



PENTAIR

FLECK NXT2 TIMER

SERVICE MANUAL

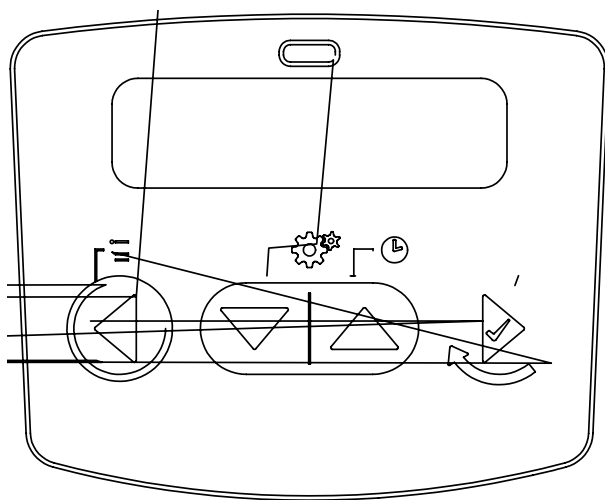


TABLE OF CONTENTS

IMPORTANT PLEASE READ:

[illegible]

7 -/41ALIFORNIA 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

1. 本產品採用最先進之微處理器，具有高度靈敏度，能迅速偵測到任何微小之溫度變化。
 2. 具備多種溫度單位選擇功能，可根據需要切換為攝氏度或華氏度。
 3. 顯示屏採用大尺寸液晶顯示，數字清晰易讀，並帶有背光功能，方便在低光環境下使用。
 4. 具有蜂鳴器報警功能，當溫度達到預設之高低限時，會發出聲音提示。
 5. 產品設計緊湊，攜帶方便，適合在實驗室、工廠、家庭等多種場景下使用。
 6. 採用高品質感溫元件，測量準確，重複性好。
 7. 具有自動關機功能，長時間未操作時可自動進入休眠狀態，節省電力。
 8. 產品通過嚴格的質量認證，安全可靠，是您溫度測量的首選工具。

1. 產品包裝內附有詳細之使用說明書，請用戶仔細閱讀，以瞭解各項功能及操作步驟。
 2. 本產品為非侵入式測量，不會對被測物造成任何損傷，使用安全。
 3. 具有數據保持功能，測量完畢後，顯示屏會自動鎖定當前數據，防止誤讀。
 4. 產品採用優質材料製造，外觀美觀大方，耐用性強。
 5. 具有溫度趨勢顯示功能，可顯示溫度隨時間變化的走勢圖，方便用戶分析溫度變化規律。
 6. 產品支持多種溫度探頭接口，可根據需要更換不同規格之探頭，適用範圍廣。
 7. 具有蜂鳴器報警功能，當溫度達到預設之高低限時，會發出聲音提示。
 8. 產品設計簡潔，操作方便，即使是初次使用者也能輕鬆上手。
 9. 具有自動溫度補償功能，可消除環境溫度對測量結果之影響，提高測量精度。
 10. 產品具有低功耗設計，電池壽命長，可持續使用數月。

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.

1. Press the **Time of Day** button. The display will show the current time of day.

2. Press the **Left** button to enter the hour. The display will show the current hour.

3. Press the **Left** button to enter the minute. The display will show the current minute.

4. Press the **Left** button to enter the second. The display will show the current second.

5. Press the **Left** button to exit the time of day setting. The display will show the current time of day.

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

Manually Initiating a Regeneration

1. Press the **Regeneration** button. The display will show the current regeneration time.

2. Press the **Left** button to enter the hour. The display will show the current hour.

3. Press the **Left** button to enter the minute. The display will show the current minute.

4. Press the **Left** button to enter the second. The display will show the current second.

5. Press the **Left** button to exit the regeneration time setting. The display will show the current regeneration time.

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

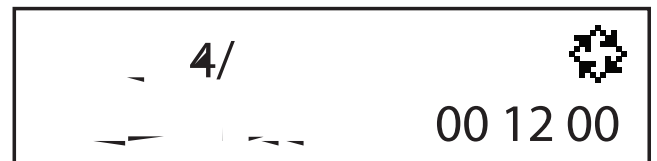
1. Press the **Regeneration** button. The display will show the current regeneration time.

2. Press the **Left** button to enter the hour. The display will show the current hour.

3. Press the **Left** button to enter the minute. The display will show the current minute.

4. Press the **Left** button to enter the second. The display will show the current second.

5. Press the **Left** button to exit the regeneration time setting. The display will show the current regeneration time.



Re note Lock

When the lock is engaged, the door will not open until the lock is released. The lock is released by pressing the lock button on the door handle. The lock is engaged by pressing the lock button on the door handle.

Regeneration Day Override Feature

The Regeneration Day Override Feature allows the user to override the lockout time during the regeneration cycle. The user can press the lock button on the door handle to override the lockout time.

Lock Settings (access to Master Programming)

The lock settings are accessed by pressing the lock button on the door handle. The lock settings are accessed by pressing the lock button on the door handle.

Time Based ☐ The lockout time is based on the time of day.

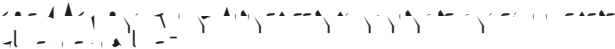
Delayed ☐ The lockout time is delayed until the next day.

Enter Code ☐ The lockout time is entered by the user.

Capacitive Buttons

The capacitive buttons are used to control the lock. The capacitive buttons are used to control the lock. The capacitive buttons are used to control the lock.

Auxiliary Relays



Activates during selected cycle step

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

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

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

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

SYSTEM DEFINITIONS

System 4 - Single Unit

When the system is in the standby state, the unit is in the standby state. When the system is in the active state, the unit is in the active state.

System 5 (2-8 Units) Parallel Interlock)

When the system is in the standby state, the units are in the standby state. When the system is in the active state, the units are in the active state. The units are interlocked so that only one unit can be in the active state at any time.

System 6 (2-8 Units) Parallel Series Regeneration

When the system is in the standby state, the units are in the standby state. When the system is in the active state, the units are in the active state. The units are in series, so that the output of one unit is the input to the next unit.

System 7 (2 Units) Alternating Immediate

When the system is in the standby state, the units are in the standby state. When the system is in the active state, the units are in the active state. The units alternate between the active and standby states immediately.

System 8 (2 Units) Alternating Delayed

When the system is in the standby state, the units are in the standby state. When the system is in the active state, the units are in the active state. The units alternate between the active and standby states after a delay.

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

When the system is in the standby state, the units are in the standby state. When the system is in the active state, the units are in the active state. The units alternate between the active and standby states, with some units in the standby state at any time.

System 14 (2-8 Units) Demand Recall

When the system is in the standby state, the units are in the standby state. When the system is in the active state, the units are in the active state. The units are in a demand recall state, so that they can be recalled to the standby state at any time.

 88

▶ www.pearsoncmg.com

▼

18

▲

► www.pearsoncmg.com

► www.pearsoncmg.com

► www.elsevier.com/locate/jmb

► www.elsevier.com/locate/jmb

► www.elsevier.com/locate/jmb

►

MASTER PROGRAMMING MODE

FLOW CHART



Example:
Record of error events chronologically.

Example:
Average usage from past Sunday.

Example:
Average usage from past 3 Sundays.

Example:
Average usage from past Monday.

Example:
Average usage from past 3 Mondays.

Example:
Average usage from last Tuesday.

Example:
Average usage from past 3 Tuesdays.

Example:
Average usage from last Wednesday.

Example:
Average usage from past 3 Wednesdays.

Example:
Average usage from last Thursday.

Example:
Average usage from past 3 Thursdays.

Example:
Average usage from last Friday.

Example:
Average usage from past 3 Fridays.

Example:
Average usage from last Saturdays

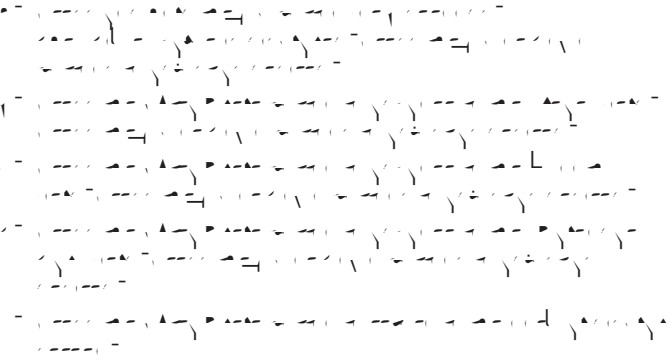
Example:
Average usage from past 3 Saturdays.

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.

		Example: 12 or 24 hour formats available
		
		Example: Set current year
		
		Example: Set current month
		
		Example: Set current day

[illegible]

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

Item No. QTY Part No. Description

1 1 2510 2510 VALVE

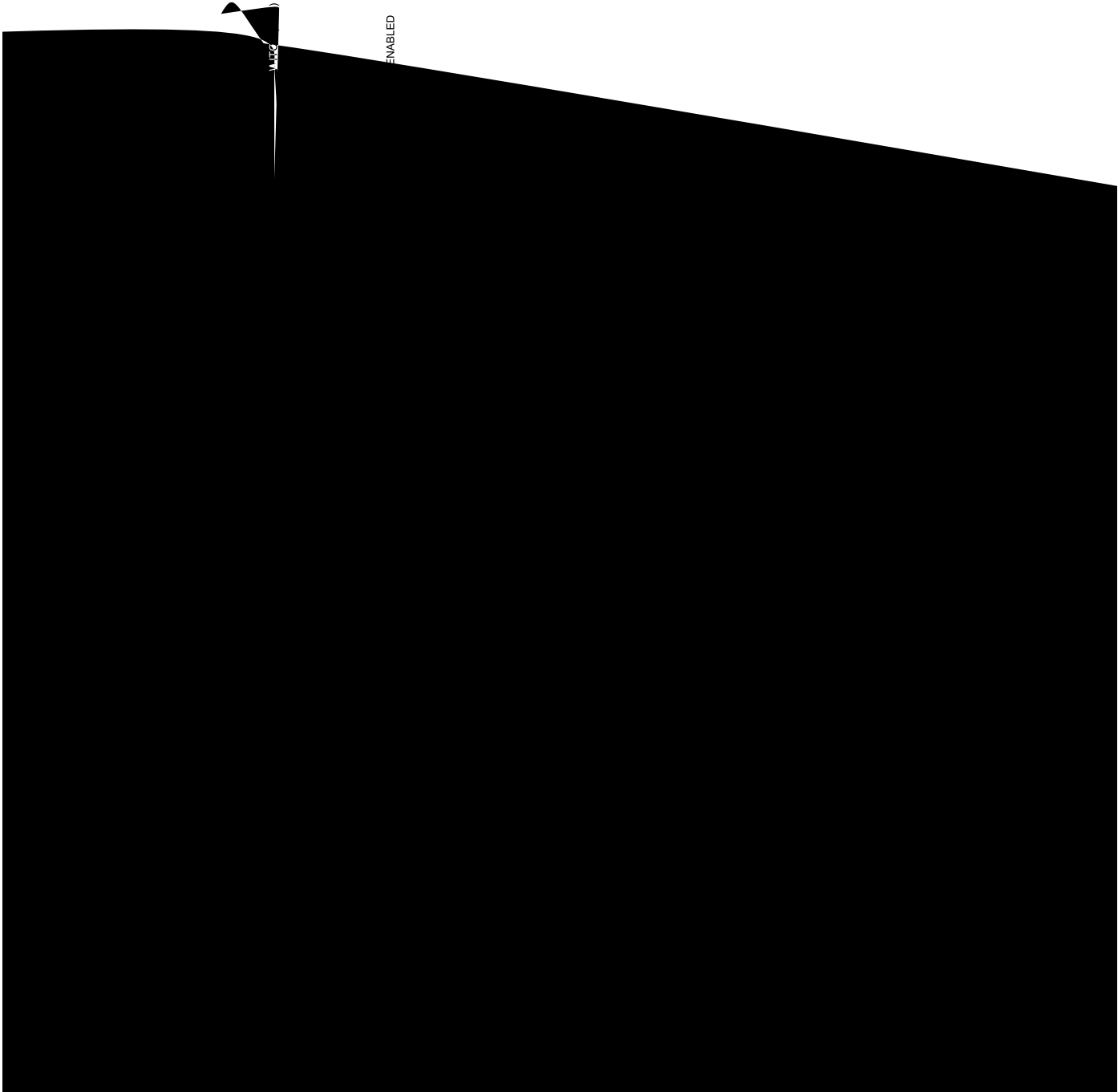
Service Assemblies

1 1 2510 2510 VALVE

NXT TO NXT2 CONVERSION KITS

[illegible]

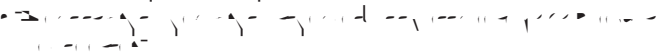
NOTE: Conversion Kits do not include wiring harness; save and reuse existing NXT wiring harness. Region-specific power supply is included.



POWER SUPPLY CONNECTIONS

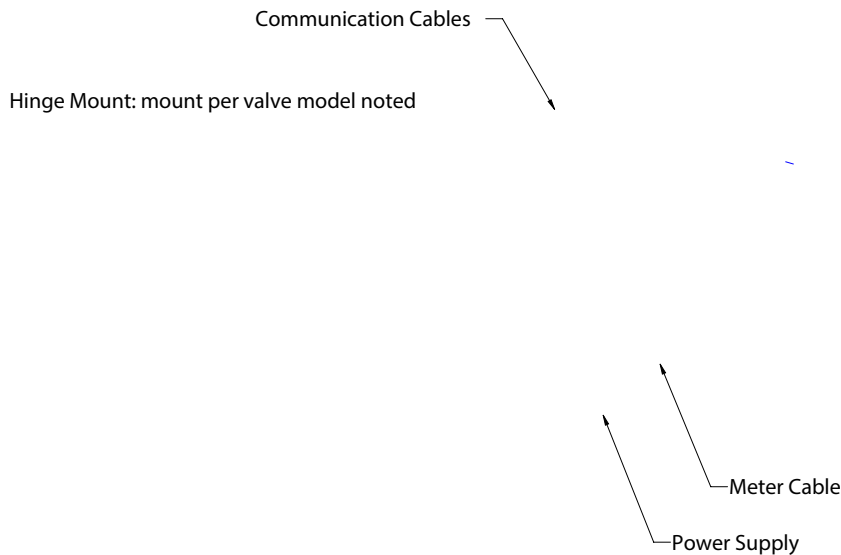
Installing the Power Supply:

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:



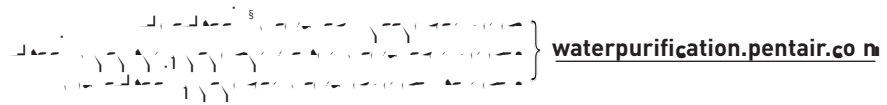
ERROR CODES AND TROUBLESHOOTING

Detected Errors

-
- A handwritten musical score for the song "The Rose Tree". The score is written on ten staves. The first staff begins with a treble clef and a key signature of one sharp (F#). The melody is written in a simple, folk-like style with many beamed eighth and sixteenth notes. The lyrics "The Rose Tree" are written below the first staff. The second staff continues the melody with the lyrics "The Rose Tree". The third staff continues the melody with the lyrics "The Rose Tree". The fourth staff continues the melody with the lyrics "The Rose Tree". The fifth staff continues the melody with the lyrics "The Rose Tree". The sixth staff continues the melody with the lyrics "The Rose Tree". The seventh staff continues the melody with the lyrics "The Rose Tree". The eighth staff continues the melody with the lyrics "The Rose Tree". The ninth staff continues the melody with the lyrics "The Rose Tree". The tenth staff continues the melody with the lyrics "The Rose Tree".

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]



waterpurification.pentair.com



13845 BISHOPS DR., SUITE 200, BROOKFIELD, WI 53005
WATERPURIFICATION.PENTAIR.COM | CUSTOMER CARE: 800.279.9404 | tech-support@pentair.com

© 2018 Pentair Residential Filtration, LLC. All rights reserved.

§For a detailed list of where Pentair trademarks are registered, please visit waterpurification.pentair.com/brands. Pentair trademarks and logos are owned by Pentair plc or its affiliates. Third party registered and unregistered trademarks and logos are the property of their respective owners.

44381 REV A JL18