3200NXT

Service Manual

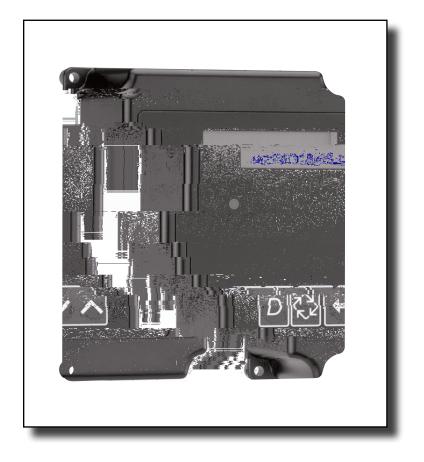
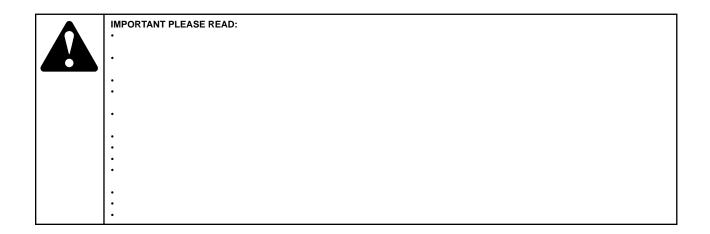


Table of Contents

	3
	4
	6
	-
	1
	8
	9
	3
	0
	1
- 	•
	~
	•
	8
	0
	1
32	2
	-



Job Specifcation Sheet

3

3

Please Circle and/or Fill in the Appropriate Data for Future Reference:

Programming Mode:

Master Programming Mode:

Valve Type:

2750 / 2850 / 2900s / 3150 / 3900 / Stager

Timer Operation

Setting the Time of Day

NOTE: Set Time of Day on the Lead Unit (#1) and the rest of the units in the system will populare with the Time of Day within 10 seconds.

1.

2.

3.

4.

NOTE: The "D" button (Diagnostic) can be pressed to exit without saving.

Manually Initiating a Regeneration

1. 2.

2. 3.

з. 4.

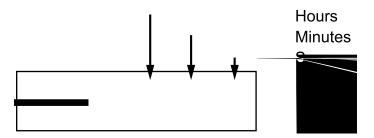
4. 5.

6.

7.

NOTE:

Timer Operation During Regeneration

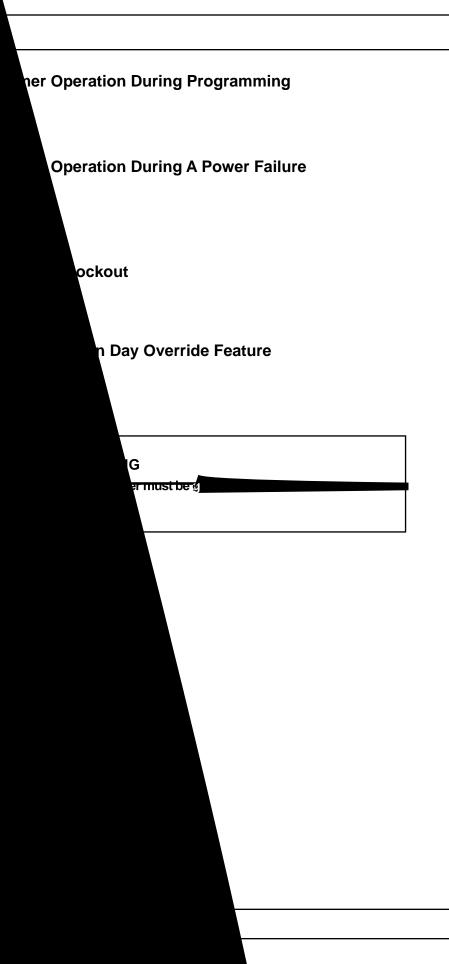


Example:

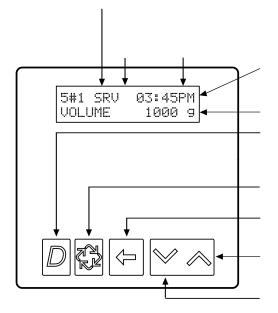


Flow Meter Equipped Timer

Timer Operation



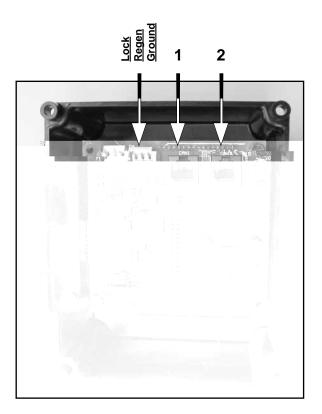
Timer Display Features



Timer Display - Screen Examples

4# SRV 03:45PM REGEN IN 07 DAYS	Example:
4# SRV* 03:45PM VOLUME 1000 9	Example: 1. or 2.
5#1 SRV* 03:45PM	Example:
VOLUME 1000 9	1.
5#3 SRV 03:45PM	Example:
VOLUME 1000 9	1.
6#1 SRV* 03:45PM	Example:
SYSVOL 4000 g	1.

Network/Communication Cables & Connections



3200NXT Circuit Board

Two-Unit System: Three-Unit System: Four-Unit Systems:

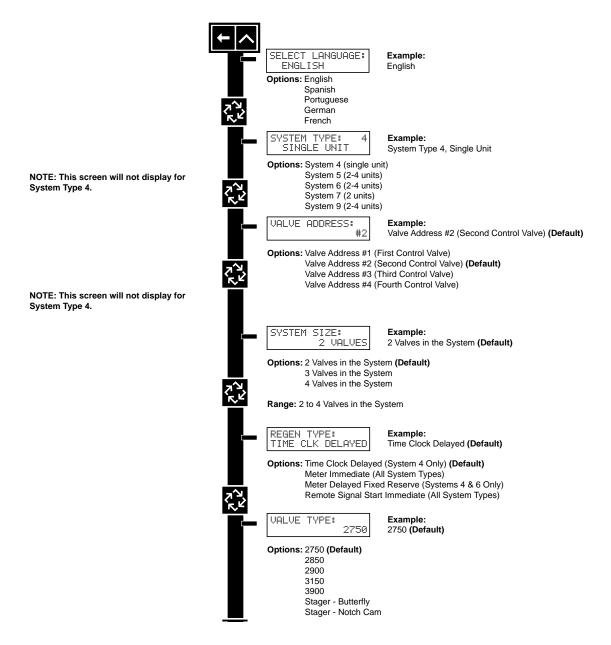
NOTE: Depending on current option settings, some displays cannot be viewed or set.

Entering Master Programming Mode:

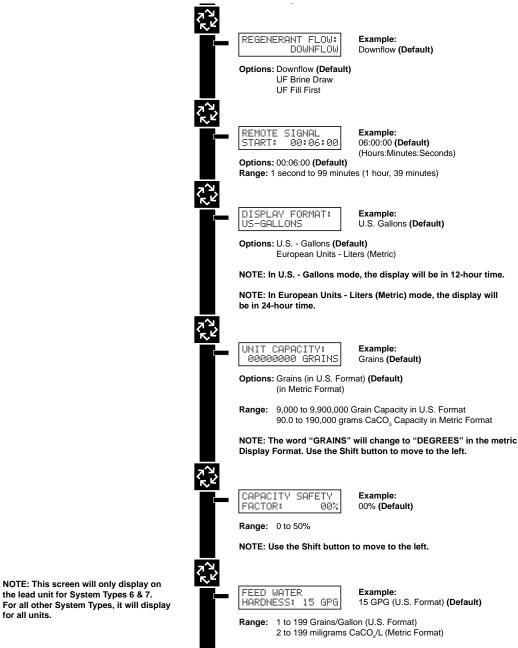
1.

2.

NOTE: If the "D" button is pressed while in master programming, no changes will be saved.

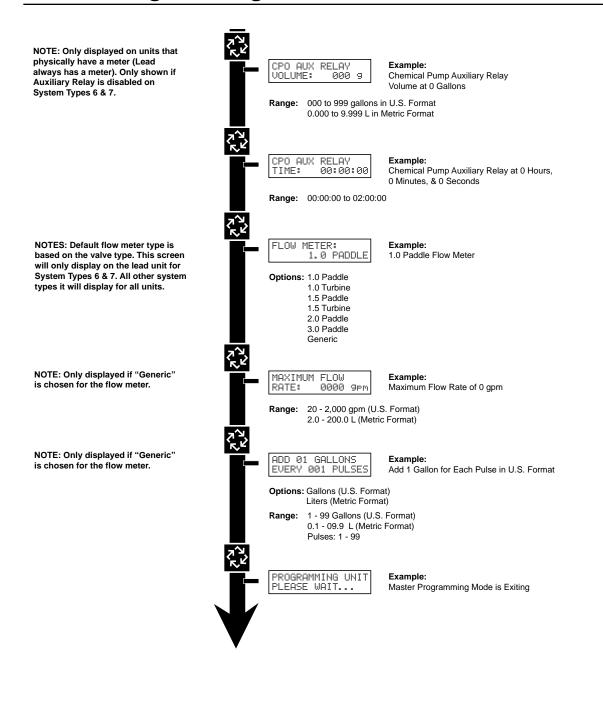


NOTE: Depending on current option settings, some displays cannot be viewed or set.



NOTE: Use the Shift button to move to the left.

for all units.



Master Programming Guide

NOTE: Depending on current option settings, some displays cannot be viewed or set. Entering Master Programming Mode:

OR

12:01 PM or 12:01HR

Exiting Master Programming Mode:

NOTE: If no keypad activity is made for 5 minutes while in the Master Programming Mode, or if there is a power failure, no changes will be made, and the unit will go back to the main display screen.

Resets:

Soft Reset:

Master Reset:

1. Choice of Language

1.

2.

2. System Type

1.

2.

SYSTEM	TYPE:	4
SINGL	E UNIT.	

3. Valve Address

1.

2.

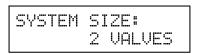
VALVE ADDRESS: # 2

Master Programming Guide

4. System Size

1.

2.



5. Regeneration Type

1.

2.

6. Valve Type

1.

2.

VALVE TYPE:

7. Regenerant Flow

1.

2.

REGENERANT FLOW: DOWN FLOW

8. Remote Signal Start

1.

2.

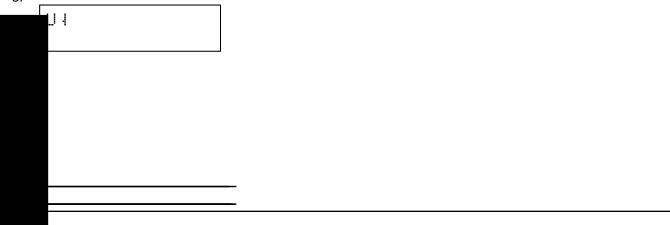
9. Display Format

1.

2.

10. Unit Capacity

3 3 3 3 1. 2. 3.



11. Capacity Safety Factor

Range: 1. 2. 3. CAPACITY SAFETY FACTOR: 00%

12. Feed Water (Hardness)

U.S. Range:

Metric Range:

1.

2.

3.

FEED WATER HARDNESS:015 GPG

13. Regeneration Day Override

Default: Range: NOTE: 1. 2. 3. REGENERATION DAY OVERRIDE: OFF REGENERATION DAY OVERRIDE: 01 DAYS

3

Master Programming Guide

14. Regeneration Time

Default U.S.: Default Metric: 1. 2. 3. REGENER 1

15. Regeneration Cycle Steps

16. Auxiliary Relay Output

AUXILIARY	
	ENABLED

17. Timed Auxiliary Relay Output Window (Start & End Time Setting, If Auxiliary Relay is Enabled)

Start Time:

End Time:

AUX RELI	AV OUTPUT
START	00:00:00

AUX	RELAY OUTPUT
END	00:00:00

18. Chemical Pump Auxiliary Relay Output Window

U.S. Range: Metric Range:

CHEMICAL PUMP:	Γ		RELAY		CPO_AUX	RELAY
ENABLED		VOLUME:	000	g	TIME:	00:00:00

Master Programming Guide

19. Fleck Flow Meter Size (Default to Valve Type)

1. 2. FLOW METER: .75 PADDLE

20. Maximum Flow Rate

1. 2. 3. MAXIMUM FLOW RATE: 0000 gpm

21. Pulses per Gallon/Liter

1. 2. 3.

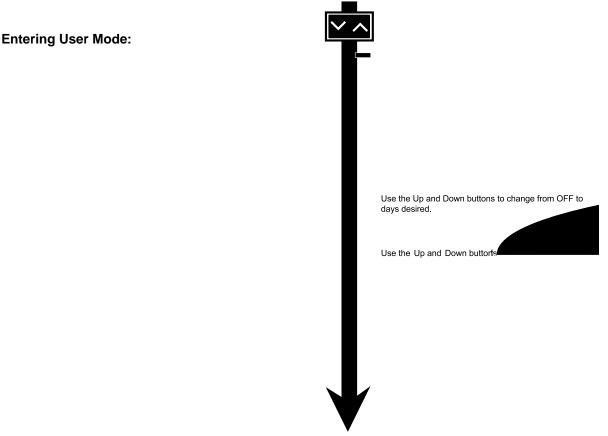
ADD 01 GALLONS EVERY 001 PULSES

22. End of Master Programming Mode

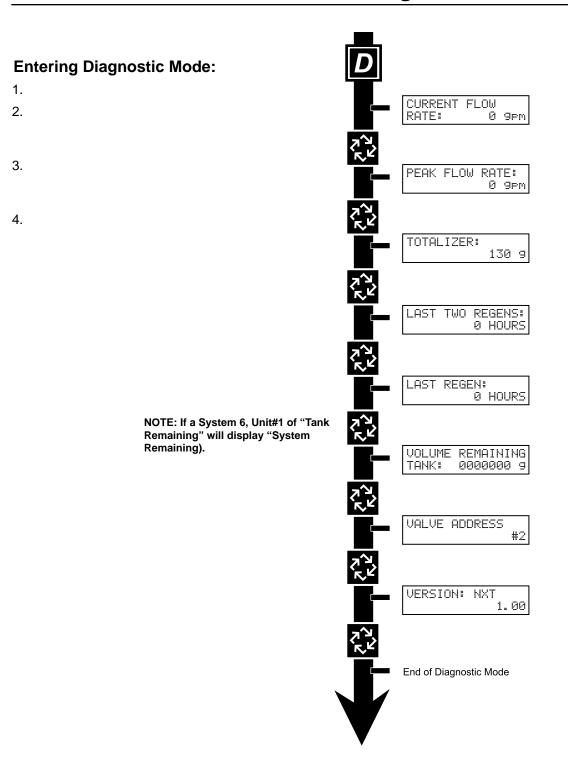
PROGRAM	IMING	UNIT
PLEASE	WAIT.	

User Mode Programming Flow Chart

NOTES: User Mode is only displayed when a metered option is chosen under System Type. Depending on current option settings, some displays cannot be viewed or set.



Diagnostic Mode Flow Chart



Diagnostic Programming Guide

Overview Diagnostic Mode

Entering and Exiting Diagnostic Mode

Current Flow Rate

1" Paddle Meter Maximum Flow Rate:

1.5" Paddle Meter Maximum Flow Rate:

2" Paddle Meter Maximum Flow Rate:

3" Paddle Meter Maximum Flow Rate:

1" and 1.5" Turbine Meter:

1.

CURRENT	FLOW	
RATE:	0	9pm

Peak Flow Rate

Range:

1.

PEAK	FLOW	RATE:
		0 9PM

Totalizer

NOTE: The user cannot edit below the current volume remaining.

1.

2.

TOTALIZER: 0000000 9

Diagnostic Programming Guide

Hours Between Last Two Regenerations

1.

LAS

Hours Since Last Regeneration

1.

Volume Remaining (This Tank Only)

NOTE: Volume Remaining will not display for System Type 6.

1.

2.

3.

Volume Remaining (System)

1.

Diagnostic Programming Guide

Valve Address

1.



Software Version

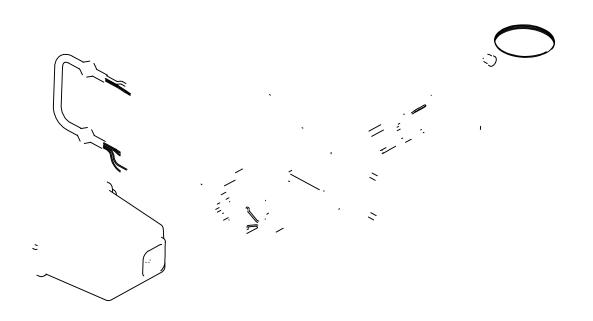
1.

VERSION:	NXT
	×. ××

NOTE: Diagnostic Mode programming will stop if the system goes into regeneration.

Notes

2750/2850/2900 Upper & 2900 Lower Powerhead Assy

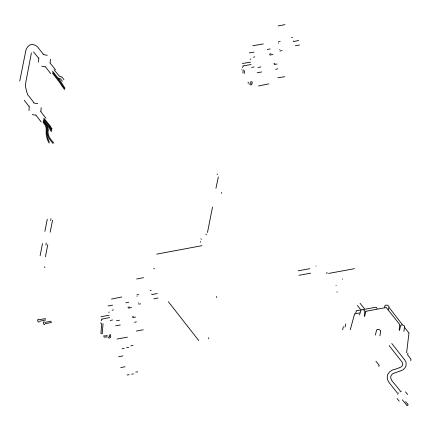


2750/2850/2900 Upper & 2900 Lower Powerhead Assy

Item No.	Quantity	Part No.	Description
• · · · · · · · ·		10909	
		14923	
		10302	
7		10218	
8	2	10231	
9	1	41544	
10		12777	
		10338	
		41034	
		41049	
		41050	
		19691	
		19800	
		15806	
		19801	
		17967	
		10896	
		11805 40943	
20		40943 13547	
		19121	
		-	
		40941	
		17421	
		41581	
27			
28		18626	
29	1	18746	
30		11224	
31	1	10250	
		10872	
		18709	
34		11381	
		14759	
		14769	
		14775	
		16346 18725	
		18725 40388	
		40388 14813	
		41102	
		10269	
		10209	
		41692	

NOTE: For all other service part numbers, see the Service Manual that accompanies the control valve.

3150/3900 Upper & 3900 Lower Drive Powerhead Assy

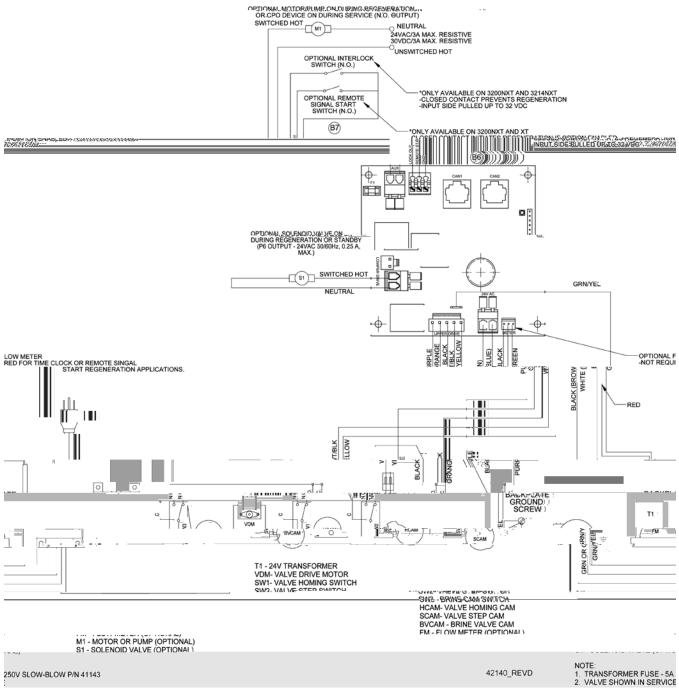


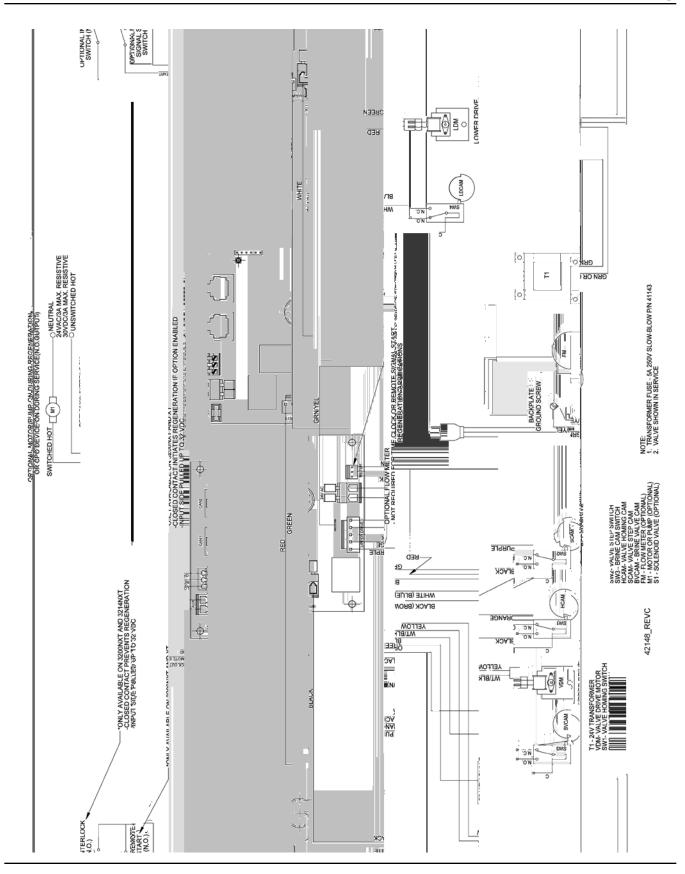
3150/3900 Upper & 3900 Lower Drive Powerhead Assy

Item No.	Quantity	Part No.	Description
3			
4			
• • • • • • • • • • • • • • • • • • • •		17797	
	-		
-			
12			
		16046	
-		11709 	
-			
-			
-	-		
33		40941	
		40943	
		41050 	
		-	
-			
	2		
46			
02			

NOTE: For all other service part numbers, see the Service Manual that accompanies the control valve.

2750/2850/3150 Input & Output Wiring





2900/3900 Input & Output Wiring

Troubleshooting

Detected Errors

NOTE: It can take up to 30 seconds for an error to be detected and displayed. All errors on each timer in the system must be displayed before the errors can be corrected.

NOTE:

Cause	Correction

Programming Errors

Programming Errors Detected:

Solution:

NOTE:

Troubleshooting

Cause	Correction

Example Error Screens

DETECTED ERROR= E2 RESET UNIT	Detected Error 1.
DETECTED ERROR= NO MESSAGE #1	No Message #1 1. 2. 3.
DETECTED ERROR= NO MESSAGE #3	No Message #3 1. 2. 3.
DETECTED ERROR= PROGRAM MISMATCH	Program Mismatch 1.
DETECTED ERROR= EXCEED UNIT SIZE	Exceed Unit Size
DETECTED ERROR= MATCHING ADDRESS	Matching Address 1. NOTE: The rest

ge #1

it Size

NOTE: The rest of the system will still function without this unit.

Notes

Notes