



Fleck 5800 LXT & SXT Downflow / Upflow Service Manual



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The chart below is for dealer use only. Use this information

			#000	0.125
9	1.00	30	#000	0.125
10	1.25	35	#00	0.125
10	1.50	40	#00	0.125
12		45	#00	0.125
12	1.75	50	#00	0.125
12	2.00	55	#0	0.25
13		60	#0	0.25
13	2.25	65	#0	0.25
14	2.50	70	#1	0.25
14		75	#1	0.25
14	2.75	80	#1	0.25
14	3.00	85	#1	0.25
14	3.25	90	#2	0.50
14		95	#2	0.50
14	3.50	100	#2	0.50
16	3.75	105	#3	0.50
16		110	#3	0.50
16	4.00	115	#3	0.50

JOB SPECIFICATION SHEET

Job Number: _____

Model Number: _____

Water Hardness: _____

Mineral Tank Size: _____ Diameter: _____

1. Meter Size:

- A. 3/4" Paddle Wheel (Not Used)
- B. 3/4" Turbine
- C. 1" Paddle Wheel (Not Used)
- D. 1" Turbine (Not Used)
- E. 1-1/2" Electronic Inline Plastic Turbine (Not Used)
- F. 1-1/2" Paddle Wheel (Not Used)
- G. 2" Paddle Wheel (Not Used)
- H. Generic _____ Pulse Count _____ Meter Size _____

2. System Type :

- A.
- B. System #4: Time Clock

3. Timer Program Settings:

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

4. Drain Line Flow Control: _____ g p m

5. Brine Line Flow Control: _____ g p m

6. Injector Size#: _____

CAUTION

If grid plate is used, cut with grid plate. This is cr tanks. The brine refill water grid plate and make contact

10.

11.

12.

NOTE: All electrical connections according to local codes. Be uninterrupted.



START - UP INSTRUCTIONS LXT

The water softener should be installed with the inlet, outlet, and drain connections made in accordance with the manufacturer's

- 1.

TIMER OPERATION LXT

Meter Delayed Control

should be set to insure that the system delivers treated water

C o n t r o l O p e r a t i o n D u r i n g R e g e n e r a t i o n

1. Backwash
2. Brine/Slow Rinse
- 3.
- 4.

1. Backwash
- 2.

START - UP INSTRUCTIONS SXT

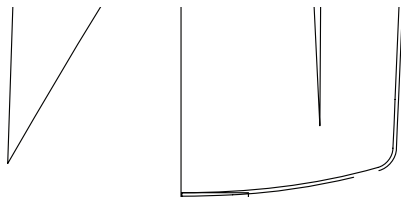
The water softener should be installed with the inlet, outlet, and drain connections made in accordance with the manufacturer's

1.
in this manual.
 2.
button for 5 seconds. Position the valve to backwash.

until the water runs clear.
 - 3.
-

MASTER PROGRAMMING MODE LXT

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



MASTER PROGRAMMING MODE LXT

continued

5800 Filter Meter

DIAGNOSTIC PROGRAMMING MODE

LXT

Demand - US Units	
Diagnostic Code	Description
H1	
H2	
H3	
H4	
H5	
H6	
A1	
A2	
A3	
A4	
A5	
A6	
A7	

Demand - Metric Units	
Diagnostic Code	Description
H1	
H2	
H3	
H4	for the current day, in cubic meters.
H5	
H6	
A1	in cubic meters.
A2	in cubic meters.
A3	in cubic meters.
A4	in cubic meters.
A5	in cubic meters.
A6	in cubic meters.
A7	in cubic meters.

Time Clock	
Diagnostic Code	Description
H1	
H6	

NOTE: The English timer will be in
timer will be in liters for all

Diagnostic Programming Mode Steps



MASTER PROGRAMMING MODE

CHART SXT

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

Master Programming Options			
Abbreviation	Parameter	Option Abbreviation	Options
DF		GAL	Gallons
		Ltr	Liters
VT		5800	5800 Control Valve
RF		dF1b	
		dF2b	
		Fltr	Filter
		AIO	
		dFFF	
		UFbd	
		UFFF	
		Othr	Other
CT		Fd	Meter (Flow) Delayed
		FI	Meter (Flow) Immediate
		tc	Time Clock
		dAY	Day of Week
C			
H	Feedwater Hardness		Hardness of Inlet Water (Grains)
RS	Reserve Selection	SF	
		rc	
SF	Safety Factor		
RC			Fixed volume to be used as reserve
DO	Day Override		
RT			
BW, BD, RR, BF			0-199 minutes. NOTE: If "Othr" is chosen under "Other", C20 will be displayed also in steps RR, BD, SR, BW, RF, SP. Cycle.
D1, D2, D3, D4,			week systems.
CD	Current Day		The Current day of the week
FM		P0.7	3/4" Paddle Wheel Meter
		t0.7	3/4" Turbine Meter
		P1.0	1" Paddle Wheel Meter
		t1.0	1" Turbine Meter
		P1.5	1.5" Paddle Wheel Meter
		t1.5	1.5" Turbine Meter
		P2.0	2" Paddle Wheel Meter
		Gen	Generic or Other non-Fleck Meter
K			

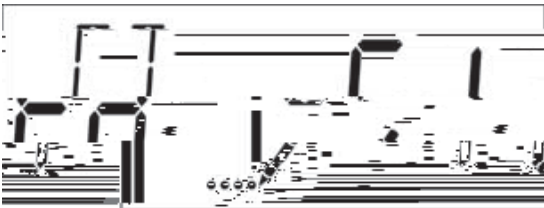
MASTER PROGRAMMING MODE SXT

MASTER PROGRAMMING MODE SXT

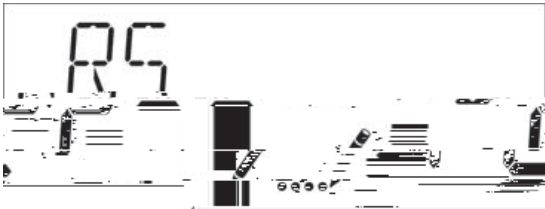
continued

4. Control Type (Display Code 7) Reserve Selection (Display

Abbreviation	Parameter
Fd	Meter (Flow) Delayed
FI	Meter (Flow) Immediate
tc	Time Clock
dAY	Day of Week

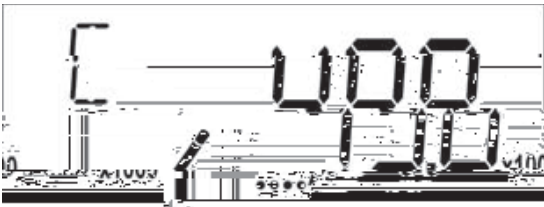


Abbreviation	Parameter
SF	Safety Factor
rc	

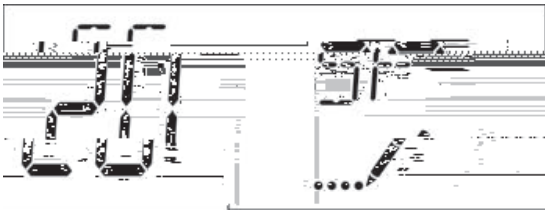


8. Safety Factor (Display Code

5. Unit Capacity (Display Code C)



hand corner of the screen. Use the UP and Down buttons to



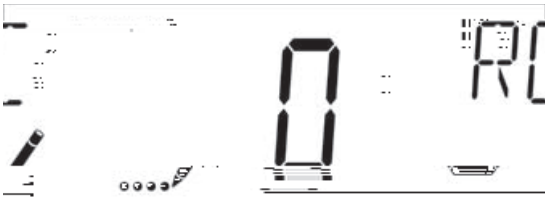
9.Fixed Reserve Capacity (Dis

6. Feedwater Hardness (Display Code H)

value as needed.



value as needed.

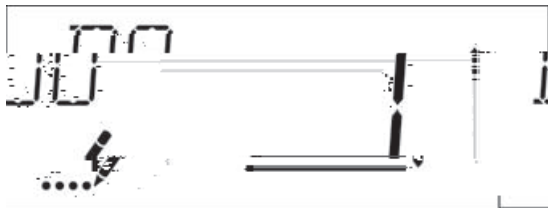


MASTER PROGRAMMING MODE SXT

continued

10. Day Override (Display Code DO)

cycles can be set. Time for each cycle can be set from 0 to 199



11. Regeneration Time



12. Regeneration Cycle Step Times

are listed below.

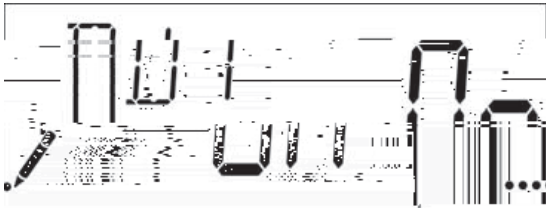
Abbreviation	Cycle Step
BD	Brine Draw
BF	Brine Fill
AD	Air Draw
BW	Backwash
RR	
SV	Service

Abbreviation	Cycle Step
RR	
BD	Brine Draw
SR	Slow Rinse
BW	Backwash
RF	
SP	Service Position
LC	Last Cycle



13. Day of Week Settings

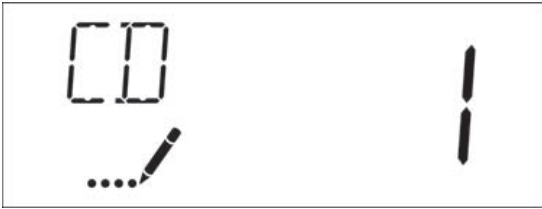
7 days are set to "Off", the unit will return to Day 1 until one or more days are set to "ON".



MASTER PROGRAMMING MODE SXT

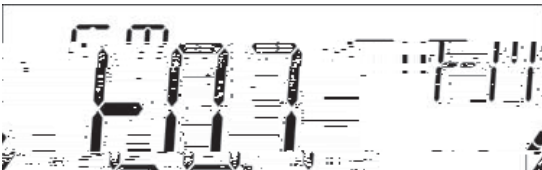
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14. Current Day (Display Code CD)

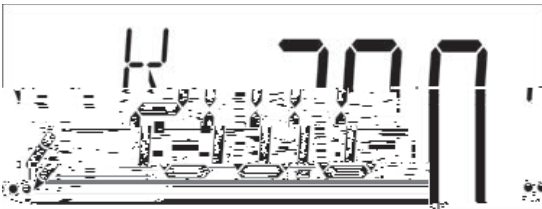


15. Flow Meter Type (Display Code FM)

Abbreviation	Description
P0.7	3/4" Paddle Wheel Meter
t0.7	3/4" Turbine Meter
P1.0	1" Paddle Wheel Meter
t1.0	1" Turbine Meter
P1.5	1.5" Paddle Wheel Meter
t1.5	1.5" Turbine Meter
P2.0	2" Paddle Wheel Meter
Gen	Generic or Other non-Fleck Meter



16. Meter Pulse Setting (Display Code K)



DIAGNOSTIC PROGRAMMING MODE

SXT

POWERHEAD ASSEMBLY LXT

Item No.	Qty	Part No.	Description
1.....	1.....	61832-00.....	Cover Assembly, Black/Blue
2.....	1.....	61836.....	
3.....	1.....	*	E Timer
4.....	1.....	61835.....	Motor Assembly

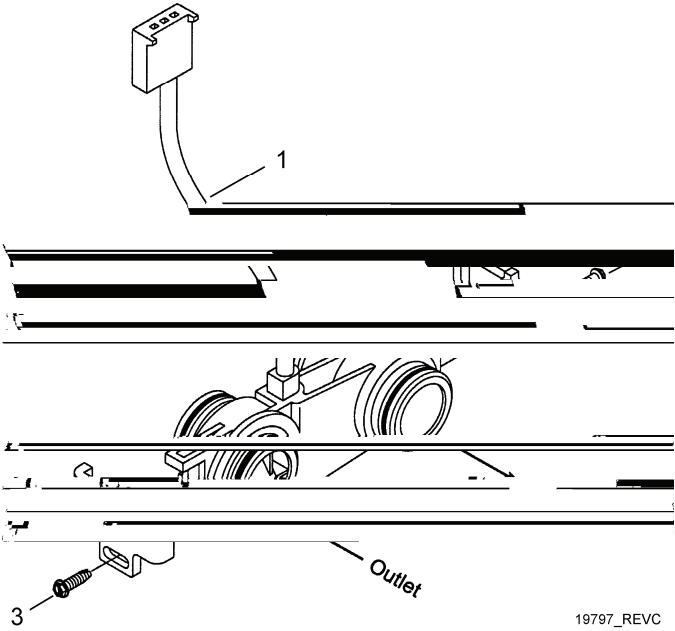
5800 CONTROL VALVE ASSEMBLY

DOWN FLOW / UP FLOW

Item No	QTY	Part No	Description
1	1	61857-20	
			9, 10, 11 and 12)
2	1	18271	
3	1	40064	
4	1	18277	
		18278-20	
		18278-30	
5	2	18262	Screw, Hex Washer Head, #10-24 x 1.00
6	1	10759	
7	1	13333	
8	3	18261	Screw, Hex Washer Head, #10-24 0.81
9	1	13304	
10	1	18303-01	
11	1	18589	Retainer, Tank Seal
12	1	13030	
13	1	18312	
14	1	14613	
15	1	60628	Meter Assy, Turbine, Electronic
16		61837	Piston and Seal Kit Assy,
		61838	5800
17	1	60032	Brine Valve, 4600/5600
18		60022-25	
		60022-50	
		60022-100	
19		60705-00	DLFC, Plastic, Blank
		60705-06	

3 / 4 " P L A S T I C T U R B I N E I N L E T V A L V E A S S E M B L Y

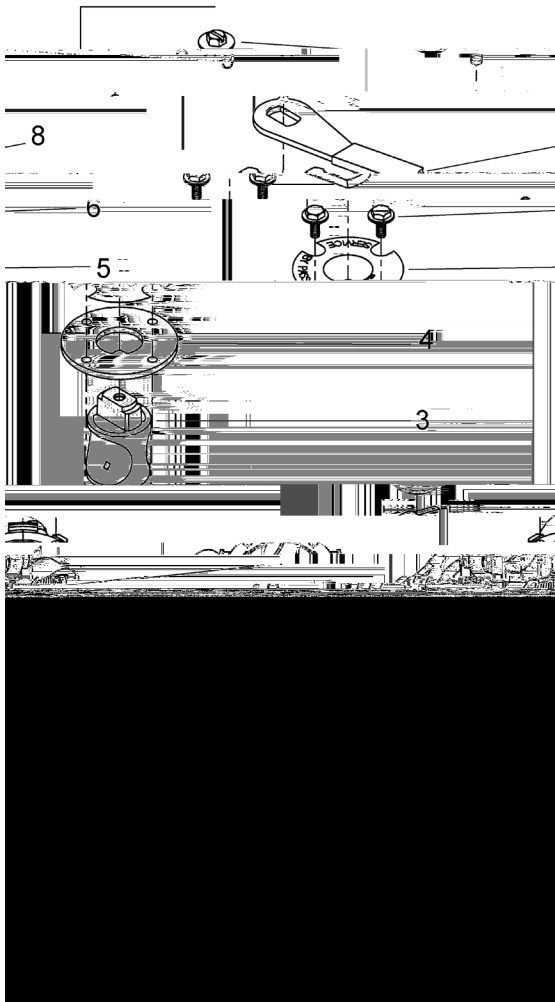
ASSEMBLY



Item	Qty	Part No	Description
1	1	19791-01	
2	2	19569	
3	2	13314	Screw, Slot Ind Hex, 8-18 x 0.60

Item	Qty	Part No	Description
1	2	13305	
2	2	13255	
3	2	13314	Screw, Slot Ind Hex, 8-18 x 0.60
4	1	18706	Yoke, 1", NPT, Plastic
		18706-02	Yoke, 3/4", NPT, Plastic
5	1	13708-40	Yoke, 1", Sweat
		13708-45	Yoke, 3/4", Sweat
		19275	
		19275-45	
		19620-01	
		40636	

BYPASS VALVE ASSEMBLY 2310 SAFETY BRINE VALVE



Item No	QTY	Part No	Description
1.....	1	19645.....	Body, Safety Brine Valve, 2310
2.....	1	19803.....	Safety Brine Valve Assy
3.....	1	19804.....	Screw, Sckt Hd, Set, 10-24 x 0.75
4.....	1	19805.....	Nut, Hex, 10-24, Nylon Black
5.....	1		

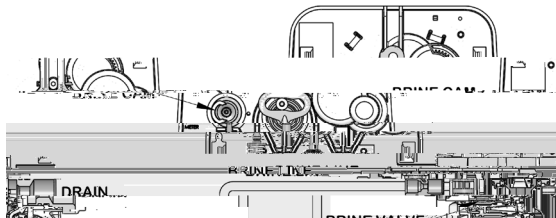
Item No	QTY	Part No	Description
1.....	1	40614.....	
		40634.....	
2.....	1	14105.....	
3.....	1	11972.....	
4.....	1	11978.....	Side Cover
5.....	1	13604-01.....	Label
6.....	8	15727.....	Screw, 10-24 x 0.5"
7.....	1	11986.....	Side Cover
8.....	1	11979.....	
9.....	1	11989.....	Screw, Hex Head, 1/4-14 x 1.5"
10.....	1	60040SS.....	
		60041SS.....	

Not Shown :
2 19228-01.....

WATER CONDITIONER FLOW DIAGRAMS

Downflow

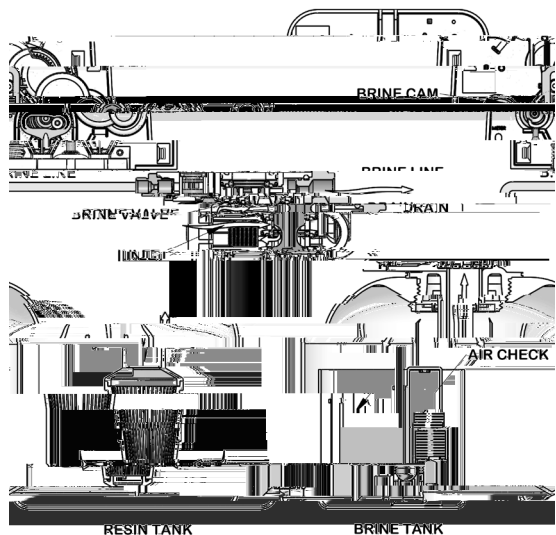
1. Service Position



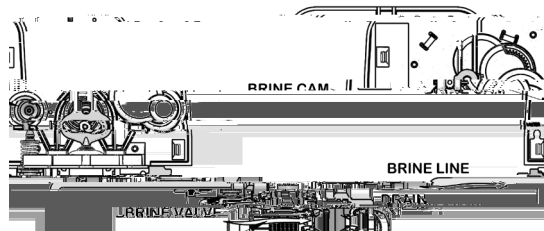
2. Backwash Position



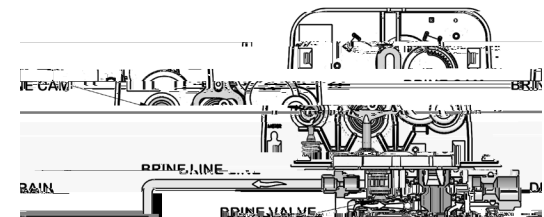
3. Brine/Slow Rinse Position



4. Rapid Rinse Position



5. Brine Tank Refill Position



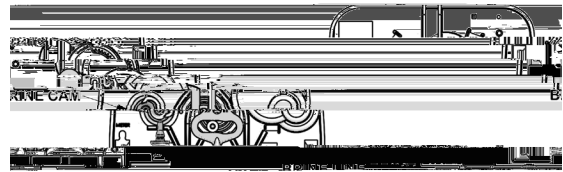
WATER CONDITIONER FLOW DIAGRAMS *continued*

Up flow

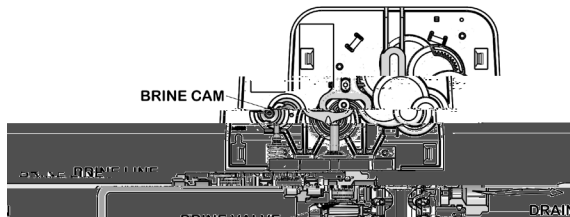
1. Service Position



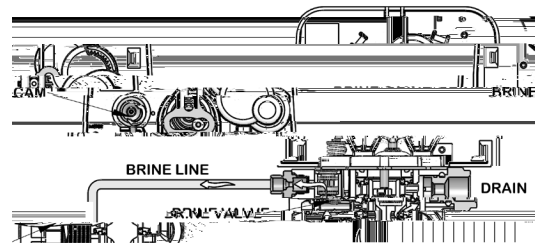
4. Rapid Rinse Position



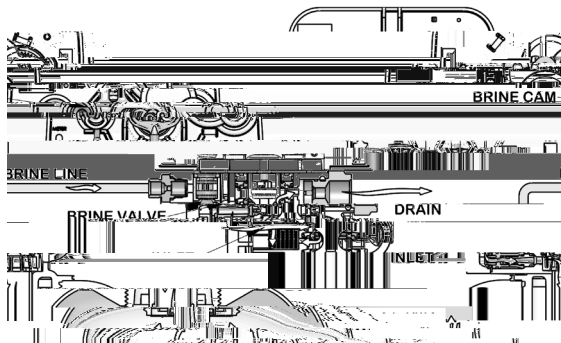
2. Backwash Position



5. Brine Tank Refill Position



3. Brine / Slow Rinse Position



TROUBLESHOOTING LXT

Error Codes

NOTE: Error codes appear on the In Service display.

Error Code	Error Type	Cause	Reset and Recovery
---0	Motor Stall /Cam Sense Error	sensor are detected for 6 seconds.	

TROUBLESHOOTING SXT

Error Codes

NOTE: Error codes appear on the In Service display.

Error Code	Error Type	Cause	Reset and Recovery
---0	Motor Stall /Cam Sense Error	sensor are detected for 6 seconds.	necessary.
---1	Motor Run-On Error /Cycle Sense Error		button to clear the error. Press extra cycle button to advance motor to clear error.
---2		for more than 99 days (or 7 days Day-of-Week).	of-Week system, verify that at least one day is set ON. Correct the
---3	Memory Error	Control board memory failure.	
---4	Fail Safe Error	one minute.	

