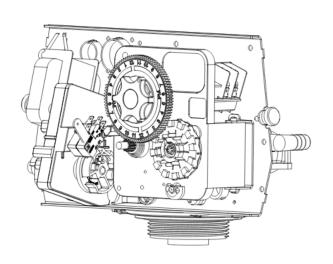


FLECK® 2510 SERVICE MANUAL



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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
- 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

▲ WARNIN 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. 11/2 inch Std Range (625 10,625 gallon setting)
- F. 11/2 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 ofline based on flow.

## 5. Valve Operating Parameters:

Models: 2500, 2510, 2750, 2850 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:

Input Voltage: 120 Volts AC / 60 Hz

Maximum Watts: 30 watts Maximum altitiude: 2000 meters

## 6. Timer Program Settings:

B. Brine and Slow Rinse:M	inutes
C. Rapid Rinse:M	inutes
D. Brine Tank Refill:M	inutes
E. Pause Time:M	inutes
F. Second Backwash:Mi	nutes

7. Drain Line Flow Control:

apm apm

8. Brine Line Flow Controller:

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.

A WARNING: Risk of electric shock. Disconnect power before servicing.

FOR DRY LOCATIONS USE ONLY.

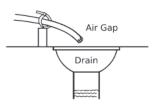
The cover should only be removed during installation set-up and maintenance by a qualified service person.

## **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.

CAUTIO 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.
- Refer to the dimensional drawing for cutting height of the distributor tube. If there is no dimensional drawing, cut the distributor tube flush with the top of the tank.
- Lubricate the distributor o-ring seal and tank o-ring seal.
   Place the main control valve on tank.

## NOTE: Only use silicone lubricant.

- 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.
- 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.
- 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

NOTE: All electrical connections must be connected according to local codes. Be certain the outlet is uninterrupted.



60002 Rev E

Figure 1 Residential Air Check Valve

# START-UP INSTRUCTIONS

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

 Turn the manual 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.

- Position the valve to backwash. Ensure the drain line flow remains steady for 10 minutes or until the water runs clear (see above).
- Position the valve to the brine / slow rinse position. Ensure the unit is drawing water from the brine tank (this step may need to be repeated).
- Position the valve to the rapid rinse position. Check the drain line flow, and run for 5 minutes or until the water runs clear.
- 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.

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.

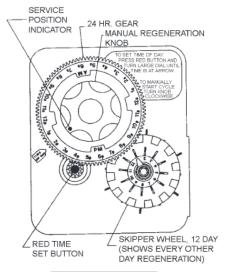
## How To Set The Time Of Day

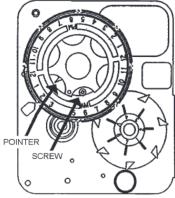
- Press and hold the red button in to disengage the drive gear.
- Turn the large gear until the actual time of day is at the time of day pointer.
- 3. Release the red button to again engage the drive gear.

# How To Manually Regenerate Your Water Conditioner At Any Time

- 1. Turn the manual regeneration knob clockwise.
- This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.
- 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.
- In any event, conditioned water may be drawn after rinse water stops flowing from the water conditioner drain line. How to Adjust Regeneration Time
- 1. Disconnect the power source.
- Locate the three screws behind the manual regeneration knob by pushing the red button in and rotating the 24 hour dial until each screw appears in the cut out portion of the manual regeneration knob.

- 3. Loosen each screw slightly to release the pressure on the time plate from the 24-hour gear.
- Locate the regeneration time pointer on the inside of the 24hour dial in the cut out.
- 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.





3200 ADJUSTABLE REGENERATION TIMER

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.

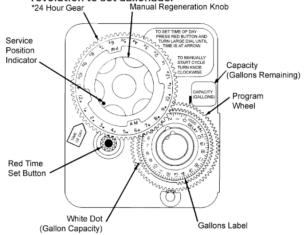
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- 4. Even though it takes three hours for this center knob to complete one revolution, the regeneration cycle of your unit might be set for only one half of this time.
- In any event, conditioned water may be drawn after rinse water stops flowing from 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 αallonaαe.



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

61502-3200 Rev A

Figure 3

# 3200, 3210, 3220, 3230 REGENERATION CYCLE SETTING PROCEDURE

# How To Set The Regeneration Cycle Program

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

### 3200 Series Timers (Figure 4)

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

# **Timer Setting Procedure**

# How To Change The Length Of The Backwash Time

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

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

# How To Change The Length Of Brine And Rinse Time

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

# How To Change The Length Of Rapid Rinse

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

# How To Change The Length Of Brine Tank Refill Time

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

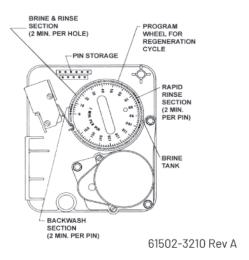
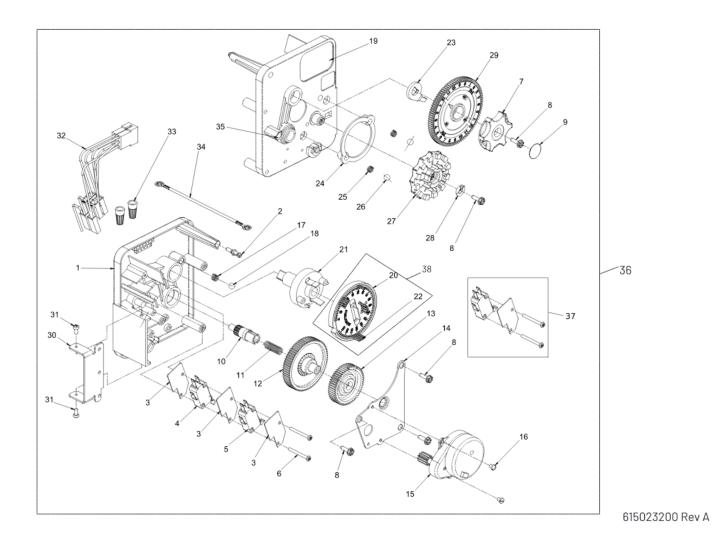


Figure 4

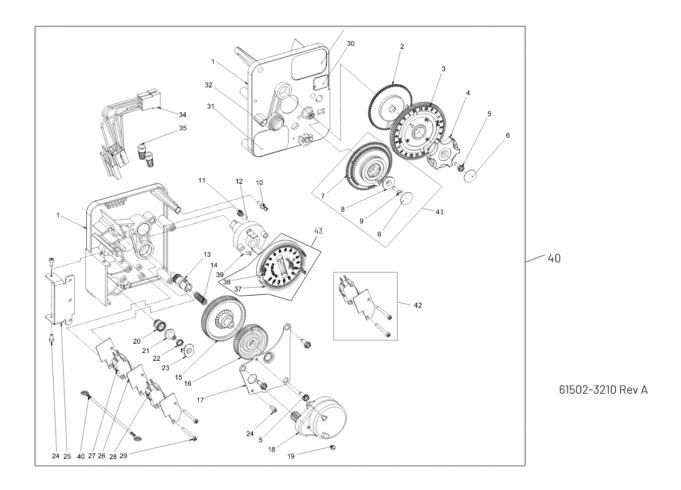


# 3200 TIME CLOCK TIMER ASSEMBLY CONTINUED

Item No.	QTY	Part No.	Description
1	1	13870	Housing, Timer, 3200
2	1	14265	Clip, Sping
3	3	14087	Insulator
4	1	10896	Switch, Micro
5	1	15320	Switch, Micro, Timer
6	2 .	11413	Screw, Pan Hd Mach,
7	1	13886	4-40 x 1-1/8 Knob, 3200
8	5	13296	Screw, Hex Wsh, 6-20 x 1/2
9	1	11999	Label, Button
10	1	13018	Pinion, Idler
11	1	13312	Spring, Idler Shaft
12	1	13017	Gear, Idler
13	1	13164	Gear, Drive
14	1	13887	Plate, Motor Mounting
15	1	18743-1	Motor, 120V, 60Hz, 1/30 RPM
		18752-1	Motor, 100V, 50Hz, 1/30 RPM
		18824-1	Motor, 230V, 50Hz, 1/30 RPM
		18826-1	Motor, 24V, 50Hz, 1/30 RPM
		19659-1	Motor, 24V, 60Hz, 1/30 RPM
			Motor, 230V, 60Hz, 1/30 RPM
16	2	13278	Screw, Fillister Hd
		45.07	6-32 x .156
17			Spring, Detent, Timer
			Ball, 1/4-inch, Delrin
			Label, Caution
			Program Wheel Assy
			Gear, Main Drive, Timer
22	17	41/54	Pin, Spring, 1/16 x 5/8 SS,
0.7	1	13011	Timer Arm, Cycle Actuator
20			Ring, Skipper Wheel
			Spring, Detent, Timer
			Ball, 1/4-inch, SS

Iten	n No.	QΤΥ	Part No.	Description
27		1	14381	Skipper Wheel Assy, 12 Day
			14860	Skipper Wheel Assy, 7 Day
28		1	13014	Pointer, Regeneration
29		1	40096-24	Dial, 12 AM Regen Assy, Black
			40096-02	Dial, 2 AM Regen Assy, Black
30		1	13881	Bracket, Hinger Timer
31		2	11384	Screw, Phil, 6-32 x 1/4 Zinc
32		1	13902	Harness, 3200
33		2	40422	Nut, Wire, Tan
34		1	15354-01	.Wire, Ground, 4 inches
35		1	14007	Label, Time of Day
36		1	*	Complete 3200 Time Clock
37			60320-02	Timer Assembly Switch Kit, 3200/9000 Timer
38			61420-03	Auxiliary, Optional Program Wheel, Gear Assy,
			61420-04	Filter 2 Min Per Pin Program Wheel, Gear Assy,
				Softener, 2 Min Per Pin

<sup>\*</sup>See Powerhead Ordering Guide

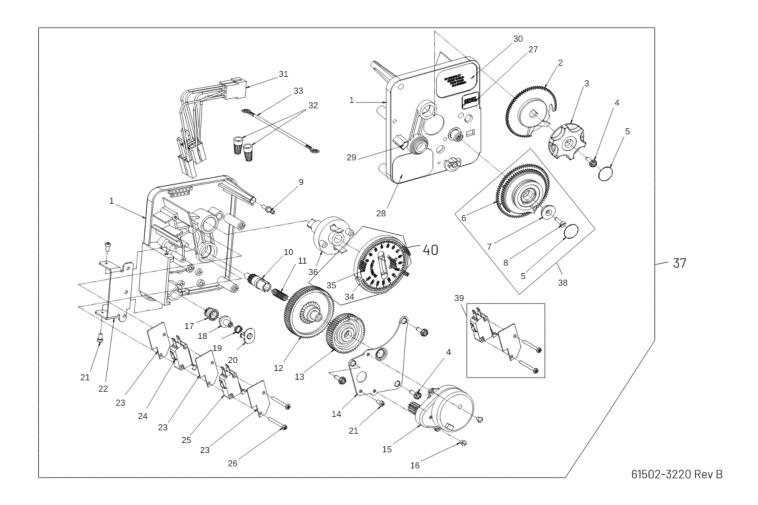


# 3210 METER DELAYED TIMER ASSEMBLY CONTINUED

Item No.	QTY	Part No.	Description
1	1	13870	Housing, Timer, 3200
2	1	13802	Gear, Cycle Actuator
3	1	40096-02	Dial 2 AM Regen Assy, Black
4	1	13886	Knob, 3200
5	4	13296	Screw, Hex Wsh, 6-20 x 1/2
6	2	11999	Label, Button
7	1	13803	Gear, Program Drive Wheel
8	1	13806	Retainer, Program Wheel
9	1	13748	Screw, Flat Head St,
			6-20 x 1/2
10		14265	
			Spring, Detent, Timer
			Ball, 1/4-inch Delrin
		13018	
			Spring, Idler Shaft
		13017	
		13164	
			Plate, Motor Mounting
18	1	18743-1	Motor, 120V, 60Hz 1/30 RPM
		18752-1	Motor, 100V, 50Hz, 1/30 RPM
			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,
	1	17070	6-32 x .156
20			Pinion, Program Wheel Drive
			Clutch, Drive Pinion
			Spring, Meter, Clutch
			Retainer, Clutch Spring
24 25			Screw, Phil, 6-32 x 1/4
		14087	Bracket, Hinge Timer
			Switch, Micro Switch, Micro, Timer
			Switch, Micro, Timer Screw, Pan Hd Mach,
	∠	11410	4-40 x 11/8

Item	No.	QTY	Part No.	Description
30		1	14198	Label, Indicator
31		1	15465	.Label, Caution
32		1	14007	.Label, Time of Day
33		1	.14045	.Label, Instruction
34		1	13902	.Harness, 3200
35		2	40422	Nut, Wire, Tan
36		1	15354-01	.Wire, Ground, 4 inches
37		1	.19210	.Program Wheel Assy
38		17	41754	.Pin, Spring, 1/16 x 5/8 SS,
				Timer
39				Gear, Main Drive, Timer
40		1	*	Complete 3210 Meter Delayed
				Timer Assembly
41			60405-10	Program Wheel, w/3/4-inch
			60405-20	STD Label 0-2,100 gal Program Wheel, w/3/4-inch
			60/.05_11	EXT Label 0-10,000 gal Program Wheel, w/3/4-inch
			00405-11	
			60405-21	STD Metric Label 0-8 m3 Program Wheel, w/3/4-inch
			00700 00	EXT Range 0-40 m3
42				Switch Kit, 3200/9000 Timer
43			61420-03	Auxiliary, Optional Program Wheel, Gear Assy,
				Filter 2 Min Per Pin
			61420-04	Program Wheel, Gear Assy,
				Softener, 2 Min Per Pin

<sup>\*</sup>See Powerhead Ordering Guide



# 3220 METER IMMEDIATE TIMER ASSEMBLY CONTINUED

Item No.	QTY	Part No.	Description
1	1	13870	Housing, Timer
2	1	15431	Gear, Cycle Actuator,
			System #5
3		13886	
			Screw, Hex Wsh, 6-20 x 1/2
			Label, Button
6	1	13807	Gear, Program Drive Wheel
7	1	13806	Retainer, Program Wheel
8	1	13748	Screw, Flt Hd St, 6-20 x 1/2
9	1	14265	Spring Clip
			Pinion, Idler
11	1	18563	Idler Shaft Spring
12	1	13017	Gear, Idler
13	1	13164	Drive Gear
14	1	13887	Plate, Motor Mounting
15	1	18743-1	Motor, 120V, 60 Hz, 1/30 RPM
		18752-1	Motor, 100V, 50Hz, 1/30 RPM
		18824-1	Motor, 230V, 50Hz, 1/30 RPM
		18826-1	Motor, 24V, 50Hz, 1/30 RPM
		19659-1	Motor, 24V, 60Hz, 1/30 RPM
		19660-1	Motor, 230V, 60Hz, 1/30 RPM
16	2	13278	Screw, SItd 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
21			Label, Indicator
			Label, Caution
			Label, Time of Day
			Label, Instruction
			Harness, 3220
			Nut, Wire, Tan
33	1	15354-01	Wire, Ground, 4 inches

Item	-	Part No.	Description
34	 1	19210-05	.Program Wheel Assembly,
35	 17	.41754	9000/3230 Pin, Spring, 1/16 x 5/8
36	 1	15055	Stainless Steel, Timer Gear, Main Drive
37	 1	*	.Complete 3220 Meter
38	 	.60405-10	Immediate Timer Assy Program Wheel, w/3/4-inch
		60405-20	STD Label 0-2,100 gal Program Wheel, w/3/4-inch
		60405-11	EXT Label 0-10,000 gal Program Wheel, w/3/4-inch
		60405-21	STD Metric Label 0-8 m3 Program Wheel, w/3/4-inch
39	 	.60320-02	EXT Range 0-40 m3 .Switch Kit, 3200/9000 Timer Auxiliary, Optional
40	 •••••	.61420-06	Program Wheel, Gear Assy, Softener Immediate 2 Min Per
		61420-42	Pin Program Wheel, Gear Assy, Filter Immediate 2 Min
			Per Pin

<sup>\*</sup>See Powerhead Ordering Guide

# 2510 SXT VALVE

Item No.	<b>QTY</b> 1	Part No251006-001	<b>Description</b> 2510, SOF, DNF, CLK, SXT-, 24-60, CW 2-, .50, LES, NA2, 1650, HWBP
		251006-002	2510, SOF, DNF, M34, SXT-, 24-60, CW 1–, .50, LES, NA2, 1600, HWBP
		251006-004	2510, S0F, DNF, M34, SXT-, 24-60, CW 1–, .50, LES, NA2, 1650, HWBP
		251006-005	2510, S0F, DNF, M34, SXT-, 24-60, CW 1–, .50, LES, NA2, 1600, HWBP
		251006-006	2510, SOF, DNF, M34, SXT-, 24-60, CW 1–, .50, LES, NA2, 1600, HWBP
		251006-003	2510, FIL, DNF, CLK, SXT-, 24-60, CW BWF, BWF, LES, NA2, BWF-, HWBP

# **2510 MANUAL VALVE**

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

# 2510 ELECTROMECHANICAL SOFTENER METER

Item No.	QΤΥ	Part No.	Description	
1	1	251002-001	2510, SOF, DNF, M34, MDEL, 12060, CW 1–, .50, LES, NA2, 1650, HWBP	
		251002-002	2510, S0F, DNF, M34, MDEL, 12060, CW 1—, .50, LES, NA2, 1650, HWB,	
		251002-003	2510, SOF, DNF, M34, MDEL, 12060, CW 2PV50, 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, CW 1—, .50, LES, NA2, 1650, HWBP
		251001-006	. 2510, SOF, DNF, CLK, 12DA, 12060, CW 1—, .50, LES, NA2, 1650, HWBP
		251001-007	2510, SOF, DNF, CLK, 12DA, 12060,

# 2510 ELECTROMECHANICAL FILTER TIME CLOCK

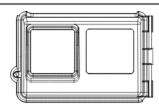
Item No.	QTY	Part No.	Description
1	1	251001-001	2510, FIL, DNF, CLK, 12DA, 12060, CW BWF, BWF, LES, NA2, BWF-, HWBP
		251001-003	. 2510, FIL, DNF, CLK, 12DA, 12060, CW BWF, BWF, LES, NA2, BWF-, HWBP
		251001-008	. 2510, FIL, DNF, CLK, 12DA, 12060, CW BWF, BWF, LES, NA2, BWF-, NWBP
		251000-001	. 2510,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

 ${\bf NOTE:} \ \ \, {\bf Above\ part\ numbers\ DO\ NOT\ include\ the\ following\ parts.}$ 

Cover Bypass Assembly Yoke Assembly DLFC with Retainer Flow Washers

See accessory page for options.

2510 VALVE ACCESSORIES				
Covers				
	Cover Assy, Environmental, Black			
00219-02				
00010 10	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			
Bypasses				
60041SS	1" Bynass SS NPT			
	3/4" Bypass, SS, NPT			
60049				
00049	bypass, Flastic			
V-1				
Yokes				
	Yoke Assy, 3/4", r/angle, 90 deg.			
	1" Yoke, Plastic NPT			
18706-10				
18706-02	3/4" Yoke, Plastic NPT			
18706-12	3/4" Yoke, Plastic BSP			
13708-40				
41026-01				
42690				
41027-01				
41027-01	3/4 TOKE, 55, NPT			
Western				
Washers				
	Washer, Flow, 0.6 GPM			
	Washer, Flow, 0.8 GPM			
12085	Washer, Flow, 1.2 GPM			
19150	Washer, Flow, 1.3 GPM			
12086	Washer, Flow, 1.5 GPM			
	Washer, Flow, 2.0 GPM			
	Washer, Flow, 2.4 GPM			
	Washer, Flow, 3.0 GPM			
	Washer, Flow, 3.5 GPM			
	Washer, Flow, 4.0 GPM			
	Washer, Flow, 4.5 GPM			
	Washer, Flow, 5.0 GPM			
	Washer, Flow, 6.0 GPM			
12408	Washer, Flow, 7.0 GPM			
Drain Elbows				
19699	1/2" Drain Elbow, 45			
	5/8" Drain Elbow, 90			
101211111111111111111111111111111111111				
Hose Barbs				
	1/2" Straight Hose Barb			
13308-01	5/8" Straight Hose Barb			
Collectors				
18280				
	Top Collector, 1.050 Wide			
18280-02	Top Collector, 1.050 Narrow			
	-			
DLFC				
	DLFC, Plastic, Blank			
	DLFC, QC x 3/4"F, 8.0 GPM			
60706-0.0	DLFC, QC x 3/4 F, 8.0 GPM			
	DI FC 0C v 3/4 F, 9.0 GPM			



COVER, ENVIRONMENTAL



COVER, DESIGNER



**BYPASS** 



YOKE



WASHER



DRAIN ELBOW



HOSE BARBS

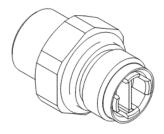


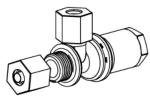
COLLECTOR

DLFC



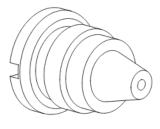
ZOIO VALVE GO	2510 VALVE CONVERSION ASSEMBLIES			
BLFC				
60010-25	BLFC, 1650, .25 GPM, Plastic			
	(0.75 lbs NaCl/min)			
60010-50	BLFC, 1650, .50 GPM, Plastic			
	(1.5 lbs NaCl/min)			
60010-100	BLFC, 1650, 1.0 GPM, Plastic			
	(3 lbs NaCl/min)			
	BLFC, .25 GPM 1600			
	BLFC, .50 GPM 1600 BLFC, 1.0 GPM 1600			
60020-100	BLFC, 1.0 GFM 1000			
Brine Valves				
60011	Brine Valve, 1650, Less BLFC			
60011-000	Brine Valve, 1650, Short Stem,			
	0.125 GPM Less Tube			
60011-010	Brine Valve, 1650, Short Stem,			
	0.25 GPM Less Tube			
60011-020	Brine Valve, 1650, Short Stem,			
00011 070	0.50 GPM Less Tube			
	Brine Valve, 1650, Short Stem, 1.0 GPM Less Tube			
60029	Brine Valve, 1650, Short Stem,			
00020	Brass, Less BLFC			
60029-01	Brine Valve, 1600, Short Stem,			
	Less BLFC, Less Sm Parts			
60029-010	Brine Valve, 1600, Short Stem, 0.25 GPM			
	Brine Valve, 1600, Short Stem, 0.50 GPM			
60029-030	Brine Valve, 1600, Short Stem, 1.0 GPM			
Injector Nozzles				
	Nozzle, Injector, #0, Red (8" Tank)			
	Nozzle, Injector, #00, Violet (7" Tank)			
	Nozzle, Injector, #000, Brown (6" Tank)			
10913-1	Nozzle, Injector, #1, White (9" & 10" Tank)			
10913-2	Mozzla Injector #2 Dluc (12" Topk)			
10913-3				
	Nozzle, Injector, #3, Yellow (13" Tank)			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank) Nozzle, Injector, #4, Green (14" Tank)			
10913-4 10913BLK	Nozzle, Injector, #3, Yellow (13" Tank) Nozzle, Injector, #4, Green (14" Tank) Nozzle, Injector, Black (Filter)			
10913-4 10913BLK 12973-0	Nozzle, Injector, #3, Yellow (13" Tank) Nozzle, Injector, #4, Green (14" Tank) Nozzle, Injector, Black (Filter) Nozzle, Injector, #0, PVC			
10913-4 10913BLK 12973-0 12973-1	Nozzle, Injector, #3, Yellow (13" Tank) Nozzle, Injector, #4, Green (14" Tank) Nozzle, Injector, Black (Filter) Nozzle, Injector, #0, PVC Nozzle, Injector, #1, PVC			
10913-4 10913BLK 12973-0 12973-1 12973-2	Nozzle, Injector, #3, Yellow (13" Tank) Nozzle, Injector, #4, Green (14" Tank) Nozzle, Injector, Black (Filter) Nozzle, Injector, #0, PVC Nozzle, Injector, #1, PVC Nozzle, Injector, #2, PVC			
10913-4 10913BLK 12973-0 12973-1 12973-2 12973-3	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVC			
10913-4 10913BLK 12973-0 12973-1 12973-2 12973-3	Nozzle, Injector, #3, Yellow (13" Tank) Nozzle, Injector, #4, Green (14" Tank) Nozzle, Injector, Black (Filter) Nozzle, Injector, #0, PVC Nozzle, Injector, #1, PVC Nozzle, Injector, #2, PVC			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVC			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVC			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #4, PVC			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #4, PVCThroat, Injector, #0, Red (8" Tank)Throat, Injector, #00, Violet (7" Tank)Throat, Injector, #000, Brown (6" Tank)			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #4, PVCThroat, Injector, #0, Red (8" Tank)Throat, Injector, #00, Violet (7" Tank)Throat, Injector, #000, Brown (6" Tank)Throat, Injector, #1, White (9" & 10" Tank)			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #4, PVCThroat, Injector, #0, Red (8" Tank)Throat, Injector, #00, Violet (7" Tank)Throat, Injector, #1, White (9" & 10" Tank)Throat, Injector, #2, Blue (12" Tank)			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #4, PVCThroat, Injector, #0, Red (8" Tank)Throat, Injector, #00, Violet (7" Tank)Throat, Injector, #000, Brown (6" Tank)Throat, Injector, #1, White (9" & 10" Tank)Throat, Injector, #2, Blue (12" Tank)Throat, Injector, #3, Yellow (13" Tank)			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #4, PVCThroat, Injector, #0, Red (8" Tank)Throat, Injector, #000, Brown (6" Tank)Throat, Injector, #1, White (9" & 10" Tank)Throat, Injector, #2, Blue (12" Tank)Throat, Injector, #3, Yellow (13" Tank)Throat, Injector, #4, Green (14" Tank)			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #0, Red (8" Tank)Throat, Injector, #00, Violet (7" Tank)Throat, Injector, #000, Brown (6" Tank)Throat, Injector, #1, White (9" & 10" Tank)Throat, Injector, #2, Blue (12" Tank)Throat, Injector, #3, Yellow (13" Tank)Throat, Injector, #4, Green (14" Tank)Throat, Injector, #0, PVC			
10913-4	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #4, PVCThroat, Injector, #0, Red (8" Tank)Throat, Injector, #000, Brown (6" Tank)Throat, Injector, #1, White (9" & 10" Tank)Throat, Injector, #2, Blue (12" Tank)Throat, Injector, #3, Yellow (13" Tank)Throat, Injector, #4, Green (14" Tank)			
10913-4 10913BLK 12973-0 12973-1 12973-2 12973-3 12973-4 Injector Throats 10914-0 10914-0 10914-0 10914-1 10914-2 10914-3 10914-4 12974-0 12974-1 12974-2 12974-3	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #0, Red (8" Tank)Throat, Injector, #00, Violet (7" Tank)Throat, Injector, #000, Brown (6" Tank)Throat, Injector, #1, White (9" & 10" Tank)Throat, Injector, #2, Blue (12" Tank)Throat, Injector, #3, Yellow (13" Tank)Throat, Injector, #4, Green (14" Tank)Throat, Injector, #0, PVCThroat, Injector, #1, PVCThroat, Injector, #2, PVCThroat, Injector, #3, PVC			
10913-4 10913BLK 12973-0 12973-1 12973-2 12973-3 12973-4 Injector Throats 10914-0 10914-0 10914-0 10914-1 10914-2 10914-3 10914-4 12974-0 12974-1 12974-2 12974-3	Nozzle, Injector, #3, Yellow (13" Tank)Nozzle, Injector, #4, Green (14" Tank)Nozzle, Injector, Black (Filter)Nozzle, Injector, #0, PVCNozzle, Injector, #1, PVCNozzle, Injector, #2, PVCNozzle, Injector, #3, PVCNozzle, Injector, #4, PVCNozzle, Injector, #0, Red (8" Tank)Throat, Injector, #00, Violet (7" Tank)Throat, Injector, #000, Brown (6" Tank)Throat, Injector, #1, White (9" & 10" Tank)Throat, Injector, #2, Blue (12" Tank)Throat, Injector, #3, Yellow (13" Tank)Throat, Injector, #4, Green (14" Tank)Throat, Injector, #0, PVCThroat, Injector, #1, PVCThroat, Injector, #2, 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
	Label, 26K
14180	Label, 28K
13962	Label, 30K
14048	Label, 32K
13971	Label, 36K
14073	Label, 40K
13974	Label, 45K
14239	Label, 48K
	Label, 50K
14034	Label, 60K
14183	Label, 70K



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

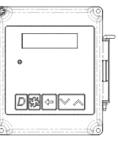
15495	Meter Cable, 13.87"
15307	Tube, Cable Guide, 2750
60088-180	.Meter Assy, 3/4" Dual Port, Slip, Std,
	Rt Ang/180, Plas, Pdl, w/clps
60089-180	.Meter Assy, 3/4" Dual Port, Slip, Ext,
	Rt Ang/180, Plas, Pdl, w/clps
60086-50	.Meter Assy, 3/4" Dual Port, Slip Elec,
	Plas, Pdl, w/clps
19121-01	.Meter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



LABEL



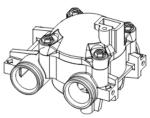
**TIMERS, 3200** 



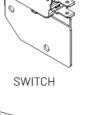
TIMER ASSY, XT



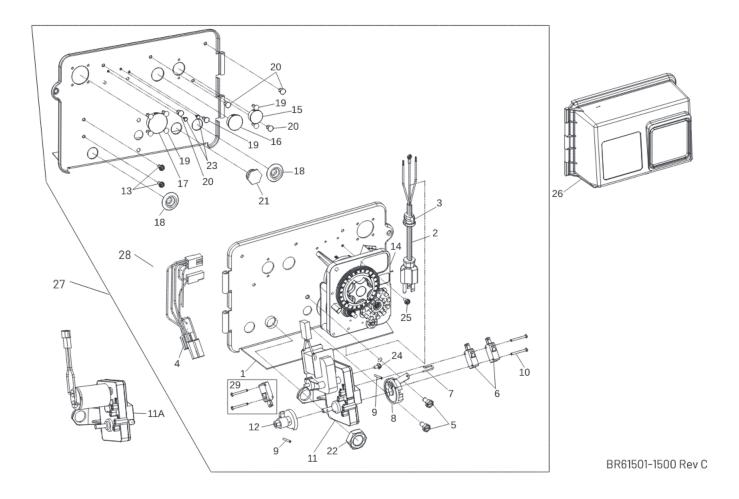
TIMER ASSY, NXT



METER ASSY, PADDLE



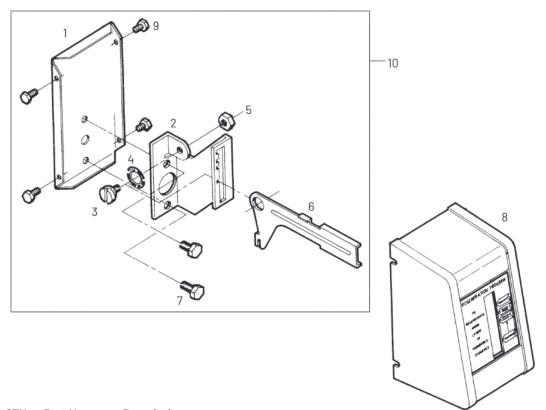




# POWERHEAD ASSEMBLY (ENVIRONMENTAL) CONTINUED

Item No.	ОТY	Part No.	Description
1	1	18697-15	Backplate, Hinged
2	1	11838	Power Cord, 6-feet, North
		19303-01	American, Flat Power Cord, 6-feet,
		19885-01	Austrailian Power Cord, 6-feet,
		11545-01	Japanese Power Cord, 6-feet,
			European
			Strain Relief, Cord Harness, Drive Designr/
5	2	10231	Envirmtl Screw, Slot Hex
6	2	10218	1/4-20 x 1/2 35 in-lbs ±20% Switch, Micro
7	1	10909	Pin, Connecting Rod Spring
8	1	60160-15	Drive Cam Assy, STF, Blue,
9	2	10338	2900 Pin, Roll, 3/32 x 7/8
-	2	14923	Screw, Pan Hd MACH, 4-40 x
11	1	41543	15.0 in-lbs ±10% Motor, Drive, 115V/60 Hz
11			Motor, Drive, 220V,
11A ·····			50-60Hz, SP, Fam 1 Motor, Drive, 24 VAC/DC,
IIA			50-60 Hz, Fam 1 Cam, Shut-off Valve
12			Screw, Hx Wash Head,
			8 x 3/8 20 in-lbs ±20% 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
22	1	10269	(Used on Filter Valves) Nut, Jam, 3/4-16 (Used on Filter Valves)

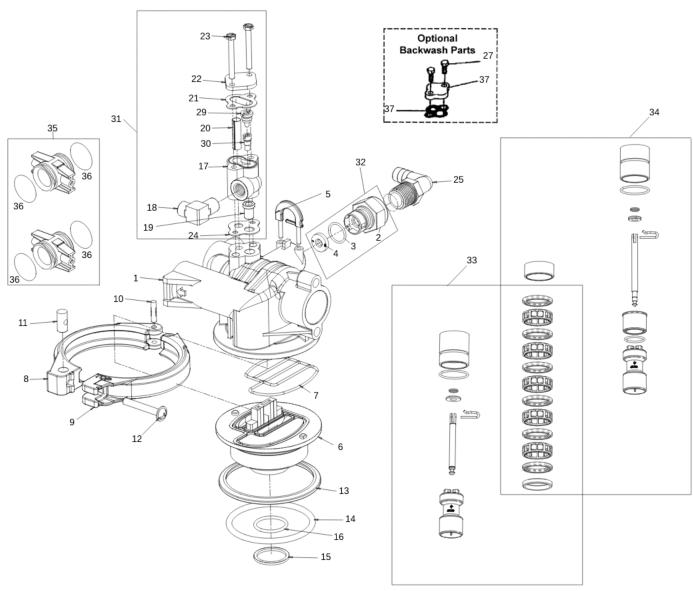
Item N	lo.	ОТY	Part No.	<b>Description</b> Wrench Tighten
23		2	41581	Plug, Hole .125 Dia, White
24		1	10872	Screw, Hex WSH, 8-32 x 5/16
25		1	14202-01	20 IN-LBS ±20% Screw, Hex Washer #8-32 x
26		1	60219-02	5/16 Hand Tighten Cover Assy, Environmental,
			60219-12	Black, Clear Window Cover Assy, Environmental,
27 ·		1	*	Black, Black Window Powerhead Assembly
28		1	60050-23	Drive Motor Assy, 24 VAC/DC,
			60050-21	50-60 Hz FAM 1 Drive Motor Assy, 115V/60 Hz
			60050-22	Drive Motor Assy, 220V, 50-60
29			60320-12	Hz SP FAM1 Switch Kit, 1500-2850 Drive Motor
Not Sh	nown	:		
		1	15441	Cable Guide Assy, 2510
		1	.15495	.Meter Cable, 13.87 inches
*See P	owe	head 0	rdering Guide	



60409 Rev A

Iter	m No.	QTY	Part No.	Description	
1		1	12593	Backplate, Manual	
2		1	12592	Bracket, Lever Position	
3		1	12596	Screw, Spec Mach,	
4		1	12707	1/4 - 20 x 1/2 Washer, Spring	
5		1	11235	Nut, Hex, 1/4 - 20, Mach	
6		1	12594	Screw, Zinc Lever, Valve Position	
7		2	10231	Screw, Slot Hex,	
8		1	60224-32	1/4 - 20 x 1/2 18-8 SS Cover Assy, Manual, Filter	
		1	60224-33	Cover Assy, Manual,	
9		4	10300	Softener Screw, Slot Hex Wsh, 8-18 x	
10			60409	3/8 Type "B" RC44-47 Powerhead Assy, Manual	
Not	Show	n:			
	110909Pin, Link				

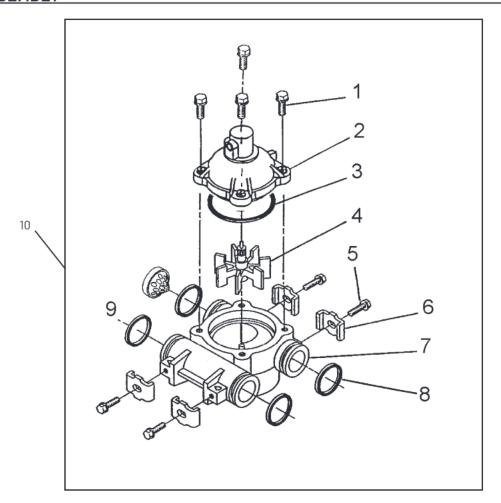
20 • FLECK 2510 Service Manual



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Iten	n No.	QTY	Part No.	Description	Iten	ı 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	0-ring, -121
3		1	11183	0-ring, -017	17		1	17776	Body, Injector, 1600
4		1	12408	Washer, Flow, 7.0 GPM	18		1	10328	Fitting, Elbow, 90 Deg.
5		1	18312	Retainer, Drain					1/4-inch NPT x 3/8-inch Tube
6		1	19322	Adapter Base, 2510	19		1	16221	Disperser, Air
7		1	19936	Seal, 2510, Base	20		1	10227	Screen, Injector
8		1	19899	Clamp, Female, 2510	21		1	10229	Gasket, Injector Cap, 1600
9		1	19900	Clamp, Male, 2510	22		1	11893	Cap, Injector, SS
10		1	40000	Pin, Hinge, Clamp	23		2	10692	Screw, Slot Hex Hd,
11		1	19998	Pivot, Clamp, 2510					10-24 x 1-5/8-inch
12				Screw, Comb Hd, 114-20,	24		1	14805	Gasket, Injector Body,
13		1	19197	2-inch Ring, Slip	25		1	12338	1600/1700 Fitting, Elbow, 90 Deg.
14		1	18303	0-ring, -336					

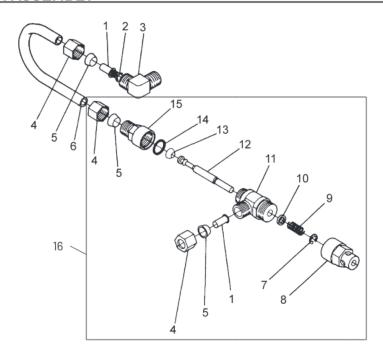
Item	No.	ОТY	Part No.	Description	Item	No.	QTY	Part No.	Description
				1/2-inch NPT x 1/2-inch Barb				60705-20	DLFC, Plastic 2.0 gpm
26		1	11893	Cap, Injector, Stainless				60705-24	DLFC, Plastic 2.4 gpm
				Steel				60705-30	DLFC, Plastic 3.0 gpm
				Cap, Injector, Brass				60705-35	DLFC, Plastic 3.5 gpm
27		1	15137	Screw, Hex Wsh Mach,				60705-40	DLFC, Plastic 4.0 gpm
		1	10757	10-24 x 3/8				60705-45	DLFC, Plastic 4.5 gpm
28				Spacer, End				60705-50	DLFC, Plastic 5.0 gpm
29				Nozzle, Injector, #0, PVC				60705-60	DLFC, Plastic 6.0 gpm
				Nozzle, Injector, #1, PVC				60705-70	DLFC, Plastic 7.0 gpm
				Nozzle, Injector, #2, PVC				60706-8.0	DLFC, QC x 3/4-inch F,
				Nozzle, Injector, #3, PVC					8.0 gpm
				Nozzle, Injector, #4, PVC Nozzle, Injector, #000				60706-9.0	DLFC, QC x 3/4-inch F,
			10913-000 .	Brown				60706_10	9.0 gpm DLFC, QC x 3/4-inch F,
			10913-00	Nozzle, Injector, #00 Violet				60700-10	
				Nozzle, Injector, #0 Red				60706-12	10 gpm DLFC, QC x 3/4-inch F,
				Nozzle, Injector, #1 White					12 apm
				Nozzle, Injector, #2 Blue				60706-15	DLFC, QC x 3/4-inch F,
				Nozzle, Injector, #3 Yellow				00700 00	15 gpm
			10913-4	Nozzle, Injector, #4 Green				60706-20.	DĹFC, QC x 3/4-inch F,
30		1	12974-0	Throat, Injector, #0, PVC	33		1 6	31670-00	20 gpm Piston Kit, 2510/2750
			12974-1	Throat, Injector, #1, PVC	00				Piston Kit, 2750, Hot Water
			12974-2	Throat, Injector, #2, PVC	7.				
			12974-3	Throat, Injector, #3, PVC	34		.1	61670-01	.Piston Kit, 2510/2750, NHWBP
			12974-4	Throat, Injector, #4, PVC	35		2 .	19228-01.	Adapter Assy, Coupling
			10914-000 .	Throat, Injector, #000	00				w/0-ring
				Brown	36		4	13305	0-ring, -119
				Throat, Injector, #00 Violet	37		1	14805	Gasket, Injector Body,
				Throat, Injector, #0 Red					1600/1700
				Throat, Injector, #1 White	Not S	hown		11000	Stuffer Tool Assy, 2510/2750
				Throat, Injector, #2 Blue					Puller Assy, Port Ring
				Throat, Injector, #3 Yellow			1	13061	2510/2750
71				Throat, Injector, #4 Green			1	12874	Hook, Seal
31			60460-000	Injector Assy, 1600 #00, Plastic					
			60480-00 .	Injector Assy, 1600 #0,					
				Plastic					
			60480-01	Injector Assy, 1600 #1,					
			00/00 00	Plastic					
			60480-02	Injector Assy, 1600 #2,					
			60480-03	Plastic Injector Assy, 1600 #3,					
				Plastic					
			60480-04	Injector Assy, 1600 #4,					
		1	00705 00	Plastic					
32				DLFC, Plastic Blank					
				DLFC, Plastic 0.60 gpm					
				DLFC, Plastic 0.80 gpm					
				DLFC, Plastic 1.0 gpm					
				DLFC, Plastic 1.2 gpm					
				DLFC, Plastic 1.3 gpm					
				DLFC, Plastic 1.5 gpm					
			bu/Ub-1/	DLFC, Plastic 1.7 gpm					



60088 Rev E

Item No. QTY	Part No.	Description
14.	12473	Screw - Meter Cover
21	15659	Assembly, 10-24 x 5/8-inch Meter Cover Assy Ext., Rt.
	15452	Angle (Not Shown) Meter Cap Assy, 3/4-inch to 2-inch , Std, Rt Ang/90,
31.	13847	Plastic Paddle O-ring - Meter Cover
41	13509	Assembly, -137 Impeller
54	13314	Screw - Adapter Clip,
64	13255	8-18 x 0.6-inch Adapter Clip
71	13821	Meter Body
84	13305	O-ring - Meter Body, -119
91	14613	Flow Straightener
101.	60088-180	Meter Assy, 3/4-inch Dual Port, Slip Std, RT Angle/180
	60089-180	Plastic Paddle Wheel, w/clips Meter Assy, 3/4-inch Dual Port, Slip, EXT, RT Angle/180
	60086-50	Plastic Paddle Wheel, w/clips Meter Assy, 3/4-inch Dual Port, Slip, Elec, Plas, Pdl, w/clips

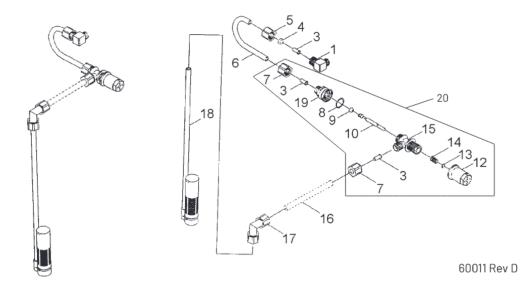
# 1600 BRINE SYSTEM ASSEMBLY



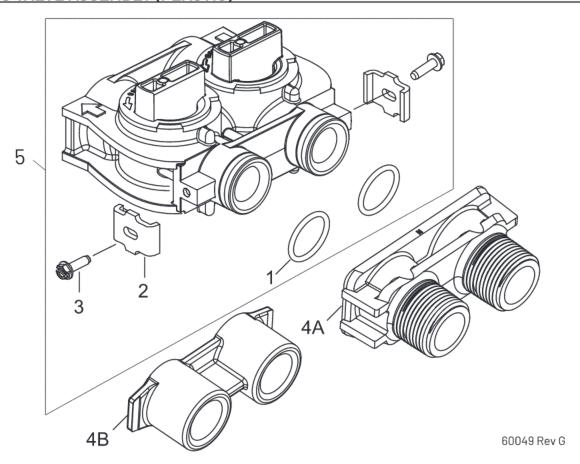
60029 Rev C

Item No.	QTY	Part No.	Description
1	2	10332	Fitting, Insert, 3/8
2	1	12767	Screen, Brine
3	1	10328	Fitting, Elbow, 90 Deg.
4	3	10329	1/4-inch NPT x 3/8Tube Fitting, Tube, 3/8 Nut, Brass
5	3	10330	Fitting, Sleeve, 3/8 Celcon
6	1	16508-01	Tube, Brine Valve,
		12774	2850/2900s Tube, Brine Valve, 1500
		40027	Tube, Brine Valve, 2510,
		14428	HWBP Tube, Brine Valve, 1600/1650,
			NHWBP Tube, Brine Valve, 2750/2900 Tube, Brine Valve, 2850s
			Tube, Brine Valve, UF, 2900S
7			1600/1650 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

ltem	No.	QTY	Part No.	Description
12		1	12552-02	Brine Valve Stem, 1600,
47		1	12626	with Seat Seat, Brine Valve
10			.11982	
15		1	60020-25	.BLFC, .25 GPM, 1600
			.60020-50	.BLFC, .50 GPM, 1600
			.60020-100	.BLFC, 1.0 GPM, 1600
16		1	60029-010	.Brine Valve, 1600 Short Stem,
			60029-020	0.25 gpm Brine Valve, 1600 Short Stem,
			.60029-030	0.50 gpm .Brine Valve, 1600 Short Stem, 1.00 gpm

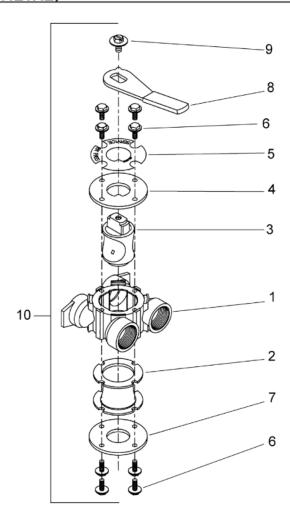


Iter	n No.	QTY	Part No.	Description	Item	No.	QTY	Part No.	Description
1		1	10328	Elbow, 90 1/4 NPT x 3/8	19			60010-25 BLF	FC Assy. (Parts)
3		3	10332	Insert, 3/8			1	17907	Housing
4		1	10330	Sleeve, 3/8 Nut Brine			1	12128	25 GPM Label
5		1	10329	Tube Fitting, 3/8 Nut Brine			1	12094	25 Flow Washer
6		1	16508-01	Tube, Brine Valve,			1	12098	Retainer
				2850/2900s				60010-50 BLF	FC Assy. (Parts)
			12774	Tube, Brine Valve, 1500			1	17907	Housing
			40027	Tube, Brine Valve, 2510,			1	10759	50 GPM Label
			4//00	HWBP			1	12095	50 Flow Washer
		••••	14428	Tube, Brine Valve, 1600/1650,			1	12098	Retainer
			15221-01	NHWBP Tube, Brine Valve, 2750/2900				60010-100 BL	.FC Assy. (Parts)
				Tube, Brine Valve, 2850s			1	17907	Housing
				Tube, Brine Valve, UF, 2900S			1	10760	1.0 GPM Label
				1600/1650			1	12097	1.0 Flow Washer
7		2	19625	Assy., GFN Nut			1	12098	Retainer
8		1	16924	0-ring, -018	20			60011-010	Brine Valve, 1650, Short Stem,
9		1	12626	Seat, Brine Valve					0.25 gpm
10		1	12552	Brine Valve Stem, 1600				60011-020	Brine Valve, 1650, Short Stem,
12		1	17906	Guide, Brine Valve Stem				00011 070	0.50 gpm
13		1	10250	Retaining Ring				60011-030	Brine Valve, 1650, Short Stem, 1.00 gpm
14		1	10249	Spring, Brine Valve					9p
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
1		2	13305	0-ring, -119
2 .		2	13255	Clip, Mounting
3		2 .	13314	Screw, Slot Ind Hex,
4A		1	18706	8-18 x .60 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,
			41027-01	Brass Yoke, 3/4-inch , NPT, Cast,
			41026-01	Machined Yoke, 1-inch , NPT, Cast,
			18706-10	Machined, SS Yoke, 1-inch , BSP, Plastic
			18706-12	Yoke, 3/4-inch , BSP, Plastic
			19620-01	Yoke Assy, 3/4-inch , R/
0				Angle, 90 Deg Bypass Plastic
* .		2	19228-01	Adapter Assy, Coupling,
				w/0-rings

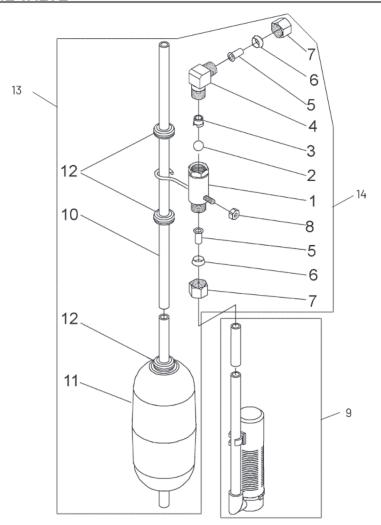
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60040SS Rev T 60041SS Rev U

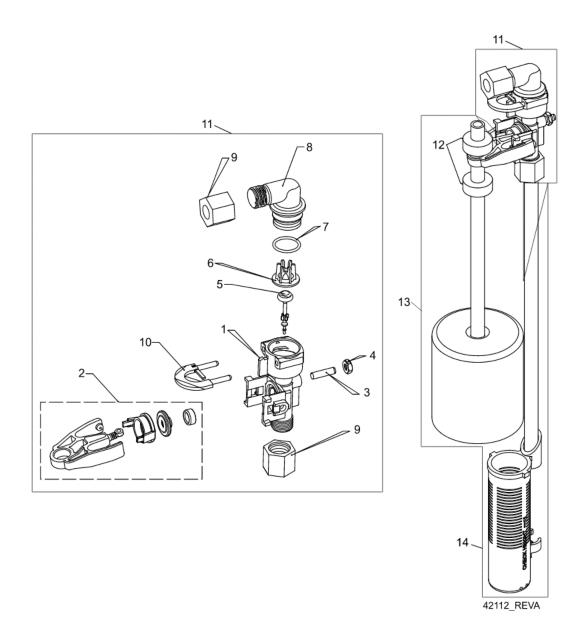
Item No.		QTY	Part No.	Description
1 .		1	40614	Bypass Body, 3/4-inch
			40634	Bypass Body, 1-inch , SS
2 .		1	14105	Seal, Bypass, 560CD
3 .		1	11972	Plug, Bypass
4 .		1	11978	Side Cover
5 .		1	13604-01	Label
6		8	15727	Screw, 10-24 x 0.5-inch
7		1	11986	Side Cover
8 .		1	11979	Lever, Bypass
9		1	11989	Screw, Hex Head,
10		1	60040SS	1/4-14 x 1.5-inch Bypass Valve, 5600, 3/4-inch
		1	60041SS	NPT Blk Grip Lever, SS Bypass Valve, 5600, 1-inch
*		2	19228-01	NPT Blk Grip Lever, SS Adapter Assy, Coupling,
				w/0-rings

\*Not Shown



60027 Rev D

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



# 2310 SAFETY BRINE VALVE CONTINUED

Item N	No.	ОТY	Part No.	Description
1		1	19645	Body, Safety Brine Valve, 2310
2		1	19803	Safety Brine Valve Assy
3 .		1	19804	Screw, Sckt Hd, Set,
				10-24 x .75
4		1	19805	Nut, Hex, 10-24, Nylon Black
5		1	19652-01	Poppet Assy, SBV w/O-ring
6		1	19649	Flow Dispenser
7		1	11183	0-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
			60068-10.5 .	Rod Float Assy, 2310, w/10.5-inch
			60068-11.5	Rod Float Assy, 2310, w/11.5-inch
			60068-20	Rod Float Assy, 2310, w/20-inch
			60068-30	Rod Float Assy, 2310, w/30-inch
14		1	60002-10	Rod Air Check, #500, American
			60002-11.38 .	Hydro Air Check, #500, 11.38 inches
			60002-24	Long Air Check, #500, 24 inches
			60002-27	Long Air Check, #500, 27 inches
				Long Air Check, #500, 32 inches
				Long
			60002-34	Air Check, #500, 34 inches
			60002-36	Long Air Check, #500, 36 inches
			60002-48	Long Air Check, #500, 48 inches
			60002-26.25	Long Air Check, #500, 26.25 inches
			60002-33.25	Long Air Check, #500, 33.25 inches Long

# SEAL & SPACER TOOLS & REPLACEMENT

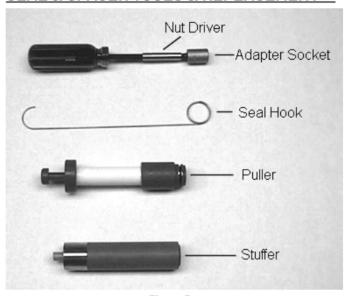


Figure 5

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

- 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.
- Grasp the back plate on both sides and slowly pull end plug and piston assembly out of the valve body (see "Figure 6")

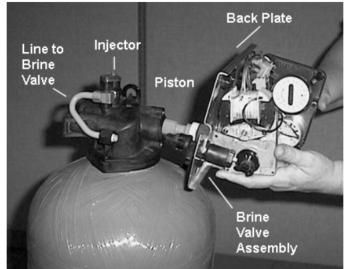


Figure 6

# **SEAL & SPACER TOOLS & REPLACEMENT**

# CONTINUED

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

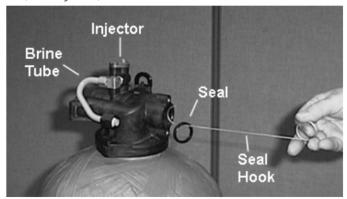


Figure 7

- 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.

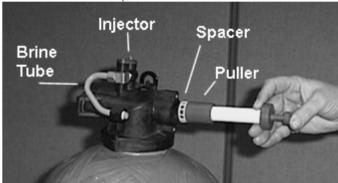


Figure 8

- 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.

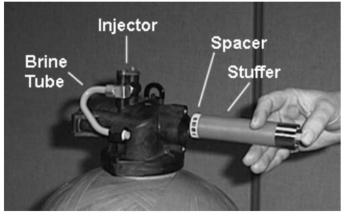


Figure 9

- 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.

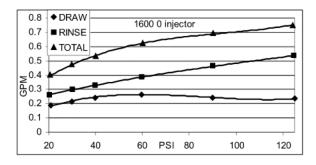
Reason: Meter is not measuring flow.

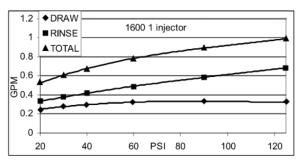
Correction: Check meter with meter checker.

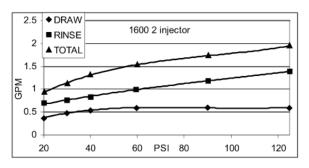
# **TROUBLESHOOTING**

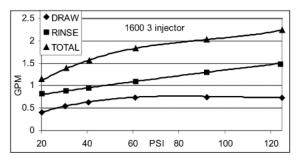
Problem	Cause	Correction		
Water conditioner fails to regenerate.	Electrical service to unit has been interrupted	Assure permanent electrical service (check fuse, plug, pull chain, or switch)		
Water conditioner fails to regenerate.  Hard water.  Unit used too much salt.  Loss of water pressure.  Loss of mineral through drain line.  Iron in conditioned water.  Excessive water in brine tank.  Softener fails to draw brine.  Control cycles continuously.	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.		
	Insuficient 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	Plugged drain line flow control.	Clean flow control.		
tank.	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.		

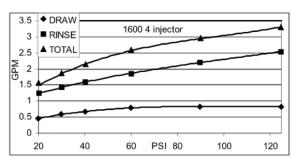
# **FLOW DATA & INJECTOR DRAW RATES**



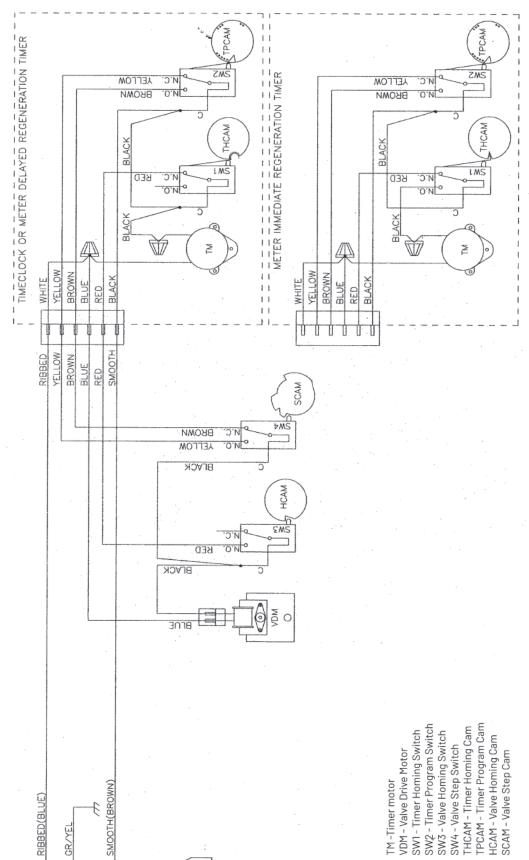








TR20391\_REVA



NOTE:

1. Single Tank Timeclock, Meter Delayed, or Meter Immediate Regeneration

2. Valve Shown In Service Position.

# **SERVICE ASSEMBLIES**

24 Hour Gear Ass	semblies	Meters	
40096-02	Dial 2AM Regen Assy, Black	60088-180	Meter Assy, 3/4-inch Dual Port, Slip Std,
	Dial 12AM Regen Assy, Black		Rt Ang/180 Plastic Paddle w/clps
	Gear Assy, 3200 24 Hour 2 Times/Day	60089-180	Meter Assy, 3/4-inch Dual Port, Slip Ext,
	Gear Assy, 3200, 24 Hour 3 Times/Day	00000 100 111111111111	Rt Ang/180 Plastic Paddle w/clps
	Gear Assy, 3200, 24 Hour 4 Times/Day		Tit Alligh loo Flastic Faddic Wreips
	Gear Assy, 3200, 24 Hour (12:00) 6 Times/	Piston, Seal, and Spa	oor Vite
00019-00	*		
	Day		Piston Kit 2510/2750
			Piston Kit, 2510, 2750, NHWBP
Brine Line Flow (			Piston Kit, 2750, Hot Water
	BLFC, 1650, .25 GPM, Plastic	61671-02	NHWBP Conversion Kit, 2510
	BLFC, 1650, .50 GPM, Plastic		
60010-100	BLFC, 1650, 1.0 GPM, Plastic		
		Program Wheels	
Brine Valves		60405-10	Program Wheel, w/3/4-inch Std Label
60011-010	Brine Valve, 1650, Short Stem, .25 GPM,		Set @ 21
	Less Tube	60405-15	Program Wheel, w/3/4-inch Std Label w/
60011-030	Brine Valve, 1650, Short Stem, 1.0 GPM,		People Label Set @ 21
	Less Tube		
		Safety Brine (2300)	
			Float Assy, 2350, 30-inch , White
Bypasses			Safety Brine Valve Body, 2300 Fitting
,,	Bypass Plastic Assy	30027 TTM	Facing Arm
	Bypass Plastic Assy Bypass Valve, 5600, 3/4-inch_NPT	60027_FFS	Safety Brine Valve Body, Fitting Facing
	71	00027-FF3	Stud
6004155	Bypass Valve, 5600, 1-inch NPT		Stud
Cam		Sales and Service Ai	do
	Drive Com Accu STE Dive		Literature, 2510, S/Manual
00100-15	Drive Cam Assy, STF, Blue		
Clamp		10010	Literature, 2510, Spec Sheet
	Clamp Ring Assembly, 2510	Skipper Wheels	
00000			Skipper Wheel Assy, 7 Day
0			
Coupling	Adapter Coupling Assy, 5600	14381	Skipper Wheel Assy, 12 Day
00010	Adapter Coupling Assy, 5600	Yokes	
Dunin Line Flam	Danturala.		Value 1 inch Council
Drain Line Flow 0			Yoke, 1-inch , Sweat
	DLFC, Plastic, Blank		Yoke, 3/4-inch , Sweat
	DLFC, Plastic, .60 GPM		Yoke, 1-inch , NPT, Plastic
	DLFC, Plastic, .80 GPM		Yoke, 3/4-inch , NPT, Plastic
	DLFC, Plastic, 1.0 GPM		Yoke, Angle 90 Deg. 3/4-inch , NPT
60705-12	DLFC, Plastic, 1.2 GPM	19275-45	Yoke, Angle 90 Deg. 3/4-inch Sweat
	DLFC, Plastic, 1.3 GPM	19620-01	Yoke Assy, 3/4-inch , R/Angle, 90 Deg
60705-15	DLFC, Plastic, 1.5 GPM		w/O-rings, Clips and Screws
	DLFC, Plastic, 1.7 GPM	40636	Yoke, 1-1/4 inch, NPT
	DLFC, Plastic, 2.0 GPM		Yoke, 1-1/4 inch, Sweat
	DLFC, Plastic, 2.4 GPM		Yoke, 1-inch , NPT, SS
	DLFC, Plastic, 3.0 GPM		Yoke, 3/4-inch , NPT, Cast, Machd
	DLFC, Plastic, 3.5 GPM		
	DLFC, Plastic, 3.5 GPM		
	DLFC, Plastic, 4.5 GPM		
	DLFC, Plastic, 5.0 GPM		
	DLFC, Plastic, 6.0 GPM		
	DLFC, Plastic, 7.0 GPM		
	DLFC, QC x 3/4-inch F, 8.0 GPM		
	DLFC, QC x 3/4-inch F, 9.0 GPM		
	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		
Internal			
Injectors	10001-1	<b>\</b>	
60480-xx	1600 Injector Assy (Specify size of Injector	.)	



For Pentair Fleck Product Warranties visit: pentair.com/assets/residential-filtration-warranty

