

Fine MIDI strumming since 2013

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The information on this page is the <u>bare minimum</u> needed to build the project, however you will find expanded information for LE STRUM at https://github.com/hotchk155/Voici-Le-Strum/wiki

Here are the component designators used on the PCB:

R1, R2 - 220 Ohm (red-red-brown code) resistor

R4, R8 - 1 kOhm (brown-black-red code) resistor

R3, R5, R6, R7 - 10 kOhm (brown-black-orange code) resistor

C1, C2, C3, C4, C7 - 100nF Ceramic Capacitor (104 code)

The following components must be soldered the correct way around. Use the markings on the PCB for orientation or check the above link if in doubt

C5, C6 - 4u7 electrolytic capacitor

D1- 1N4001 Rectifier Diode

D2 - D17 - 1N4148 Small Signal Diode

REG1 - +5V 100mA Regulator TO92

MIDI, PWR - 3mm LED

Solder the IC sockets before fitting IC's. Check orientation of pin 1 notch/dimple with markings on PCB) $\,$

 $\mathbf{IC1}$ - PIC16F1825 Microcontroller with LE STRUM firmware, fitted into 14 pin DIP IC socket

IC2, IC3 - 74HC595 Shift Register, fitted into 16 pin DIP IC socket

S1-S37 - 6mm Momentary Tactile Switch

ONOFF - Miniature slide switch

MIDI_OUT - 5 PIN DIN socket PCB mount

ICSP - 6 way SIL right angle pin header (optional)

STYLUS - 4mm plug on wire

Fit the PP3 battery box last, to the underside of the PCB. Trim down all solder joints first and use the M2.5 machine screw and nut to secure it through the hole beside IC1

Attach the 4 brass pillar "legs" (20mm at front, 25mm at back) using the M3 machine screws

LE STRUM rewards experimentation. Try playing with dynamics (Envelope attack and release) and reverb/delay effects on your synth or sound module. LE STRUM generally sounds best with big polyphony and a bit of release so that the sounds are not cut too abruptly.

If you are using any of the patches that enable "Organ Buttons", this will mean that LE STRUM is outputting on two different MIDI channels; when you press a new chord button, the chord triad immediately plays on MIDI channel 2. Notes triggered with the stylus play on MIDI channel 1. For this to work effectively you need to route channels 1 and 2 to different sounds.

I hope you enjoy LE STRUM. If you have any problems please contact me at the following email sixtyfourpixels@gmail.com or via the site where you ordered LE STRUM

LE STRUM is an open source, open hardware project. All input is welcome, from wish-list ideas to hacks, mods and enhancements!

Cheers

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Jason Hotchk155 Jason Hotchk155