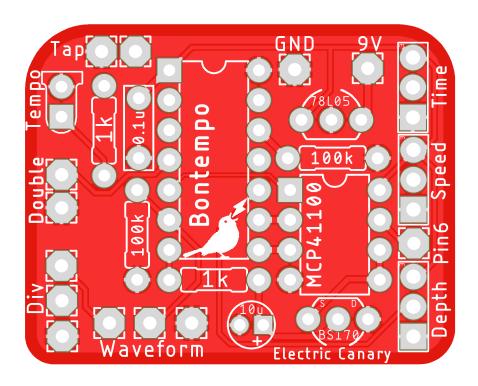
Bontempo - Build Documentation



Bontempo is a Tap Tempo & Modulation solution for PT2399 delay. You do need a PT2399 delay circuit to use with the Bontempo PCB. This is a build guide for the Bontempo PCB. For any information about operating the Bontempo please refer to the <u>datasheet</u>.

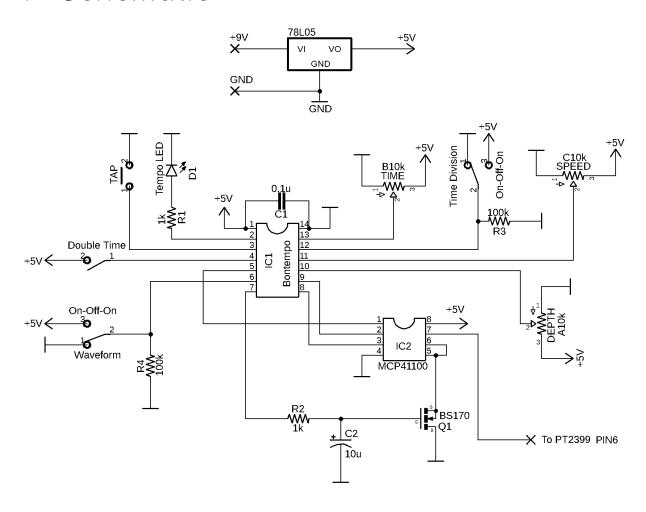








1 Schematic



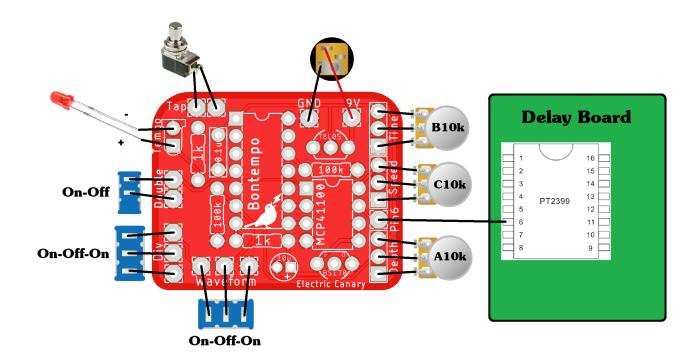
2 Bill of Materials

Name	Value
R1	1k Ω (more for dimmer LED)
R2	1kΩ
R3	100kΩ
R4	100kΩ
C1	100nF
C2	10 μ F
D1	Tempo LED
Q1	BS170

Name	Value
IC1	Bontempo
IC2	MCP41100
Time	B10k
Speed	C10k
Depth	A10k
Ταρ	Momentary SPST
Time Division	SPDT On-Off-On
Waveform	SPDT On-Off-On
Double Time	SPST



3 Wiring Diagram



4 Build Notes

- Don't forget to calibrate the Tap Tempo once you're finished! (<u>Datasheet</u> Section 9.)
- Make sure to omit the Delay Time Pot and any resistors connected to the PT2399 Pin6 in the delay circuit.
- Make sure the connection between the Bontempo Board and the Delay Board is as short and secured as possible.
- If you don't wish to use the Double Time switch dynamically just omit the switch.
- Theoretically any value between $5k\Omega$ and $140k\Omega$ could work for R3 and R4.
- Similarly, higher values for the pots could be used. Lower values are not recommended.
- If the LED is too bright you can augment R1 value. 4.7k Ω can be nicer for super-bright LEDs.
- Square pads represent pin 1 of pots, + for LED, + for polarized capacitors and pin 1 for ICs.
- Mind the way you orient switches.



