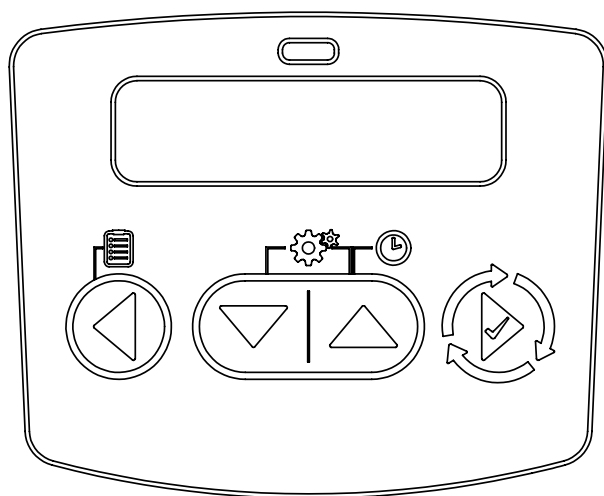




# **FLECK** NXT2 TIMER SERVICE MANUAL



## TABLE OF CONTENTS


## IMPORTANT PLEASE READ:


- 7 The information, specifications and illustrations in this manual are based on the latest information available at the time of release. The manufacturer reserves the right to make changes at any time without notice.
- 7 This manual is intended as a guide for service of the valve only. System installation requires information from a number of suppliers not known at the time of manufacture. This product should be installed by a plumbing professional.
- 7 This unit is designed to be installed on potable water systems only.
- 7 This product must be installed in compliance with all state and municipal plumbing and electrical codes. Permits may be required at the time of installation.
- 7 It is established that when daytime water pressure exceeds 80 psi (5.5 bar), the maximum pressure rating of 125 psi (8.6 bar) can be exceeded. A pressure regulator must be installed on this system or warranty is voided.
- 7 Do not install the unit where temperatures may drop below 32°F (0°C) or above 120°F (52°C).
- 7 Do not place the unit in direct sunlight. Black units will absorb radiant heat, increasing internal temperatures.
- 7 Do not strike the valve or any of the components.
- 7 Warranty of this product extends to manufacturing defects. Misapplication of this product may result in failure to properly condition water, damage to product, or personal injury.
- 7 A prefilter should be used on installations in which free solids are present.
- 7 In some applications local municipalities treat water with Chloramines. High Chloramine levels may damage valve components.
- 7 Correct and constant voltage must be supplied to the controller to maintain proper function.
- 7 The system is intended to treat only potable quality water. It is not intended as the permanent primary treatment of water from a source that is contaminated, such as from radon, pesticides, insecticides, sewage or wastewater.
- 7 This system is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- 7 Children shall not play with the system.
- 7 Cleaning shall not be made by children without supervision.
- 7 Periodic cleaning and maintenance may be required to function properly.
- 7 All plumbing and electrical should be done in accordance with local codes.
- 7 An uninterrupted power supply is required. The control uses a transformer to supply 24 VDC. Please make sure your voltage supply is compatible with your unit before installation.

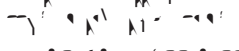
## CALIFORNIA PROPOSITION 65 WARNING


**⚠ WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.


## FEATURES

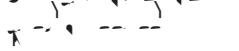
7 

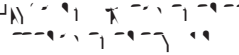
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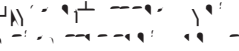
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[illegible]

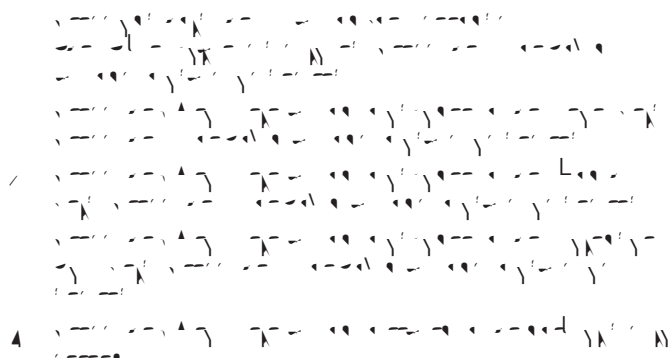
Display Icons



## TIMER OPERATION

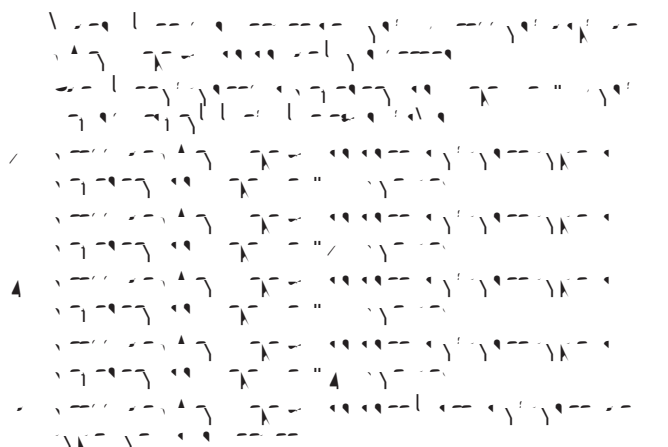
### Setting the Time of Day

**NOTE:** Set Time of Day on any unit and the rest of the units in the system will update the Time of Day automatically.



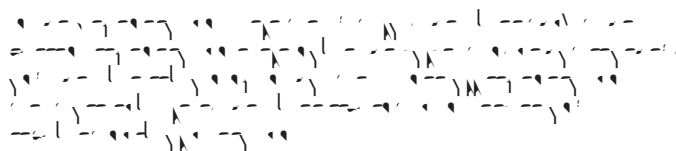
**NOTE:** Press and hold the Left button to exit without saving.

### Manually Initiating a Regeneration



**NOTE:** A manually initiated or queued regeneration can be cleared by pressing and holding the Back button. 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



CYCLE 1/5  
BACKWASH 00:10:00

CYCLE 2/5  
DRAW 00:60:00

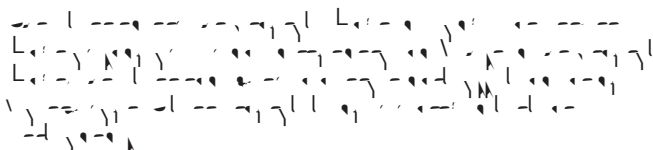
CYCLE 3/5  
RAPID RINSE 00:10:00

CYCLE 4/5  
TANK REFILL 00:12:00

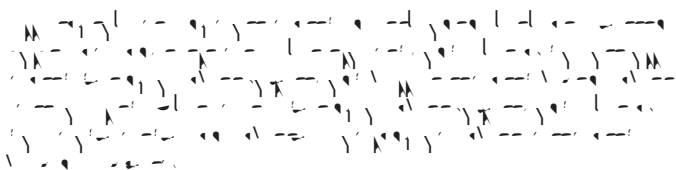


Press the Extra Cycle button during a system queued Regeneration Cycle to immediately advance the valve to the next cycle step position and resume normal step timing.

### Timer Operation During Programming

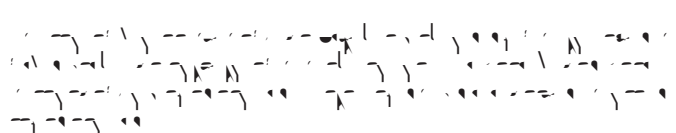


### Timer Operation During A Power Failure



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

### Flow Meter Equipped Timer



## TIMER FEATURES

### Remote Lock

When the unit is in the Service screen, the Remote Lock feature can be used to lock the unit from the remote control. This feature is useful when the unit is in the Service screen and the user wants to lock the unit from the remote control. The unit will be locked and the Remote Lock feature will be active. The unit will be unlocked when the user presses the Remote Lock button on the remote control.

### Regeneration Day Override Feature

The Regeneration Day Override feature allows the user to override the default regeneration day. The user can select a different day for regeneration. The unit will regenerate on the selected day. The user can also select the time of day for regeneration. The unit will regenerate at the selected time.

### Lock Settings (access to Master Programming)

The Lock Settings feature allows the user to lock the unit from the remote control. The user can select the lock settings for the unit. The unit will be locked and the Lock Settings feature will be active. The unit will be unlocked when the user presses the Lock Settings button on the remote control. The user can also select the time of day for the lock settings. The unit will be locked at the selected time.

### Capacitive Buttons

The Capacitive Buttons feature allows the user to use the capacitive buttons on the unit. The user can select the capacitive buttons for the unit. The unit will be locked and the Capacitive Buttons feature will be active. The unit will be unlocked when the user presses the Capacitive Buttons button on the remote control.

### LED Status indicator

The LED Status indicator feature allows the user to use the LED status indicator on the unit. The user can select the LED status indicator for the unit. The unit will be locked and the LED Status indicator feature will be active. The unit will be unlocked when the user presses the LED Status indicator button on the remote control.

### Power Loss Backup

The Power Loss Backup feature allows the user to use the power loss backup on the unit. The user can select the power loss backup for the unit. The unit will be locked and the Power Loss Backup feature will be active. The unit will be unlocked when the user presses the Power Loss Backup button on the remote control.

### Continuous Flow Detect

The Continuous Flow Detect feature allows the user to use the continuous flow detect on the unit. The user can select the continuous flow detect for the unit. The unit will be locked and the Continuous Flow Detect feature will be active. The unit will be unlocked when the user presses the Continuous Flow Detect button on the remote control.

### Remote Regeneration

The Remote Regeneration feature allows the user to use the remote regeneration on the unit. The user can select the remote regeneration for the unit. The unit will be locked and the Remote Regeneration feature will be active. The unit will be unlocked when the user presses the Remote Regeneration button on the remote control.

### Regeneration Types

**Softener/Filter Meter Delayed**  
The Softener/Filter Meter Delayed feature allows the user to use the softener/filter meter delayed on the unit. The user can select the softener/filter meter delayed for the unit. The unit will be locked and the Softener/Filter Meter Delayed feature will be active. The unit will be unlocked when the user presses the Softener/Filter Meter Delayed button on the remote control.

**Softener/Filter Meter Immediate**

**Time Clock**

**Day of the Week**

**Remote Regeneration**

### Reset to Factory Defaults

The Reset to Factory Defaults feature allows the user to reset the unit to the factory defaults. The user can select the reset to factory defaults for the unit. The unit will be locked and the Reset to Factory Defaults feature will be active. The unit will be unlocked when the user presses the Reset to Factory Defaults button on the remote control.



PRESS & HOLD



END

Power on the unit.  
When Pentair logo appears,  
press and hold the Extra Cycle button.  
The Reset menu appears.

Use the up/down buttons to select.

Press the Extra Cycle button to set the  
desired option and return to the  
Service screen.

### Lock Window

The Lock Window feature allows the user to lock the unit from the remote control. The user can select the lock window for the unit. The unit will be locked and the Lock Window feature will be active. The unit will be unlocked when the user presses the Lock Window button on the remote control.

### Settings Review

The Settings Review feature allows the user to review the settings on the unit. The user can select the settings review for the unit. The unit will be locked and the Settings Review feature will be active. The unit will be unlocked when the user presses the Settings Review button on the remote control.

Auxiliary Relays



AUX. 1: CYCLE BASED						
SP	BW	BD	RR	RF	SB	
x	x	✓	x	x	x	

Activates during selected cycle step

AUX. 1: TIME BASED-START TIME #1
1 M

Activates upon selected start time  
(Range: 0-91 minutes)

AUX. 1: TIME BASED-END TIME #1
5 M

Deactivates upon selected end time  
(Range: Start Time plus 1 minute)

AUX. 1: VOLUME BASED - VOLUME-G
00100

Activates when selected volume (gallon)  
is reached (Range: 0-99999)

AUX. 1: VOLUME BASED - DURATION-S
0010

Selected Duration in Seconds  
(Range: 0-9999 seconds)

## SYSTEM DEFINITIONS

---

### System 4 - Single Unit

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

### System 5 (2-8 Units) Parallel Interlock)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

### System 6 (2-8 Units) Parallel Series Regeneration

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

### System 7 (2 Units) Alternating Immediate

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

### System 8 (2 Units) Alternating Delayed

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



### System 9 (2-8 Units) Alternating with Standby Units

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

### System 14 (2-8 Units) Demand Recall

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



 	<div>SETTINGS REVIEW</div> <div>ON</div> <div>OFF</div>	<b>Example:</b> On: View settings without the ability to alter settings. Off: User has ability to alter settings.
	<div>LANGUAGE</div> <div>PORTUGUES</div> <div>ENGLISH</div> <div>FRANCAIS</div>	<b>Example:</b> English, Francais, Duetsch, Italiano, Espanol, Nederlandse, Portugues
	<div>ASSISTANCE NAME 1</div> <div></div> <div></div>	<b>Example:</b> 12 characters maximum.
	<div>ASSISTANCE NAME 2</div> <div></div> <div></div>	<b>Example:</b> 12 characters maximum.
	<div>ASSISTANCE PHONE</div> <div></div> <div></div>	<b>Example:</b> 14 characters maximum.
	<div>SYSTEM</div> <div>SYSTEM 4</div> <div>SYSTEM 5</div> <div>SYSTEM 6</div>	<b>Example:</b> 4, 5, 6, 7, 8, 9, 14
	<div>VALVE</div> <div>2815</div> <div>2850</div> <div>2900</div>	<b>Example:</b> 2510, 2750, 2815, 2900, 3150, 3900
	<div>REGEN. FLOW</div> <div>UPFLOW</div> <div>DOWNFLOW</div> <div>FILTER</div>	<b>Example:</b> Upflow Downflow Filter
	<div>REGEN. TYPE</div> <div>SOFTENER METER DEL</div> <div>SOFTENER METER IMM</div> <div>TIME CLOCK</div>	<b>Example:</b> Softener Meter Delayed Softener Meter Immediate Time Clock Day of the Week.
	<div>UNITS</div> <div>METRI C</div> <div>US</div>	<b>Example:</b> Metric US
	<div>CAPACITY - GRAINS</div> <div>0023828</div>	<b>Example:</b> Range: 0-9,999,999 grains
		<b>Example:</b> Range: 0-199 GPG
	<div>RESERVE</div> <div>FIXED VOLUME</div> <div>WEEKLY RESERVE</div> <div>VARIABLE RESERVE</div>	<b>Example:</b> Fixed Volume Weekly Reserve Variable Reserve Fixed %
	<div>REMOTE REGENERATION</div> <div>DELAYED</div> <div>OFF</div> <div>IMMEDIATE</div>	<b>Example:</b> Off, Immediate, Delayed
	<div>REMOTE SIGNAL DURATION</div> <div>1 S</div>	<b>Example:</b> Range: 1-90 seconds (Service) 60-300 seconds (Standby)
	<div>DAY OVERRIDE/TIME-DRIVEN</div> <div>10 D</div>	<b>Example:</b> Range: Off - 99 Days
	<div>REGEN. TIME</div> <div>02: 00HR</div>	<b>Example:</b> Range: 0 - 23 Hours 59 Minutes.

MASTER PROGRAMMING MODE

FLOW CHART

---



ON LOCK WINDOW #1  
OFF

**Example:**  
Start Lock Window  
End Lock Window

BACKWASH  
10 M

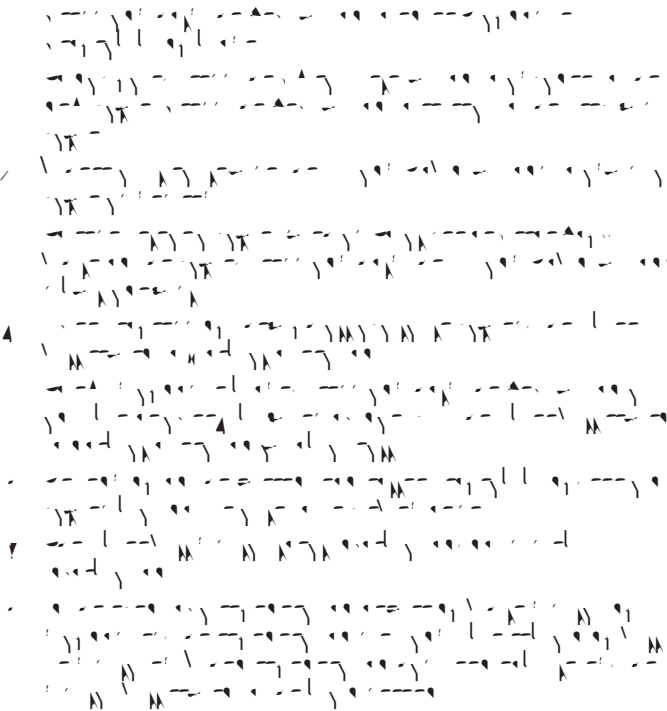
**Example:**  
Range: 0 - 240 M

DRAW  
60 M

**Example:**  
Range: 0 - 240 M

# DIAGNOSTIC PROGRAMMING MODE FLOW CHART

## Diagnostic Programming Mode



ERROR LOG  
ERROR LOG EMPTY

**Example:**  
Record of error events chronologically.



SUN-AVERAGE USAGE  
29.7 G

**Example:**  
Average usage from past Sunday.



SUN-DAILY USAGE  
2016-10-10 0 G  
2017-01-02 0 G  
2016-12-26 0 G

**Example:**  
Average usage from past 3 Sundays.



MON-AVERAGE USAGE  
29.7 G

**Example:**  
Average usage from past Monday.



MON-DAILY USAGE  
2016-10-10 0 G  
2017-01-02 0 G  
2016-12-26 0 G

**Example:**  
Average usage from past 3 Mondays.



TUE-AVERAGE USAGE  
29.7 G

**Example:**  
Average usage from last Tuesday.



TUE-DAILY USAGE  
2016-10-10 0 G  
2017-01-02 0 G  
2016-12-26 0 G

**Example:**  
Average usage from past 3 Tuesdays.



WED-AVERAGE USAGE  
29.7 G

**Example:**  
Average usage from last Wednesday.



WED-DAILY USAGE  
2016-10-10 0 G  
2017-01-02 0 G  
2016-12-26 0 G

**Example:**  
Average usage from past 3 Wednesdays.



THU-AVERAGE USAGE  
29.7 G

**Example:**  
Average usage from last Thursday.



THU-DAILY USAGE  
2016-10-10 0 G  
2017-01-02 0 G  
2016-12-26 0 G

**Example:**  
Average usage from past 3 Thursdays.



FRI-AVERAGE USAGE  
29.7 G

**Example:**  
Average usage from last Friday.



FRI-DAILY USAGE  
2016-10-10 0 G  
2017-01-02 0 G  
2016-12-26 0 G

**Example:**  
Average usage from past 3 Fridays.



SAT-AVERAGE USAGE  
29.7 G

**Example:**  
Average usage from last Saturdays



SAT-DAILY USAGE  
2016-10-10 0 G  
2017-01-02 0 G  
2016-12-26 0 G

**Example:**  
Average usage from past 3 Saturdays.

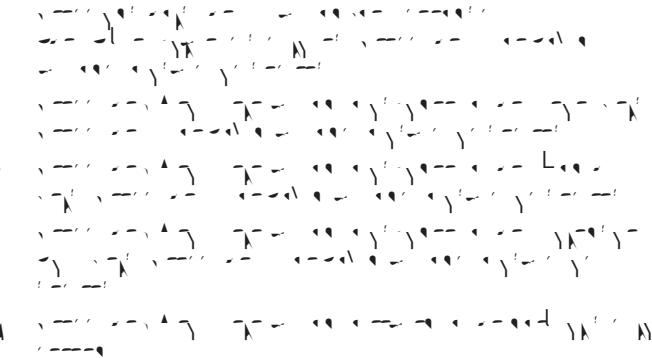
END

# TIME OF DAY PROGRAMMING MODE

## FLOW CHART

### Setting the Time of Day

**NOTE:** Set Time of Day on any unit and the rest of the units in the system will update the Time of Day automatically.



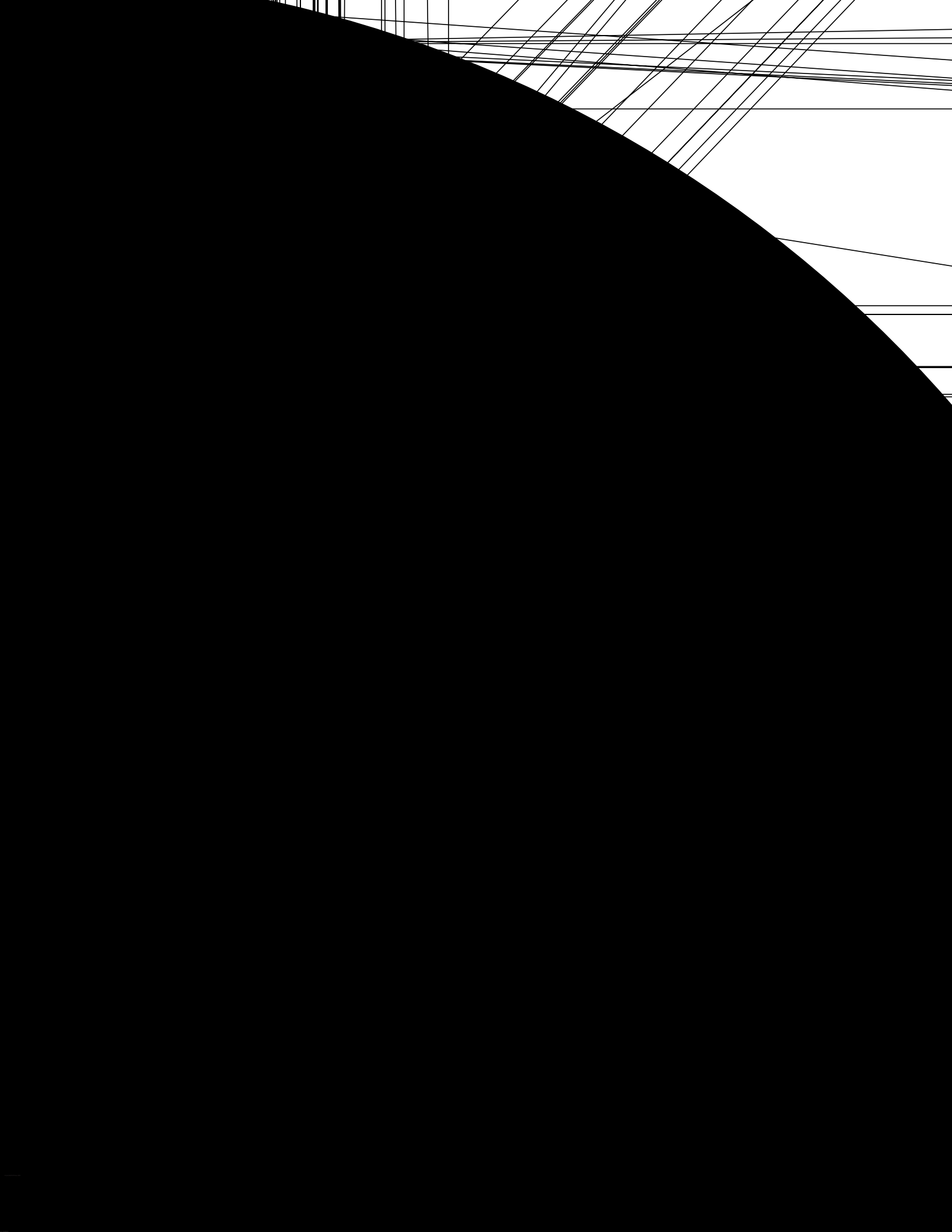
**NOTE:** Press and hold the Left button to exit without saving.

	<div>TIME 11:00AM</div>	<b>Example:</b> 12 or 24 hour formats available
	<div>YEAR 2018</div>	<b>Example:</b> Set current year
	<div>MONTH JAN</div>	<b>Example:</b> Set current month
	<div>CALENDAR DAY 22</div>	<b>Example:</b> Set current day
END		

Settings Review										US		Metric	
Language	x	x	x	x	x	x	x	x	x			On, Off	English
													Francais Deutsch Italiano Español Nederlands Portugues
Assistance Name 1, 2 Assistance Phone	x	x	x	x	x	x	x	x	x			Custom	Custom
													Time Clock
Regen Type	x	x	x	x	x	x	x	x	x			Day of the Week	Day of the Week
												Softener/Filter Metered Immediate Softener/Filter Metered Delayed	Softener/Filter Metered Immediate Softener/Filter Metered Delayed
Valve	x	x	x	x	x	x	x	x	x			2510	2510
												2750	2750
Regen Flow Units	x	x	x	x	x	x	x	x	x			Upflow, Downflow, Filter	Upflow, Downflow, Filter
												US, Metric	US, Metric
Remote Regeneration	x	x	x	x	x	x	x	x	x			Off, Immediate, Delayed	Off, Immediate, Delayed
												Off,	Off,
Auxiliary 1,2	x	x	x	x	x	x	x	x	x			Alarm Based, Cycle Based, Time Based,	Alarm Based, Cycle Based, Time Based,
												On, Off	On, Off
Lock Window 1,2	x	x	x	x	x	x	x	x	x			Paddle (0.75" - 1" - 1.5" - 2" - 3") Turbine (0.75" - 1.25" - 1.5")	Paddle (0.75" - 1" - 1.5" - 2" - 3") Turbine (0.75" - 1.25" - 1.5")
												Generic	Generic
Continuous Flow Detect Save as Non Factory	x	x	x	x	x	x	x	x	x			On, Off	On, Off
												On, Off	On, Off
Lock Settings	x	x	x	x	x	x	x	x	x			Off, Delayed, Enter Code, Time Based	Off, Delayed, Enter Code, Time Based
												Off-99 Days	Off-99 Days
Day Override/Time Driven Regen Time	x	x	x	x	x	x	x	x	x			Any	Any
												SU, MO, TU, WE, TH, FR, SA	SU, MO, TU, WE, TH, FR, SA
Day of the Week	x	x	x	x	x	x	x	x	x			0-9,999,999 Grains	0-9,999,999 Grains
												0-1,000,000 Lx°FTH, 0-701,557 Lx°EH	0-1,000,000 Lx°FTH, 0-701,557 Lx°EH
Capacity													
Hardness	x	x	x	x	x	x	x	x	x			0-19,999 GPG	0-19,999 GPG
												0-195.9 °FTH, 0-112 °DH	0-195.9 °FTH, 0-112 °DH
International Hardness Units	x	x	x	x	x	x	x	x	x			mg/L, °EH, °FTH, °DH	mg/L, °EH, °FTH, °DH
												Weekly Reserve, Variable Reserve, Fixed %, Fixed Volume	Weekly Reserve, Variable Reserve, Fixed %, Fixed Volume
Reserve													
Number of Tanks (Max)	1	1	1	8	8	8	2	2	8			2, 3, 4, 5, 6, 7, 8	2, 3, 4, 5, 6, 7, 8
Push Settings												On, Off	On, Off
Trip Point #1-7 GPM												0-7,569 LPM	0-7,569 LPM
Trip Point #1-7 SD												1-90s	1-90s
Trip Point #1-7 STBD												60-300s	60-300s

**(2510, 2750, 2850, 2900, 3150, 3900 VALVES)**

Item No.	QTY	Part No.	Description
		A	1 - 6000 H A
<b>Service Assemblies</b>			
	/		1 - 6000 H A
/	/		1 - 6000 H A



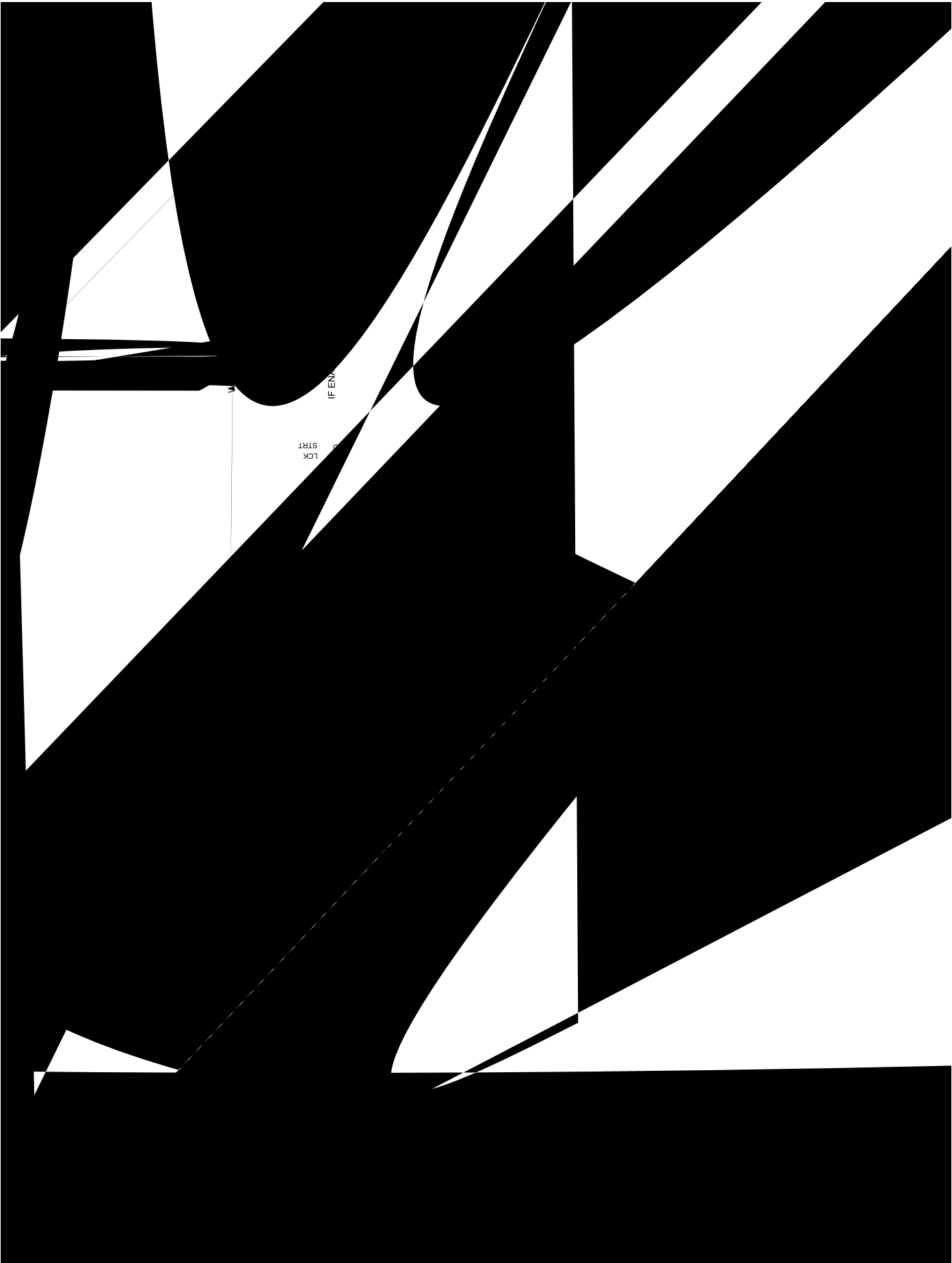
## NXT TO NXT2 CONVERSION KITS

Item No.	QTY	Part No.	Description
		/	90-1118 90-1118 H A
		/	90-1118 90-1118 H A
		/	90-1118 90-1118 H A
		/	90-1118 90-1118 H A

**NOTE:** Conversion Kits do not include wiring harness; save and reuse existing NXT wiring harness. Region-specific power supply is included.



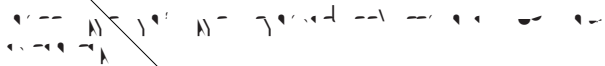
NXT2 WIRING DIAGRAM



## POWER SUPPLY CONNECTIONS

### Installing the Power Supply:

**NOTE:** Power Supply includes a harness with 2 black wires that connect to circuit board, see page 15.



**2510/2750/2815/2850/2900 Valves:**

**3150/3900 Valves:**

Communication Cables

Hinge Mount: mount per valve model noted

Meter Cable

Power Supply

## ERROR CODES AND TROUBLESHOOTING

## Detected Errors

- 
- The Rose Tree
- Handwritten musical score for "The Rose Tree". The notation is a form of musical shorthand, possibly a simplified or early form of musical notation, using various symbols like dots, lines, and beams. The score is organized into systems, with some systems containing multiple staves. The title "The Rose Tree" is written at the top left.

**NOTE:** During the error condition, the control continues to monitor the flow 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 first.

Message Displayed	Cause For Error	Correction
<p> </p>	<p> </p>	<p> </p>
<p> </p>	<p> </p>	<p> </p>
<p> </p>	<p> </p>	<p> </p>
<p> </p>	<p> </p>	<p> </p>
<p> </p>	<p> </p>	<p> </p>
<p> </p>	<p> </p>	<p> </p>
<p> </p>	<p> </p>	<p> </p>
<p> </p>	<p> </p>	<p> </p>
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