clee Bits rate control update

This hardware and software update to the clee Bits module adds a third mode to the RATE control. The 3 modes are AUDIO RATE, SUB-AUDIO RATE and a new EXTERNAL TRIGGER MODE

ORIGINAL DESIGN:

UP: Audio rate - LED is off

DOWN: Sub-audio - LED flashes

sample rate

WITH MOD:

UP: EXTERNAL TRIGGER - LED is on when input is above threshold

CENTER: Audio rate - LED is off

RANGE SWITCH

DOWN: Sub-audio - LED flashes

sample rate

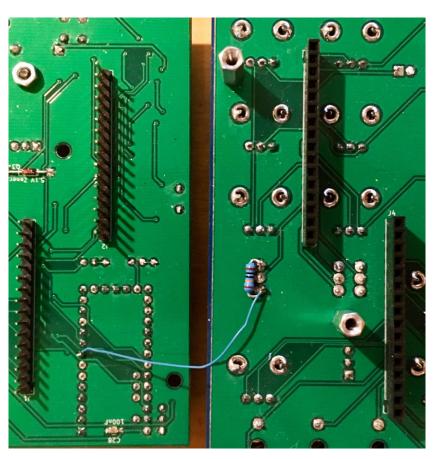
With external triggering the RATE CV IN becomes a TRIGGER IN.

Start with the RATE CV pot fully CW and the RATE

MANUAL CONTROL fully CCW

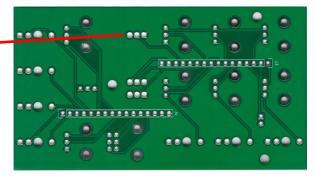
The update involes using an ON-OFF-ON switch instead of ON-OFF (or replacing if updating a current build), installing a 100K 33K resistor, and adding a jumper wire between boards.





Locate the range switch on the PCB.

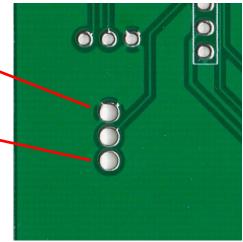
You should have installed a 3 position ON-OFF-ON switch

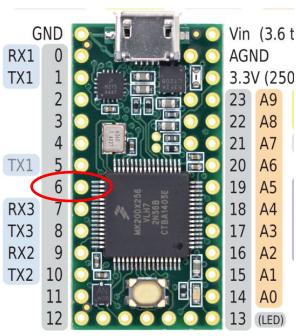


One side of the switch is ground and the other is no connection

ground connections with thermal relief pads

No connection





IMPORTANT!

You are connecting a jumper wire to PIN 6 of the Teensy 3.2.

This is actually PIN 8 of the Teensy board, Pin 1 is ground and PIN 2 is Teensy PIN 0

- 33K
- 1) Solder a 100K resistor between the outer lugs of the range switch
- 2) Connect the other end of the jumper wire to the pin of the switch that was no connection
- 3) Connect the jumper wire to the Teensy pin 6 (board 8)
- 4) Program the module with software version 1.4

