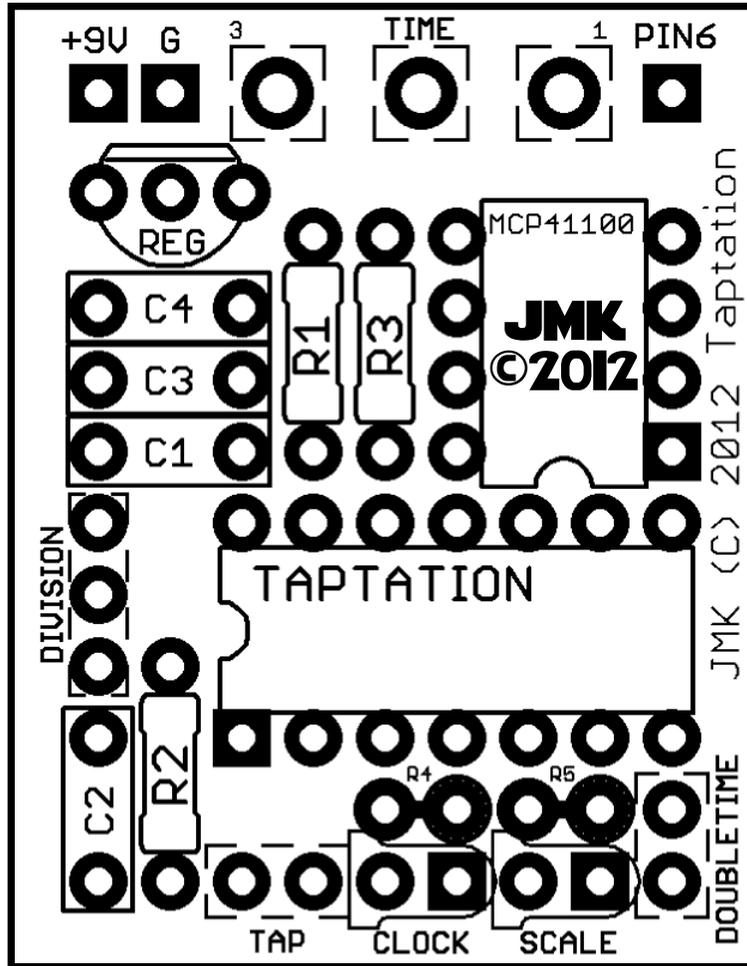


JMK PEDALS PRESENTS...

TAPTATION

PCB AND SCHEMATIC ARTWORK (C) 2012 JMK PEDALS
VERSION 1: 09/6/2012



Resistors		Capacitors		ICs	
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R1	1K	R4	4.7K	C1	100nF	C3	100nF	IC1	MCP41100
R2	100K	R5	4.7K	C2	100nF	C4	100nF	IC2	TAPTATION
R3	100K								

Potentiometers		Regulator		Switch	
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TIME	B100K	REG	78L05	Division	SPDT On-Off-On
				TAP	SP Open Momentary
				Double Time	SPST/SPDT

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BUILD NOTES

- The Taptation Project is designed to be used with the Taptation chipset. The Taptation chips are available from the DIY Stompboxes store, found [here](#).
- Please note that this project is designed to work with at PT2399 based Delay. There are many options available, and JMK PCBs has (or will have) a Delay project which you can seamlessly integrate with the Taptation PCB of your choice. Please note that the Taptation chips may also be used to integrate into other effect projects, so don't feel you need to limit your creativity to DIY tap tempo delay projects!
- The Documentation for the Taptation chipset are not needed to include this project with the delay project of your choice. However, the datasheets and applications sheets could be helpful for you if you want to integrate this PCB into a non standard project:
 - [Taptation Datasheet/Application Sheet](#)
 - [PT2399 Application sheet](#)
- R4 and R5 Merely act as Current Limiting Resistors (CLR) for the Clock and Scale LEDs. Raising the value of the resistor will result in a dimmer LED brightness.
- Hooking up the PCB is pretty simple, but to clarify the Pads: Pin6 = the connection to your PT2399 Pin 6 (the JMK Delay Project has an Pin 6 pad that connects here); +9V = 9V input; G = Ground for DC Jack; TAP = Pads for a normally open momentary switch; DOUBLE: Pads for a SPST or SPDT On-On switch; DIVISION: Pads for a SPDT On-Off-On switch
- The LED indicators for this PCB flash in time. It is not recommended that you hook these LEDs up to a switch, but rather leave them in always flashing mode.
 - The Clock LED indicates the actual tempo tapped, so that as you tap your foot or finger on your momentary switch, the Clock LED will flash in time
 - The Scale LED indicates the tempo which your delay will repeat, so in conjunction with the the double and division switches, you can alter the output of your 1/4 note taps to reflect your desired delay tempo.
- Using the division and double time switches can give you many different tap tempo divisions in conjunction with the input of the tapped switch

Tapped Tempo	Double Switch	Division Switch	Repeat Tempo
1/4 notes	Long	1/4	1/4 notes
1/4 notes	Long	.1/8	.1/8 note
1/4 notes	Long	1/8	1/8 notes
1/4 notes	Short	1/4	1/8 notes
1/4 notes	Short	.1/8	.1/16 notes
1/4 notes	Short	1/8	1/16 notes