Borg Filter

BORG FILTER/GATE INPUTS

WIARD
BORG FILTER

FREQUENCY

AUDIO INPUT
Audio input 1
mixes 50/50 with
Audio input 2

IN 1

IN 2

AUDIO INPUT
Audio input 2
mixes 50/50 with
Audio input 1

PEAKING
BP

CONTROL

CONTROL INPUT
Controls filter
center frequency
20 Octave range

KEY INPUT
Controls filter
center frequency
Not Calibrated
Aprox. 10
Octave Range

LP   HP

CV

KEY IN   OUT 1   OUT 2

MALEKKO

HINT: Route AD envelope to "KEY IN"
route AR envelope to "CONTROL IN"
for simple ADSR mixer. Use "CONTROL
IN" as simple "SUSTAIN" control.
Use Initial Frequency for "PUNCH"
"Thanks to John Paia Simonton for
suggesting "PUNCH" mode RIP."

BORG FILTER/GATE OUTPUTS

WIARD
BORG FILTER

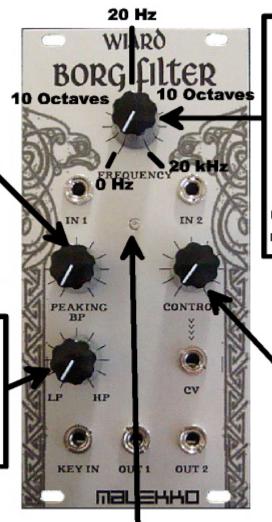FREQUENCY

IN 1   IN 2

PEAKING
BP   CONTROL

LP   HP   CV

KEY IN   OUT 1   OUT

MALEKKO

MAIN AUDIO OUTPUT
+/- 10 VOLTS
Primary Audio Output
Clean

AUXILIARY AUDIO OUTPUT
+/- 10 VOLTS
Output of Limiter Amp
Clipped

HINT: USE BOTH FOR STEREO SEND

BORG FILTER/GATE CONTROLS

20 Hz

WIARD

BORG FILTER

10 Octaves   **10 Octaves**

FREQUENCY

0 Hz   **20 kHz**

IN 1   IN 2

PEAKING
BP

CONTROL

LP   HP

CV

KEY IN   OUT 1   OUT 2

malekko

PEAKING (RESONANCE) WITH VCA SWITCH
Turning control all the way "off" engages switch which changes to VCA mode. Maximum setting produces self-oscillation

INITIAL CENTER FREQUENCY
0 TO 20khZ 20 OCTAVES
Note: Half of knob travel from 0 Hz to 20Hz may not appear to be "working". It is working fine in the infrasonic range. Pleaase do not use near elephants (seriously)

MODE CONTROL
LP = Lowpass 12 dB/oct
BP = Resonator Gain of 1 except "Peaking" controls gain at Fc
HP = Highpass 6/dB/oct

FREQUENCY SWEEP RANGE (Attenuator for "CONTOL IN" jack)
0 TO 10 VOLTS 20 OCTAVES

BLUE LED
The brighter LED is the hIgher the center frequency