



FLECK NXT2 TIMER

SERVICE MANUAL

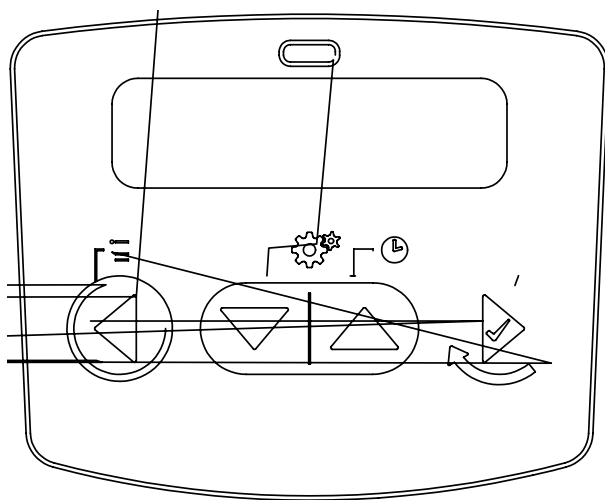


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CALIFORNIA PROPOSITION 65 WARNING

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

FEATURES

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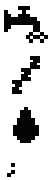
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[illegible]

Display Screen

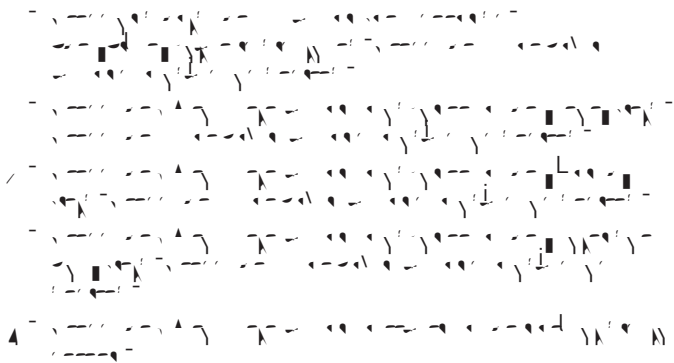
Display Icons



TIMER OPERATION

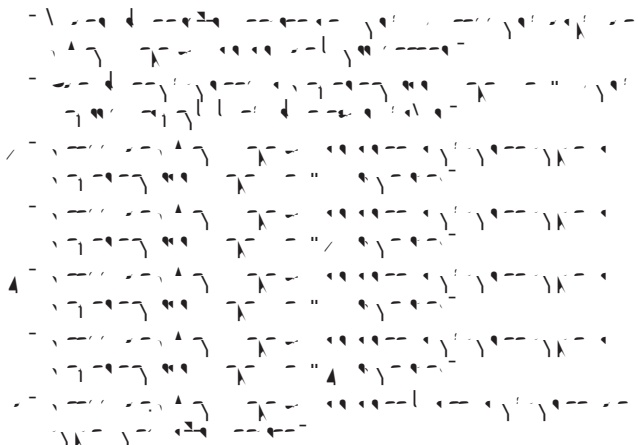
Setting the Time of Day

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



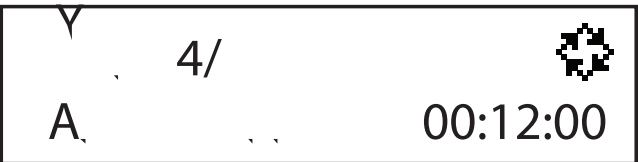
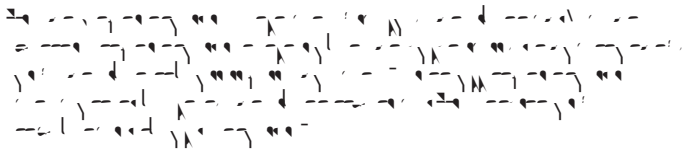
NOTE: Press and hold the Left button to exit without saving.

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



Re note Lock

When the lock is engaged, the door will not open until the next day. The lock will automatically disengage at the end of the day. The lock will also disengage if the door is opened for a period of time.

Regeneration Day Override Feature

The Regeneration Day Override Feature allows the user to override the lock's automatic disengagement feature. This feature is useful for users who need to access the door during a regeneration day.

Lock Settings (access to Master Programming)

The lock settings menu allows the user to access the Master Programming menu. This menu is used to configure the lock's settings, including the lock's time, date, and user access levels.

Time Based, the lock will automatically disengage at the end of the day.

Delayed, the lock will automatically disengage at the end of the day, but will remain locked for a period of time.

Enter Code, the lock will automatically disengage at the end of the day, but will require a code to be entered to disengage.

Capacitive Buttons

The capacitive buttons are used to control the lock's settings. The buttons are located on the lock's face and are used to access the Master Programming menu, the lock settings menu, and the user access levels menu.

Auxiliary Relays



AUX.1: CYCLE BASED

▼

SP

X

BW

X

BD

✓

RR

X

RF

X

SB

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

	SETTINGS REVIEW ON OFF	Example: On: View settings without the ability to alter settings. Off: User has ability to alter settings.
	LANGUAGE PORTUGUES ENGLISH FRANCAIS	Example: English, Francais, Duetsch, Italiano, Espanol, Nederlandse, Portugues
	ASSISTANCE NAME 1	Example: 12 characters maximum.
	ASSISTANCE NAME 2	Example: 12 characters maximum.
	ASSISTANCE PHONE	Example: 14 characters maximum.
	SYSTEM SYSTEM 4 SYSTEM 5 SYSTEM 6	Example: 4, 5, 6, 7, 8, 9, 14
	VALVE 2815 2850 2900	Example: 2510, 2750, 2815, 2900, 3150, 3900
	REGEN - FLOW UPFLOW DOWNFLOW FILTER	Example: Upflow Downflow Filter
	REGEN - TYPE SOFTENER METER DEL SOFTENER METER IMM TIME CLOCK	Example: Softener Meter Delayed Softener Meter Immediate Time Clock Day of the Week.
	UNITS METRIC US	Example: Metric US
	CAPACITY - GRAINS 0823828	Example: Range: 0-9,999,999 grains
		Example: Range: 0-199 GPG
	RESERVE FIXED VOLUME WEEKLY RESERVE VARIABLE RESERVE	Example: Fixed Volume Weekly Reserve Variable Reserve Fixed %

MASTER PROGRAMMING MODE
FLOW CHART



1. Press the [F] key to enter the Master Programming Mode.

—

2.

3. Press the [F] key to exit the Master Programming Mode.

4.

PTY

Example:
Record of error events chronologically.

SAGE

Example:
Average usage from past Sunday.

SAGE

Example:
Average usage from past 3 Sundays.

SAGE

Example:
Average usage from past Monday.

SAGE

Example:
Average usage from past 3 Mondays.

SAGE

Example:
Average usage from last Tuesday.

SAGE

Example:
Average usage from past 3 Tuesdays.

SAGE

Example:
Average usage from last Wednesday.

SAGE

Example:
Average usage from past 3 Wednesdays.

SAGE

Example:
Average usage from last Thursday.

SAGE

Example:
Average usage from past 3 Thursdays.

SAGE

Example:
Average usage from last Friday.

SAGE

Example:
Average usage from past 3 Fridays.

SAGE

Example:
Average usage from last Saturdays

SAGE

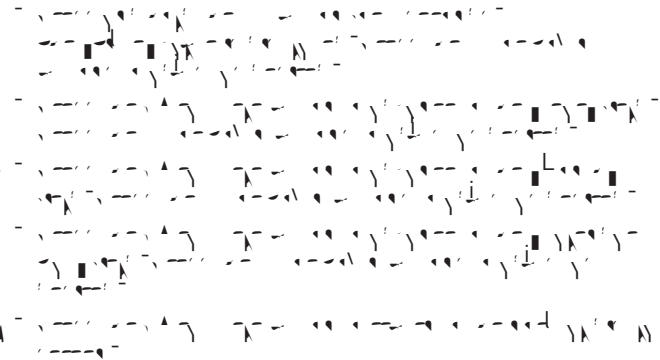
Example:
Average usage from past 3 Saturdays.

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.



END

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

Settings Review										US		Metric	
												On, Off	
Language	x	x	x	x	x	x	x	x	x			English	
												Francais	
	x	x	x	x	x	x	x	x	x			Deutsch	
												Italiano	
												Espanol	
												Nederlands	
												Portugues	
												Custom	
Assistance Name 1, 2	x	x	x	x	x	x	x	x	x			Custom	
Assistance Phone	x	x	x	x	x	x	x	x	x			Time Clock	
Regen Type	x	x	x	x	x	x	x	x	x			Day of the Week	
												Softener/Filter Metered Immediate	
												Softener/Filter Metered Delayed	
												2510	
												2700	
												2800	
												2900	
												3000	
												3100	
												3200	
												3300	
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												15800	
												15900	
												16000	

NXT2 TIMER ASSEMBLY
(2510, 2750, 2850, 2900, 3150, 3900 VALVES)

Item No.	QTY	Part No.	Description
_____	_____	_____	_____

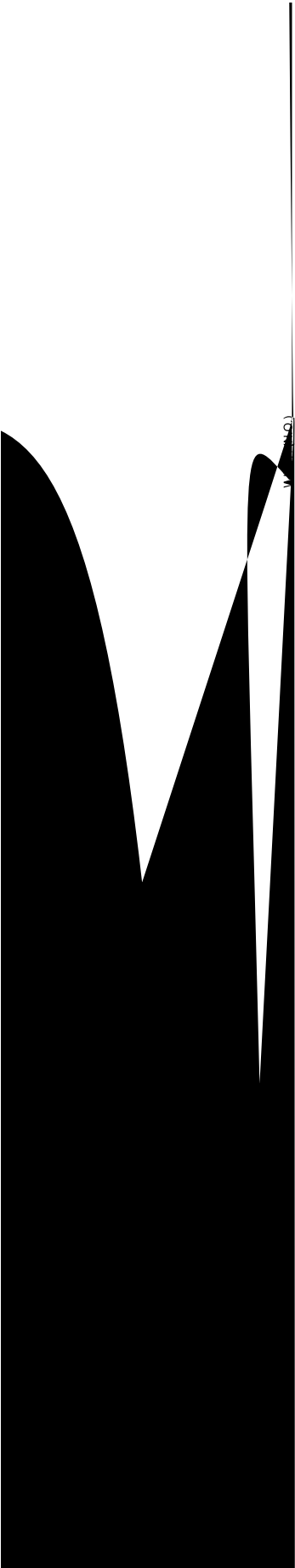
Service Assemblies			
_____	_____	/ _____	_____
/ _____	_____	/ _____	_____

NXT TO NXT2 CONVERSION KITS

Item No.	QTY	Part No.	Description
—	1	8000100	Power Supply
—	1	8000101	Wiring Harness
—	1	8000102	Motor
—	1	8000103	Light

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

NXT2 WIRING DIAGRAM



Wiring

LOC
STRT

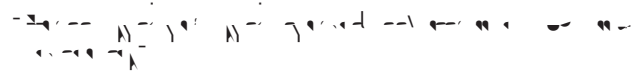
IF ENABLED

GND

POWER SUPPLY CONNECTIONS

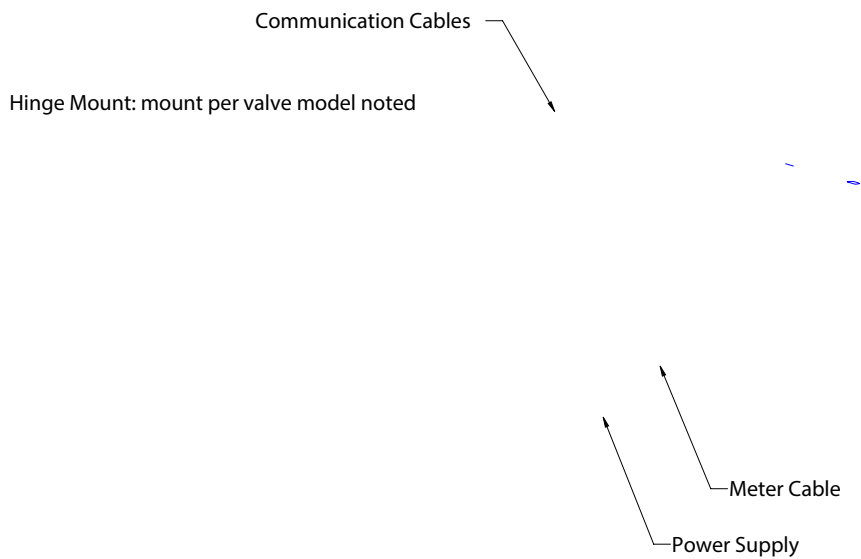
Installing the Power Supply:

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:



ERROR CODES AND TROUBLESHOOTING

Detected Errors

- [illegible]

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.

[illegible]



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