

MegaOhmAudio MA20 VCF User's Guide

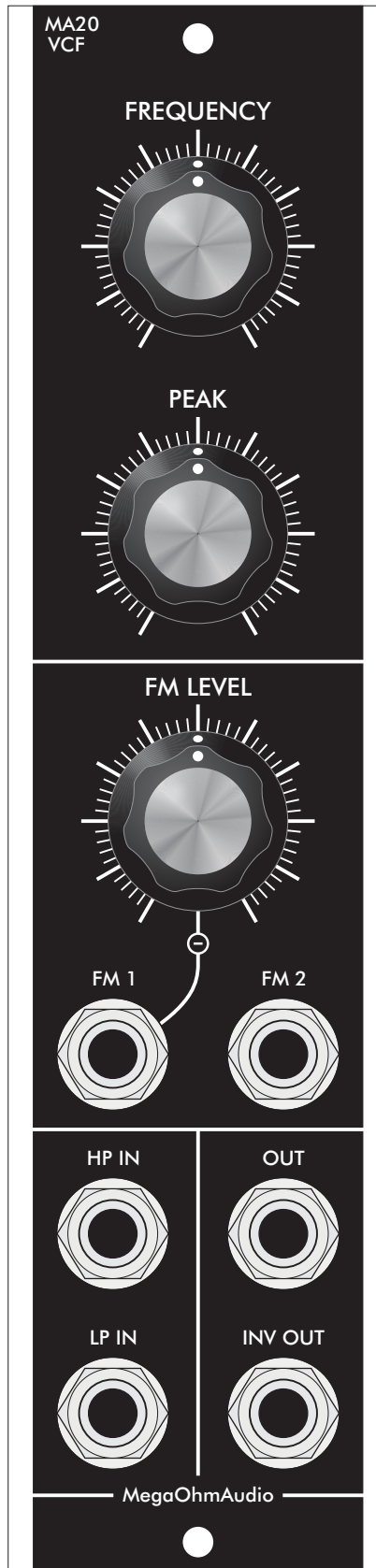
Frequency Pot
Manually set the filter cutoff

FM LEVEL pot:
Push/Pull pot
Attenuates the signal at Fm1
input jack.
Full CW= x1 gain
Pull position inverts the Fm1
signal.

FM 1 Input

High Pass input
1 pole

Low Pass input
2 pole

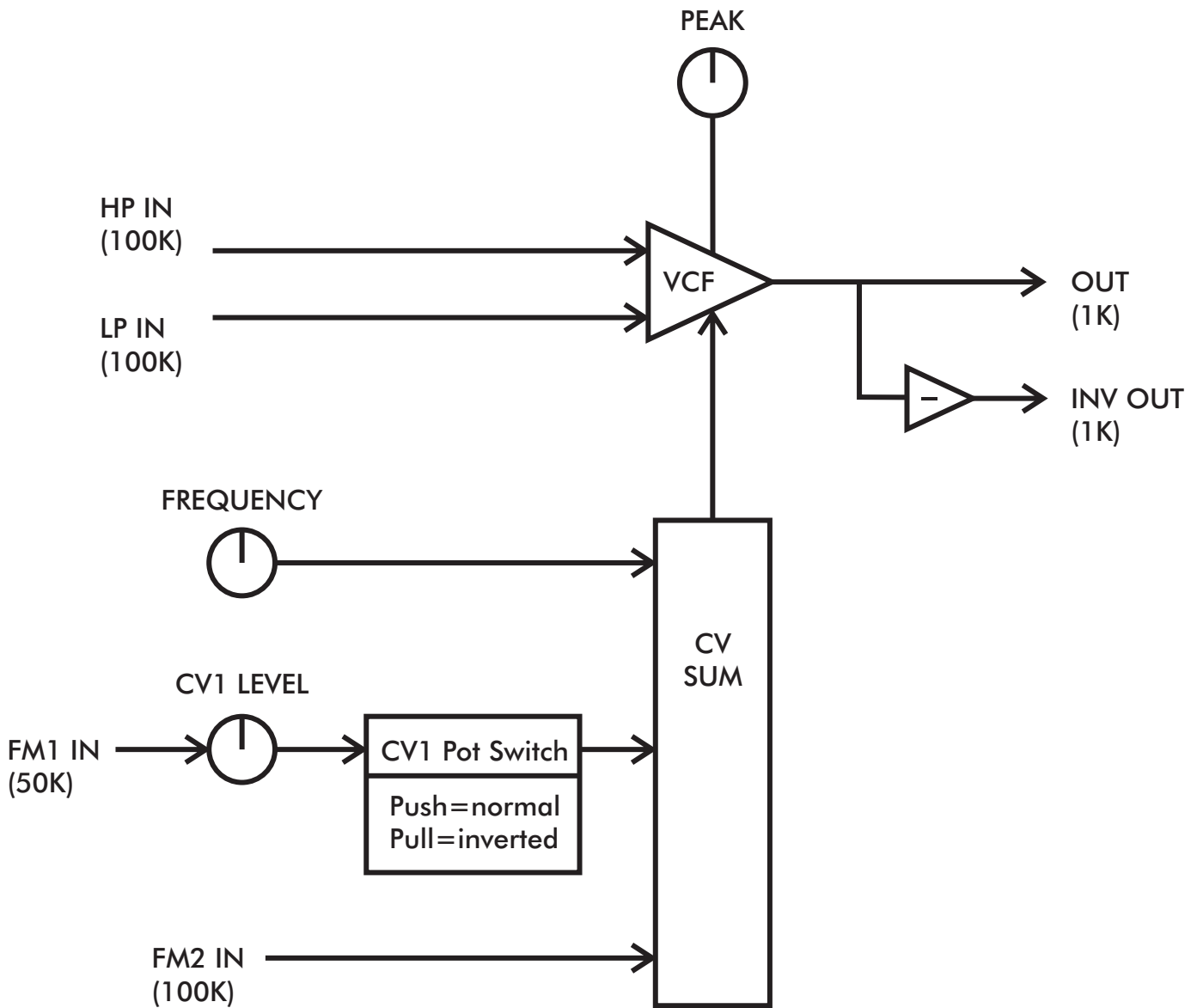


Peak Pot
AKA: Resonance
Boosts frequencies near the
cutoff point.
3 o'clock and beyond for
oscillation (effected by input
signal levels).

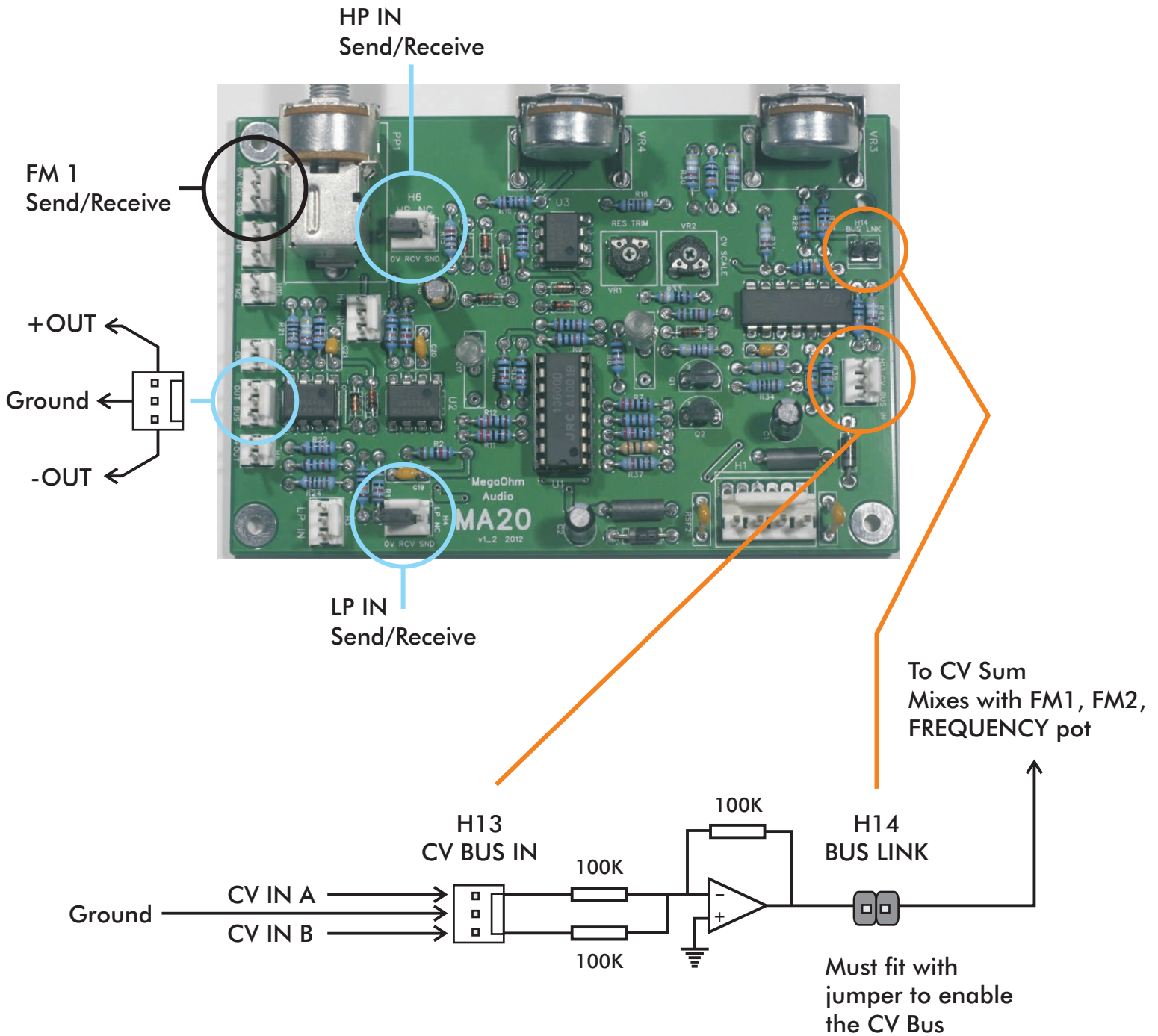
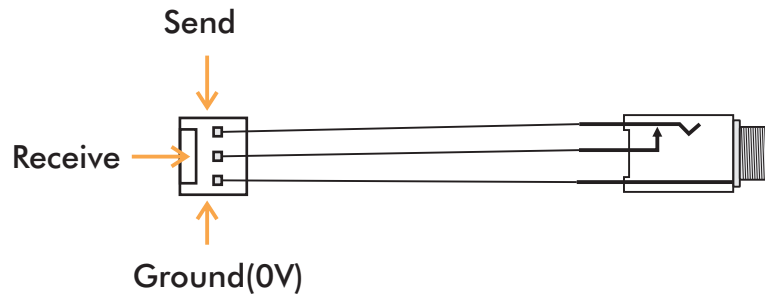
FM 2 jack:
Unattenuated frequency
modulation input.

Filter Output

Inverted/phase reversed
filter output



(input/output impedance)



RES TRIM (VR1)

Sets the gain for the PEAK circuit

To trim:

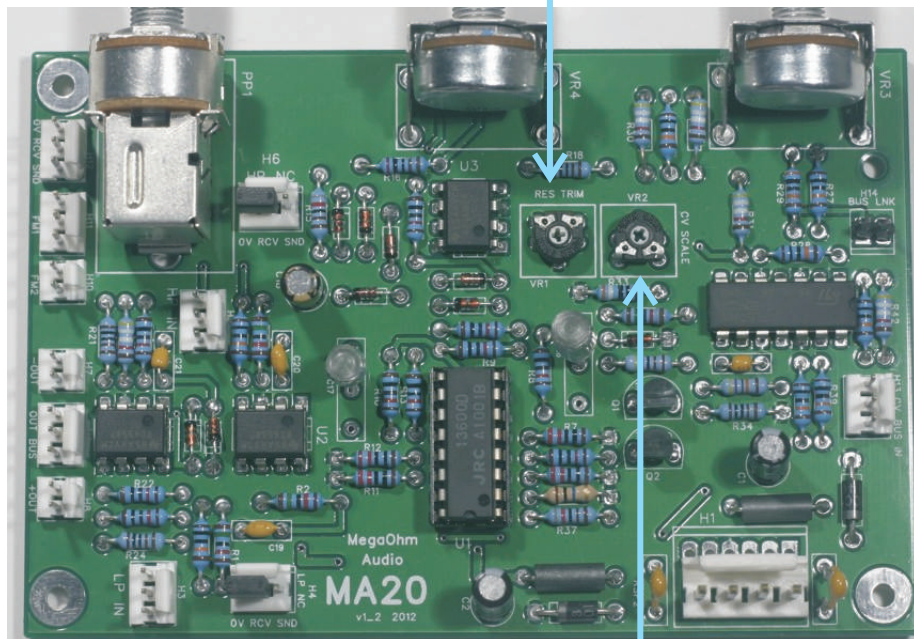
Monitor output

All input jacks should be open/empty

Set FREQUENCY pot to 1 or 2 o'clock

Set PEAK pot to 4'

Turn CW until filter oscillates



CV SCALE (VR2)

Sets the sensitivity of the VCF to incoming CV.

Does NOT track 1V/Oct accurately.

To trim:

Apply +5V to FM1

FM1 pot full CW

Set FREQUENCY pot to 9'

Apply audio range sawtooth to LP IN.

Adjust trimmer so that the filter is fully open.

MA20 VCF

Power: +15V, 0V, -15V
Synthesizers.com power header

PCB extends 3" behind panel.

Power consumption: average +20mA / -20mA

Current consumption can / will vary depending on module settings and also what modules it is patched to.
Rate your PSU conservatively.

This module is based on the later version MS20 synth VCF.
It is not a clone!
Praise and respect to Korg for their wonderful devices
(past and present).

- MegaOhm Audio 2012