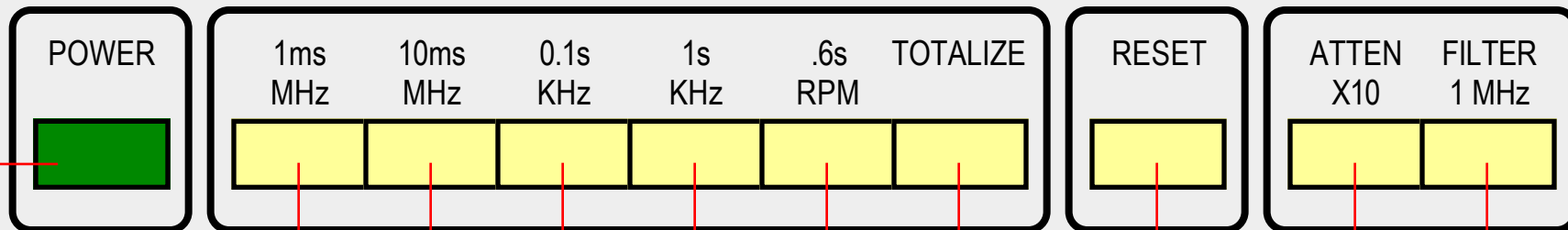


Converted Nixie Clock 6b - Instructions

The POWER button turns off the Nixie tubes only - timekeeping and the stopwatch continue running as normal.



<p>The clock is in setting mode whenever the CLOCK slide switch on the right rear is in the EXT position. The overflow LED pulsates to indicate this. Otherwise, the clock is in time/date or stopwatch mode.</p>	<table border="1"> <tr> <td>Hours 0..23</td> <td>Minutes 0..60</td> <td>Month 1..12</td> <td>Day 1..31</td> <td>Century 20..99</td> <td>Year 00..99</td> </tr> <tr> <td colspan="2">Display shows HH.MM.SS</td> <td colspan="2">Display shows 00.MM.DD</td> <td colspan="2">Display shows 00.CCYY</td> </tr> <tr> <td colspan="3">Time always shown in 24 hour format while setting.</td> <td colspan="3">The century is not normally displayed, however it is used for calculating the length of February in leap years.</td> </tr> <tr> <td colspan="6">Changing the minutes resets the seconds to zero.</td> </tr> </table>	Hours 0..23	Minutes 0..60	Month 1..12	Day 1..31	Century 20..99	Year 00..99	Display shows HH.MM.SS		Display shows 00.MM.DD		Display shows 00.CCYY		Time always shown in 24 hour format while setting.			The century is not normally displayed, however it is used for calculating the length of February in leap years.			Changing the minutes resets the seconds to zero.						<p>Pressing RESET changes the selected item. If held in, it auto-repeats at a rate of twice per second.</p>	<p>If in, RESET adjusts in steps of 10, steps of 1 if out.</p>	<p>If in, RESET lowers value, otherwise raises it.</p>	SETTING MODE
Hours 0..23	Minutes 0..60	Month 1..12	Day 1..31	Century 20..99	Year 00..99																								
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Changing the minutes resets the seconds to zero.																													
<p>The overflow LED is lit to indicate PM in 12 hour format. It is off during AM hours, 24 hour time, or date display.</p>	<table border="1"> <tr> <td colspan="6">Time format</td> </tr> <tr> <td>12 hour</td> <td>24 hour</td> <td>12 hour</td> <td>24 hour</td> <td>12 hour</td> <td>24 hour</td> </tr> <tr> <td colspan="2">MM.DD.YY</td> <td colspan="2">DD.MM.YY</td> <td colspan="2">YY.MM.DD</td> </tr> <tr> <td colspan="6">Date format</td> </tr> </table>	Time format						12 hour	24 hour	12 hour	24 hour	12 hour	24 hour	MM.DD.YY		DD.MM.YY		YY.MM.DD		Date format						<p>The date is displayed while RESET is pressed, and for 2 seconds afterwards.</p>	<p>OUT</p> <p>The stopwatch advances while in.</p>	TIME/DATE	
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12 hour	24 hour	12 hour	24 hour	12 hour	24 hour																								
MM.DD.YY		DD.MM.YY		YY.MM.DD																									
Date format																													
<p>The overflow LED is lit when the elapsed time reaches 100 hours.</p>	<p>The mode buttons are not relevant in stopwatch mode. The display shows HH.MM.SS, with the decimal points lit alternately. The stopwatch continues to run in all other modes, as long as the FILTER button is in.</p>	<p>RESET resets the stopwatch to zero.</p>	<p>IN</p> <p>The stopwatch advances while in.</p>	STOPWATCH																									

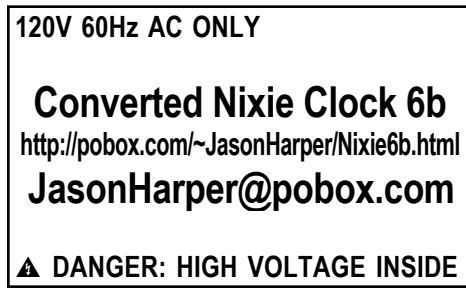
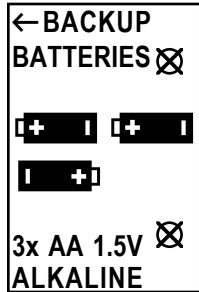
Test mode: this is active (superseding all other modes) if none of the six mode buttons are pressed in. This can be done by partially pressing one of the buttons, just far enough to release the current button, but not far enough for the new button to latch in. In test mode, the Nixies all display digits 0 thru 9 in sequence, the RESET button lights the overflow LED, and the ATTEN and FILTER buttons control the two decimal points. This allows the clock's entire display capability to be exercised.

Low battery detect: if the backup battery pack drops below about 3.5 volts, the display will briefly flash 999999 once a second. Note that this limit is set rather conservatively, to ensure there's always enough reserve power to handle an extended outage. The batteries may still have plenty of power for other uses, so don't just throw them away.

Time loss: after a complete loss of power, time/date mode will show 12's until setting mode has been used.

OTHER MODES

This is the label next to the battery compartment:



This is the label on the back, covering the original equipment label: