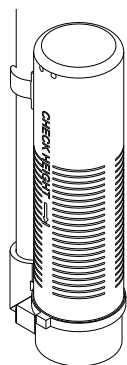


Figure 1 Residential Air Check Valve

## 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.

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

### 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.

## SYSTEM DISINFECTION *CONTINUED*

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.

### 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.

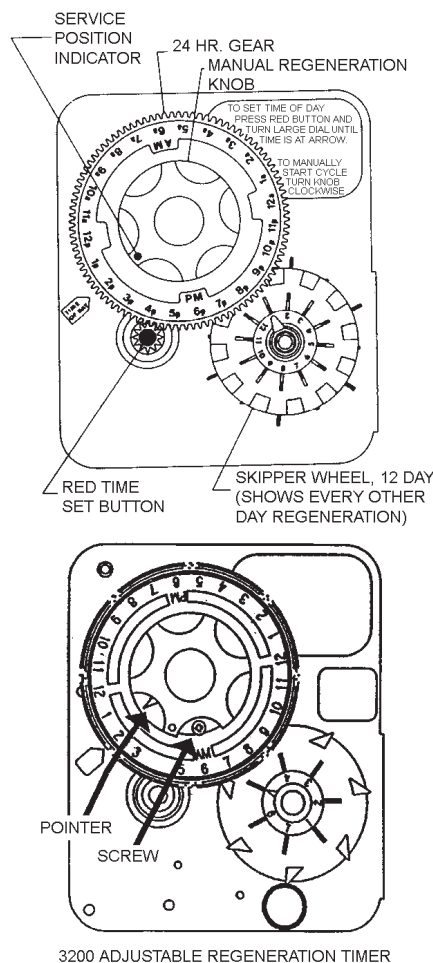
### How To Manually Regenerate Your Water Conditioner At Any Time

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 & 3220 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

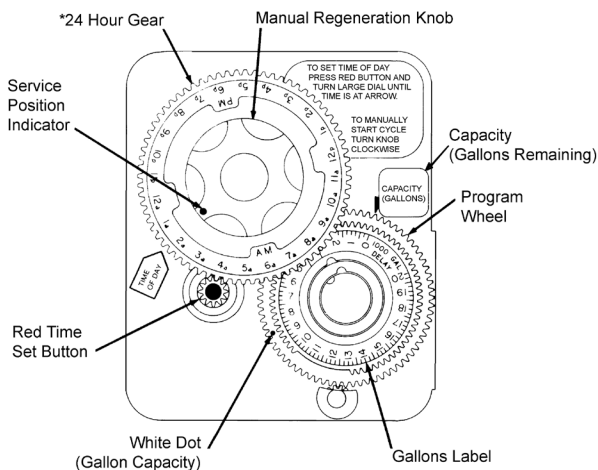
1. Turn the manual regeneration knob clockwise.
2. This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.
3. The black center knob will make one revolution in the following approximately three hours and stop in the position shown in the drawing.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

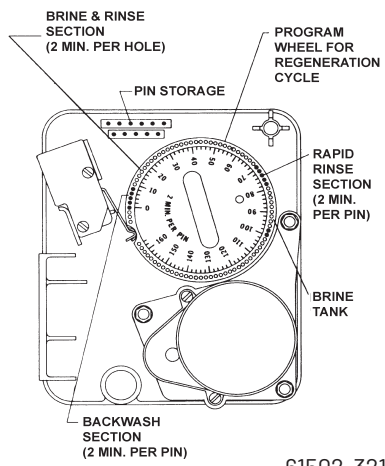
#### How To Change The Length Of Rapid Rinse

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.

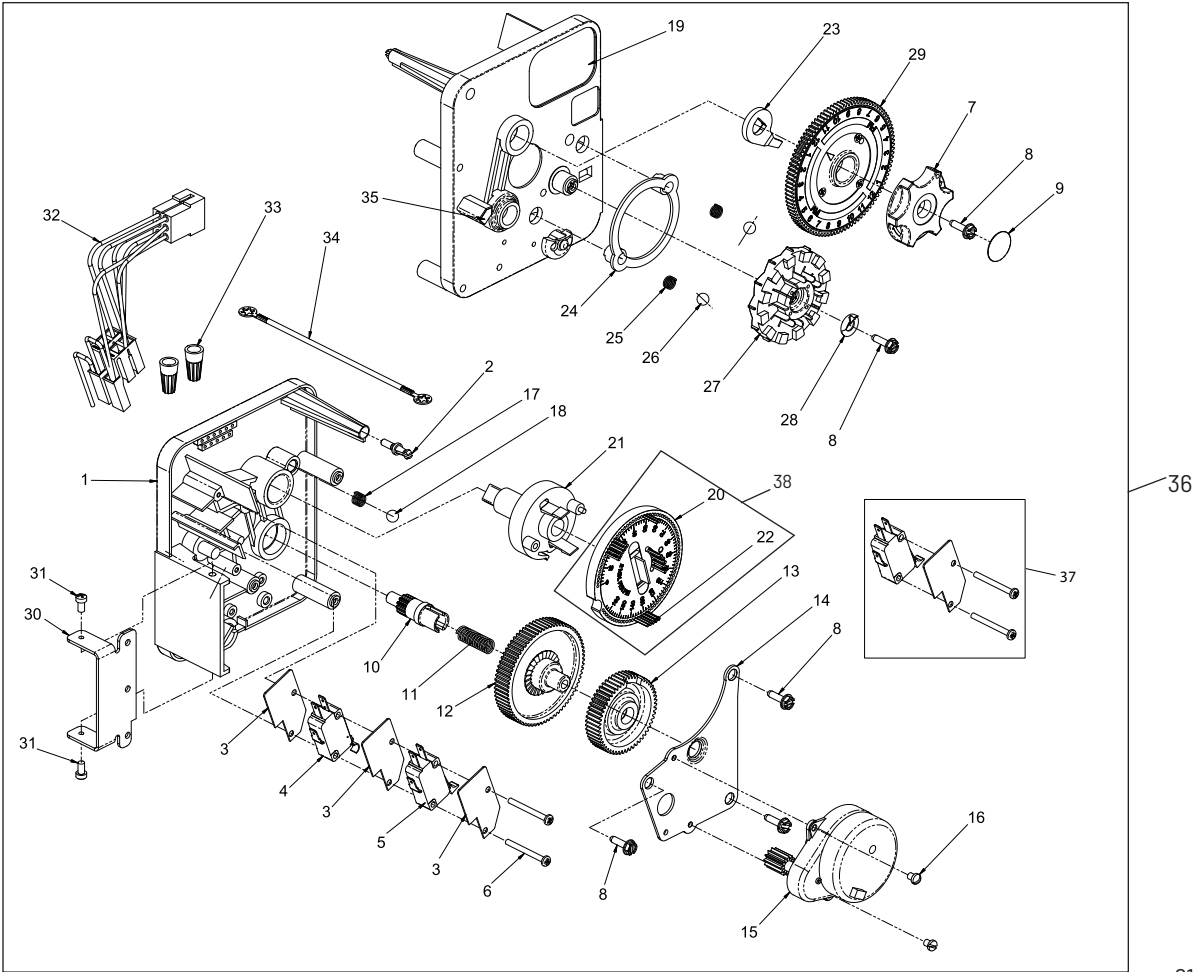




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Figure 4

3200 TIME CLOCK TIMER ASSEMBLY



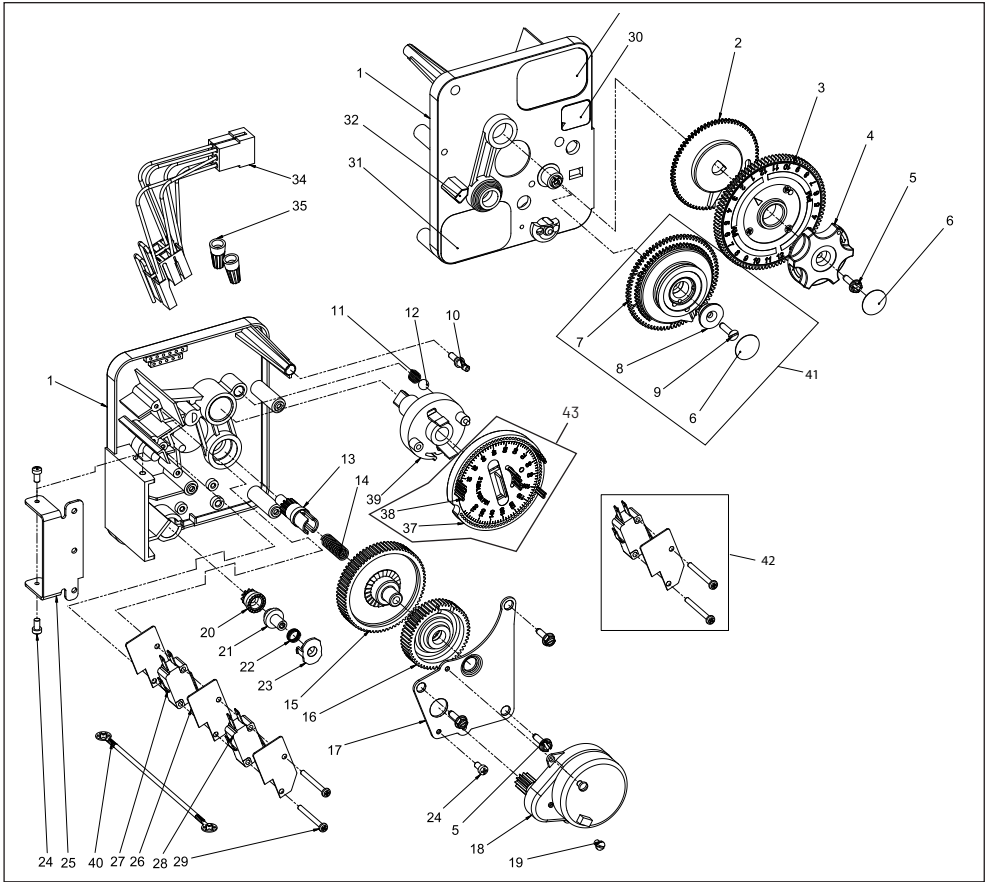
615023200 Rev A



## 3200 TIME CLOCK TIMER ASSEMBLY *CONTINUED*

| Item No. | QTY      | Part No.      | Description                          | Item No.                      | QTY            | Part No.       | Description                                          |
|----------|----------|---------------|--------------------------------------|-------------------------------|----------------|----------------|------------------------------------------------------|
| 1.....   | 1.....   | 13870 .....   | Housing, Timer, 3200                 | 27 .....                      | 1.....         | 14381.....     | Skipper Wheel Assy, 12 Day                           |
| 2 .....  | 1.....   | 14265 .....   | Clip, Spring                         | .....                         | 14860 .....    | .....          | Skipper Wheel Assy, 7 Day                            |
| 3 .....  | 3.....   | 14087 .....   | Insulator                            | 28 .....                      | 1.....         | 13014.....     | Pointer, Regeneration                                |
| 4 .....  | 1.....   | 10896 .....   | Switch, Micro                        | 29 .....                      | 1.....         | 40096-24.....  | Dial, 12 AM Regen Assy, Black                        |
| 5 .....  | 1.....   | 15320 .....   | Switch, Micro, Timer                 | .....                         | 40096-02.....  | .....          | Dial, 2 AM Regen Assy, Black                         |
| 6 .....  | 2.....   | 11413 .....   | Screw, Pan Hd Mach,<br>4-40 x 1-1/8  | 30 .....                      | 1.....         | 13881.....     | Bracket, Hinger Timer                                |
| 7 .....  | 1.....   | 13886 .....   | Knob, 3200                           | 31.....                       | 2.....         | 11384.....     | Screw, Phil, 6-32 x 1/4 Zinc                         |
| 8 .....  | 5.....   | 13296 .....   | Screw, Hex Wsh, 6-20 x 1/2           | 32 .....                      | 1.....         | 13902 .....    | Harness, 3200                                        |
| 9 .....  | 1.....   | 11999 .....   | Label, Button                        | 33 .....                      | 2.....         | 40422 .....    | Nut, Wire, Tan                                       |
| 10.....  | 1.....   | 13018.....    | Pinion, Idler                        | 34 .....                      | 1.....         | 15354-01 ..... | Wire, Ground, 4 inches                               |
| 11.....  | 1.....   | 13312 .....   | Spring, Idler Shaft                  | 35 .....                      | 1.....         | 14007 .....    | Label, Time of Day                                   |
| 12.....  | 1.....   | 13017 .....   | Gear, Idler                          | 36 .....                      | 1.....         | *              | Complete 3200 Time Clock<br>Timer Assembly           |
| 13.....  | 1.....   | 13164 .....   | Gear, Drive                          | 37 .....                      | .....          | 60320-02.....  | Switch Kit, 3200/9000 Timer<br>Auxiliary, Optional   |
| 14.....  | 1.....   | 13887 .....   | Plate, Motor Mounting                | 38 .....                      | .....          | 61420-03.....  | Program Wheel, Gear Assy,<br>Filter 2 Min Per Pin    |
| 15.....  | 1.....   | 18743-1.....  | Motor, 120V, 60Hz, 1/30 RPM          | .....                         | 61420-04 ..... | .....          | Program Wheel, Gear Assy,<br>Softener, 2 Min Per Pin |
| .....    | .....    | 18752-1.....  | Motor, 100V, 50Hz, 1/30 RPM          | *See Powerhead Ordering Guide |                |                |                                                      |
| .....    | .....    | 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, Fillister Hd<br>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,<br>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                   |                               |                |                |                                                      |

3210 METER DELAYED TIMER ASSEMBLY

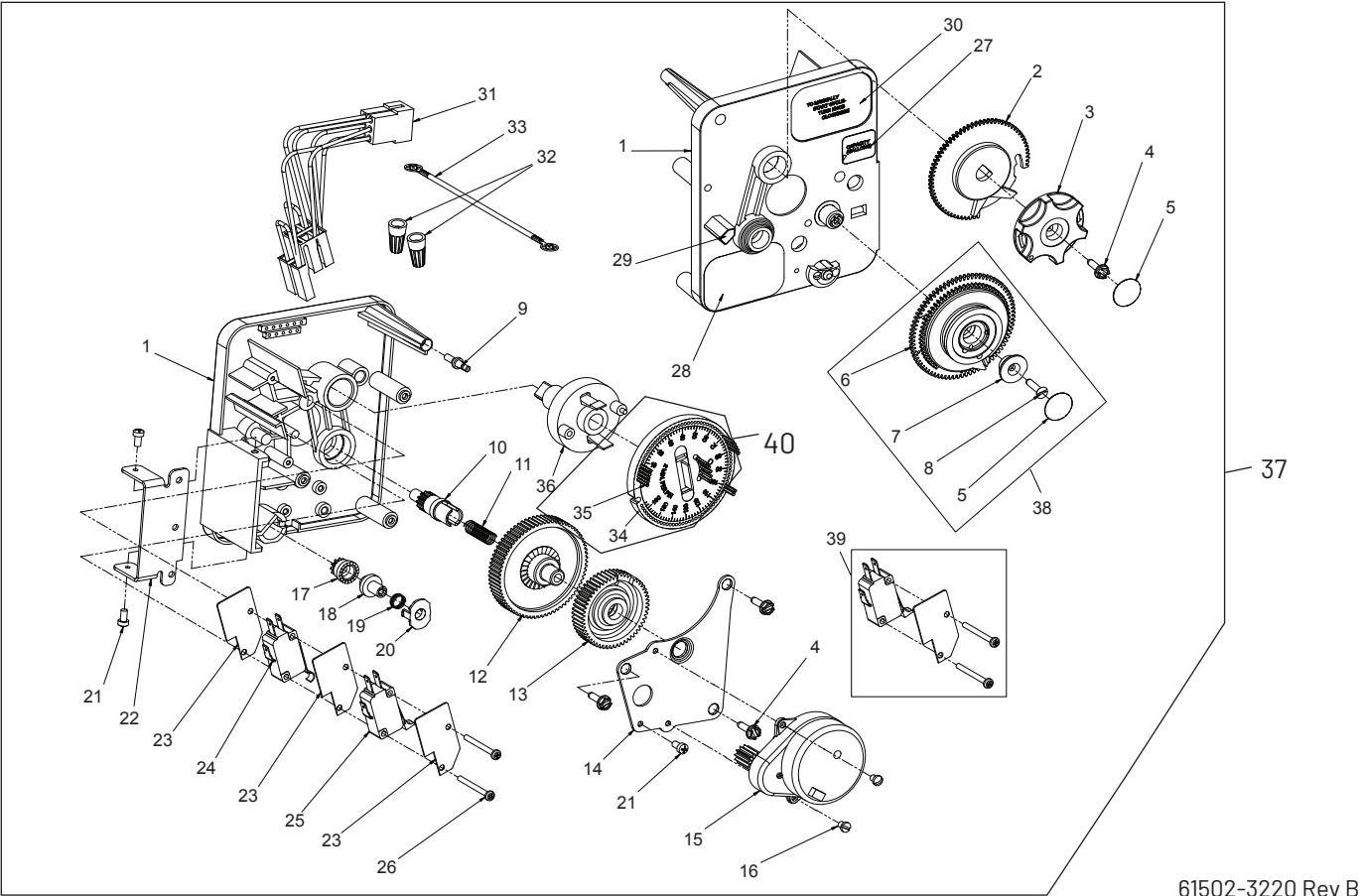


61502-3210 Rev A

## 3210 METER DELAYED TIMER ASSEMBLY *CONTINUED*

| Item No. | QTY    | Part No.      | Description                         | Item No.                      | QTY      | Part No.       | Description                                          |
|----------|--------|---------------|-------------------------------------|-------------------------------|----------|----------------|------------------------------------------------------|
| 1.....   | 1..... | 13870 .....   | Housing, Timer, 3200                | 30 .....                      | 1.....   | 14198 .....    | Label, Indicator                                     |
| 2 .....  | 1..... | 13802 .....   | Gear, Cycle Actuator                | 31.....                       | 1.....   | 15465 .....    | Label, Caution                                       |
| 3 .....  | 1..... | 40096-02..... | Dial 2 AM Regen Assy, Black         | 32 .....                      | 1.....   | 14007 .....    | Label, Time of Day                                   |
| 4 .....  | 1..... | 13886 .....   | Knob, 3200                          | 33 .....                      | 1.....   | 14045 .....    | Label, Instruction                                   |
| 5 .....  | 4..... | 13296 .....   | Screw, Hex Wsh, 6-20 x 1/2          | 34 .....                      | 1.....   | 13902 .....    | Harness, 3200                                        |
| 6 .....  | 2..... | 11999 .....   | Label, Button                       | 35 .....                      | 2.....   | 40422 .....    | Nut, Wire, Tan                                       |
| 7 .....  | 1..... | 13803 .....   | Gear, Program Drive Wheel           | 36 .....                      | 1.....   | 15354-01 ..... | Wire, Ground, 4 inches                               |
| 8 .....  | 1..... | 13806 .....   | Retainer, Program Wheel             | 37 .....                      | 1.....   | 19210.....     | Program Wheel Assy                                   |
| 9 .....  | 1..... | 13748 .....   | Screw, Flat Head St,<br>6-20 x 1/2  | 38 .....                      | 17 ..... | 41754 .....    | Pin, Spring, 1/16 x 5/8 SS,<br>Timer                 |
| 10.....  | 1..... | 14265 .....   | Clip, Spring                        | 39 .....                      | 1.....   | 13911.....     | Gear, Main Drive, Timer                              |
| 11.....  | 1..... | 15424 .....   | Spring, Detent, Timer               | 40 .....                      | 1.....   | *              | Complete 3210 Meter Delayed<br>Timer Assembly        |
| 12.....  | 1..... | 15066 .....   | Ball, 1/4-inch Delrin               | 41.....                       |          | 60405-10 ..... | Program Wheel, w/3/4-inch<br>STD Label 0-2,100 gal   |
| 13.....  | 1..... | 13018.....    | Pinion, Idler                       |                               |          | 60405-20 ..... | Program Wheel, w/3/4-inch<br>EXT Label 0-10,000 gal  |
| 14.....  | 1..... | 13312 .....   | Spring, Idler Shaft                 |                               |          | 60405-11.....  | Program Wheel, w/3/4-inch<br>STD Metric Label 0-8 m3 |
| 15.....  | 1..... | 13017 .....   | Gear, Idler                         |                               |          | 60405-21.....  | Program Wheel, w/3/4-inch<br>EXT Range 0-40 m3       |
| 16.....  | 1..... | 13164 .....   | Gear, Drive                         | 42 .....                      |          | 60320-02.....  | Switch Kit, 3200/9000 Timer<br>Auxiliary, Optional   |
| 17 ..... | 1..... | 13887 .....   | Plate, Motor Mounting               | 43 .....                      |          | 61420-03.....  | Program Wheel, Gear Assy,<br>Filter 2 Min Per Pin    |
| 18.....  | 1..... | 18743-1.....  | Motor, 120V, 60Hz 1/30 RPM          |                               |          | 61420-04 ..... | Program Wheel, Gear Assy,<br>Softener, 2 Min Per Pin |
|          |        | 18752-1.....  | Motor, 100V, 50Hz, 1/30 RPM         | *See Powerhead Ordering Guide |          |                |                                                      |
|          |        | 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,<br>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,<br>4-40 x 11/8  |                               |          |                |                                                      |

3220 METER IMMEDIATE TIMER ASSEMBLY



61502-3220 Rev B

## 3220 METER IMMEDIATE TIMER ASSEMBLY *CONTINUED*

| Item No. | QTY    | Part No.           | Description                      | Item No.                      | QTY      | Part No.       | Description                                                |
|----------|--------|--------------------|----------------------------------|-------------------------------|----------|----------------|------------------------------------------------------------|
| 1.....   | 1..... | 13870 .....        | Housing, Timer                   | 34 .....                      | 1.....   | 19210-05 ..... | Program Wheel Assembly, 9000/3230                          |
| 2 .....  | 1..... | 15431.....         | Gear, Cycle Actuator, System #5  | 35 .....                      | 17 ..... | 41754 .....    | Pin, Spring, 1/16 x 5/8 Stainless Steel, Timer             |
| 3 .....  | 1..... | 13886 .....        | Knob, 3200                       | 36 .....                      | 1.....   | 15055 .....    | Gear, Main Drive                                           |
| 4 .....  | 4..... | 13296 .....        | Screw, Hex Wsh, 6-20 x 1/2       | 37 .....                      | 1.....   | * .....        | Complete 3220 Meter Immediate Timer Assy                   |
| 5 .....  | 2..... | 11999 .....        | Label, Button                    | 38 .....                      |          | 60405-10 ..... | Program Wheel, w/3/4-inch STD Label 0-2,100 gal            |
| 6 .....  | 1..... | 13807 .....        | Gear, Program Drive Wheel        |                               |          | 60405-20.....  | Program Wheel, w/3/4-inch EXT Label 0-10,000 gal           |
| 7 .....  | 1..... | 13806 .....        | Retainer, Program Wheel          |                               |          | 60405-11 ..... | Program Wheel, w/3/4-inch STD Metric Label 0-8 m3          |
| 8 .....  | 1..... | 13748 .....        | Screw, Flt Hd St, 6-20 x 1/2     |                               |          | 60405-21.....  | Program Wheel, w/3/4-inch EXT Range 0-40 m3                |
| 9 .....  | 1..... | 14265 .....        | Spring Clip                      | 39 .....                      |          | 60320-02.....  | Switch Kit, 3200/9000 Timer Auxiliary, Optional            |
| 10.....  | 1..... | 13018.....         | Pinion, Idler                    | 40.....                       |          | 61420-06.....  | Program Wheel, Gear Assy, Softener Immediate 2 Min Per Pin |
| 11.....  | 1..... | 18563 .....        | Idler Shaft Spring               |                               |          | 61420-42.....  | Program Wheel, Gear Assy, Filter Immediate 2 Min Per Pin   |
| 12.....  | 1..... | 13017 .....        | Gear, Idler                      | *See Powerhead Ordering Guide |          |                |                                                            |
| 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, Slt'd 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           |                               |          |                |                                                            |

## 2510 SXT VALVE

| Item No. | QTY    | Part No.             | Description                                                               |
|----------|--------|----------------------|---------------------------------------------------------------------------|
| 1.....   | 1..... | 251006-001.....      | 2510, SOF, DNF, CLK, SXT-, 24-60,<br>CW 2--, .50, LES, NA2, 1650, HWBP    |
|          |        | .....251006-002..... | 2510, SOF, DNF, M34, SXT-, 24-60,<br>CW 1--, .50, LES, NA2, 1600, HWBP    |
|          |        | .....251006-004..... | 2510, SOF, DNF, M34, SXT-, 24-60,<br>CW 1--, .50, LES, NA2, 1650, HWBP    |
|          |        | .....251006-005..... | 2510, SOF, DNF, M34, SXT-, 24-60,<br>CW 1--, .50, LES, NA2, 1600, HWBP    |
|          |        | .....251006-006..... | 2510, SOF, DNF, M34, SXT-, 24-60,<br>CW 1--, .50, LES, NA2, 1600, HWBP    |
|          |        | .....251006-003..... | 2510, FIL, DNF, CLK, SXT-, 24-60,<br>CW BWF, BWF, LES, NA2, BWF-,<br>HWBP |

## 2510 MANUAL VALVE

| Item No. | QTY    | Part No.             | Description                                                               |
|----------|--------|----------------------|---------------------------------------------------------------------------|
| 1.....   | 1..... | 251011-002.....      | 2510, SOF, DNF, MAN, MAN-,<br>MAN--, CW 1--, MAN, LES, NA2,<br>MAN-, HWBP |
|          |        | .....251011-001..... | 2510, FIL, DNF, MAN, MAN-,<br>MAN--, CW BWF, BWF, LES, NA2,<br>BWF-, HWBP |

## 2510 ELECTROMECHANICAL SOFTENER METER

| Item No. | QTY    | Part No.             | Description                                                            |
|----------|--------|----------------------|------------------------------------------------------------------------|
| 1.....   | 1..... | 251002-001.....      | 2510, SOF, DNF, M34, MDEL, 12060,<br>CW 1--, .50, LES, NA2, 1650, HWBP |
|          |        | .....251002-002..... | 2510, SOF, DNF, M34, MDEL, 12060,<br>CW 1--, .50, LES, NA2, 1650, HWB, |
|          |        | .....251002-003..... | 2510, SOF, DNF, M34, MDEL, 12060,<br>CW 2PV, .50, LES, NA2, 1600, HWB, |

## 2510 ELECTROMECHANICAL SOFTENER TIME CLOCK

| Item No. | QTY    | Part No.             | Description                                                            |
|----------|--------|----------------------|------------------------------------------------------------------------|
| 1.....   | 1..... | 251001-002.....      | 2510, SOF, DNF, CLK, 12DA, 12060,<br>CW 1--, .50, LES, NA2, 1650, HWBP |
|          |        | .....251001-006..... | 2510, SOF, DNF, CLK, 12DA, 12060,<br>CW 1--, .50, LES, NA2, 1650, HWBP |
|          |        | .....251001-007..... | 2510, SOF, DNF, CLK, 12DA, 12060,<br>CW 2PV, .50, LES, NA2, 1600, HWBP |

## 2510 ELECTROMECHANICAL FILTER TIME CLOCK

| Item No. | QTY    | Part No.             | Description                                                            |
|----------|--------|----------------------|------------------------------------------------------------------------|
| 1.....   | 1..... | 251001-001.....      | 2510, FIL, DNF, CLK, 12DA, 12060,<br>CW BWF, BWF, LES, NA2, BWF-, HWBP |
|          |        | .....251001-003..... | 2510, FIL, DNF, CLK, 12DA, 12060,<br>CW BWF, BWF, LES, NA2, BWF-, HWBP |
|          |        | .....251001-008..... | 2510, FIL, DNF, CLK, 12DA, 12060,<br>CW BWF, BWF, LES, NA2, BWF-, NWBP |
|          |        | .....251000-001..... | 2510, FIL, DNF, CLK, 7DAY, 12060,<br>CW BWF, BWF, LES, NA2, BWF-, HWBP |

**NOTE:** Above part numbers DO NOT include the following parts.

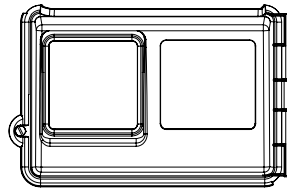
Cover  
Bypass Assembly  
Yoke Assembly  
DLFC with Retainer  
Flow Washers

See accessory page for options.

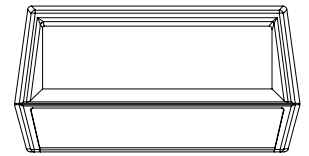
## 2510 VALVE ACCESSORIES

### Covers

|                 |                                                 |
|-----------------|-------------------------------------------------|
| 60219-02 .....  | Cover Assy, Environmental, Black w/clear window |
| 60219-12 .....  | Cover Assy, Environmental, Black w/black window |
| 60232-110 ..... | Cover, Designer, 1 pc. Black                    |
| 60232-310 ..... | Cover, Designer, Gray/Black                     |



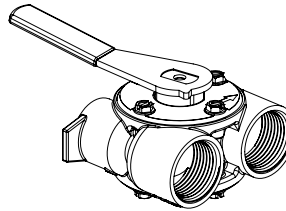
COVER, ENVIRONMENTAL



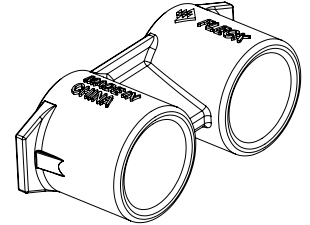
COVER, DESIGNER

### Bypasses

|               |                      |
|---------------|----------------------|
| 60041SS ..... | 1" Bypass, SS, NPT   |
| 60040SS ..... | 3/4" Bypass, SS, NPT |
| 60049 .....   | Bypass, Plastic      |



BYPASS



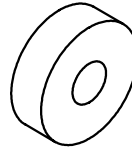
YOKE

### Yokes

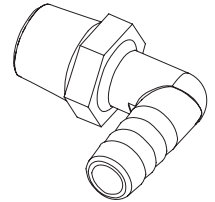
|                |                                   |
|----------------|-----------------------------------|
| 19620-01 ..... | Yoke Assy, 3/4", r/angle, 90 deg. |
| 18706 .....    | 1" Yoke, Plastic NPT              |
| 18706-10 ..... | 1" Yoke, Plastic BSP              |
| 18706-02 ..... | 3/4" Yoke, Plastic NPT            |
| 18706-12 ..... | 3/4" Yoke, Plastic BSP            |
| 13708-40 ..... | 1" Yoke, Sweat                    |
| 41026-01 ..... | 1" Yoke, SS, NPT                  |
| 42690 .....    | 3/4" Yoke, Sweat                  |
| 41027-01 ..... | 3/4" Yoke, SS, NPT                |

### Washers

|             |                       |
|-------------|-----------------------|
| 19153 ..... | Washer, Flow, 0.6 GPM |
| 19152 ..... | Washer, Flow, 0.8 GPM |
| 12085 ..... | Washer, Flow, 1.2 GPM |
| 19150 ..... | Washer, Flow, 1.3 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 |
| 19147 ..... | Washer, Flow, 4.5 GPM |
| 12092 ..... | Washer, Flow, 5.0 GPM |
| 17814 ..... | Washer, Flow, 6.0 GPM |
| 12408 ..... | Washer, Flow, 7.0 GPM |



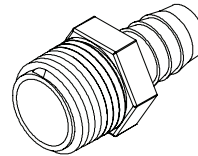
WASHER



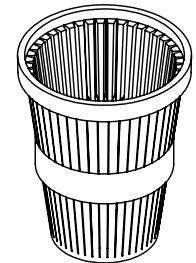
DRAIN ELBOW

### Drain Elbows

|             |                      |
|-------------|----------------------|
| 19699 ..... | 1/2" Drain Elbow, 45 |
| 13121 ..... | 5/8" Drain Elbow, 90 |



HOSE BARBS



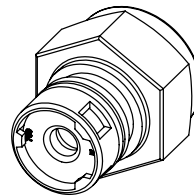
COLLECTOR

### Hose Barbs

|                |                         |
|----------------|-------------------------|
| 13308 .....    | 1/2" Straight Hose Barb |
| 13308-01 ..... | 5/8" Straight Hose Barb |

### Collectors

|                |                             |
|----------------|-----------------------------|
| 18280 .....    | Top Collector, 1.050        |
| 18280-01 ..... | Top Collector, 1.050 Wide   |
| 18280-02 ..... | Top Collector, 1.050 Narrow |



DLFC

### DLFC

|                 |                           |
|-----------------|---------------------------|
| 60705-00 .....  | DLFC, Plastic, Blank      |
| 60706-8.0 ..... | DLFC, QC x 3/4"F, 8.0 GPM |
| 60706-9.0 ..... | DLFC, QC x 3/4"F, 9.0 GPM |
| 60706-10 .....  | DLFC, QC x 3/4"F, 10 GPM  |
| 60706-12 .....  | DLFC, QC x 3/4"F, 12 GPM  |
| 60706-15 .....  | DLFC, QC x 3/4"F, 15 GPM  |



## 2510 VALVE CONVERSION ASSEMBLIES

### BLFC

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| 60010-25 .....  | BLFC, 1650, .25 GPM, Plastic<br>(0.75 lbs NaCl/min) |
| 60010-50 .....  | BLFC, 1650, .50 GPM, Plastic<br>(1.5 lbs NaCl/min)  |
| 60010-100 ..... | BLFC, 1650, 1.0 GPM, Plastic<br>(3 lbs NaCl/min)    |
| 60020-25 .....  | BLFC, .25 GPM 1600                                  |
| 60020-50 .....  | BLFC, .50 GPM 1600                                  |
| 60020-100 ..... | BLFC, 1.0 GPM 1600                                  |

### Brine Valves

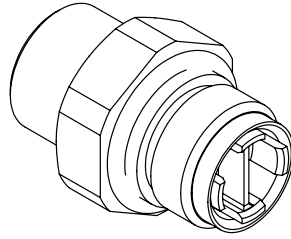
|                 |                                                            |
|-----------------|------------------------------------------------------------|
| 60011 .....     | Brine Valve, 1650, Less BLFC                               |
| 60011-000 ..... | Brine Valve, 1650, Short Stem,<br>0.125 GPM Less Tube      |
| 60011-010 ..... | Brine Valve, 1650, Short Stem,<br>0.25 GPM Less Tube       |
| 60011-020 ..... | Brine Valve, 1650, Short Stem,<br>0.50 GPM Less Tube       |
| 60011-030 ..... | Brine Valve, 1650, Short Stem,<br>1.0 GPM Less Tube        |
| 60029 .....     | Brine Valve, 1650, Short Stem,<br>Brass, Less BLFC         |
| 60029-01 .....  | Brine Valve, 1600, Short Stem,<br>Less BLFC, Less Sm Parts |
| 60029-010 ..... | Brine Valve, 1600, Short Stem, 0.25 GPM                    |
| 60029-020 ..... | Brine Valve, 1600, Short Stem, 0.50 GPM                    |
| 60029-030 ..... | Brine Valve, 1600, Short Stem, 1.0 GPM                     |

### Injector Nozzles

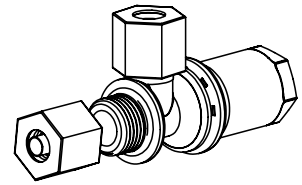
|                 |                                             |
|-----------------|---------------------------------------------|
| 10913-0 .....   | Nozzle, Injector, #0, Red (8" Tank)         |
| 10913-00 .....  | Nozzle, Injector, #00, Violet (7" Tank)     |
| 10913-000 ..... | Nozzle, Injector, #000, Brown (6" Tank)     |
| 10913-1 .....   | Nozzle, Injector, #1, White (9" & 10" Tank) |
| 10913-2 .....   | Nozzle, Injector, #2, Blue (12" Tank)       |
| 10913-3 .....   | Nozzle, Injector, #3, Yellow (13" Tank)     |
| 10913-4 .....   | Nozzle, Injector, #4, Green (14" Tank)      |
| 10913BLK .....  | Nozzle, Injector, Black (Filter)            |
| 12973-0 .....   | Nozzle, Injector, #0, PVC                   |
| 12973-1 .....   | Nozzle, Injector, #1, PVC                   |
| 12973-2 .....   | Nozzle, Injector, #2, PVC                   |
| 12973-3 .....   | Nozzle, Injector, #3, PVC                   |
| 12973-4 .....   | Nozzle, Injector, #4, PVC                   |

### Injector Throats

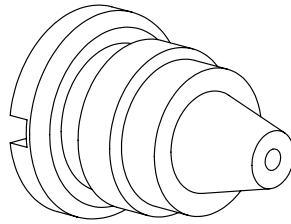
|                 |                                             |
|-----------------|---------------------------------------------|
| 10914-0 .....   | Throat, Injector, #0, Red (8" Tank)         |
| 10914-00 .....  | Throat, Injector, #00, Violet (7" Tank)     |
| 10914-000 ..... | Throat, Injector, #000, Brown (6" Tank)     |
| 10914-1 .....   | Throat, Injector, #1, White (9" & 10" Tank) |
| 10914-2 .....   | Throat, Injector, #2, Blue (12" Tank)       |
| 10914-3 .....   | Throat, Injector, #3, Yellow (13" Tank)     |
| 10914-4 .....   | Throat, Injector, #4, Green (14" Tank)      |
| 12974-0 .....   | Throat, Injector, #0, PVC                   |
| 12974-1 .....   | Throat, Injector, #1, PVC                   |
| 12974-2 .....   | Throat, Injector, #2, PVC                   |
| 12974-3 .....   | Throat, Injector, #3, PVC                   |
| 12974-4 .....   | Throat, Injector, #4, PVC                   |



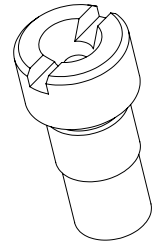
BLFC



BRINE VALVE



INJECTOR NOZZLE



INJECTOR THROAT

## 2510 VALVE CONVERSION ASSEMBLIES

### Labels

|             |            |
|-------------|------------|
| 14214 ..... | Label, 13K |
| 14076 ..... | Label, 16K |
| 13969 ..... | Label, 18K |
| 14046 ..... | Label, 21K |
| 13961 ..... | Label, 24K |
| 14047 ..... | Label, 26K |
| 14180 ..... | Label, 28K |
| 13962 ..... | Label, 30K |
| 14048 ..... | Label, 32K |
| 13971 ..... | Label, 36K |
| 14073 ..... | Label, 40K |
| 13974 ..... | Label, 45K |
| 14239 ..... | Label, 48K |
| 14074 ..... | Label, 50K |
| 14034 ..... | Label, 60K |
| 14183 ..... | Label, 70K |

### Switch

|                |                                            |
|----------------|--------------------------------------------|
| 60320-12 ..... | Switch Kit, 1500 thru 2850 SPG Drive Motor |
|----------------|--------------------------------------------|

### Timers/Powerheads (see Powerhead/Timer Ordering Guide)

|                |                          |
|----------------|--------------------------|
| 60303-XX ..... | 3200 7 Day Timer         |
| 60304-XX ..... | 3200 12 Day Timer        |
| 60306-XX ..... | 3200 Meter Delayed Timer |

### Timers

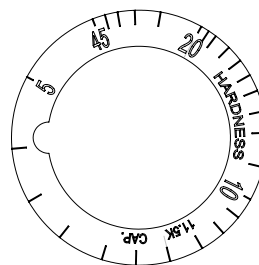
|                |                                 |
|----------------|---------------------------------|
| 42778 .....    | Timer Assy, SXT, 2510/2750/2850 |
| 42466-01 ..... | Timer Assy, XT, Right Hinged    |
| 42466-11 ..... | Timer Assy, NXT, Right Hinged   |

### Miscellaneous

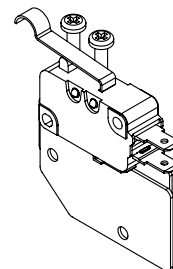
|             |                             |
|-------------|-----------------------------|
| 60374 ..... | Flat Cap Assy, 1600         |
| 10269 ..... | Nut, Jam,, 3/4-16           |
| 43560 ..... | Fitting, Brine Valve, Steel |

### Meters

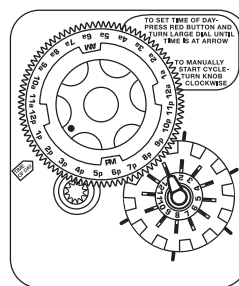
|                 |                                                                         |
|-----------------|-------------------------------------------------------------------------|
| 15495 .....     | Meter Cable, 13.87"                                                     |
| 15307 .....     | Tube, Cable Guide, 2750                                                 |
| 60088-180 ..... | Meter Assy, 3/4" Dual Port, Slip, Std,<br>Rt Ang/180, Plas, Pdl, w/clps |
| 60089-180 ..... | Meter Assy, 3/4" Dual Port, Slip, Ext,<br>Rt Ang/180, Plas, Pdl, w/clps |
| 60086-50 .....  | Meter Assy, 3/4" Dual Port, Slip Elec,<br>Plas, Pdl, w/clps             |
| 19121-01 .....  | Meter Cable Assy, SE, Paddle                                            |
| 60626 .....     | Meter Assy, Turbine, Electronic 3/4"<br>with clips and screws           |
| 19791-02 .....  | Meter Cable Assy, Turbine/SXT                                           |



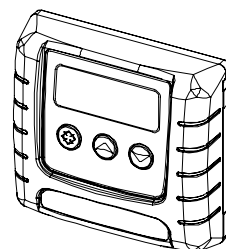
LABEL



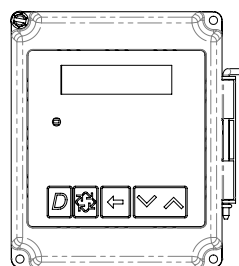
SWITCH



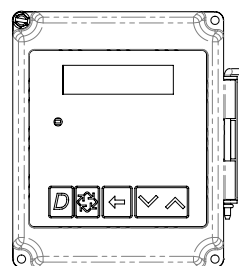
TIMERS, 3200



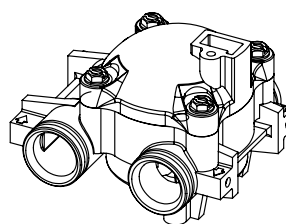
TIMER ASSY, SXT



TIMER ASSY, XT

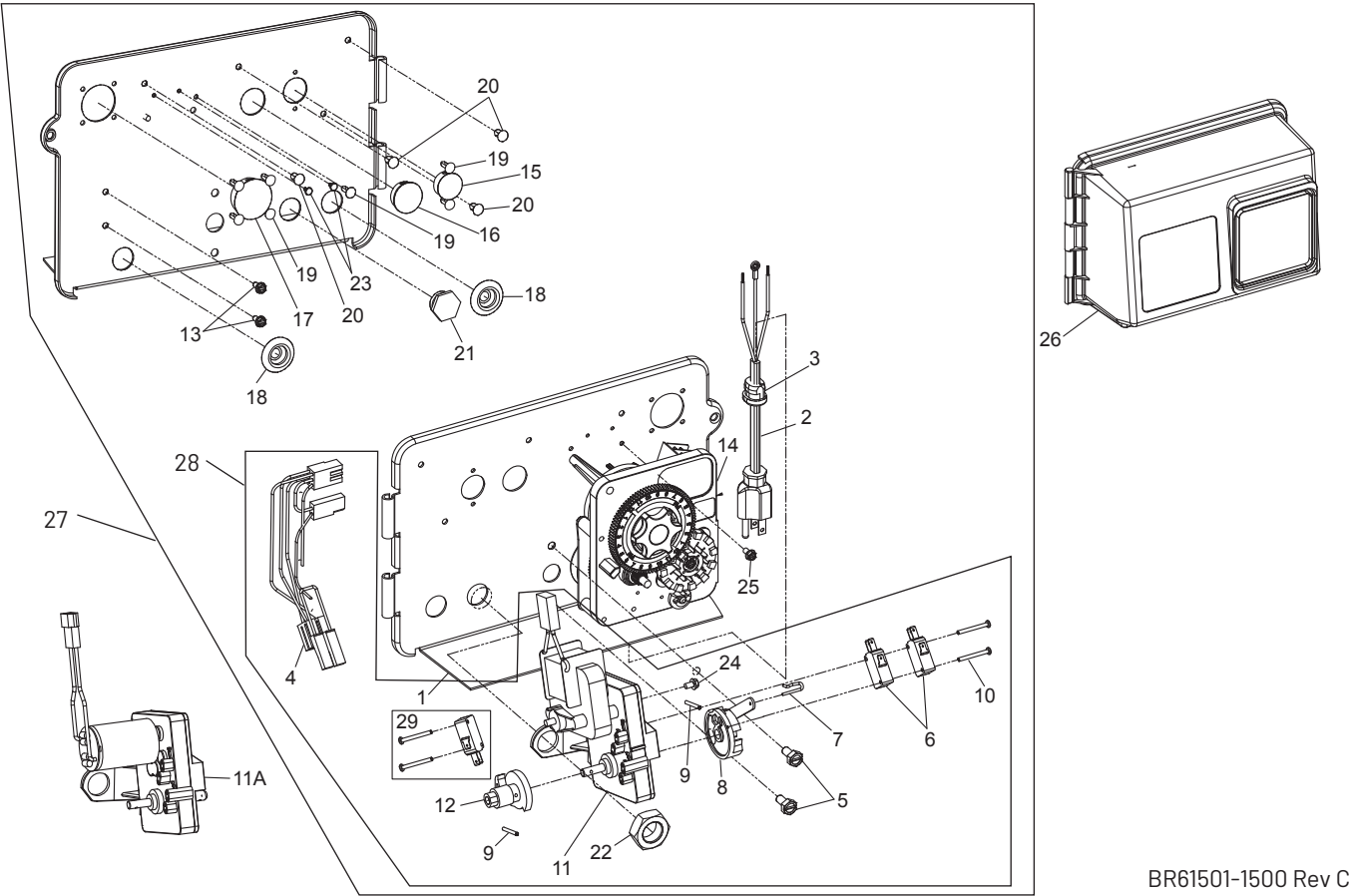


TIMER ASSY, NXT



METER ASSY, PADDLE

POWERHEAD ASSEMBLY (ENVIRONMENTAL)

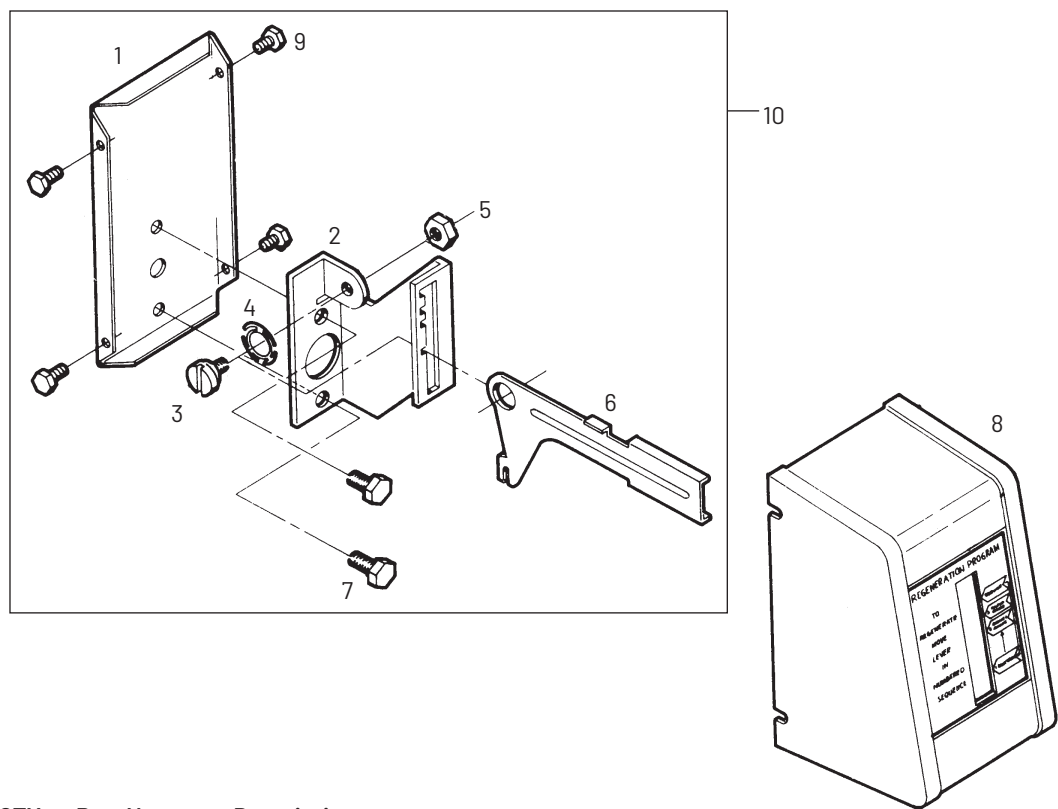


BR61501-1500 Rev C

## POWERHEAD ASSEMBLY (ENVIRONMENTAL) *CONTINUED*

| Item No. | QTY | Part No. | Description                                  | Item No.                      | QTY | Part No. | Description                                    |
|----------|-----|----------|----------------------------------------------|-------------------------------|-----|----------|------------------------------------------------|
| 1        | 1   | 18697-15 | Backplate, Hinged                            |                               |     |          | Wrench Tighten                                 |
| 2        | 1   | 11838    | Power Cord, 6-feet, North American, Flat     | 23                            | 2   | 41581    | Plug, Hole .125 Dia, White                     |
|          |     | 19303-01 | Power Cord, 6-feet, Australian               | 24                            | 1   | 10872    | Screw, Hex WSH, 8-32 x 5/16 20 IN-LBS ±20%     |
|          |     | 19885-01 | Power Cord, 6-feet, Japanese                 | 25                            | 1   | 14202-01 | Screw, Hex Washer #8-32 x 5/16 Hand Tighten    |
|          |     | 11545-01 | Power Cord, 6-feet, European                 | 26                            | 1   | 60219-02 | Cover Assy, Environmental, Black, Clear Window |
| 3        | 1   | 13547    | Strain Relief, Cord                          |                               |     | 60219-12 | Cover Assy, Environmental, Black, Black Window |
| 4        | 1   | 40400    | Harness, Drive Designr/Envirmtl              | 27                            | 1   | *        | Powerhead Assembly                             |
| 5        | 2   | 10231    | Screw, Slot Hex 1/4-20 x 1/2 35 in-lbs ±20%  | 28                            | 1   | 60050-23 | Drive Motor Assy, 24 VAC/DC, 50-60 Hz FAM 1    |
| 6        | 2   | 10218    | Switch, Micro                                |                               |     | 60050-21 | Drive Motor Assy, 115V/60 Hz                   |
| 7        | 1   | 10909    | Pin, Connecting Rod Spring                   |                               |     | 60050-22 | Drive Motor Assy, 220V, 50-60 Hz SP FAM1       |
| 8        | 1   | 60160-15 | Drive Cam Assy, STF, Blue, 2900              | 29                            |     | 60320-12 | Switch Kit, 1500-2850 Drive Motor              |
| 9        | 2   | 10338    | Pin, Roll, 3/32 x 7/8                        | <b>Not Shown:</b>             |     |          |                                                |
| 10       | 2   | 14923    | Screw, Pan Hd MACH, 4-40 x 15.0 in-lbs ±10%  |                               | 1   | 15441    | Cable Guide Assy, 2510                         |
| 11       | 1   | 41543    | Motor, Drive, 115V/60 Hz                     |                               | 1   | 15495    | Meter Cable, 13.87 inches                      |
|          |     | 41545    | Motor, Drive, 220V, 50-60Hz, SP, Fam 1       | *See Powerhead Ordering Guide |     |          |                                                |
| 11A      |     | 42579    | Motor, Drive, 24 VAC/DC, 50-60 Hz, Fam 1     |                               |     |          |                                                |
| 12       | 1   | 12777    | Cam, Shut-off Valve                          |                               |     |          |                                                |
| 13       | 2   | 10300    | Screw, Hx Wash Head, 8 x 3/8 20 in-lbs ±20%  |                               |     |          |                                                |
| 14       | 1   | 3200     | Timer Assy, 3200 7 or 12 Day                 |                               |     |          |                                                |
|          |     |          | 3210 Meter Delay                             |                               |     |          |                                                |
|          |     |          | 3220 Meter Immediate                         |                               |     |          |                                                |
| 15       | 1   | 15806    | Hole Plug, (HeyCo)                           |                               |     |          |                                                |
| 16       | 1   | 16493    | Plug, Hole, HeyCo, .88 Dia                   |                               |     |          |                                                |
| 17       | 1   | 17421    | Plug, 1.20 Hole                              |                               |     |          |                                                |
| 18       | 2   | 19691    | Plug, .750 Dia. Hole, Flush                  |                               |     |          |                                                |
| 19       | 7   | 19800    | Plug (Hole Size: Dia .140)                   |                               |     |          |                                                |
| 20       | 4   | 19801    | Plug, Dia .190                               |                               |     |          |                                                |
| 21       | 1   | 43560    | Fitting, Brine Valve (Used on Filter Valves) |                               |     |          |                                                |
| 22       | 1   | 10269    | Nut, Jam, 3/4-16 (Used on Filter Valves)     |                               |     |          |                                                |

MANUAL POWERHEAD ASSEMBLY



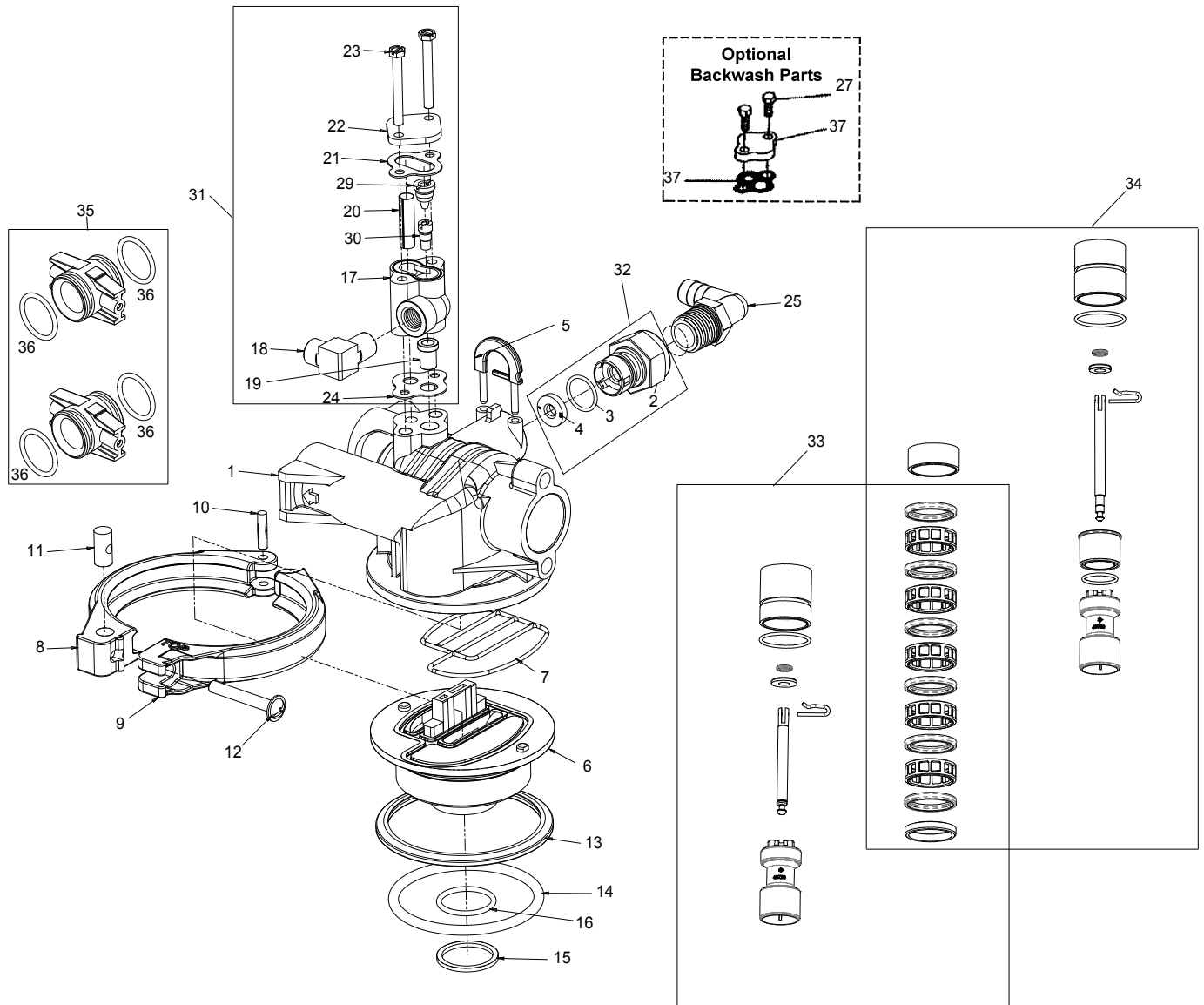
| Item No. | QTY     | Part No.       | Description                                         |
|----------|---------|----------------|-----------------------------------------------------|
| 1.....   | 1.....  | 12593 .....    | Backplate, Manual                                   |
| 2 .....  | 1 .....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

Not Shown:

|        |             |           |
|--------|-------------|-----------|
| 1..... | 10909 ..... | Pin, Link |
|--------|-------------|-----------|

60409 Rev A

## CONTROL VALVE ASSEMBLY



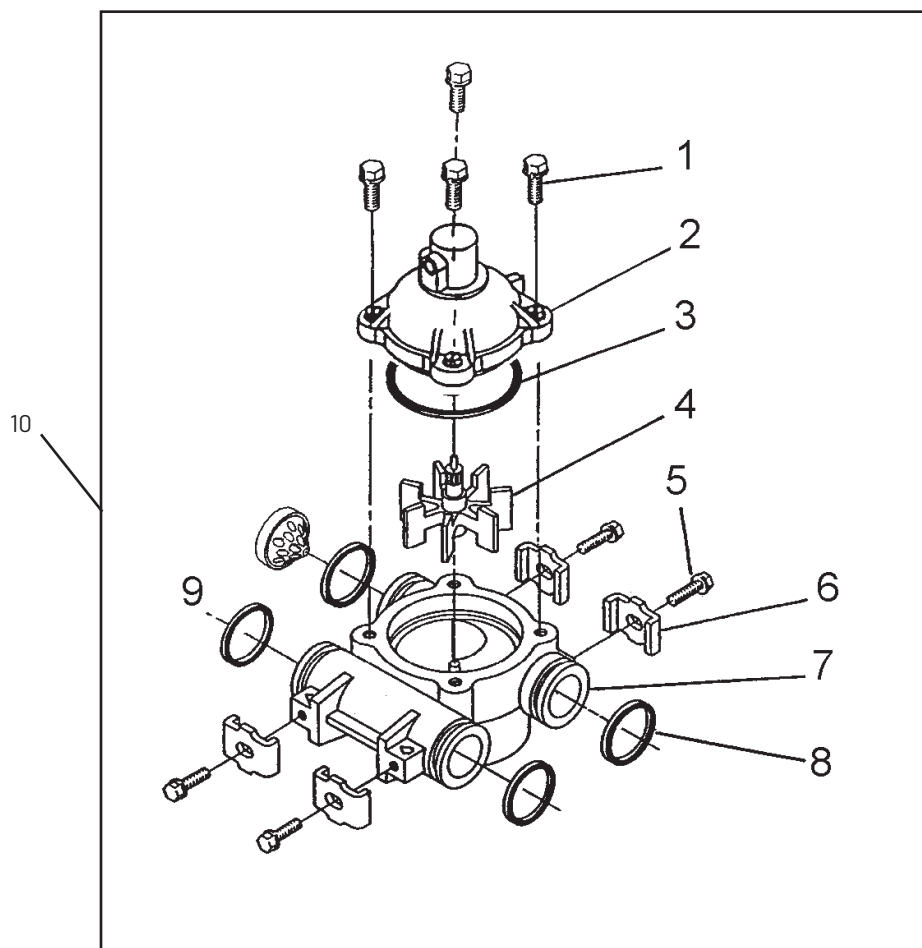
61500-2510 Rev B

| Item No. | QTY | Part No. | Description                       | Item No. | QTY | Part No. | Description                                             |
|----------|-----|----------|-----------------------------------|----------|-----|----------|---------------------------------------------------------|
| 1        | 1   | 19328    | Valve Body, 2510                  | 15       | 1   | 13030    | Retainer, Dist Tube, O-ring                             |
| 2        | 1   | 11385-01 | Housing, Flow Control, Plastic    | 16       | 1   | 13304    | O-ring, -121                                            |
| 3        | 1   | 11183    | O-ring, -017                      | 17       | 1   | 17776    | Body, Injector, 1600                                    |
| 4        | 1   | 12408    | Washer, Flow, 7.0 GPM             | 18       | 1   | 10328    | Fitting, Elbow, 90 Deg.<br>1/4-inch NPT x 3/8-inch Tube |
| 5        | 1   | 18312    | Retainer, Drain                   | 19       | 1   | 16221    | Disperser, Air                                          |
| 6        | 1   | 19322    | Adapter Base, 2510                | 20       | 1   | 10227    | Screen, Injector                                        |
| 7        | 1   | 19936    | Seal, 2510, Base                  | 21       | 1   | 10229    | Gasket, Injector Cap, 1600                              |
| 8        | 1   | 19899    | Clamp, Female, 2510               | 22       | 1   | 11893    | Cap, Injector, SS                                       |
| 9        | 1   | 19900    | Clamp, Male, 2510                 | 23       | 2   | 10692    | Screw, Slot Hex Hd,<br>10-24 x 1-5/8-inch               |
| 10       | 1   | 40000    | Pin, Hinge, Clamp                 | 24       | 1   | 14805    | Gasket, Injector Body,<br>1600/1700                     |
| 11       | 1   | 19998    | Pivot, Clamp, 2510                | 25       | 1   | 12338    | Fitting, Elbow, 90 Deg.                                 |
| 12       | 1   | 40057    | Screw, Comb Hd, 114-20,<br>2-inch |          |     |          |                                                         |
| 13       | 1   | 19197    | Ring, Slip                        |          |     |          |                                                         |
| 14       | 1   | 18303    | O-ring, -336                      |          |     |          |                                                         |

## CONTROL VALVE ASSEMBLY *CONTINUED*

| Item No. | QTY | Part No.  | Description                      | Item No.         | QTY | Part No.  | Description                      |
|----------|-----|-----------|----------------------------------|------------------|-----|-----------|----------------------------------|
|          |     |           | 1/2-inch NPT x 1/2-inch Barb     |                  |     |           |                                  |
| 26       | 1   | 11893     | Cap, Injector, Stainless Steel   |                  |     | 60705-20  | DLFC, Plastic 2.0 gpm            |
|          |     | 10228     | Cap, Injector, Brass             |                  |     | 60705-24  | DLFC, Plastic 2.4 gpm            |
| 27       | 1   | 15137     | Screw, Hex Wsh Mach, 10-24 x 3/8 |                  |     | 60705-30  | DLFC, Plastic 3.0 gpm            |
| 28       | 1   | 10757     | Spacer, End                      |                  |     | 60705-35  | DLFC, Plastic 3.5 gpm            |
| 29       | 1   | 12973-0   | Nozzle, Injector, #0, PVC        |                  |     | 60705-40  | DLFC, Plastic 4.0 gpm            |
|          |     | 12973-1   | Nozzle, Injector, #1, PVC        |                  |     | 60705-45  | DLFC, Plastic 4.5 gpm            |
|          |     | 12973-2   | Nozzle, Injector, #2, PVC        |                  |     | 60705-50  | DLFC, Plastic 5.0 gpm            |
|          |     | 12973-3   | Nozzle, Injector, #3, PVC        |                  |     | 60705-60  | DLFC, Plastic 6.0 gpm            |
|          |     | 12973-4   | Nozzle, Injector, #4, PVC        |                  |     | 60705-70  | DLFC, Plastic 7.0 gpm            |
|          |     | 10913-000 | Nozzle, Injector, #000 Brown     |                  |     | 60706-8.0 | DLFC, QC x 3/4-inch F, 8.0 gpm   |
|          |     | 10913-00  | Nozzle, Injector, #00 Violet     |                  |     | 60706-9.0 | DLFC, QC x 3/4-inch F, 9.0 gpm   |
|          |     | 10913-0   | Nozzle, Injector, #0 Red         |                  |     | 60706-10  | DLFC, QC x 3/4-inch F, 10 gpm    |
|          |     | 10913-1   | Nozzle, Injector, #1 White       |                  |     | 60706-12  | DLFC, QC x 3/4-inch F, 12 gpm    |
|          |     | 10913-2   | Nozzle, Injector, #2 Blue        |                  |     | 60706-15  | DLFC, QC x 3/4-inch F, 15 gpm    |
|          |     | 10913-3   | Nozzle, Injector, #3 Yellow      |                  |     | 60706-20  | DLFC, QC x 3/4-inch F, 20 gpm    |
|          |     | 10913-4   | Nozzle, Injector, #4 Green       |                  |     |           |                                  |
| 30       | 1   | 12974-0   | Throat, Injector, #0, PVC        | 33               | 1   | 61670-01  | Piston Kit, 2510/2750            |
|          |     | 12974-1   | Throat, Injector, #1, PVC        |                  |     | 62044     | Piston Kit, 2750, Hot Water      |
|          |     | 12974-2   | Throat, Injector, #2, PVC        | 34               | 1   | 61670-02  | Piston Kit, 2510/2750, NHWP      |
|          |     | 12974-3   | Throat, Injector, #3, PVC        |                  |     |           |                                  |
|          |     | 12974-4   | Throat, Injector, #4, PVC        | 35               | 2   | 19228-01  | Adapter Assy, Coupling w/O-ring  |
|          |     | 10914-000 | Throat, Injector, #000 Brown     | 36               | 4   | 13305     | O-ring, -119                     |
|          |     | 10914-00  | Throat, Injector, #00 Violet     | 37               | 1   | 14805     | Gasket, Injector Body, 1600/1700 |
|          |     | 10914-0   | Throat, Injector, #0 Red         | <b>Not Shown</b> |     |           |                                  |
|          |     | 10914-1   | Throat, Injector, #1 White       | 1                |     | 11098     | Stuffer Tool Assy, 2510/2750     |
|          |     | 10914-2   | Throat, Injector, #2 Blue        | 1                |     | 13061     | Puller Assy, Port Ring 2510/2750 |
|          |     | 10914-3   | Throat, Injector, #3 Yellow      | 1                |     | 12874     | Hook, Seal                       |
|          |     | 10914-4   | Throat, Injector, #4 Green       |                  |     |           |                                  |
| 31       | 1   | 60480-000 | Injector Assy, 1600 #00, Plastic |                  |     |           |                                  |
|          |     | 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  |                  |     |           |                                  |
| 32       | 1   | 60705-00  | DLFC, Plastic Blank              |                  |     |           |                                  |
|          |     | 60705-06  | DLFC, Plastic 0.60 gpm           |                  |     |           |                                  |
|          |     | 60705-08  | DLFC, Plastic 0.80 gpm           |                  |     |           |                                  |
|          |     | 60705-10  | DLFC, Plastic 1.0 gpm            |                  |     |           |                                  |
|          |     | 60705-12  | DLFC, Plastic 1.2 gpm            |                  |     |           |                                  |
|          |     | 60705-13  | DLFC, Plastic 1.3 gpm            |                  |     |           |                                  |
|          |     | 60705-15  | DLFC, Plastic 1.5 gpm            |                  |     |           |                                  |
|          |     | 60705-17  | DLFC, Plastic 1.7 gpm            |                  |     |           |                                  |

## METER ASSEMBLY

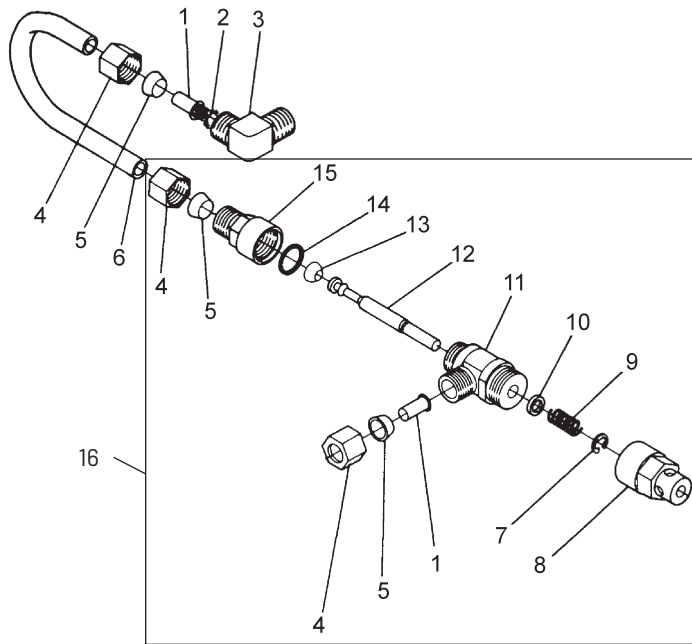


60088 Rev E

| Item No. | QTY     | Part No.             | Description                                                                           |
|----------|---------|----------------------|---------------------------------------------------------------------------------------|
| 1.....   | 4.....  | 12473 .....          | Screw - Meter Cover Assembly, 10-24 x 5/8-inch                                        |
| 2 .....  | 1 ..... | 15659 .....          | Meter Cover Assy. - Ext., Rt. Angle (Not Shown)                                       |
|          |         | ..... 15452 .....    | Meter Cap Assy, 3/4-inch to 2-inch , Std, Rt Ang/90, Plastic Paddle                   |
| 3 .....  | 1 ..... | 13847 .....          | O-ring - Meter Cover Assembly, -137                                                   |
| 4 .....  | 1 ..... | 13509 .....          | Impeller                                                                              |
| 5 .....  | 4.....  | 13314 .....          | Screw - Adapter Clip, 8-18 x 0.6-inch                                                 |
| 6 .....  | 4.....  | 13255 .....          | Adapter Clip                                                                          |
| 7 .....  | 1 ..... | 13821 .....          | Meter Body                                                                            |
| 8 .....  | 4.....  | 13305 .....          | O-ring - Meter Body, -119                                                             |
| 9 .....  | 1 ..... | 14613 .....          | Flow Straightener                                                                     |
| 10.....  | 1 ..... | 60088-180.....       | Meter Assy, 3/4-inch Dual Port, Slip Std, RT Angle/180 Plastic Paddle Wheel, w/clips  |
|          |         | ..... 60089-180..... | Meter Assy, 3/4-inch Dual Port, Slip, EXT, RT Angle/180 Plastic Paddle Wheel, w/clips |
|          |         | ..... 60086-50.....  | Meter Assy, 3/4-inch Dual Port, Slip, Elec, Plas, Pdl, w/clips                        |



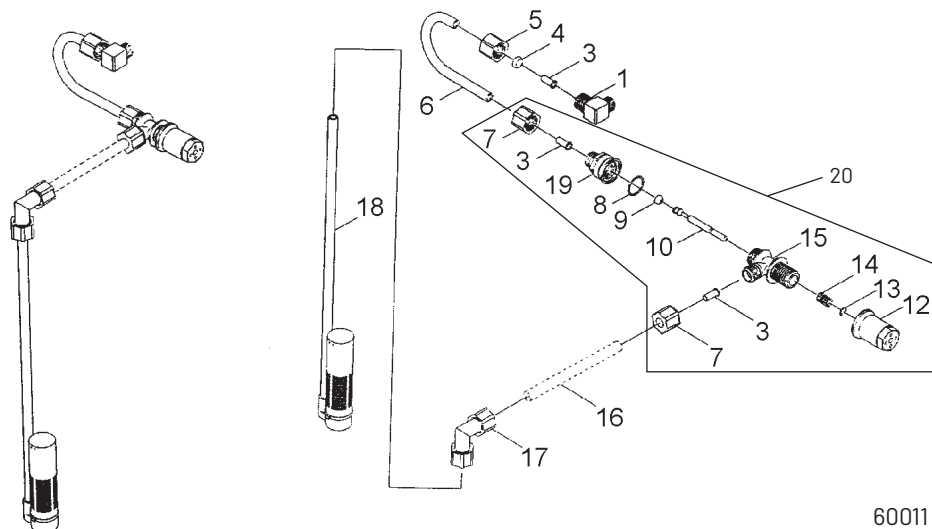
## 1600 BRINE SYSTEM ASSEMBLY



60029 Rev C

| Item No. | QTY    | Part No. | Description                                     | Item No. | QTY    | Part No.  | Description                            |
|----------|--------|----------|-------------------------------------------------|----------|--------|-----------|----------------------------------------|
| 1.....   | 2..... | 10332    | Fitting, Insert, 3/8                            | 12.....  | 1..... | 12552-02  | Brine Valve Stem, 1600, with Seat      |
| 2.....   | 1..... | 12767    | Screen, Brine                                   | 13.....  | 1..... | 12626     | Seat, Brine Valve                      |
| 3.....   | 1..... | 10328    | Fitting, Elbow, 90 Deg. 1/4-inch NPT x 3/8 Tube | 14.....  | 1..... | 11982     | O-ring, -016                           |
| 4.....   | 3..... | 10329    | Fitting, Tube, 3/8 Nut, Brass                   | 15.....  | 1..... | 60020-25  | BLFC, .25 GPM, 1600                    |
| 5.....   | 3..... | 10330    | Fitting, Sleeve, 3/8 Celcon                     |          |        | 60020-50  | BLFC, .50 GPM, 1600                    |
| 6.....   | 1..... | 16508-01 | Tube, Brine Valve, 2850/2900s                   |          |        | 60020-100 | BLFC, 1.0 GPM, 1600                    |
|          |        | 12774    | Tube, Brine Valve, 1500                         | 16.....  | 1..... | 60029-010 | Brine Valve, 1600 Short Stem, 0.25 gpm |
|          |        | 40027    | Tube, Brine Valve, 2510, HWBP                   |          |        | 60029-020 | Brine Valve, 1600 Short Stem, 0.50 gpm |
|          |        | 14428    | Tube, Brine Valve, 1600/1650, NHWBP             |          |        | 60029-030 | Brine Valve, 1600 Short Stem, 1.00 gpm |
|          |        | 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         |          |        |           |                                        |

## 1650 BRINE SYSTEM

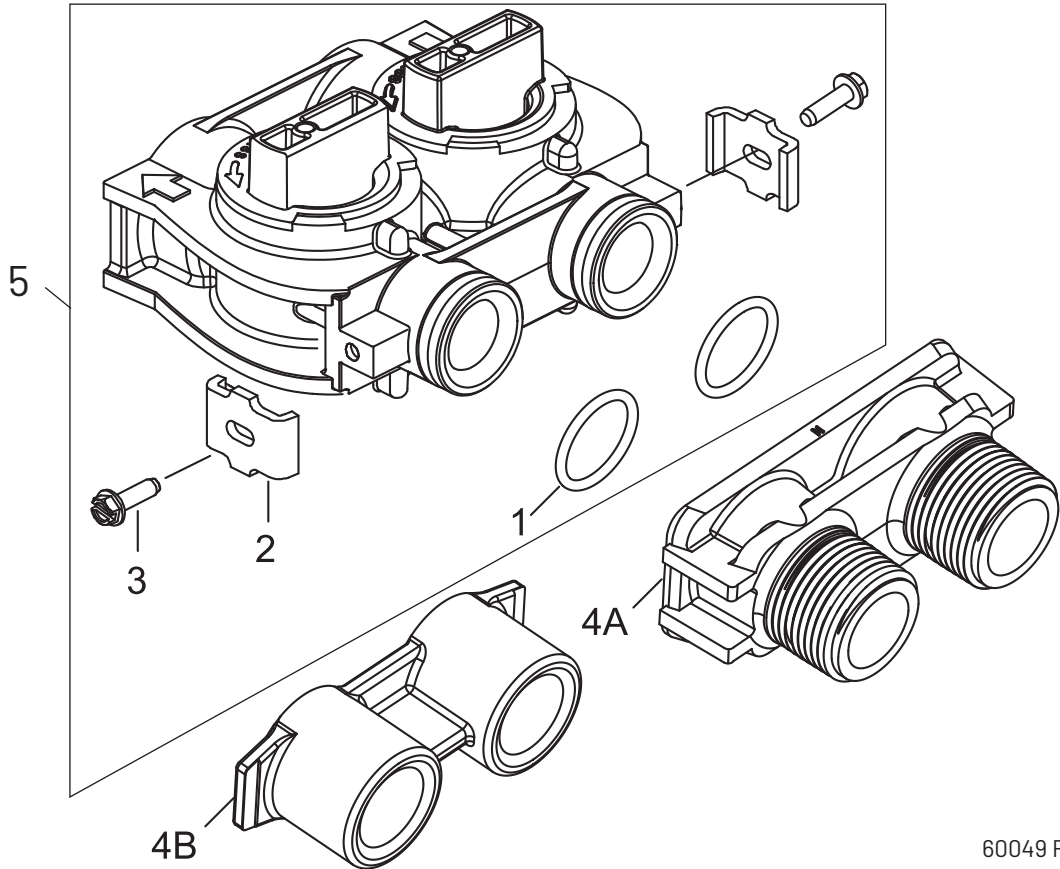


60011 Rev D

| 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          |
|          |        | .....14428 .....    | Tube, Brine Valve, 1600/1650, NHWP     |
|          |        | .....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                         |

| Item No. | QTY    | Part No.                            | Description                                    |
|----------|--------|-------------------------------------|------------------------------------------------|
| 19.....  |        | <b>60010-25 BLFC Assy. (Parts)</b>  |                                                |
|          | 1..... | 17907 .....                         | Housing                                        |
|          | 1..... | 12128 .....                         | .25 GPM Label                                  |
|          | 1..... | 12094 .....                         | .25 Flow Washer                                |
|          | 1..... | 12098 .....                         | Retainer                                       |
|          |        | <b>60010-50 BLFC Assy. (Parts)</b>  |                                                |
|          | 1..... | 17907 .....                         | Housing                                        |
|          | 1..... | 10759 .....                         | .50 GPM Label                                  |
|          | 1..... | 12095 .....                         | .50 Flow Washer                                |
|          | 1..... | 12098 .....                         | Retainer                                       |
|          |        | <b>60010-100 BLFC Assy. (Parts)</b> |                                                |
|          | 1..... | 17907 .....                         | Housing                                        |
|          | 1..... | 10760 .....                         | 1.0 GPM Label                                  |
|          | 1..... | 12097 .....                         | 1.0 Flow Washer                                |
|          | 1..... | 12098 .....                         | Retainer                                       |
| 20.....  |        | <b>60011-010.....</b>               | <b>Brine Valve, 1650, Short Stem, 0.25 gpm</b> |
|          |        | <b>.....60011-020.....</b>          | <b>Brine Valve, 1650, Short Stem, 0.50 gpm</b> |
|          |        | <b>.....60011-030.....</b>          | <b>Brine Valve, 1650, Short Stem, 1.00 gpm</b> |

**BYPASS VALVE ASSEMBLY (PLASTIC)**

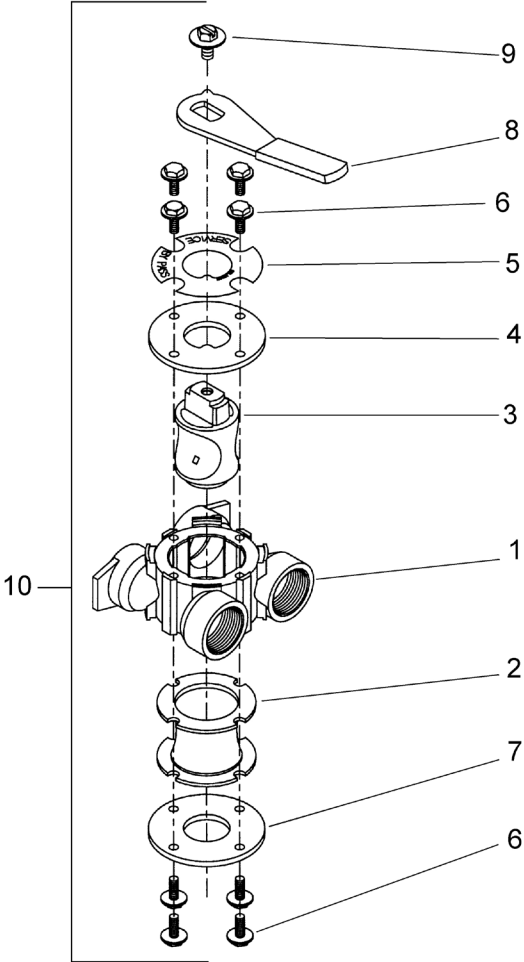


60049 Rev G

| Item No. | QTY    | Part No.             | Description                               |
|----------|--------|----------------------|-------------------------------------------|
| 1.....   | 2..... | 13305 .....          | O-ring, -119                              |
| 2 .....  | 2..... | 13255 .....          | Clip, Mounting                            |
| 3 .....  | 2..... | 13314 .....          | Screw, Slot Ind Hex,<br>8-18 x .60        |
| 4A.....  | 1..... | 18706 .....          | Yoke, 1-inch , NPT, Plastic               |
|          |        | ..... 18706-02 ..... | Yoke, 3/4-inch , NPT, Plastic             |
| 4B.....  | 1..... | 13708-40.....        | Yoke, 1-inch , Sweat                      |
|          |        | ..... 42690 .....    | Yoke, 3/4-inch, Sweat,<br>Brass           |
|          |        | ..... 41027-01 ..... | Yoke, 3/4-inch , NPT, Cast,<br>Machined   |
|          |        | ..... 41026-01 ..... | Yoke, 1-inch , NPT, Cast,<br>Machined, SS |
|          |        | ..... 18706-10.....  | Yoke, 1-inch , BSP, Plastic               |
|          |        | ..... 18706-12.....  | Yoke, 3/4-inch , BSP, Plastic             |
|          |        | ..... 19620-01 ..... | Yoke Assy, 3/4-inch , R/<br>Angle, 90 Deg |
| 5 .....  | 1..... | 60049 .....          | Bypass Plastic                            |
| *        | 2..... | 19228-01 .....       | Adapter Assy, Coupling,<br>w/O-rings      |

\*Not Shown

**BYPASS VALVE ASSEMBLY (METAL)**

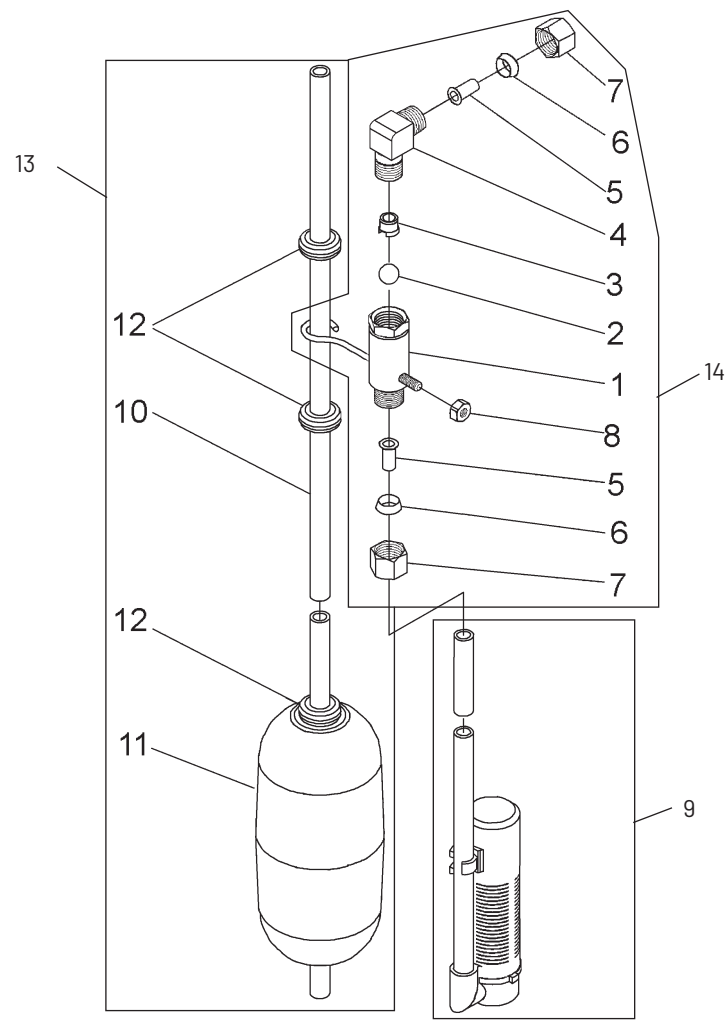


60040SS Rev T  
60041SS Rev U

| Item No. | QTY    | Part No.          | Description                                            |
|----------|--------|-------------------|--------------------------------------------------------|
| 1.....   | 1..... | 40614 .....       | Bypass Body, 3/4-inch                                  |
|          |        | ..... 40634 ..... | Bypass Body, 1-inch , SS                               |
| 2 .....  | 1..... | 14105.....        | Seal, Bypass, 560CD                                    |
| 3 .....  | 1..... | 11972 .....       | Plug, Bypass                                           |
| 4 .....  | 1..... | 11978 .....       | Side Cover                                             |
| 5 .....  | 1..... | 13604-01 .....    | Label                                                  |
| 6 .....  | 8..... | 15727.....        | Screw, 10-24 x 0.5-inch                                |
| 7 .....  | 1..... | 11986 .....       | Side Cover                                             |
| 8 .....  | 1..... | 11979 .....       | Lever, Bypass                                          |
| 9 .....  | 1..... | 11989 .....       | Screw, Hex Head,<br>1/4-14 x 1.5-inch                  |
| 10.....  | 1..... | 60040SS.....      | Bypass Valve, 5600, 3/4-inch<br>NPT Blk Grip Lever, SS |
|          | 1..... | 60041SS.....      | Bypass Valve, 5600, 1-inch<br>NPT Blk Grip Lever, SS   |
| *        | 2..... | 19228-01 .....    | Adapter Assy, Coupling,<br>w/O-rings                   |

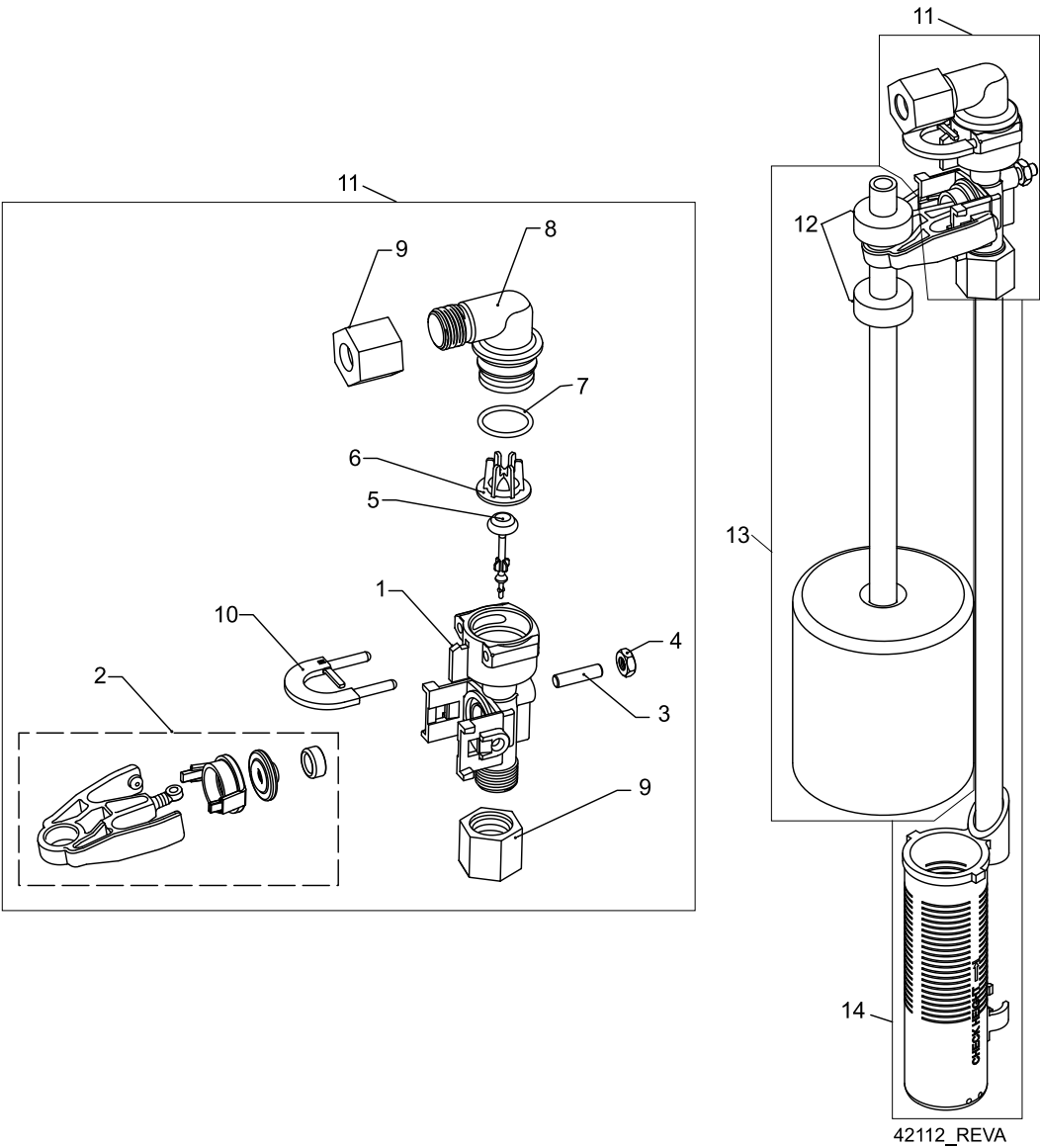
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2300 SAFETY BRINE VALVE



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                       | 10.....  | 1.....         | 10149.....     | Rod, Float, 30-inch                          |
| 6.....   | 1.....        | 10330.....    | Fitting, Sleeve, 3/8 Celcon                | 11.....  | 1.....         | 10700.....     | Float Assy, White                            |
| 7.....   | 1.....        | 10329.....    | Fitting, Tube, 3/8 Nut, Brass              | 12.....  | 3.....         | 10150.....     | Grommet, .30 Dia                             |
| 8.....   | 1.....        | 10186.....    | Nut, Hex, 10-32                            | 13.....  | 1.....         | 60028-30.....  | Float Assy, 2300, 30-inch White              |
| 9.....   | 1.....        | 60002-10..... | Air Check, #500, American Hydro            | 14.....  | 1.....         | 60027-FFA..... | Safety Brine Valve, 2300, Fitting Facing Arm |
| .....    | 60002-11.38   | .....         | Air Check, #500, 11.38 inches Long         | 1.....   | 60027-FFS..... | .....          | Safety Brine Valve, 2300 Fitting Facing Stud |
| .....    | 60002-24..... | .....         | Air Check, #500, 24 inches Long            |          |                |                |                                              |
| .....    | 60002-27..... | .....         | Air Check, #500, 27 inches Long            |          |                |                |                                              |
| .....    | 60002-32..... | .....         | Air Check, #500, 32 inches Long            |          |                |                |                                              |
| .....    | 60002-34..... | .....         | Air Check, #500, 34 inches                 |          |                |                |                                              |



## 2310 SAFETY BRINE VALVE *CONTINUED*

| 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,<br>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-inch Plastic            |
| 10.....  | 1..... | 18312.....       | Retainer, Drain                       |
| 11.....  | 1..... | 60014.....       | Safety Brine Valve Assy, 2310         |
| 12.....  | 2..... | 10150.....       | Grommet, .30 Dia                      |
| 13.....  | 1..... | 60068-8.06.....  | Float Assy, 2310, w/8.06-inch<br>Rod  |
|          |        | 60068-10.5.....  | Float Assy, 2310, w/10.5-inch<br>Rod  |
|          |        | 60068-11.5.....  | Float Assy, 2310, w/11.5-inch<br>Rod  |
|          |        | 60068-20.....    | Float Assy, 2310, w/20-inch<br>Rod    |
|          |        | 60068-30.....    | Float Assy, 2310, w/30-inch<br>Rod    |
| 14.....  | 1..... | 60002-10.....    | Air Check, #500, American<br>Hydro    |
|          |        | 60002-11.38..... | Air Check, #500, 11.38 inches<br>Long |
|          |        | 60002-24.....    | Air Check, #500, 24 inches<br>Long    |
|          |        | 60002-27.....    | Air Check, #500, 27 inches<br>Long    |
|          |        | 60002-32.....    | Air Check, #500, 32 inches<br>Long    |
|          |        | 60002-34.....    | Air Check, #500, 34 inches<br>Long    |
|          |        | 60002-36.....    | Air Check, #500, 36 inches<br>Long    |
|          |        | 60002-48.....    | Air Check, #500, 48 inches<br>Long    |
|          |        | 60002-26.25..... | Air Check, #500, 26.25 inches<br>Long |
|          |        | 60002-33.25..... | Air Check, #500, 33.25 inches<br>Long |

## SEAL & SPACER TOOLS & REPLACEMENT

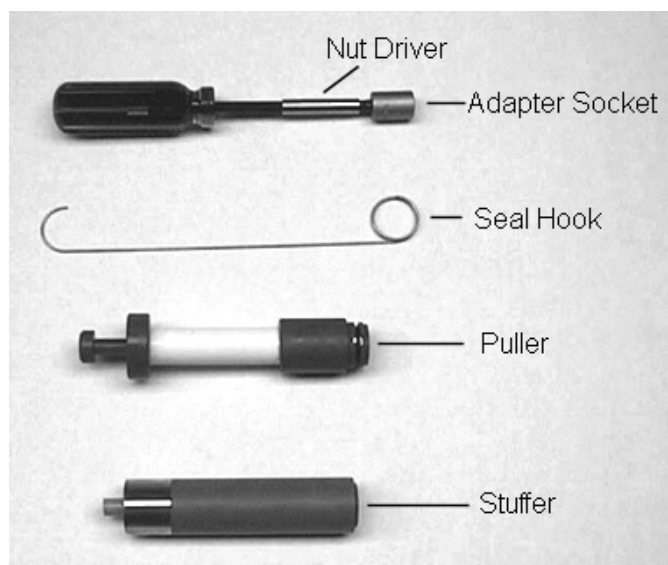


Figure 5

**NOTE:** Photos shown are for reference only for replacing the seal and spacer. Actual valve may be different.

1. Turn off water supply to valve. Next, cycle valve to backwash position, then to service. Now remove electrical plug from outlet.
2. Remove control box cover.
3. Disconnect the brine line from the injector housing to the brine valve (if your unit has timed brine tank fill).
4. Remove the two capscrews that hold the back plate to the valve.
5. Grasp the back plate on both sides and slowly pull end plug and piston assembly out of the valve body (see "Figure 6") and lay aside.

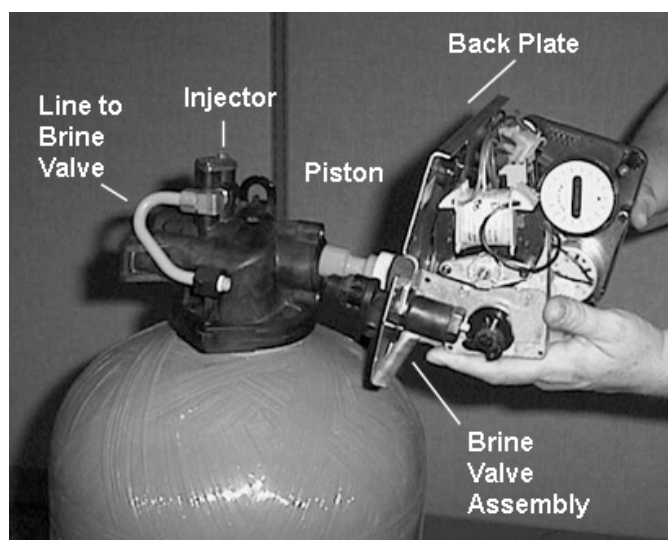


Figure 6

## SEAL & SPACER TOOLS & REPLACEMENT

### CONTINUED

6. Remove the seal first using the wire hook with the finger loop (see "Figure 7").

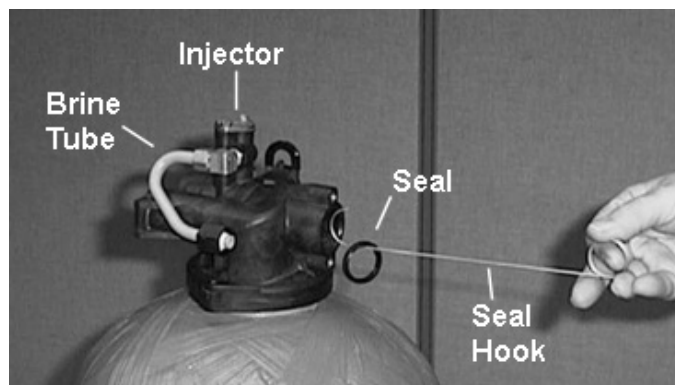


Figure 7

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

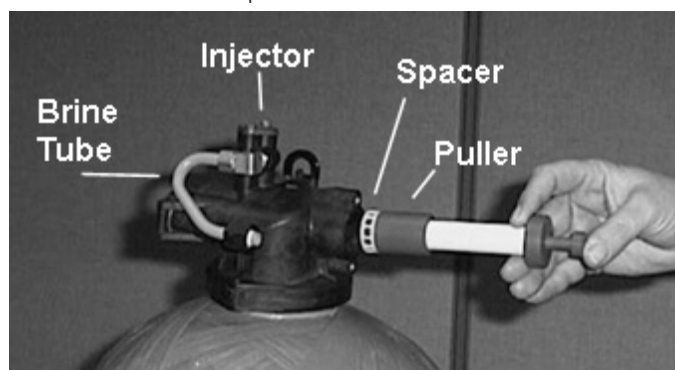


Figure 8

9. Alternately remove the remaining seals and spacers in accordance with steps No. 6 and 8.
10. The last or end spacer does not have any holes for the pins of the spacer tool to engage, therefore if the end spacer does not come out on the first try, try again using the wire hook with the finger loop.

11. To replace seals, spacers and end ring, use special tool with the brass sleeve on one end. This is a double-purpose tool (see Figure 5). The male end acts as a pilot to hold the spacers as they are pushed into the valve body and the brass female end is used to insert the seals into the valve body.

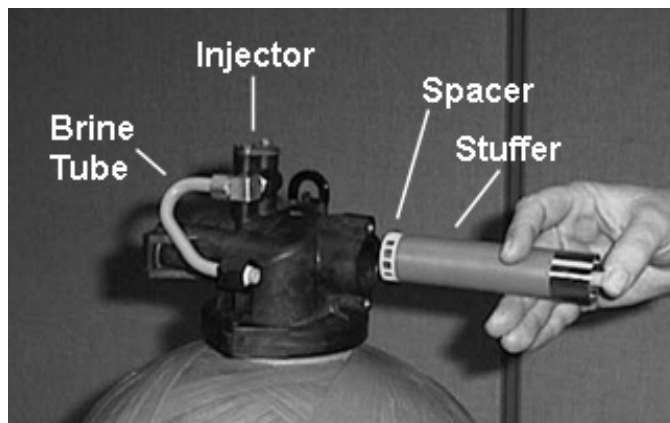


Figure 9

12. To restuff a valve body, first take the end ring (the plastic or brass ring without holes), then with your thumb press the button on the brass sleeve end. The large dia. inner portion is now exposed (see Figure 8). Place the end ring on this pilot with the lip on the end ring facing the tool. Push the tool into the valve body bore until it bottoms. While the tool is in the valve body, take a seal and press it into the inside diameter of the exposed brass female end.
13. Remove the tool, turn it end for end and insert it into the valve body bore. While holding the large dia. of the tool, slide it all the way into the valve body bore until it bottoms. Then push the center button to push the seal of the tool and leave it in place in the valve body.
14. Remove the tool from the valve body and push the center on the brass female end to expose the pilot on the opposite end. Place a spacer on this end and insert the spacer and tool into the valve.

## 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.

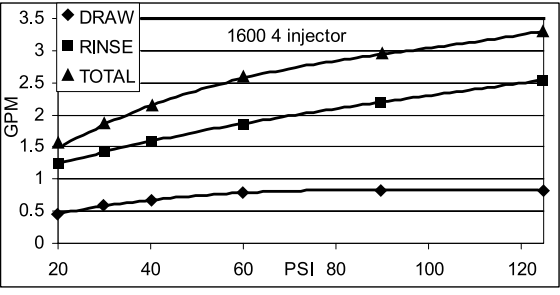
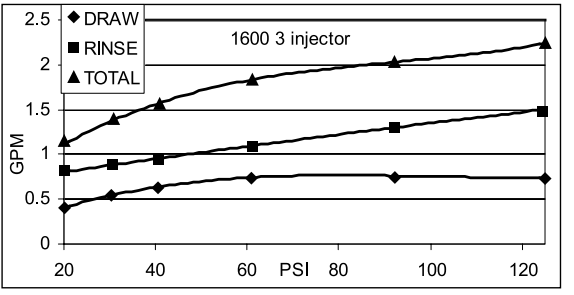
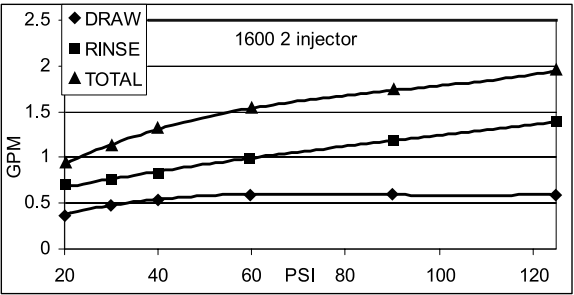
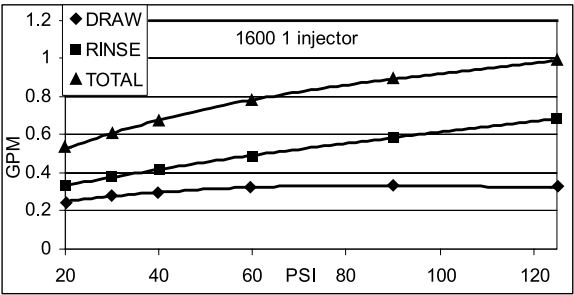
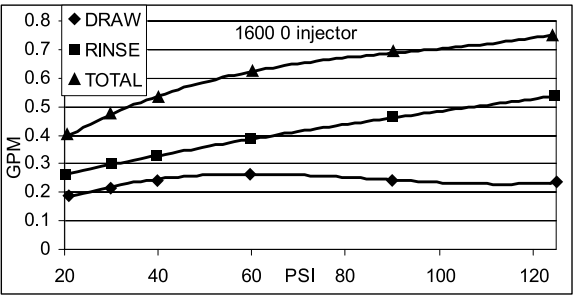
**Correction:** Check meter with meter checker.

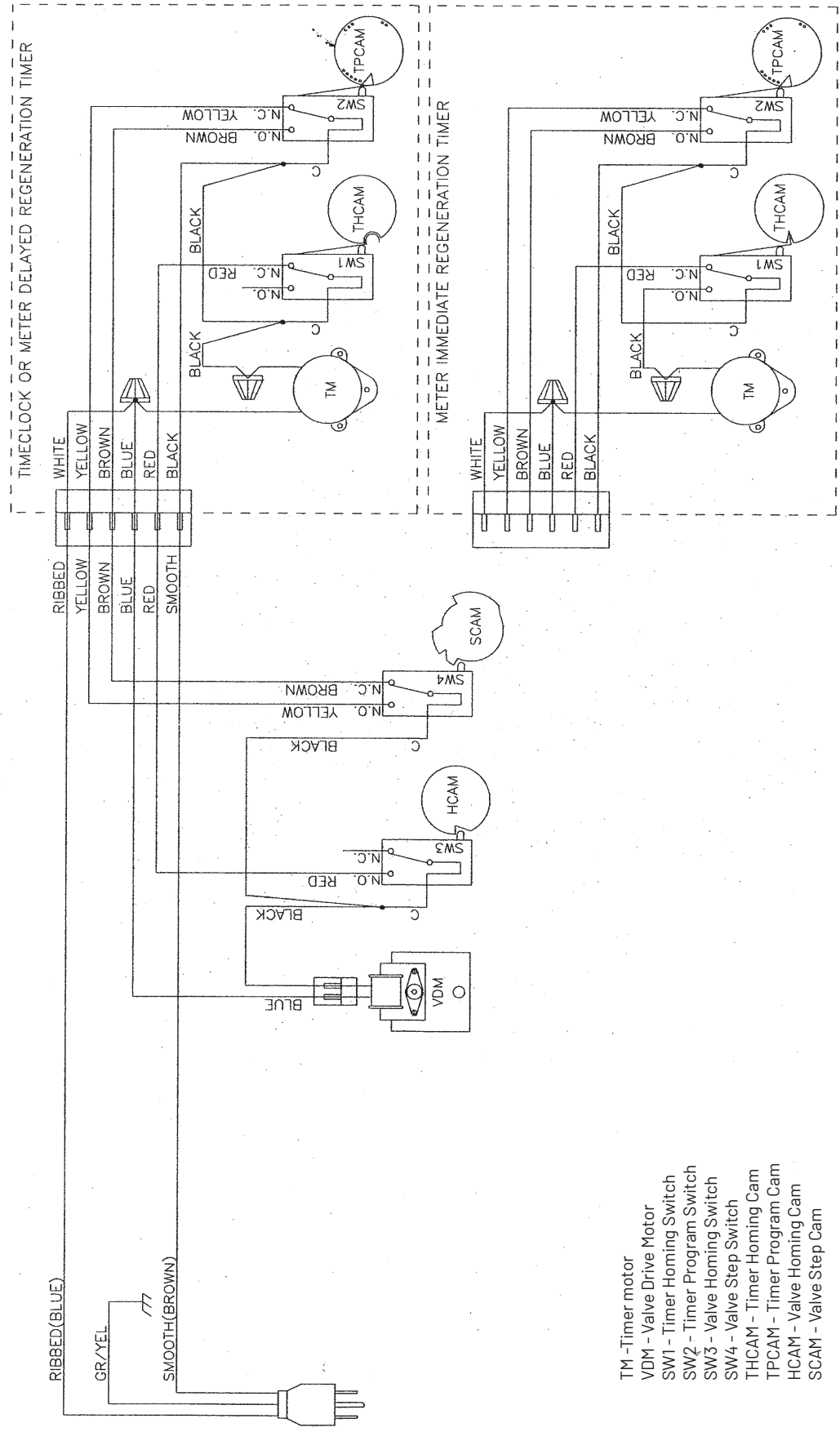


## TROUBLESHOOTING

| 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.                                                                                        |

FLOW DATA & INJECTOR DRAW RATES





NOTE:

1. Single Tank Timeclock, Meter Delayed, or Meter Immediate Regeneration
2. Valve Shown In Service Position.

## SERVICE ASSEMBLIES

---

### 24 Hour Gear Assemblies

|                |                                              |
|----------------|----------------------------------------------|
| 40096-02 ..... | Dial 2AM Regen Assy, Black                   |
| 40096-24 ..... | Dial 12AM Regen Assy, Black                  |
| 60519-02 ..... | Gear Assy, 3200 24 Hour 2 Times/Day          |
| 60519-03 ..... | Gear Assy, 3200, 24 Hour 3 Times/Day         |
| 60519-04 ..... | Gear Assy, 3200, 24 Hour 4 Times/Day         |
| 60519-06 ..... | Gear Assy, 3200, 24 Hour (12:00) 6 Times/Day |

### Brine Line Flow Control (BLFC)

|                |                              |
|----------------|------------------------------|
| 60010-25 ..... | BLFC, 1650, .25 GPM, Plastic |
| 60010-50 ..... | BLFC, 1650, .50 GPM, Plastic |
| 60010-100..... | BLFC, 1650, 1.0 GPM, Plastic |

### Brine Valves

|                |                                                   |
|----------------|---------------------------------------------------|
| 60011-010..... | Brine Valve, 1650, Short Stem, .25 GPM, Less Tube |
| 60011-030..... | Brine Valve, 1650, Short Stem, 1.0 GPM, Less Tube |

### Bypasses

|               |                                  |
|---------------|----------------------------------|
| 60049.....    | Bypass Plastic Assy              |
| 60040SS ..... | Bypass Valve, 5600, 3/4-inch NPT |
| 60041SS ..... | Bypass Valve, 5600, 1-inch NPT   |

### Cam

|                |                           |
|----------------|---------------------------|
| 60160-15 ..... | Drive Cam Assy, STF, Blue |
|----------------|---------------------------|

### Clamp

|            |                           |
|------------|---------------------------|
| 60503..... | Clamp Ring Assembly, 2510 |
|------------|---------------------------|

### Coupling

|            |                             |
|------------|-----------------------------|
| 60510..... | Adapter Coupling Assy, 5600 |
|------------|-----------------------------|

### Drain Line Flow Controls

|                |                                 |
|----------------|---------------------------------|
| 60705-00.....  | DLFC, Plastic, Blank            |
| 60705-06.....  | DLFC, Plastic, .60 GPM          |
| 60705-08.....  | DLFC, Plastic, .80 GPM          |
| 60705-10 ..... | DLFC, Plastic, 1.0 GPM          |
| 60705-12 ..... | DLFC, Plastic, 1.2 GPM          |
| 60705-13.....  | DLFC, Plastic, 1.3 GPM          |
| 60705-15.....  | DLFC, Plastic, 1.5 GPM          |
| 60705-17.....  | DLFC, Plastic, 1.7 GPM          |
| 60705-20.....  | DLFC, Plastic, 2.0 GPM          |
| 60705-24.....  | DLFC, Plastic, 2.4 GPM          |
| 60705-30.....  | DLFC, Plastic, 3.0 GPM          |
| 60705-35.....  | DLFC, Plastic, 3.5 GPM          |
| 60705-40.....  | DLFC, Plastic, 4.0 GPM          |
| 60705-45.....  | DLFC, Plastic, 4.5 GPM          |
| 60705-50.....  | DLFC, Plastic, 5.0 GPM          |
| 60705-60.....  | DLFC, Plastic, 6.0 GPM          |
| 60705-70.....  | DLFC, Plastic, 7.0 GPM          |
| 60705-8.0..... | DLFC, QC x 3/4-inch F, 8.0 GPM  |
| 60705-9.0..... | DLFC, QC x 3/4-inch F, 9.0 GPM  |
| 60705-12 ..... | DLFC, QC x 3/4-inch F, 12.0 GPM |
| 60705-15.....  | DLFC, QC x 3/4-inch F, 15.0 GPM |

### Drives

|                |                                      |
|----------------|--------------------------------------|
| 60050-21 ..... | Drive Assy, 2750, STF, 120V Softener |
|----------------|--------------------------------------|

### Injectors

|               |                                               |
|---------------|-----------------------------------------------|
| 60480-xx..... | 1600 Injector Assy (Specify size of Injector) |
|---------------|-----------------------------------------------|

### Meters

|                 |                                                                            |
|-----------------|----------------------------------------------------------------------------|
| 60088-180 ..... | Meter Assy, 3/4-inch Dual Port, Slip Std, Rt Ang/180 Plastic Paddle w/clps |
| 60089-180 ..... | Meter Assy, 3/4-inch Dual Port, Slip Ext, Rt Ang/180 Plastic Paddle w/clps |

### Piston, Seal, and Spacer Kits

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

### Program Wheels

|                |                                                              |
|----------------|--------------------------------------------------------------|
| 60405-10 ..... | Program Wheel, w/3/4-inch Std Label Set @ 21                 |
| 60405-15 ..... | Program Wheel, w/3/4-inch Std Label w/ People Label Set @ 21 |

### Safety Brine (2300)

|                 |                                                  |
|-----------------|--------------------------------------------------|
| 60028-30 .....  | Float Assy, 2350, 30-inch , White                |
| 60027-FFA ..... | Safety Brine Valve Body, 2300 Fitting Facing Arm |
| 60027-FFS ..... | Safety Brine Valve Body, Fitting Facing Stud     |

### Sales and Service Aids

|             |                              |
|-------------|------------------------------|
| 40097.....  | Literature, 2510, S/Manual   |
| 16510 ..... | Literature, 2510, Spec Sheet |

### Skipper Wheels

|             |                            |
|-------------|----------------------------|
| 14860.....  | Skipper Wheel Assy, 7 Day  |
| 14381 ..... | Skipper Wheel Assy, 12 Day |

### Yokes

|                |                                                                   |
|----------------|-------------------------------------------------------------------|
| 13708-40 ..... | Yoke, 1-inch , Sweat                                              |
| 13708-45.....  | Yoke, 3/4-inch , Sweat                                            |
| 18706.....     | Yoke, 1-inch , NPT, Plastic                                       |
| 18706-20 ..... | Yoke, 3/4-inch , NPT, Plastic                                     |
| 19275 .....    | Yoke, Angle 90 Deg. 3/4-inch , NPT                                |
| 19275-45.....  | Yoke, Angle 90 Deg. 3/4-inch Sweat                                |
| 19620-01.....  | Yoke Assy, 3/4-inch , R/Angle, 90 Deg w/O-rings, Clips and Screws |
| 40636.....     | Yoke, 1-1/4 inch, NPT                                             |
| 40636-49.....  | Yoke, 1-1/4 inch, Sweat                                           |
| 41026-01 ..... | Yoke, 1-inch , NPT, SS                                            |
| 41027-01 ..... | Yoke, 3/4-inch , NPT, Cast, Machd                                 |



For Pentair Fleck Product Warranties visit: [pentair.com/assets/residential-filtration-warranty](https://pentair.com/assets/residential-filtration-warranty)



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