Pentair Water

Fleck 5600SXT Down fow

Service Manual

TABLE OF CONTENTS

JOB SPECIFICATION SHEET

1. **Type of Timer:**

2. **Down fow:** **Up fow** **Up fow Variable**
3. **Meter Size:**

4. **System Type:**

units on and ofþine based on þow.

5. **Timer Program Settings:**

Brine Tank Reýll:

6. **Drain Line Flow Control:** _____**gpm**
7. **Brine Line Flow Controller:** _____**gpm**
8. **Injector Size#:** _____
9. **Piston Type:**

INSTALLATION

Water Pressure

Electrical Facilities

Existing Plumbing

iron ýlter unit should be installed ahead of the water softener.

Location Of Softener And Drain

breaks and back þow.

By-Pass Valves

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

Installation Instructions

making sure the unit is level and on a ýrm base.

should be a minimum of 1/2" (13 mm). Backwash þow rates

lines should be the same size as the drain line þow control.

distributor tube þush with the top of the tank.

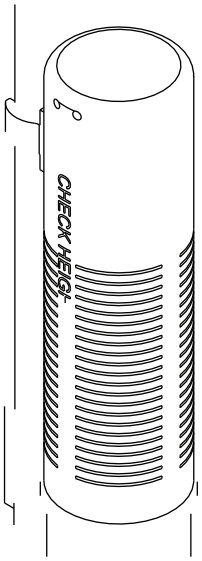
connecting the Drain Line Flow Control ýtting (DLFC).

Teþon tape is the only sealant to be used on the drain ýtting. The drain from twin tank units may be run through a

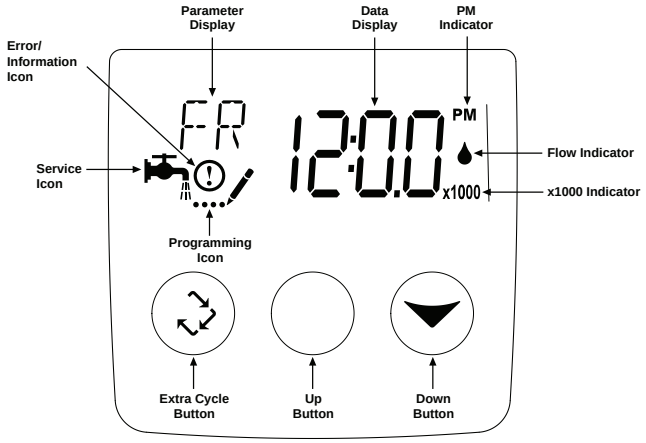
Make sure that the þoor is clean beneath the salt storage

plate. If a grid is not utilized, ýll to the top of the air check

þow into the mineral tank. When water þow stops, slowly



TIMER FEATURES



TIMER OPERATION

Meter Immediate Control

Manually Initiating a Regeneration

Regeneration Cycle Step #4 (brine reýll).

Meter Delayed Control

NOTE: If the unit is a ſlter or upſow, the cycle step order may change.

NOTE: A queued regeneration can be initiated by pressing the Extra Cycle button. To clear a queued regeneration, press the Extra Cycle button again to cancel. If regeneration occurs for any reason prior to the delayed regeneration time, the manual regeneration request shall be cleared.

Control Operation During A Power Failure

The SXT includes integral power backup. In the event of power

Time Clock Delayed Control

The system conýguration settings are stored in a non-volatile memory and are stored indeýnitely with or without line power. The Time of Day þashes when there has been a power failure. Press any button to stop the Time of Day from þashing.

Day of the Week Control

The schedule is deýned in Master Programming by setting

speciýed regeneration time.

include all required safety components to prevent overþows

Control Operation During Regeneration

number that displays þashes until the valve completes driving

system should be setup with a sufýcient reserve capacity to

Control Operation During Programming

MASTER PROGRAMMING MODE CHART

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

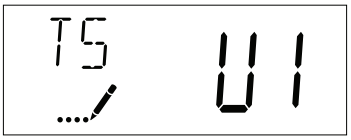
Master Programming Options			
Abbreviation	**Parameter**	**Option Abbreviation**	**Options**
			Standard Downþow/Upþow Single Backwash
			Standard Downþow/Upþow Double Backwash
			Upþow Brine First
			Upþow Filter
			NOTE: If “Othr” is chosen under “Valve Type”, then R1, R2, R3, etc, will be displayed instead

MASTER PROGRAMMING MODE

Setting the Time of Day

5. Tank in Service (Display Code TS)

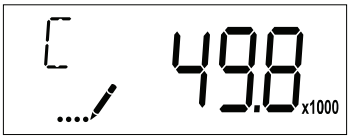
identiýed by ñTSò in the upper left hand corner of the screen.



6. Unit Capacity (Display Code C)

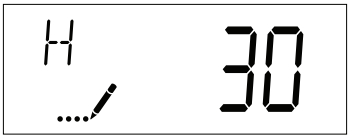
Capacity. This setting speciýes the treatment capacity of the

of hardness when conýguring a softener system, and in the desired volume capacity when conýguring a ýlter system. This option setting is identiýed by ñCò in the upper left hand corner



7. Feedwater Hardness (Display Code H)

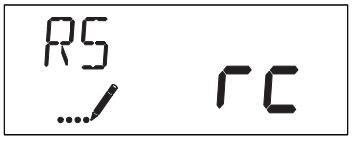
per unit volume for softener systems, or 1 for ýlter systems. This option setting is identiýed by ñHò in the upper left hand



8. Reserve Selection (Display Code RS)

in your system. This setting is identiýed by ñRSò in the upper

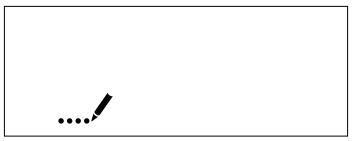
FS	Safety Factor



9. Safety Factor (Display Code SF)

Safety Factor. This setting speciýes what percentage of the

volume.This option setting is identiýed by ñSFò in the upper left

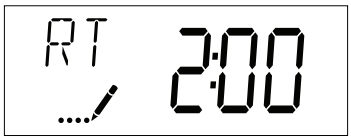


MASTER PROGRAMMING MODE

12. Regeneration Time

Regeneration Time. This setting speciýes the time of day the

triggered regeneration. This option setting is identiýed by ñRTò

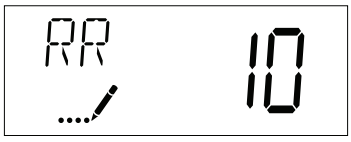


13. Regeneration Cycle Step Times

for the system, and are identiýed by an abbreviation in the

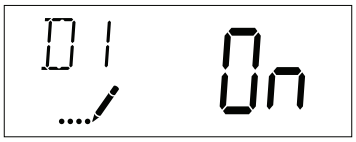
are listed below. If the system has been conýgured with the ñOTHERò valve type, the regeneration cycles will be identiýed

Abbreviation	Cycle Step



14. Day of Week Settings

regeneration schedule for a system conýgured as a Day of Week control. The different days of the week are identiýed as



15. Current Day (Display Code CD)

day on systems that have been conýgured as Day of Week controls. This setting is identiýed by ñCDò in the upper left-hand

USER PROGRAMMING MODE

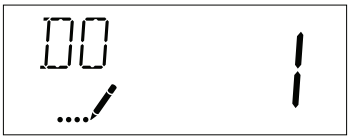
User Programming Mode Options		
Abbreviation	**Parameter**	**Description**
		The ýxed reserve capacity

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

User Programming Mode Steps

Press the Up and Down buttons for ýve seconds while in

setting is identiýed by ñDOò in the upper left hand corner of



Regeneration Time. This option setting is identiýed by ñRTò

DIAGNOSTIC PROGRAMMING MODE

Diagnostic Programming Mode Options		
Abbreviation	**Parameter**	**Description**
		Displays the current outlet þow rate
		Displays the highest þow

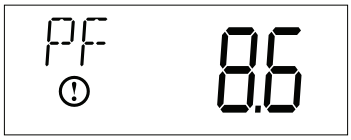
NOTE: Some items may not be shown depending on timer con f guration. The timer will exit Diagnostic Mode after 60 seconds if no buttons are pressed. Press the Extra Cycle button to exit Diagnostic Mode at any time.

Diagnostic Programming Mode Steps

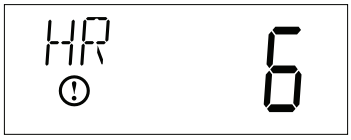
Press the Up and Extra Cycle buttons for ýve seconds

setting is identiýed by ñFRò in the upper left hand corner of

is identiýed by ñPFò in the upper left hand corner of the



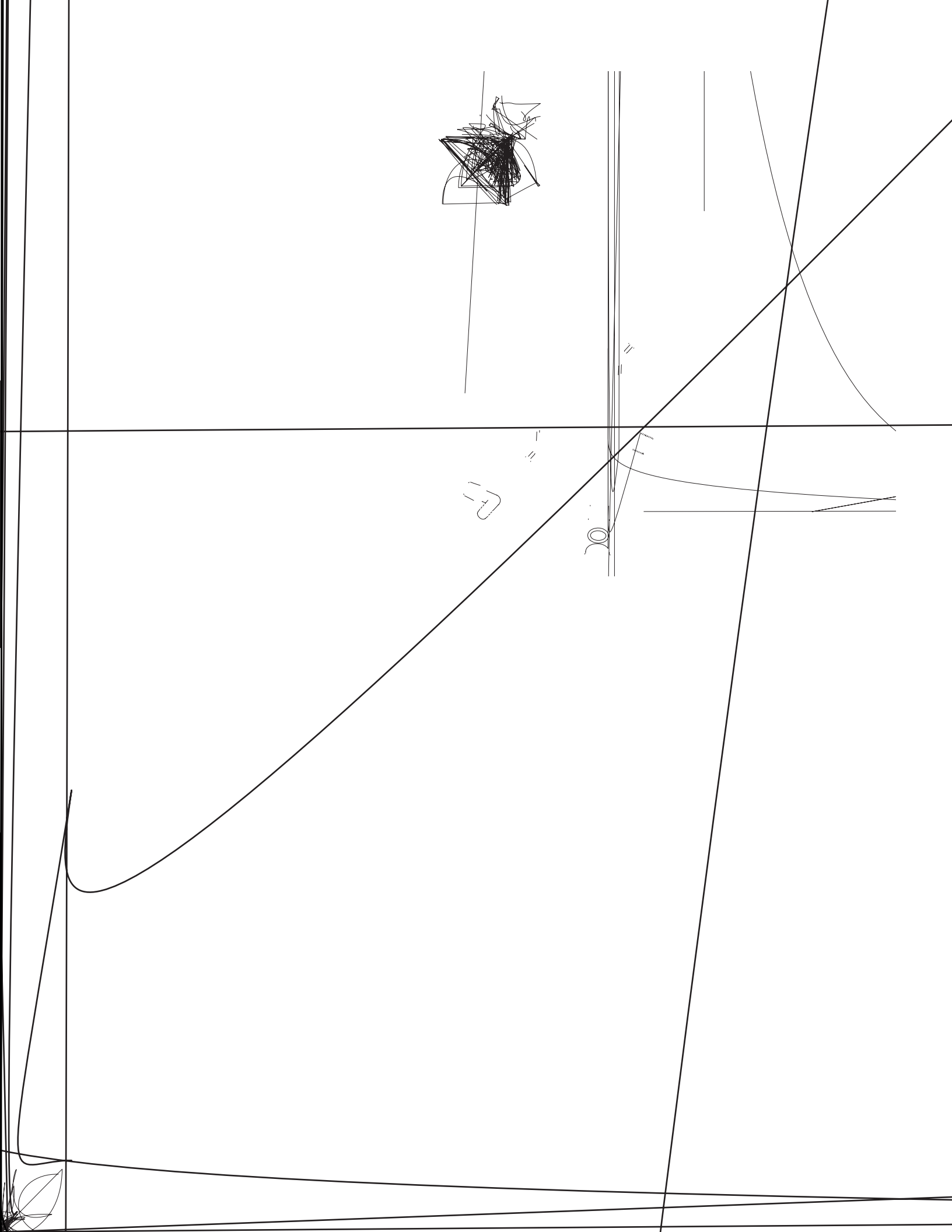
setting is identiýed by ñHRò in the upper left hand corner of

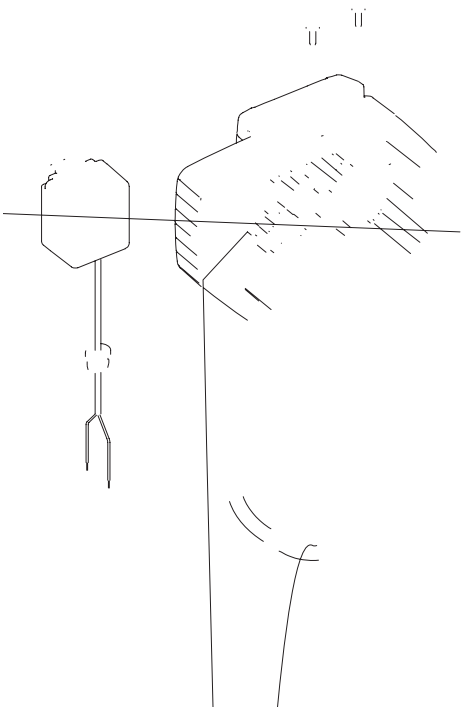


is identiýed by ñVUò in the upper left hand corner of the

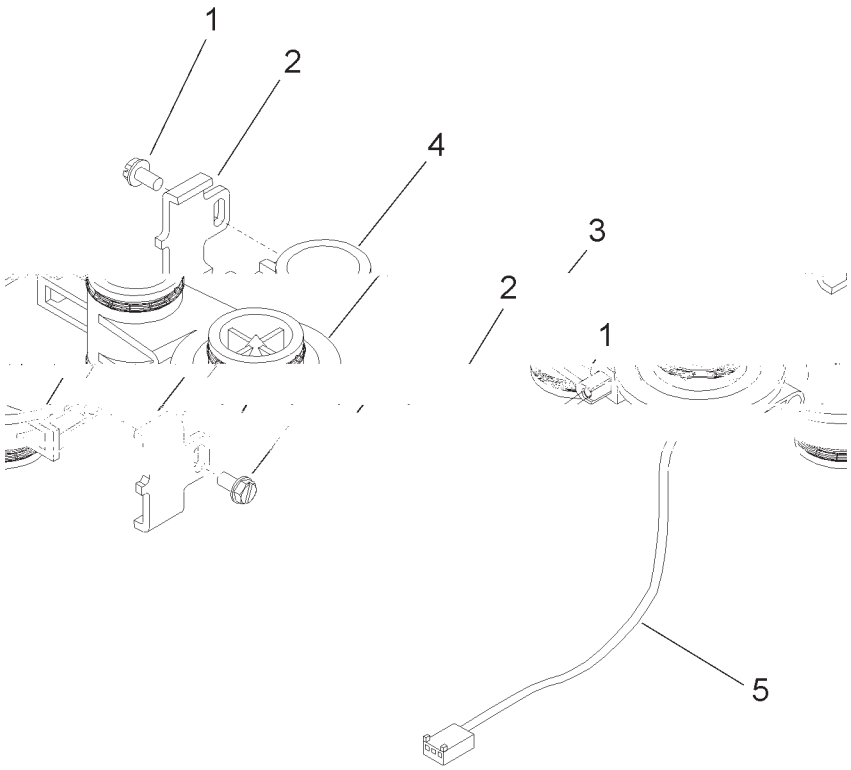
Capacity. This option setting is identiýed by ñRCò in the

Version. This option setting is identiýed by ñSVò in the upper



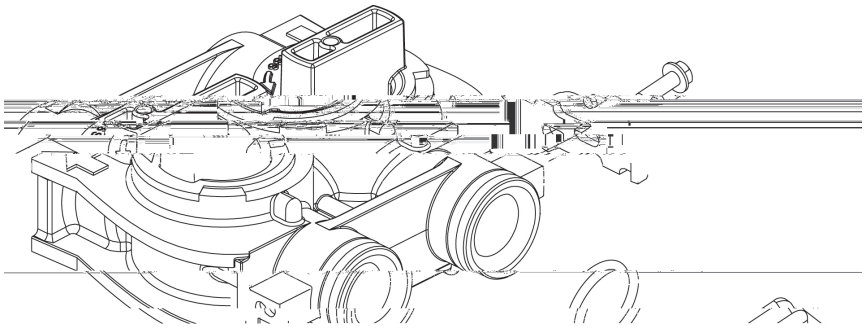


3/4" TURBINE METER ASSEMBLY



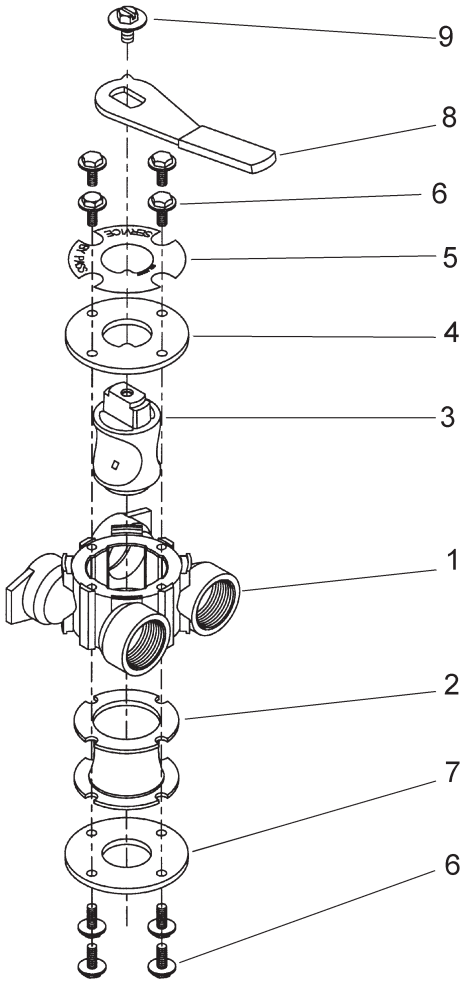
Item No.	QTY	Part No.	Description

BYPASS VALVE ASSEMBLY (PLASTIC)



Item No.	QTY	Part No.	Description

BYPASS VALVE ASSEMBLY (METAL)

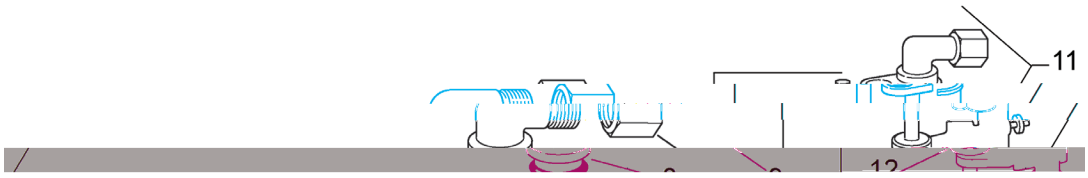


Item No.	QTY	Part No.	Description

2300 SAFETY BRINE VALVE

Item No.	QTY	Part No.	Description

2310 SAFETY BRINE VALVE



Item No.	QTY	Part No.	Description

TROUBLESHOOTING

Problem	Cause	Correction
	Insufýcient water þowing into brine tank.	Check brine tank ýll time and clean brine line þow
		Repeated þushings of the hot water tank is
	Improperly sized drain line þow control.	
		Check backwash, brine draw, and brine tank ýll.
	Plugged drain line þow control.	Clean þow control.
	Foreign material in brine line þow control.	Clean brine line þow control.
	Drain line þow control is plugged.	Clean drain line þow control.
Drain þows continuously.		

TROUBLESHOOTING

Error Codes

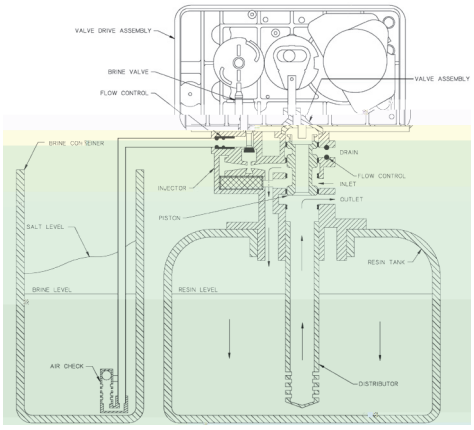
NOTE: Error codes appear on the In Service display.

Error Code	Error Type	Cause	Reset and Recovery
			If the system is metered, verify that it is measuring þow by running service water and watching for the þow indicator on the display. If the unit does not measure þow, verify that the meter cable is connected properly and that the Enter a Master Programming Mode and verify that the unit is conýgured properly. As appropriate for the valve conýguration, check that the correct and that meter is identiýed correctly. If the unit is conýgured as a Day-of-
			Perform a Master Reset and reconýgure the system via Master Programming Mode. After reconýguring the system, step the valve through a manual

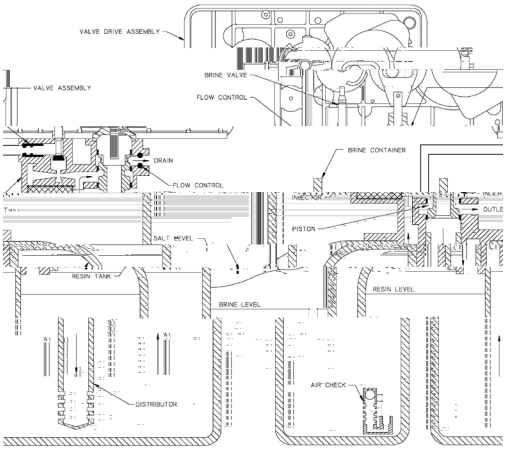
WATER CONDITIONER FLOW DIAGRAMS

Single Backwash Positions Black Cycle Cam (Part Number 17438)	Double Backwash Positions Blue Cycle Cam (Part Number 40609)

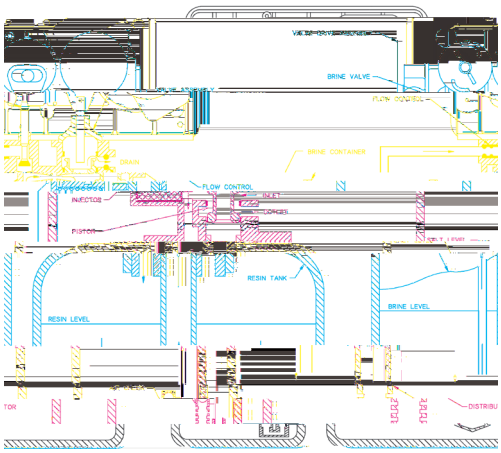
Service Position



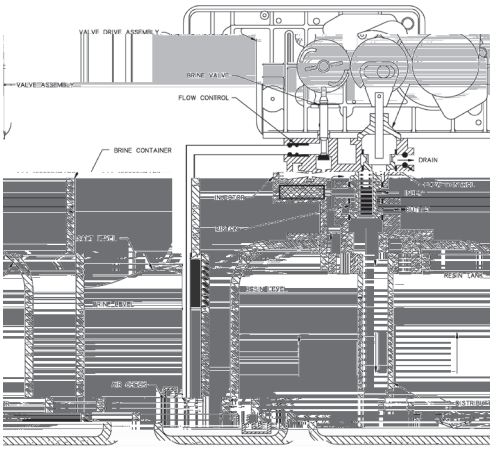
Backwash Position



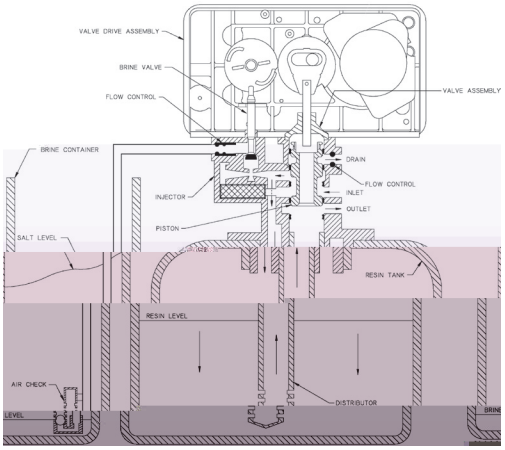
Brine/Slow Rinse Position



Second Backwash Position (Double Backwash Units Only)

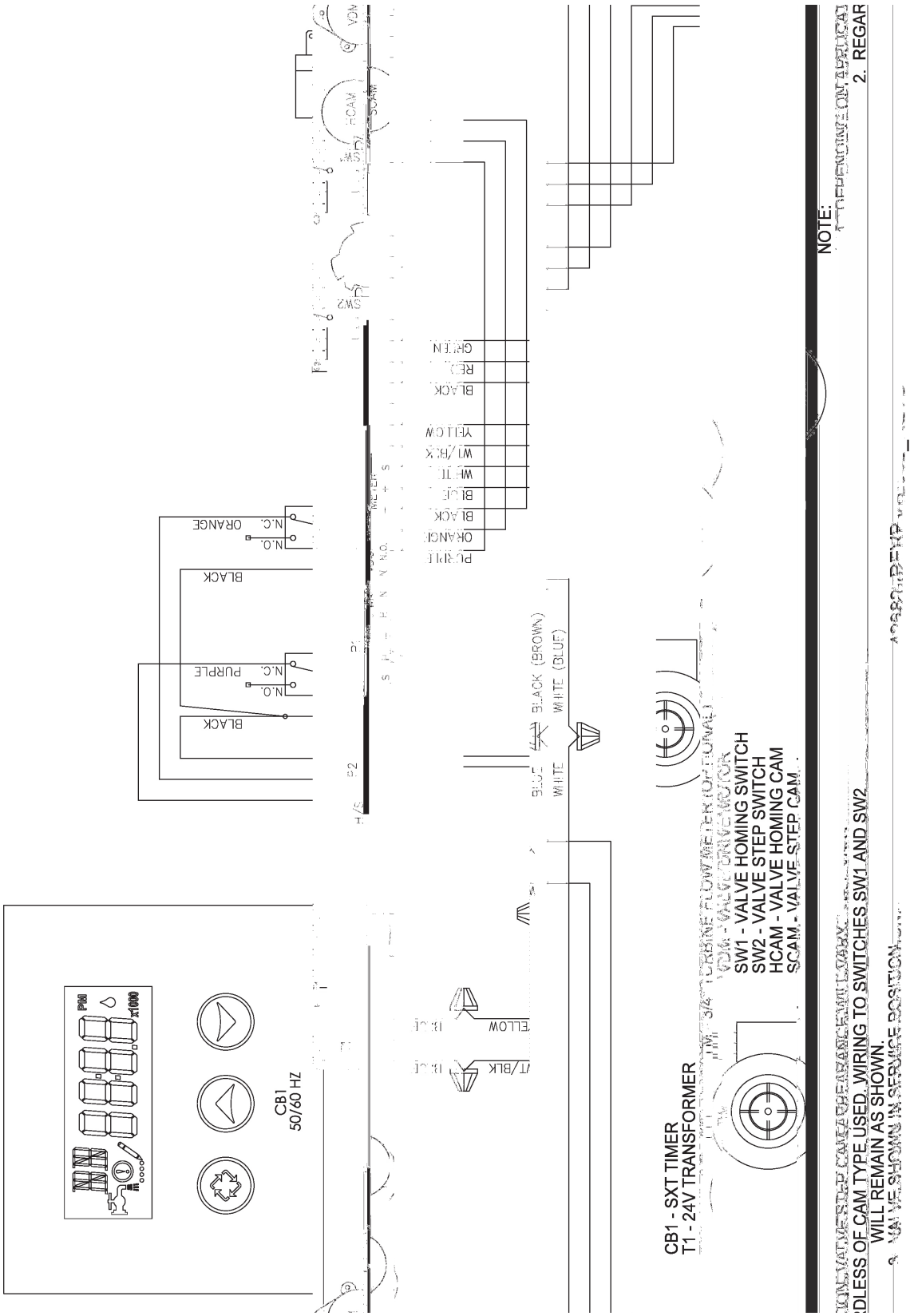


Rapid Rinse



Brine Tank Fill Position

WIRING DIAGRAM



SERVICE INSTRUCTIONS

Replacing Brine Valve, Injectors and Screen

system, ýrst open the valve in the bypass line, then close

Brine Valve Replacement

Timer Replacement

NOTE: Be sure to shut off any bypass line.

Piston Assembly Replacement

bushing is þush with injector body.

Injectors/Screen Replacement

NOTE: Be sure to shut off any bypass line.

NOTE: Be sure to shut off any bypass line.

SERVICE INSTRUCTIONS

Seal and Spacer Replacement

NOTE: Be sure to shut off any bypass line.

Meter Replacement

sure clip legs are ýrmly engaged with lugs.

NOTE: Be sure to shut off any bypass line.

SERVICE ASSEMBLIES

Air Check

Meter

Brine Line Flow Controls

Brine Line Flow Control Washers

Brine Valve Assembly

Bypasses

Drain Line Flow Control Washers

Floats

Front Panels

5600SXT Front Panel Assembly,

5600SXT Front Panel Assembly,

Injector
60084-XXXX

Injector	#	DLFC	#	BLFC	#