3200NXT

S vic Manual



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Job Specif cation Sheet

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

Programming Mode:

Feed Water Hardness:	Gr	ains per Gallon or Degrees	
Regeneration Time:	Delayed	AM/PM or	Immediate
Regeneration Day Override:	Off or Every	Days	
Time of Day:			
Master Programming Mode:			
Valve Type:	2750 / 2850 / 29	900s / 3150 / 3900 / Stager	,
Regenerant Flow:	Downfow / Upf	ow Brine Draw First / Upfo	w Brine Fill First
Valve Address:	#1 / #2 / #3 / #4		
Display Format:	US Gallons or L	iters	
Unit Capacity:	Gr	ains or grams CaCO	
Capacity Safety Factor:	Zero or	%	
Feed Water Hardness:	Gr	ains or milligrams CaCO /L	
System Size:	1 Valve / 2 Valv	es / 3 Valves / 4 Valves	
Regeneration Cycle Step #1:	:_::		
Regeneration Cycle Step #2:	:_::		
Regeneration Cycle Step #3:	:_::		
Regeneration Cycle Step #4:	:_::		
Regeneration Cycle Step #5:	:_::		
Timed Auxiliary Relay Output Wi	indow:		
	Off or Start Time	e::	
	End Time :	:	
Chemical Pump Output Auxiliary	Relay: Off or Vo	lume (Gallons or Liters)	
	Time: : :		
Fleck Flow Meter Size:	Paddle: 1"	1.5" 2" 3"	
	Turbine: 1" 1.	5"	
Generic Flow Meter:	Maximum Flow	Rate:	
	Add Gallo	ns every Pulses	

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.

Press and hold the Up or Down button for 2 seconds.

Press the Shift button to select the digit you want to modify.

Press the Up or Down buttons to adjust the value.

Press the Extra Cycle button to return to the normal display screen, or after a 5 second timeout.

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

Manually Initiating a Regeneration

When timer is in service or stand by, press the Extra Cycle button for 5 seconds on the main screen. The timer advances to Regeneration Cycle Step #1, and begins programmed time count down. Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #2 (if active). Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #3 (if active). Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #4 (if active). Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #4 (if active). Press the Extra Cycle button once to advance valve to Regeneration Cycle Step #5 (if active). Press the Extra Cycle button once more to advance the valve back to in service.

NOTE: A manually initiated or queued regeneration can be cleared by pressing the Extra Cycle button for less than 5 seconds. A system queued regeneration can only be cleared by stepping through a manual regeneration. If regeneration occurs for any reason prior to the delayed regeneration time, the manual regeneration request shall be cleared. Pressing the Extra Cycle button while in regeneration will cause the upper drive to advance to the next step immediately.

Timer Operation During Regeneration

In the Regeneration Cycle Step display, the timer shows the current regeneration cycle number the valve is on, or has reached, and the time remaining in that step. Once all regeneration steps are complete the timer returns to in Service and resumes normal operation.



Example: 12 Minutes Remaining in Cycle 1 (Back Wash)



Press the Extra Cycle button during a Regeneration Cycle to immediately advance the valve to the next cycle step position and resume normal step timing.

Flow Meter Equipped Timer

- During normal operation, the Time of Day screen alternates with the error screen (if errors are present).
- As treated water is used, the Volume Remaining display counts down from the calculated system capacity to zero. When this occurs a Regeneration Cycle begins if no other units are in regeneration.

Timer Operation During Programming

The timer enters the Program Mode in standby or service mode as long as it is not in regeneration. While in the Program Mode the timer continues to operate normally monitoring water usage. Timer programming is stored in memory permanently.

Timer Operation During A Power Failure

All program settings are stored in permanent memory. Current valve position, cycle step time elapsed, and time of day are stored during a power failure, and will be restored upon power re-application. Time is kept during a power failure, and time of day is adjusted upon power up (as long as power is restored within 12 hours).

NOTE: The time of day on the main display screen will fash for 5 minutes when there has been a power outage. The fashing of the time of day can be stopped by pressing any button on the display.

Remote Lockout

The timer does not allow the unit/system to go into Regeneration until the Regeneration Lockout Input signal to the unit is cleared. This requires a contact closure to activate the unit. The recommended gauge wire is 20 with a maximum length of 500 feet. See P4 remote inputs in the wiring diagrams in the service manual.

Regeneration Day Override Feature

If the Day Override option is turned on and the valve reaches the set Regeneration Day Override value, the Regeneration Cycle starts if no other unit is in Regeneration. If other units are in regeneration, it is added to a regeneration queue. This occurs regardless of the remaining volume available.

WARNING

Transformer must be grounded and ground wir



Example:

In Service: System 4 Time Clock

4#	SRU*	03:45PM
VOLU	JME	1000 9

Example:

In Service:

System 4 Flow Meter Initiated

System 4 Flow Meter Delayed

5#1	SRU*	03:45PM
VOLU	JME	1000 9

Example:

In Service:

System 5 Flow Meter Initiated (Lead Unit)

5#3	SRV	03:45PM
VOLU	JME	1000 g

Example:

In Service:

System 5 Flow Meter Initiated (Lag Unit #3)

6#1	SRU*	03:45PM
SYS	VOL	4000 g

Example:

In Service:

System 6 Flow Meter Initiated (Lead Unit)

Use either a CAT3 or CAT5 Network/Communication cable.

- 1. Connect the network/communication cable frst before programming.
- 2. The maximum cable lenth between timers is 100 feet.
- 3. Connect each unit together from one communication port to the next communication port. It does not matter which one goes to the next one.



3200NXT Circuit Board

The number of network/communication cables needed for setup is one less than the total number of valves.

Two-Unit System:One network/communication cableThree-Unit System:Two network/communication cablesFour-Unit Systems:Three network/communication cables

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

Entering Master Programming Mode:

Press and hold the Shift and Up buttons for 5 seconds.

Press the Extra Cycle button once per display until all displays are viewed and Normal Display is resumed. Option setting displays may be changed as required by pressing either the Up or Down button. Use the Shift button to move one space to the left.

Depending on current valve programming, certain displays may not be viewed or set.

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.

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

for all units.



When the Master Programming Mode is entered, parameters can be set to make the timer(s) function as needed.

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

Entering Master Programming Mode:

- 1. Press and hold the Shift and Up buttons for 5 seconds.
- 2. Set the time of day display to **12:01 PM or 12:01HR** (See the "Setting the Time of Day" section on the "Timer Operation" page). Then go to the main display screen, press the Up and Down buttons at the same time for 5 seconds.

Exiting Master Programming Mode:

- 1. Press the Extra Cycle button once per display until all are viewed. Master Programming Mode is exited and the normal display screen appears.
- 2. To exit the Master Programming Mode without saving, press the Diagnostic button.

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: Press and hold the Up and Down buttons for 25 seconds until 12:00PM (or 12:00HR) appears. This resets all parameters except for the fow meter totalizer volume. **Master Reset:** Hold the Extra Cycle button while powering up the unit. This resets all of the parameters in the unit. Check and verify the choices selected in Master Programming Mode.

1. Choice of Language

This option selectS the language for programming and display.

Use Up or Down to select language.

Press the Extra Cycle buttom.

SELECT	LANGUAGE
ENGL1	SH

2. System Type

This program type selects the system type (4, 5, 6, 7, or 9).

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

SYST	EM 1	'YPE:	: 4	
SI	NGLE	E UNI	ΙT	

3. Valve Address

This program step selects the valve address (1, 2, 3, or 4) within the network needed for each timer for communication. The #1 is the "master" or "lead" which contains programmed parameters, that will be used by all of the timer(s) in the network to control Regeneration, in Service, or Standby of all the valve(s) in the system.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

VALVE ADDRESS: # 2

4. System Size

This program step is used to set up the number of valves (1, 2, 3, or 4) in the system.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

5. Regeneration Type

This program step is used to set up the trigger type.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

REGEN TIM	TYPE:
--------------	-------

6. Valve Type

This program step selects the valve type (2750, 2850, 2900s, 3150, 3900, Stager-Butterfy, or Stager-Notch Cam)

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.



7. Regenerant Flow

This program step selects the regenerant fow type (Downfow, Upfow, or Upfow Fill First)

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

REGENERANT	FLOW:
DOWN	FLOW

8. Remote Signal Start

This program step selects the remote signal start. Hours, minutes, and seconds can be changed. When Remote Signal Start is active, the main screen will display. The options are either Off or set to the desired time.

Use Up or Down buttons to adjust this value.

Press the Ex	tra Cycle button.
REMOTE	SIGNAL
START:	00:00:00
L	
S#1 CD	114 A5:300M
OTTL DK	va obiborn
ISTANOL	00:0A:00

Example of setting Remote Signal Start to 6 minutes. The display counts down to 0. If Remote Signal Start is detected for 6 minutes, it will remotely signal start.

9. Display Format

This program step is used to set the desired volume display format. This option must be the same on all system units. U.S. will display volumes in gallons and is in 12 hour timekeeping. Metric will display volumes in liters and is in 24 hour timekeeping.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

DISPLAY	FORMAT:
US-GALLO	INS

10. Unit Capacity

This program selects the individual timer's total capacity of hardness that can be removed. The unit capacity is measured in grains if in U.S. mode and grams CaCO in Metric mode.

U.S. Range: 9,000 to 9,900,000 Grains (Default = 300,000 Grains)

Metric Range: 90.0 to 199,000.0 grams CaCO (Default = 300.0 grams CaCO)

Use the Shift button to select the digit you want to modify.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

UNIT CAPACITY:	
300000 GRAINS	

11. Capacity Safety Factor

This program step is used to adjust the capacity of the system. This is a percentage by which the unit's capacity is reduced.

Range: 0 – 50% (Default = 0%)

Use the Shift button to select the digit you want to modify.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

CAPACIT	Y SAFETY
FACTOR:	00%

12. Feed Water (Hardness)

This program step is used to set the feed water hardness. The system will automatically calculate volume remaining based on the Unit Capacity, Capacity Safety Factor and Feed Water Hardness entered.

U.S. Range: 1 – 199 gpg (Grains per Gallon)(Default = 15)

Metric Range: 2 – 199 milligrams CaCO /Liter (Default = 30)

Use the Shift button to select the digit you want to modify.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

FEED	WATER	
HARDN	ÆSS:015	GPG

13. Regeneration Day Override

This program step sets the maximum amount of time (in days) the unit can be In Service without a Regeneration.

Default: OFF

Range: 1 - 99 Days

NOTE: If "On," the screen for regeneration time will display.

Use the Shift button to select the digit you want to modify.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

REGENERAT	ION DAY
OVERRIDE:	OFF

REGENERATION DAY OVERRIDE:01 DAYS

eneration Time

am step sets time of day for a delayed regeneration to occur, or regeneration day override.

.S.: 02:00 AM

letric: 02:00 HR

he Shift button to select the digit you want to modify.

Ip or Down buttons to adjust this value.

the Extra Cycle button.

SENER

eneration Cycle Steps

am step programs the Regeneration Cycle step times 1 through 5. Please refer to the chart below for it fow default cycle steps and times.

liary Relay Output

two displays are part of a series of settings used to program the optional relay output. The frst setting putput on/off during Regeneration only. The second turns the output on during Service only, every time a e of water used has accumulated.



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

This option setting consists of two displays. The frst display sets the turn-on time of the output, referenced to the start of the frst Regeneration Cycle. The second display sets the output turn-off time, referenced again to the start of frst Regeneration Cycle.

Start Time:

Anytime During Regeneration (Except Last Minute of the Regeneration Time)

End Time:

At start time, and anytime during the regeneration cycle.

AUX RELAY OUTPUT	AUX	RELAY OUTPUT
START 00:00:00	END	00:00:00

18. Chemical Pump Auxiliary Relay Output Window

This option setting consists of two displays. The frst display sets the volume of water fow at which the output turns on. The second display sets the time of the output.

U.S. Range: 0 – 999 Gallons (1 – 999 Seconds)

Metric Range: 0.00 - 9.99 m3 (1 - 999 Seconds)

Activate Output After Volume Set is Reached.

Use the Shift button to move one space to the left for each number entered.

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.

CHEMICAL PUMP: CPO	AUX RELAY	CPO AUX RELAY
ENABLED VOLU	UME: 000 g	TIME: 00:00:00

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

This program step sets the size of the Fleck fow meter.

- 1.0" Paddle (2750 Default)
- 1.5" Paddle (2850/2900 Default)
- 2.0" Paddle (3150 Default)
- 3.0" Paddle (3900 Default)
- 1.0" Turbine
- 1.5" Turbine
- Generic Flow Meter

Use Up or Down buttons to adjust this value.

Press the Extra Cycle button.



20. Maximum Flow Rate

This program step sets maximum fow rate of the generic fow meter.

- 1. Press the Shift button to select the digit you want to modify.
- 2. Press the Up or Down buttons to adjust this value.
- 3. Press the Extra Cycle button.



21. Pulses per Gallon/Liter

This program step sets the pulses per gallon/liter for generic fow meters.

- 1. Press the Shift button to select the digit you want to modify.
- 2. Press the Up or Down buttons to adjust this value.
- 3. Press the Extra Cycle button.

ADD	01	GAL	.LC	INS
EVERY	00	1 F	PUL	.SES

22. End of Master Programming Mode

PROGRAM	4MING	UNIT
PLEASE	WAIT.	

d ype. ie .

om OFF to, ا

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Diagnostic Mode Flow Chart



Diagno tic Pogamming Gui

When the Diagnostics Mode is entered, all available displays are viewed as needed. Depending on current option settings, some displays cannot be viewed.

Overview Diagnostic Mode

The current diagnostic will be displayed until Extra Cycle key is pressed. There is no time limit on each display. The timer will display individual valve information, not system information. In the event of regeneration occurring while displaying diagnostics, the regeneration step and time remaining will be displayed. When regeneration has been completed, the display will return to the normal Time of Day display.

Entering and Exiting Diagnostic Mode

Push and Release the "D" button to enter. Pressing the Extra Cycle button will move to the next diagnostic to be displayed. Push the Extra Cycle button once per display until all are viewed. Pressing the Diagnostic button, while in the Diagnostic Mode, will cause the unit to leave the Diagnostic Mode and return to the normal time of day display.

Current Flow Rate

Flow Rate for this particular Timer will be calculated and displayed. Flow rates will be calculated every second. The display updates once per second. Flow rates are dependent upon the meter used.

- 1" Paddle Meter Maximum Flow Rate: 75 gpm (.28 m3/m)
- 1.5" Paddle Meter Maximum Flow Rate: 90 gpm (.34 m3/m)
- 2" Paddle Meter Maximum Flow Rate: 175 gpm (.66 m3/m)
- 3" Paddle Meter Maximum Flow Rate: 350 gpm (1.32 m3/m)
- 1" and 1.5" Turbine Meter: 75 gpm

Press the Extra Cycle button.

CURRENT	FLOW	
RATE:	0	9pm

Peak Flow Rate

The Peak Flow Rate since the last regeneration will be captured.

Range: 0 to Maximum Number

Press the Extra Cycle button.



Totalizer

The total volume of treated water that passes through a meter will be counted. **NOTE: The user cannot edit below the current volume remaining.**

Reset to zero by holding the Up and Down arrow keys for 5 seconds during the Totalizer display.

Press the Extra Cycle button.

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Valve Address

This diagnostic display is for 2 control valves or more in a system (a single valve will not display).

Depress the Extra Cycle button.

VALVE	ADDRESS:	
	#	2

Software Version

The electronic timer's software program version number will be displayed.

Depress the Extra Cycle button to exit.

VERSION:	NXT
	X. XX

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

2750/2850/2900 Upper & 2900 Lower Powerhead Assy



2750/2850/2900 Upper & 2900 Lower Powerhead Assy

Item No.	Quantity	Part No.	Description
	-	18697-15	backplate, hinged
		60219-02	cover assy, environmental, black
		60160-15	drive cam assy, stf, blue
			pin, link
			screw, pan hd mach, 4-40 x 1
			insulator, limit switch
			switch, micro
			screw, slot hex, 1/4 - 20 x 1/2
			motor, drive, 24V, 50/60 Hz
			cam, shut-off valve
			pin, roll, 3/32 x 7/8
			transformer, US, 120V, 24V, 108VA
			transformer, euro, 230V/24V 108VA
			transformer, aust, 230V/24V, 108VA
			plug, .750 dia, recessed, black
			plug, .140 dia, white
			plug, hole, heyco #2693
			plug, .190 dia, white, heyco #0307
			ftting assy, liquid tight, blk
			switch, micro
			screw, rd hd, 4-40 x 5/8 type 1
			wire harness, lower drive, w/molded strain relief
			strain relief, fat cord, heyco #30-1
			meter cable assy, 3200NT
		19121-08	meter cable assy, NT, 35" w/connector
		19121-09	meter cable assy, NT, 99.5" w/connector
		19121-10	meter cable assy, NT, 303.5" w/connector
		14202-01	screw, hex wsh mach, 8-32 x 5/16
			wire namess, upper drive
			plug, 1.20 hole, neyco #2733
		60017 00	plug, noie, .125 dia, white
		00217-02	cover assy, 2900, lower, black, environmental
			spacer, indicator
			screw box bd $5/16 - 18 \times 5/8$ SS
			ring, retaining
			screw her wsh $8-32 \times 17/64$
			backplate lower
			pin. roll. 2900/3900
			link, piston rod
			bracket, motor, 2900
			cam, drive, 2900
			nut, hex, jam, 5/16-18, 18-8-SS
			indicator, service/standby
			motor, drive, 24V, 50/60Hz, SP
			pin, spring, connecting rod
			label, 3200NT, ground
			nut, jam, 3/4 - 16
			ftting, brine valve
			kit, can communication cable
		42466-11	timer assy, NXT, right hand

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. 19304-04	Description backplate, 3150/3900 bracket, motor mtg, 3150/3900 motor, drive, 24V, 50/60 hz, sp screw, hex hd, 5/16 - 18 x 5/8, ss nut, hex, jam, 5/16 - 18, 18-8-ss bracket, switch, mounting, 3150/3900 insulator, limit switch switch, micro bracket, brine side screw, phil pan, $40 \times 1 1/2$ bushin, 3150/3900 screw, hex, wsh hd, $8 \times 1/2$ cam assy, 3150/3900 screw, slot hex, $1/4 - 20 \times 1/2$ 18-8 ss gear, drive ring, retaining link, drive pin, drive link bearing, drive link clip, 3150/3900 pinion, drive pin, roll, 2900/3900 porture to the side screw back where the side screw has the secret screw has the screw ha
			nut, hex, 1/4 - 20 ring, retaining
			washer, ss, .88, 3150/3900 ring, retaining, bowed
			plug, .140, white
			plug, hole, heyco, #2693
			plug, .8750 hole, recessed, black
			screw, ft hd mach, 8-32 x 3/8
			ftting assy, liquid tight, blk
			wire harness, upper drive
			wire harness, lower drive w/molded strain relief
			transformer, euro, 230\//24\/, 108\/A
			transformer aust 230V/24V 100VA
			meter cable assy, 3200NT
		19121-08	meter cable assy, NT, 35" w/connector
		19121-09	meter cable assy, NT, 99.5" w/connector
		19121-10	meter cable assy, NT, 303.5" w/connector
		14202-01	screw, hex wsh, 8-32 x 5/16
		60240 02	piug, 1.20 noie
		00240-02	motor, drive, 115V, 50/60Hz sp
			backplate, 3900, lower, env
			bracket, motor mounting
			indicator, service/standby, 3900
			spacer, indicator
			bearing, drive link
			screw, rd hd, 4-40 x 5/8, type 1
			cam assy, 3900, lower
			nlug 190 dia white
			plug, 750 dia, recessed black
			kit. can communication cable
		42466-11	timer assy, NXT, right hand

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

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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.

If a communication error is detected, an Error Screen will alternate with the main (time of day) screen every few seconds.

- All units In Service remain in the In Service position.
- All units in Standby go to In Service.
- Any unit in Regeneration when the error occurs completes Regeneration and goes to In Service.
- No units are allowed to start a Regeneration Cycle while the error condition exists, unless they are manually forced into Regeneration.
- When an error is corrected and the error no longer displays (it may take several seconds for all of the units in a system to stop displaying the error message), the system returns to normal operation.

NOTE: During the error condition the control continues to monitor the fow meter and update the volume remaining. Once the error condition is corrected all units return to the operating status they were in prior to the error. Regeneration queue is rebuilt according to the normal system operation. Or, if more than one unit has been queued for regeneration, then the queue is rebuilt according to which one communicates frst.

Cause	Correction
A. One or more units have a missing or bad communication cable.	A. Connect the communication cables and/or replace.
B. One or more units has a communication cable plugged into the wrong receptacle.	B. Connect the communication cable as shown in the wiring diagrams.
C. One or more units is not powered.	C. Power all units.

Programming Errors

During the error condition the control continues to monitor the fow meter and update the remaining capacity. Once the error condition is corrected all units return to the operating status they were in prior to the error and regeneration is queued according to the normal system operation. If reprogramming the unit in the Master Programming Mode clears the error, the volume remaining may be reset to the full unit capacity (i.e. as though it were just regenerated).

- 1. All units in standby go In Service.
- 2. Any unit in regeneration when the error occurs completes regeneration and goes to In Service.
- 3. No units are allowed to start a regeneration cycle while the error condition exists.

When the problem is corrected and the error no longer displays (it may take several seconds for all of the units in a system to stop displaying the error message), the system returns to normal operation.

Programming Errors Detected:

- Duplicate unit addresses or numbers
- Size of system (ex: if sized for a 4 units, and only have 2 units)
- Display format mismatches

Solution:

- Program the units correctly in the Master Programming Mode.

NOTE: If these errors are detected, numbers 1 through 3 become true, and the main screen (time of day) will alternate with an error screen.

Cause	Correction
A. Any or all of two or more units programmed with the same unit number (Matching Address Error)	A. Program the units correctly in the Master Programming Mode
B. Flashing/blinking display	B. Power outage has occurred
C. Format Mismatch (Units have both U.S. and Metric Formats)	C. Verify all units have same Format selected (all U.S. or all Metric)
D. No messages displayed/small black squares appear in display	D. Turn the contrast button on the back of unit until text appears (see "Problems Viewing Display/Changing Contrast of Display" below)
E. Size Error (Units not correctly numbered/more than one unit has the same number assigned)	E. Check each unit and verify each as the correct number, and that only one unit has that number
F. Com Error (Communication Error)	F. Check the wiring of the system and verify it is correct and that all are connected

Example Error Screens

DETECT	ΕD	ERR	OR=
E2	RES	EΤ	UNIT

DET	ECT	ΈD	ERR	OR=
40	MES	SAG	E #	1

DET	ECTED	ERROR=
NO	MESSAG	iE #3

DETECTED	ERROR=
PROGRAM	MISMATCH

DETECTE	D ERF	ROR=
EXCEED	UNIT	SIZE

DETECTED	ERROR=
MATCHING	ADDRESS

Detected Error

Go through Master Programming to program the unit.

No Message #1

Make sure all communication cables are connected. If "No Message #1" ensure it is the lead unit. Ensure #1 is confgured for the correct system type.

No Message #3

Make sure all communication cables are connected. If "No Message #3" ensure it is unit #3. Ensure #3 is confgured for the correct system type.

Program Mismatch

Ensure the units on the network are not confgured the same as #1/the Lead unit.

Exceed Unit Size

There are more units on the system than the Lead is programmed for.

Matching Address

The unit is programmed the same # as another unit. NOTE: The rest of the system will still function without this unit.

Not