



Rent-A-Center

Water

Fleck 5600SXT Downflow

Service Manual

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INSTALLATION

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

1. Tank

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

2. Downflow

Upflow Upflow Variable

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

4. System

- 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

5

Timer Program Settings:

- A. Backwash: _____ Minutes
- B. Brine and Slow Rinse: _____ Minutes
- C. Rapid Rinse: _____ Minutes
- D. _____ Minutes
- E. Pause Time: _____ Minutes
- F. Second Backwash: _____ Minutes

6

Drain Line Flow Control:

7

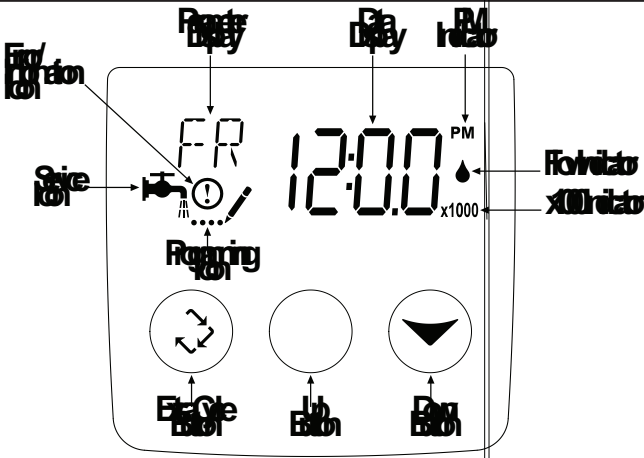
Brine Flow Control:

8

Hard Water Bypass

- A. Hard Water Bypass
- B. No Hard Water Bypass

TIMER FEATURES



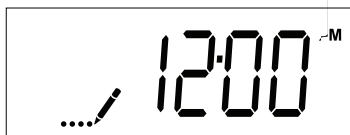
Caution: Before entering Master Programming, please contact your local professional water dealer.

MASTER PROGRAM MODE

When the Master Programming Mode is entered, all available option setting displays may be viewed and set as needed. Depending on current option settings, some parameters cannot be viewed or set.

Setting the Time of Day

1. Press and hold either the Up or Down buttons until the programming icon replaces the service icon and the parameter display reads DO.
2. Adjust the displayed time with the Up and Down buttons.
3. When the desired time is set, press the Extra Cycle button to resume normal operation. The unit will also return to normal operation after 5 seconds if no buttons are pressed.



5 Tank in Service (Display Code TS)

Press the Extra Cycle button. Use this display to set whether tank one or tank two is in service. This option setting is $\bar{a}\bar{a}^{\wedge}$ cā, ^āāā~ÅVÜ+āā} Åc@^Å~]] ^!Å|^-cā@æ} āÅ&[!:] ^!Å[-Åc@^Å•&!^Å} ÉÅ

This parameter is only available if the number of tanks has been set to 2. There are two possible settings:

Tank One in Service: U1

Tank Two in Service: U2



6 Unit Capacity (Display Code C)

Press the Extra Cycle button. Use this display to set the Unit Capacity parameter. Enter the capacity of the media bed in grains [-Å@æ!ā} Å••Å, @^} Å&[], *~!ā} *ÅæÅ•[-c^} ^!Å•^•c^ { É!æ} āāā} Åc@^Å ā^•ā!^ā!Ç[] ^ { ^Å&æ} æ&āc~Å, @^} Å&[], *~!ā} *ÅæÅ, |c^!Å•^•c^ { ÉÅV@ā•Å [] cā[] Å•^ccā} *Åā•Åāā^} cā, ^āāā~ÅVÜ+āā} Åc@^Å~]] ^!Å|^-cā@æ} āÅ&[!:] ^!Å

of the screen. The Unit Capacity parameter is only available if the control type has been set to one of the metered options. Use the Up and Down buttons to adjust the value as needed.

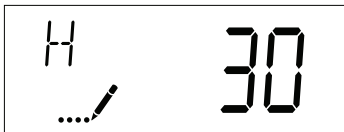


Range: 1-999,900 gallons (100-9,999,000 Liters)

7 Feedwater Hardness (Display Code H)

Press the Extra Cycle button. Use this display to set the Feedwater Hardness. Enter the feedwater hardness in grains] ^!Å~ } āc!Ç[] ^ { ^Å- [!Å•[-c^} ^!Å•^•c^ { •ÉÅ [!ÅFÅ- [!Å, |c^!Å•^•c^ { •ÉÅ V@ā•Å [] cā[] Å•^ccā} *Åā•Åāā^} cā, ^āāā~ÅP+āā} Åc@^Å~]] ^!Å|^-cā@æ} āÅ

corner of the screen. The feedwater hardness parameter is only available if the control type has been set to one of the metered options. Use the Up and Down buttons to adjust the value as needed.



Range: 1-199 hardness

8 Reserve Selection (Display Code RS)

Press the Extra Cycle button. Use this display to set the Safety Factor. Use this display to select the type of reserve to be used ā} Å~ [~!Å•^•c^ { ÉÅV@ā•Å^ccā} *Åā•Åāā^} cā, ^āāā~ÅVÜ+āā} Åc@^Å~]] ^!Å

left-hand corner of the screen. The reserve selection parameter is only available if the control type has been set to one of the metered options. There are two possible settings.

RS	Safety Factor
rc	Fixed Reserve Capacity



9 Safety Factor (Display Code SF)

Press the Extra Cycle button. Use this display to set the Ûæ~c~ÅØæ&c[!ÉÅV@ā•Å^ccā} *Å•] ^&ā, Å•Å, @æcÅ] ^!&^} cæ*^Å[-Åc@^Å

system capacity will be held as a reserve. Since this value is expressed as a percentage, any change to the unit capacity or feedwater hardness that changes the calculated system capacity will result in a corresponding change to the reserve Ç[] ^ { ^ÉV@ā•Å [] cā[] Å•^ccā} *Åā•Åāā^} cā, ^āāā~ÅVÜ+āā} Åc@^Å~]] ^!Å|^-cā

hand corner of the screen. Use the Up and Down buttons to adjust the value from 0 to 50% as needed.



12 Regeneration Time

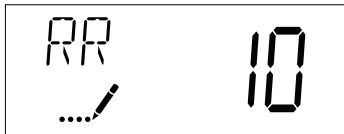
Press the Extra Cycle button. Use this display to set the RT (Regeneration Time) control will initiate a delayed, manually queued, or day override c:ā*^!^ā!^*^}^!æcā[}ÉV@ā•^ccā} *Ā•]^ā,^•Āc@^Ācā { ^Ā[-Āāæ^Āc@^Ā control will initiate a delayed, manually queued, or day override c:ā*^!^ā!^*^}^!æcā[}ÉV@ā•^ccā[}Ā•^ccā} *Āā•Āāā^}cā,^āāā^ĀūUV+Ā in the upper left hand corner of the screen. Use the Up and Down buttons to adjust the value as needed.



13 Regeneration Cycle Step Times

Press the Extra Cycle button. Use this display to set the Regeneration Cycle Step Times. The different regeneration cycles are listed in sequence based on the valve type selected -[!Āc@^Ā•^c^ { ÉĀæ}āĀæ!^Āāā^}cā,^āāā^Āæ}Āæāā!^cāæcā[}Āā}Āc@^Ā upper left-hand corner of the screen. The abbreviations used æ!^Ā!ā•c^āāā^}[,ÉĀQ-Āc@^Ā•^c^ { ĀææĀāā^}Ā&[} ,*~!^āā,āc@Āc@^Ā ūUVPOŪ+Ācæ!c^Āc^]^ĀĀc@^Ā!^*^}^!æcā[}Ā&^Ā!^Ā,ā!Āā^Āāā^}cā,^āāā as R1, R2, R3, R4, R5, and R6. Each cycle step time can be set from 0 to 199 minutes. Setting a cycle step time to 0 will cause the control to skip that step during regeneration, but keeps the following steps available. Use the Up and Down buttons to adjust the value as needed. Press the Extra Cycle button to accept the current setting and move to the next parameter.

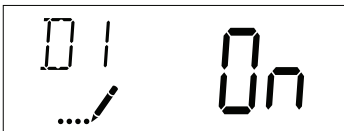
Abbreviation	Step
BD	Brine Draw
BF	Brine Fill
BW	Backwash
RR	Rapid Rinse
SV	Service



Range: 0-199 minutes

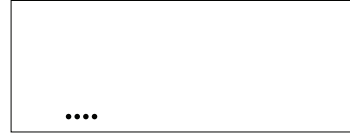
14 Day of Week Settings

Press the Extra Cycle button. Use this display to set the !^*^}^!æcā[}Ā•&@^Ā~!^Ā- [!āāĀ•^c^ { Ā&[} ,*~!^āāæ•ĀāĀÖæ^Ā[-Ā Y^^\Ā&[}c! [!ÉV@^Āāā~!^Ā}cāāæ^Ā[-Āc@^Ā,^^\Āæ!^Āāā^}cā,^āāāæ•Ā D1, D2, D3, D4, D5, D6, and D7 in the upper left-hand corner of the display. Set the value to “ON” to schedule a regeneration or “OFF” to skip regeneration for each day. Use the Up and Down buttons to adjust the setting as needed. Press the Extra Cycle button to accept the setting and move to the next day. Note that the control requires at least one day to be set to “ON.” If all 7 days are set to “OFF,” the unit will return to Day One until one or more days are set to “ON.”



15 Current Day (Display Code CD)

Press the Extra Cycle button. Use this display to set the current āæ^Ā[}Ā•^c^ { •Āc@æcā@æc^Āāā^}Ā&[} ,*~!^āāæ•ĀÖæ^Ā[-Ā Y^^\Ā &[}c! [!ÉV@ā•^Ā•^ccā} *Āā•Āāā^}cā,^āāā^ĀūÖÖ+Āā}Āc@^Ā~]]^!Ā!^cĒ@æ}āā corner of the screen. Use the Up and Down buttons to select from Day 1 through Day 7.



USER PROGRAMMING MODE

User Programming Mode Options		
Abbreviation	Parameter	Description
DO	Day Override	The timer's day override setting
RT	Regeneration Time	The time of day that the system will regenerate (meter delayed, timeclock, and day-of-week systems)
H	Feed Water Hardness	The hardness of the inlet water - used to calculate system capacity for metered systems
RC or SF	Reserve Capacity	V@^Á, ¢^áÁ!^•^!ç^Á&æ]æ&äc^
CD	Current Day	The current day of week

NOTE: Some items may not be shown depending on timer configuration. The timer will discard any changes and exit User Mode if any button is not pressed for sixty seconds.

User Programming Mode Steps

1. Ú!^••^Ác@^ÁW]Áæ}áÁÖ[]}Áá~cc[]}•Á~[!Á, ç^Á•^&[]}á•Á, @á!^Áá}Á service, and the time of day is NOT set to 12:01 PM.
2. Use this display to adjust the Day Override. This option •^ccá} *Áá•Ááá^}cá, ^ááá^ÖU+Áá}Ác@^Á~]] ^!Á!^~cÁ@æ}áÁ&[!] ^!Á[-Á the screen.



3. Press the Extra Cycle button. Use this display to adjust the Ü^*^}^!æcá[]ÁVá { ^ÉÁVÁá•Á[]cá[]}Á•^ccá} *Áá•Ááá^}cá, ^ááá^ÁÜV+Á in the upper left hand corner of the screen.



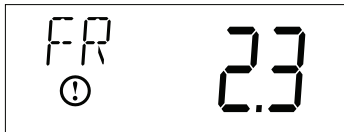
DABSI PROGRAM MODE

Diagnostic Programming Mode Options		
Abbreviation	Parameter	Description
FR	Flow Rate	Displays the current flow rate
PF	Peak Flow Rate	Displays the peak flow rate measured since the last regeneration
HR	Hours in Service	Displays the total hours that the unit has been in service
VU	Volume Used	Displays the total volume of water treated by the unit
RC	Reserve Capacity	Displays the system's reserve capacity calculated from the system capacity, feedwater hardness, and safety factor
SV	Software Version	Displays the software version installed on the controller

NOTE: Some items may not be shown depending on timer configuration. The timer will exit Diagnostic Mode after 60 seconds if no buttons are pressed. Press the Extra Cycle button to exit Diagnostic Mode at any time.

Diagnostic Programming Mode Steps

1. Press the Up button. Use this display to view the current Flow Rate. This option setting is shown in the upper left hand corner of the screen.



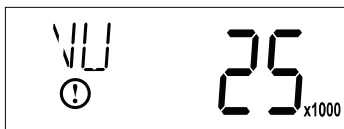
2. Press the Up button. Use this display to view the Peak Flow Rate since the last regeneration cycle. This option setting is shown in the upper left hand corner of the screen.



3. Press the Up button. Use this display to view the Hours in Service since the last regeneration cycle. This option setting is shown in the upper left hand corner of the screen.



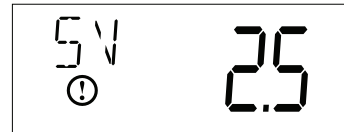
4. Press the Up button. Use this display to view the Volume Used since the last regeneration cycle. This option setting is shown in the upper left hand corner of the screen.



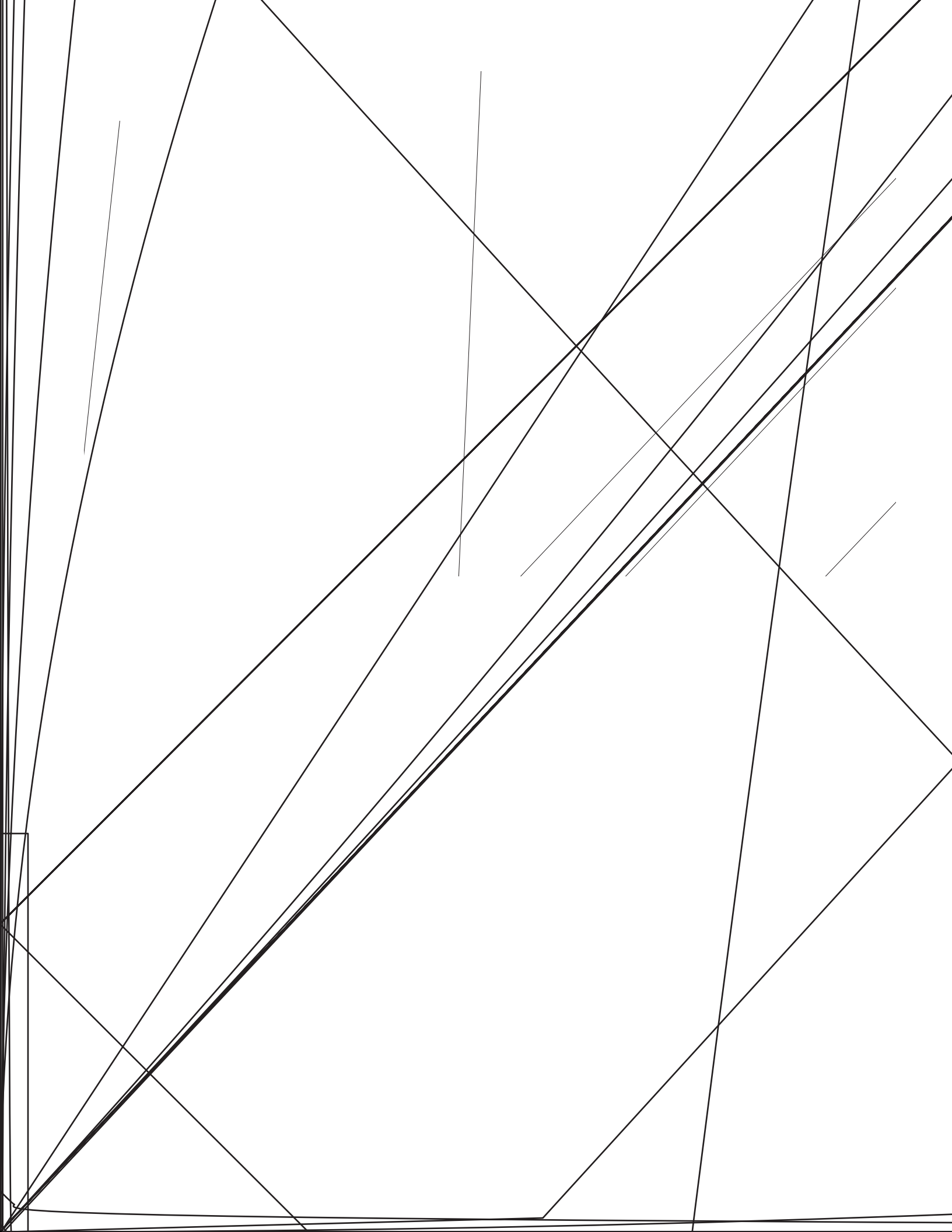
5. Press the Up button. Use this display to view the Reserve Capacity. This option setting is shown in the upper left hand corner of the screen.

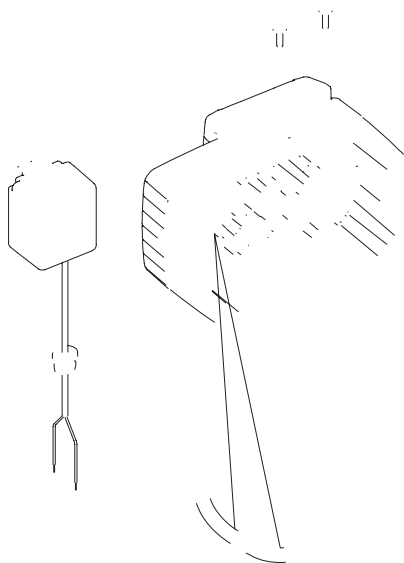


6. Press the Up button. Use this display to view the Software Version. This option setting is shown in the upper left hand corner of the screen.

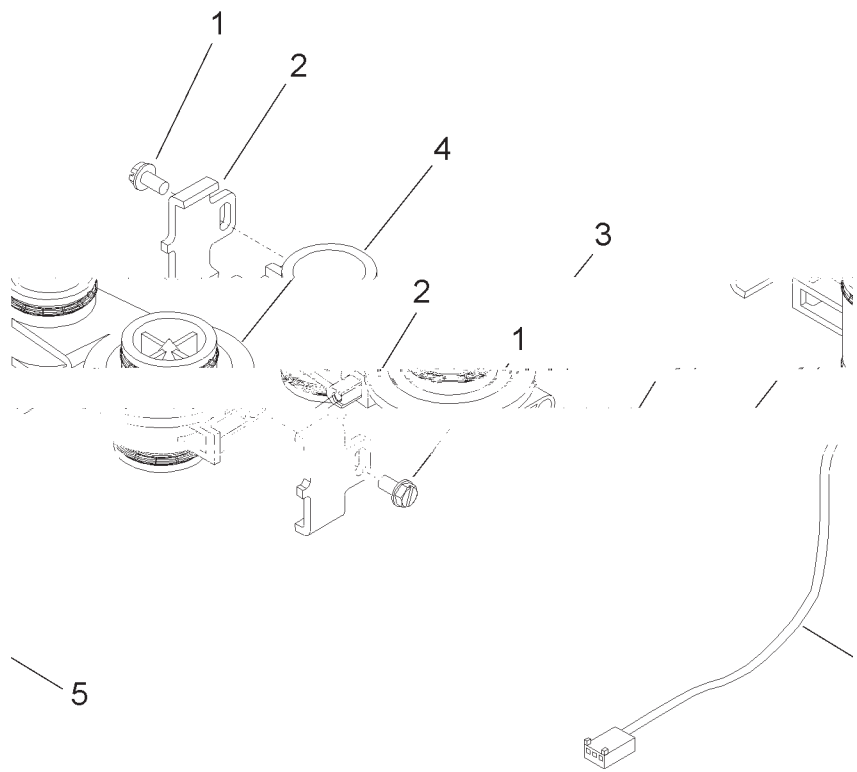


7. Press the Extra Cycle button to end Diagnostic Programming Mode.





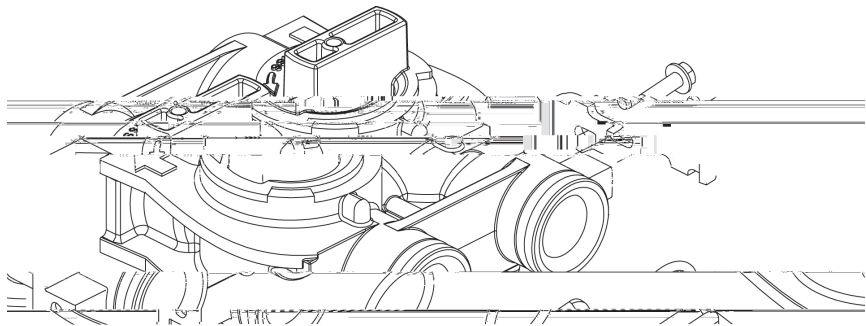
3/4" TURBINE METER ASSEMBLY



60626 Assy Rev A

Item No.	QTY	Part No.	Description
1.....2	13314.....	Screw, Hex Washer, 8-18 x 5/8	
2.....2	19569.....	Clip, Flow Meter	
3.....1	19797.....	Meter Body Assembly, 3/4" Turbine	
4.....4	13305.....	O-ring, 119	
5.....1	19791-01.....	Harness Assembly, Flow Meter	
6.....1	14613.....	Flow Straightener (not shown)	

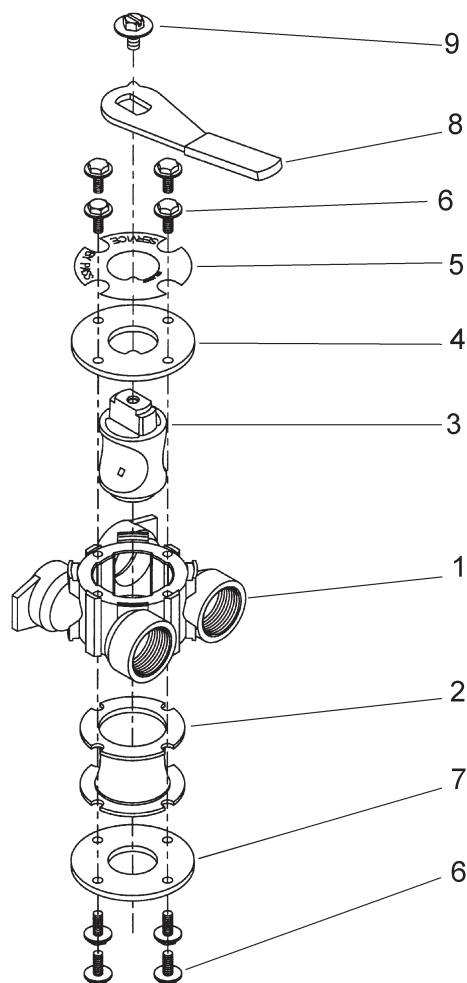
BYPASS VALVE ASSEMBLY (PLASTIC)



60049 Rev G

Item No.	QTY	Part No.	Description
1.....	2	13305.....	O-ring, -119
2.....	2	13255.....	Clip, Mounting
3.....	2	13314.....	Screw, Hex Washer Head, 8-18 x 5/8
4A	1	18706.....	Yoke, Plastic, 1" NPT
	1	18706-02.....	Yoke, Plastic, 3/4" NPT
4B	1	13708.....	Yoke, Brass, 3/4" NPT
	1	13708NP	Yoke, 3/4" NPT Nickel Plated
	1	13398.....	Yoke, Brass, 1" NPT
	1	13398NP	Yoke, 1" NPT Nickel Plated
	1	40636.....	Yoke, 1-1/4" NPT
	1	40636-49.....	Yoke, 1-1/4" Sweat

BYPASS VALVE ASSEMBLY (METAL)



60040SS Rev R
60041SS Rev T

Item No.	QTY	Part No.	Description
1.....	1	17290.....	Bypass Valve Body, 3/4"
	1	17290NP	Bypass Valve Body, 3/4" Nickel Plated
	1	13399.....	Bypass Valve Body, 1"
	1	13399NP	Bypass Valve Body, 1", Nickel Plated
2.....	1	11726	Seal, Bypass
3.....	1	11972	Plug, Bypass
4.....	1	11978	Side Cover
5.....	1	13604-01.....	Label
6.....	8	15727	Screw
7.....	1	11986	Side Cover
8.....	1	11979	Lever, Bypass
9.....	1	11989	Screw, Hex Head, 1/4-14

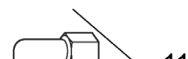
2300 SAFETY BRINE VALVE



60027 Rev D

Item No.	QTY	Part No.	Description
1.....	1	11942	Brine Valve Body 1/4" NPT
2.....	1	10138	Ball, 3/8"
3.....	1	11566	Bull Stop
4.....	1	10328	Elbow, 1/4" x 1/4" T
5.....	2	10332	Insert, 3/8"
6.....	2	10330	Sleeve, 3/8"
7.....	2	10329	Tube Nut, 3/8"
8.....	1	10186	Nut, Hex, 10-32, Nylon
9.....	1	60002	#500 Air Check
10.....	1	10149	Float Rod, 30"
11	1	10700	Float Assembly, White
12.....	4	10150	Grommet

2310 SAFETY BRINE VALVE



Item No.	QTY	Part No.	Description
1.....	1	19645.....	Safety Brine Valve Body
2.....	1	19803.....	Safety Brine Valve Arm Assembly
3.....	1	19804.....	Stud, 10-24
4.....	1	19805.....	Nut, 10-24
5.....	1	19652-01.....	Poppet and Seal
6.....	1	19649.....	Flow Dispenser
7.....	1	11183	O-ring, 017
8.....	1	19647	Elbow, Safety Brine Valve
9.....	2	19625.....	Nut Assembly, 3/8
10.....	1	18312.....	Retaining Clip
11.....	1	60014.....	Safety Brine Valve, 2310 (includes items 1-10)
12.....	2	10150.....	Grommet (included with item 13)
13.....	1	60068-30.....	Float Assembly, 2310, w/30" Rod
14.....	1	60002-34.....	Air Check, #500, 34" long

TROUBLESHOOTING



Problem	Cause	
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.
	Q } • ~, & ã ^ } c Å, æ ^ ! Å ' [, ã } * Å ã } c [Å ã ! ã } ^ Å cæ } \ È	Ô @ ^ & \ Å ã ! ã } ^ Å cæ } \ Å, Å cã { ^ Å æ } ã Å & ^ æ } Å ã ! ã } ^ Å ã } ^ Å ' [, Å control if plugged.
	Hot water tank hardness.	Û ^] ^ æ c Å Å ' ~ • @ ã } * • Å [- Å c @ ^ Å @ [c Å, æ c ^ ! Å cæ } \ Å ã • Å 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.
	Q {] ! [] ^ ! ~ Å • ã : ^ ã Å ã ! æ ã } Å ã } ^ Å ' [, Å & [] c ! [È	Check for proper drain rate.
Iron in conditioned water.	Fouled mineral bed.	Ô @ ^ & \ Å ã æ & \ , æ • @ È Å ã ! ã } ^ Å ã ! æ , È Å æ } ã Å ã ! ã } ^ Å cæ } \ Å, È Å Increase frequency of regeneration. Increase backwash time.
Excessive water in brine tank.	Ú ~ * * ^ ã Å ã ! æ ã } Å ã } ^ Å ' [, Å & [] c ! [È	Ô ^ æ } Å ' [, Å & [] c ! [È
	Plugged injector system.	Clean injector and screen.
	Timer not cycling.	Replace timer.
	Foreign material in brine valve.	Replace brine valve seat and clean valve.
	Ø [! ^ ã * } Å { æ c ^ ! æ Å ã } Å ã ! ã } ^ Å ã } ^ Å ' [, Å & [] c ! [È	Ô ^ æ } Å ã ! ã } ^ Å ã } ^ Å ' [, Å & [] c ! [È
Softener fails to draw brine.	Ö ! æ ã } Å ã } ^ Å ' [, Å & [] c ! [Å ã • Å] ~ * * ^ ã È	Ô ^ æ } Å ã ! æ ã } Å ã } ^ Å ' [, Å & [] c ! [È
	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.
Ö ! æ ã } Å ' [, • Å & [] cã } ~ [~ • È	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.

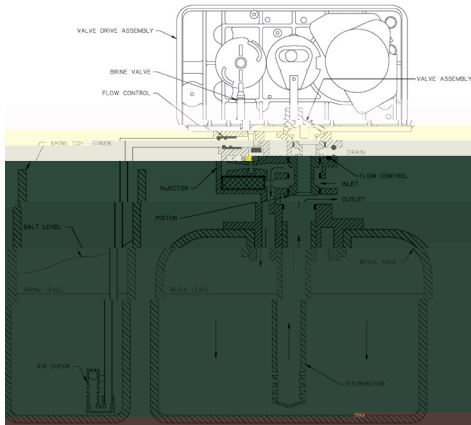
NOTE: Error codes appear on the In Service display.

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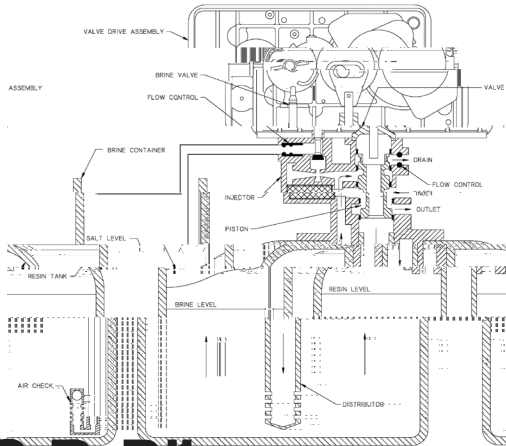
VALVE CYCLE OPERATION

Single Backwash Positions Black Cycle Cam (Part Number 17438)	Double Backwash Positions Blue Cycle Cam (Part Number 40609)
Service Position	Service Position
1. Backwash Position	1. First Backwash Position
2. Brine/Slow Rinse Positon	2. Brine/Slow Rinse Positon
3. Rapid Rinse Position	3. Second Backwash Position
4. Brine Tank Fill Position	4. Rapid Rinse Position
Service Postion	5. Brine Tank Fill Position
	Service Postion

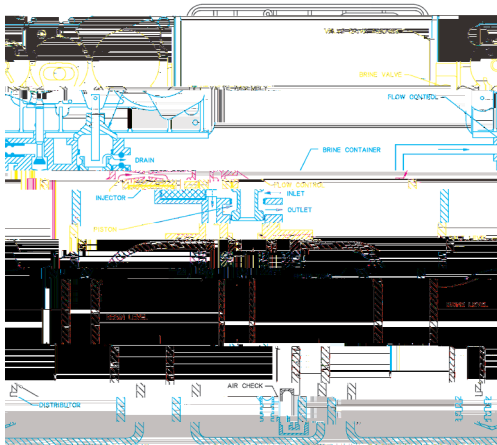
Service Position



Backwash Position

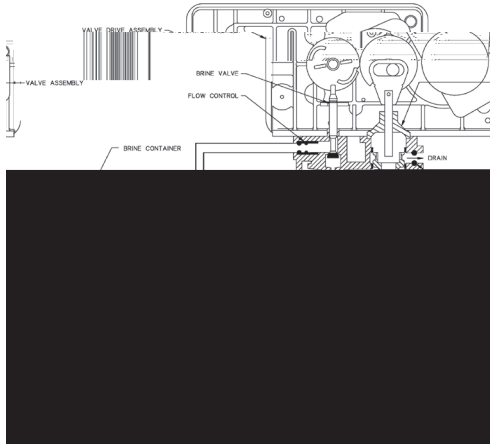


Brine Rinse Position

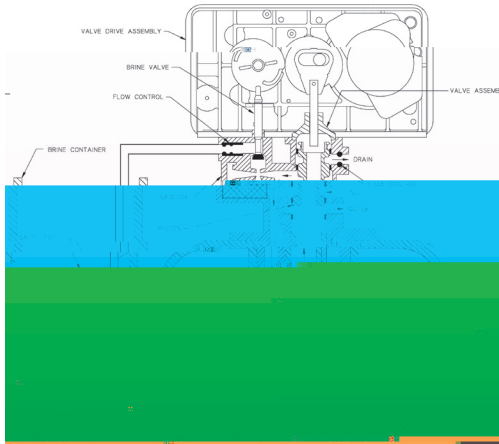


GEÁ'ARÖFFÄØ|'^&\\ÁÍ€€ÛÝVÁÖ[,}'[,

Second Backwash Position (Double Backwash Units Only)

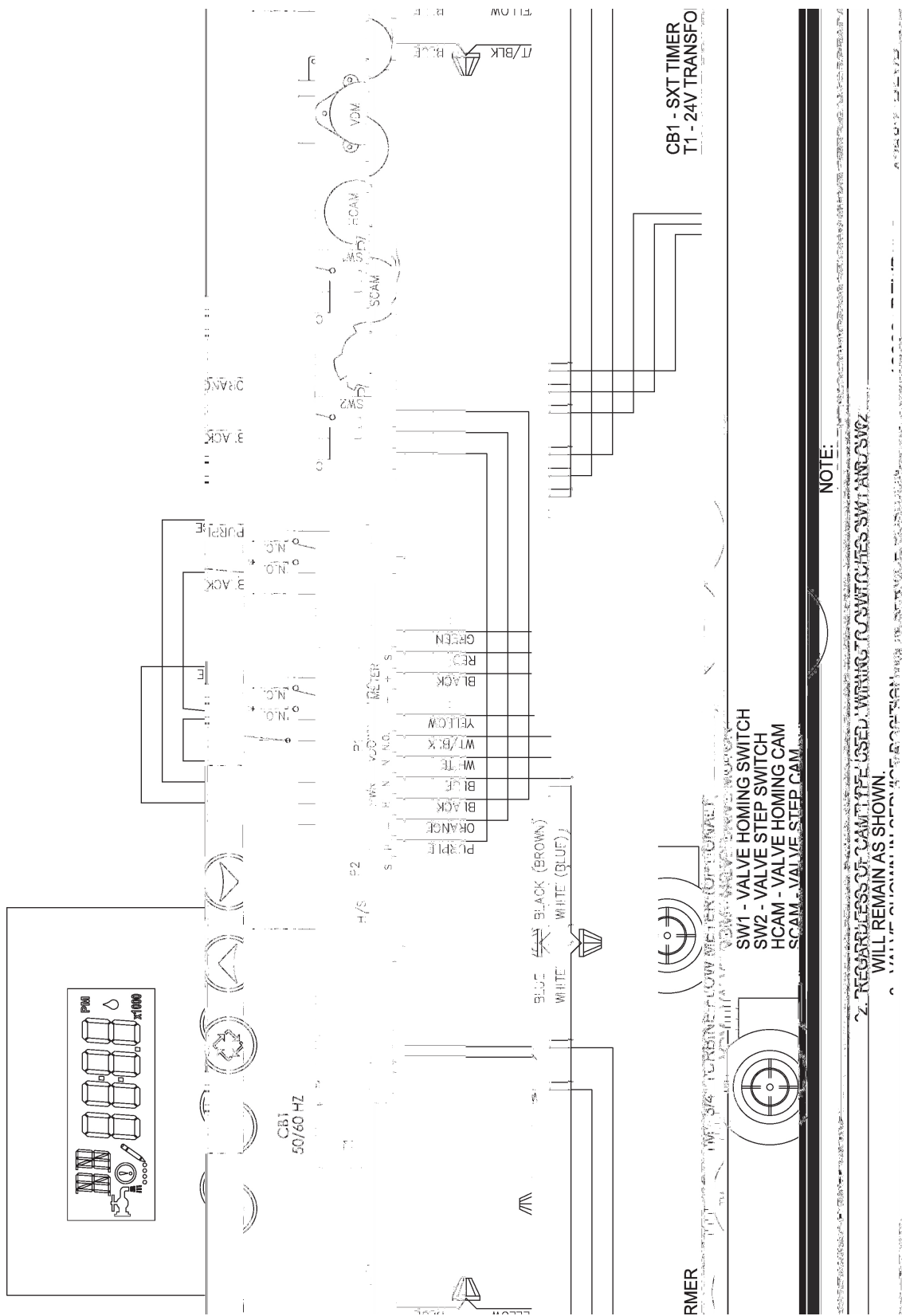


Rapid Rinse



Brine Tank Fill Position





SERVICE INSTRUCTIONS

Replacing Brine Valve, Injectors and Screen

1. Turn off water supply to conditioner:
If the conditioner installation has a "three valve" bypass
the valves at the conditioner inlet and outlet.
If the conditioner has an integral bypass valve, put it in the Bypass position.
If there is only a shut-off valve near the conditioner inlet, close it.
2. Relieve water pressure in the conditioner by stepping the control into the Backwash position momentarily. Return the control to the In Service position.
3. Unplug electrical cord from outlet.
4. Disconnect brine tube and drain line connections at the injector body.
5. Remove the two injector body mounting screws. The injector and brine module can now be removed from the control valve. Remove and discard brine body O-rings.

Brine Valve Replacement

1. Pull brine valve from injector body. Also remove and discard O-ring at bottom of brine valve hole.
2. Apply silicone lubricant to new O-ring and reinstall at bottom of brine valve hole.
3. Apply silicone lubricant to O-ring on new valve assembly and press into brine valve hole. Be sure shoulder on

Injectors/Screen Replacement

1. Remove injector cap and screen, discard O-ring. Unscrew injector nozzle and throat from injector body.
2. Screw in new injector throat and nozzle, be sure they are sealed tightly. Install a new screen.
3. Apply silicone lubricant to new O-ring and install around oval extension on injector cap.
4. Apply silicone lubricant to three new O-rings and install over three bosses on injector body.
5. Insert screws thorough injector cap and injector. Place this assembly thorough hole in timer housing and into mating holes in the valve body. Tighten screws.
6. Reconnect brine tube and drain line.
7. Return bypass or inlet valve to normal In Service position. Water pressure automatically builds in the conditioner
NOTE: Be sure to shut off any bypass line.
8. Check for leaks at all seal areas. Check drain seal with the control in the Backwash position.
9. Plug electrical cord into outlet.
10. Set Time Of Day and cycle the control valve manually to assure proper function. Make sure control valve is returned to the In Service position.
11. Be sure there is enough salt in the brine tank.
12. Start regeneration cycle manually if water is hard.

Timer Replacement

To replace timer refer to Replacing Brine Valve, Injectors and Screen, steps 1–3.

1. Remove the control valve back cover. Remove the control valve front cover. Disconnect the meter dome signal wire from the front cover and feed it back through the control.
2. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly then lifts off easily.
3. Put new timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke.
4. Replace timer mounting screws. Replace screw and washer at drive yoke. Replace meter signal wire.
5. Return bypass or inlet valve to normal In Service position. Water pressure automatically builds in the conditioner.
NOTE: Be sure to shut off any bypass line.
6. Replace the control valve back cover.
7. Follow Injectors/Screen Replacement, steps 9–12.

Piston Assembly Replacement

To replace piston assembly refer to Replacing Brine Valve, Injectors and Screen, steps 1–3.

1. Remove the control valve back cover. Remove the control valve front cover. Disconnect the meter dome signal wire from the front cover and feed it back through the control.
2. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly will now lift off easily. Remove end plug retainer plate.
3. Pull upward on end of piston yoke until assembly is out of valve.
4. Inspect the inside of the valve to make sure that all spacers and seals are in place, and that there is no foreign matter that would interfere with the valve operation.
5. Take new piston assembly as furnished and push piston into valve by means of the end plug. Twist yoke carefully in a clockwise direction to properly align it with drive gear. Replace end plug retainer plate.
6. Place timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke.
7. Replace timer mounting screws. Replace screw and washer at drive yoke.
8. Return bypass or inlet valve to normal In Service position. Water pressure automatically builds in the conditioner
NOTE: Be sure to shut off any bypass line.
9. Replace the control valve back cover.
10. Follow Injectors/Screen Replacement, steps 9–12.

SERVICE INSTRUCTIONS

Seal and Spacer Replacement

To replace seals and spacers, refer to Replacing Brine Valve, Injectors and Screen, steps 1–3.

1. Remove the control valve back cover. Remove the control valve front cover. Disconnect the meter dome signal wire from the front cover and feed it back through the control.
2. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly will now lift off easily. Remove end plug retainer plate.
3. Pull upward on end of piston rod yoke until assembly is out of valve. Remove and replace seals and spacers.
4. Take piston assembly and push piston into valve by means of the end plug. Twist yoke carefully in a clockwise direction to properly align it with drive gear. Replace end plug retainer plate.
5. Place timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke.
6. Replace timer mounting screws. Replace screw and washer at drive yoke.
7. Return bypass or inlet valve to normal In Service position. Water pressure automatically builds in the conditioner.

NOTE: Be sure to shut off any bypass line.

8. Replace the control valve back cover.
9. Follow Injectors/Screen Replacement, steps 9–12.

Meter Replacement

To replace meter refer to Replacing Brine Valve, Injectors and Screen, steps 1–3.

1. Remove two screws and clips at bypass valve or yoke. Pull resin tank away from plumbing connections.
2. Pull meter module out of control valve.
3. Remove signal wire from meter module, (snap tab on end opposite wire cable).
4. Apply silicone lubricant to four new O-rings and assemble to four ports on new meter module.
5. Install signal wire into new meter module.
6. Assemble meter to control valve. Note, meter portion of module must be assembled at valve outlet.
7. Push resin tank back to the plumbing connections and engage meter ports with bypass valve or yoke.
8. Attach two clips and screws at bypass valve or yoke. Be
9. Return bypass or inlet valve to normal In Service position. Water pressure automatically builds in the conditioner.

NOTE: Be sure to shut off any bypass line.

10. Check for leaks at all seal areas.
11. Follow Injectors/Screen Replacement, steps 9–12.

SERVICE ASSEMBLIES

Air Check

60002-34Air Check #500 34"

Brine Flow Control Washers

60022-12BLFC .125 gpm
60022-25BLFC .25 gpm
60022-50BLFC .50 gpm
60022-100BLFC 1.0 gpm

Brine Line Flow Control Washers

17307.....Washer Flow .125 gpm
12094.....Washer Flow .25 gpm
12095.....Washer Flow .50 gpm
12097.....Washer Flow 1.0 gpm

Brine Valve Assembly

60032.....Brine Valve

Bypasses

60040.....Bypass, 3/4", Brass
60040NP.....Bypass, 3/4", Nickel
60041.....Bypass, 1", Brass
60041NP.....Bypass, 1", Nickel
60049.....Bypass, Plastic, 3/4"

Drain Line Flow Control Washers

19151.....Washer Flow 1.0 gpm
12085.....Washer Flow 1.2 gpm
12086.....Washer Flow 1.5 gpm
12087.....Washer Flow 2.0 gpm
12088.....Washer Flow 2.4 gpm
12089.....Washer Flow 3.0 gpm
12090.....Washer Flow 3.5 gpm
12091.....Washer Flow 4.0 gpm
12092.....Washer Flow 5.0 gpm

Floats

60068-30Float Assy 2310 w/30" Rod
60028-30Float Assy 2300 30" White

Front Panels

61672-0201
Square, Black
61673-0201
Curved, Black

Injector

.....Injector, Module Assembly (Specify
Injector Number, DLFC Size, BLFC
Size)

Injector

#

DLFC #

BLFC #

Red #0.....00Blank.....0Blank0
White #1011.2.....10.251
Blue #2021.5.....20.502
Yellow #3.....032.0.....31.003
Green #4042.4.....4
3.0.....5
3.5.....6
4.0.....7
5.0.....8
7.0.....9



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