Converted Nixie Clock 6b - Instructions
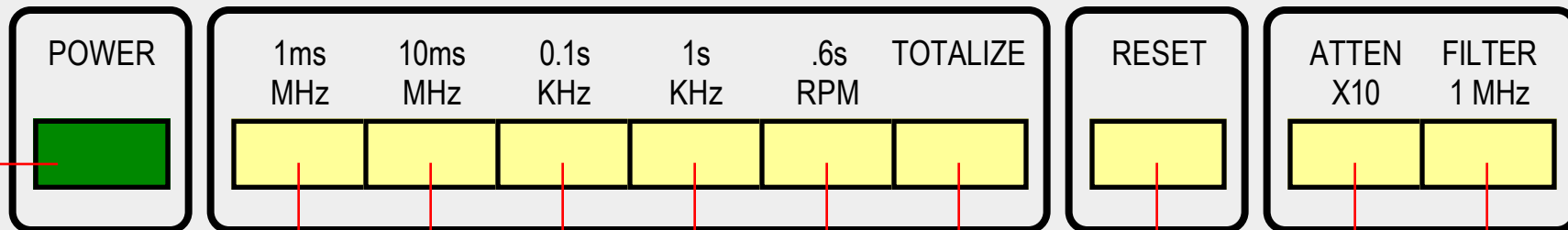
The POWER button turns off the Nixie tubes only - timekeeping and the stopwatch continue running as normal.

Buttons: POWER | 1ms MHz | 10ms MHz | 0.1s KHz | 1s KHz | .6s RPM | TOTALIZE | RESET | ATTEN X10 | FILTER 1 MHz

SETTING MODE

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.

Hours 0..23	Minutes 0..60	Month 1..12	Day 1..31	Century 20..99	Year 0..99	RESET	ATTEN X10	FILTER 1 MHz
Display shows HH.MM.SS. Time always shown in 24 hour format while setting. Changing the minutes resets the seconds to zero.		Display shows 00.MM.DD		Display shows 00.CCYY. The century is not normally displayed, however it is used for calculating the length of February in leap years.		Pressing RESET changes the selected item. If held in, it auto-repeats at a rate of twice per second.	If in, RESET adjusts in steps of 10, steps of 1 if out.	If in, RESET lowers value, otherwise raises it.

TIME/DATE

The overflow LED is lit to indicate PM in 12 hour format. It is off during AM hours, 24 hour time, or date display.

Time format						RESET	ATTEN	FILTER
12 hour	24 hour	12 hour	24 hour	12 hour	24 hour	The date is displayed while RESET is pressed, and for 2 seconds afterwards.	**OUT**	The stopwatch advances while in.
MM.DD.YY		DD.MM.YY		YY.MM.DD				

Date format

STOPWATCH

The overflow LED is lit when the elapsed time reaches 100 hours.

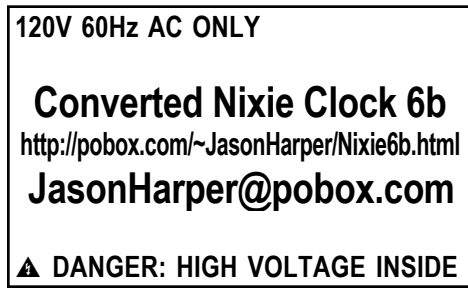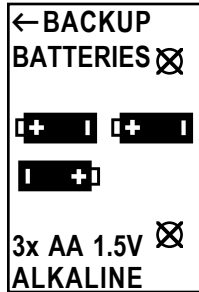| Mode buttons	RESET	ATTEN	FILTER
The mode buttons are not relevant in stopwatch mode. The display shows HH.MM.SS, with the decimal points lit alternately. The stopwatch continues to run in all other modes, as long as the FILTER button is in.	RESET resets the stopwatch to zero.	**IN**	The stopwatch advances while in.

OTHER MODES

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.

This is the label next to
the battery compartment:

←BACKUP
BATTERIES ⊗

3x AA 1.5V ⊗
ALKALINE

120V 60Hz AC ONLY

Converted Nixie Clock 6b
http://pobox.com/~JasonHarper/Nixie6b.html
JasonHarper@pobox.com

⚠ DANGER: HIGH VOLTAGE INSIDE

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