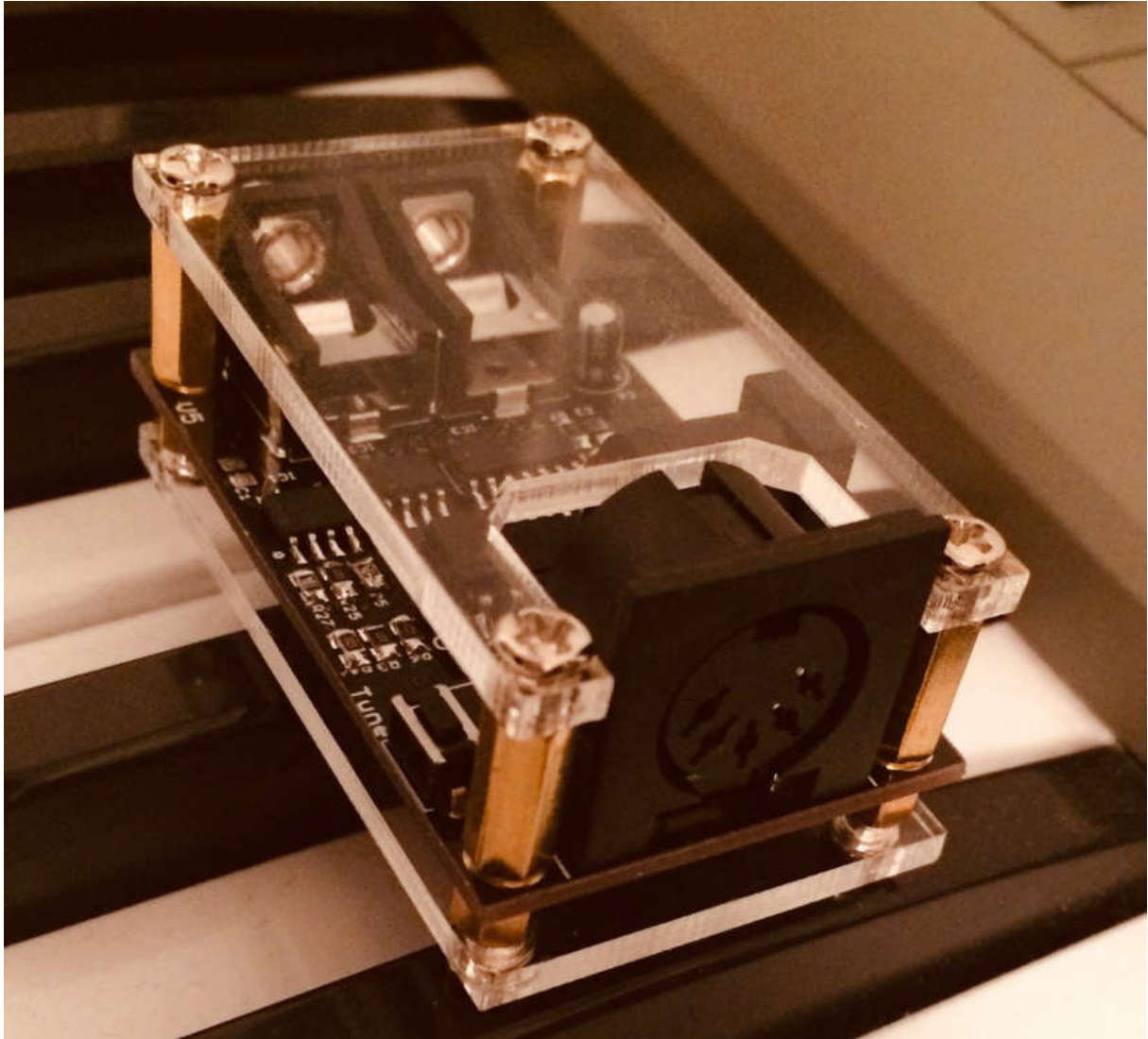


**Valpower.cc**

**product: CV Gate Midi module**



## technical specifications

- dc input : 9v center negative , at least 150 mA. (most guitar pedal power supply)
- midi in: optocoupled
- Midi output: None
- midi commands : note on , note off
- midi channel : channel 1.
- cv output : 0 to 6v where 1v/Octave

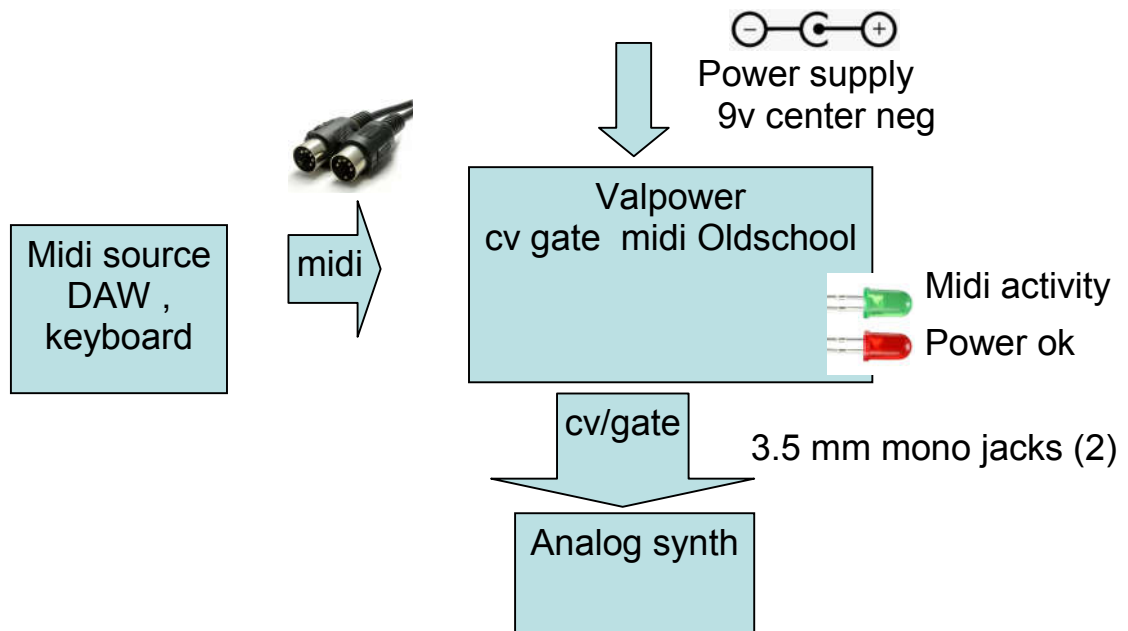
-mounting plexy parts instructions : mount the plexy part as shown on the pictures :)  
(to be improved)



## connecting instructions

1. turn off your synth
2. connect the cv&gate out of the module to your your synth cv/ gate input
3. use 2 mono 3.5mm jack cables
4. add the power supply connector
5. red led should be on
6. turn on your synth
7. send some midi notes with your computer using a DAW.
8. green led should blink , and notes will be triggered on your synth

## General diagram



## Frequently asked questions

- Does it work as midi output or cv input?  
No midi output is not supported.  
cv input is not supported
- can i control the Arp with the gate of module?  
Yes/
- Can i change de channel ?  
No , its not possible.
- what is the tune button for ?  
its a button for calibration.  
all units are calibrated in factory with very precise equipment.  
Normally you don't need to recalibrate your unit.  
see calibration procedure. (UNDER your own risk)

# Calibration Procedure

**This procedure is not mandatory.**

**you don need to do this section , you might screw things up.**

**Use it at your own risk (low support if your unit gets uncalibrated)**

- connect your synth to the Midi CV/GATE converter
- connect a midi keyboard/controller (also a computer will work too)
- after turn on the unit , press the tune button , this will get you into tune mode
- For tuning connect your synth audio output to a guitar tuner or smartphone tuner app (you can also use a voltmeter)
- In the case of SH-101 it keys will not work while cv gate is connected, you will use a midi keys to calibrate your synth.(it might be different for other synths)
- we will calibrate note by note , starting from lower note, using a midi keys to move up/down tune up/down , and save at the end.
- calibration keys starts in C3 (middle of the keyboard C)
- Use the key chart to tune each KEY
- Don't forget to save your calibration at the end.
- exit calibration mode by releasing the button
- Procedure is finished , your changes will be kept even after power down the unit.

C	Play current note
D	Play next note (move up)
E	Play previous note (move down)
F	Tune note down
G	Tune note up
A	Tune note down x 10
B	Tune note up x10

A#	Save all
C#	Tune note down - ALL OCTAVES
D#	Tune note up -ALL OCTAVES

## Synth Compatibility

SYNTH MODEL	CV OR HZ/V	S-TRIG OR GATE	compatible	note
MINIMOOG	CV	S-TRIG (5V)	yes	
MOOG PRODIGY	CV	S-TRIG (5V)	yes	
MOOG ROGUE	CV	GATE (5V)	yes	
MOOG SOURCE	CV	S-TRIG (5V)	yes	
ROLAND SH-101	CV	GATE (5V)	yes	
ROLAND MC-202	CV	GATE (5V)	yes	
ROLAND TB-303	CV	GATE (5V)	yes	only if has input mod
SEQUENTIAL PRO-1	CV	GATE (15V)	no	
KORG MS-10/20	HZ/V	S-TRIG (5V)	no	
KORG 700S/770	HZ/V	S-TRIG (5V)	no	
KORG MONOPOLY	CV	GATE (15V)	no	or s-trig
YAMAHA CS-10/20/30	HZ/V	S-TRIG (5V)	no	
ARP ODYSSEY (&AXXE)	CV	GATE (15V)	no	
ARP 2600	CV	GATE (15V)	no	
OCTAVE CAT/KITTEN	CV	GATE (15V)	no	
roland sh-09	cv	GATE (15V)		

Note: Most synths are Gate 5v triggered, all units are shipped in this configuration.