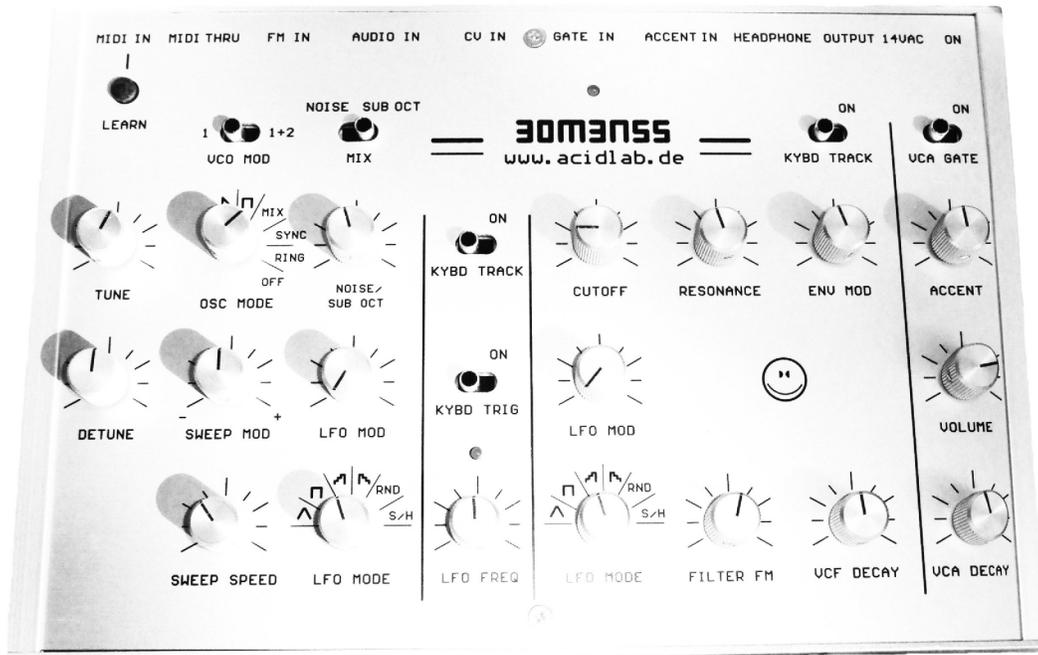


# 303SSLINE

www.acidlab.de



Bombass is a monophonic, analogue synthesizer.

The schematics of the VCF, VCA and the envelopes are similar to the TB-303, with a lot of new features.

With Midi, the pitch, length, slide and accent are controlled.

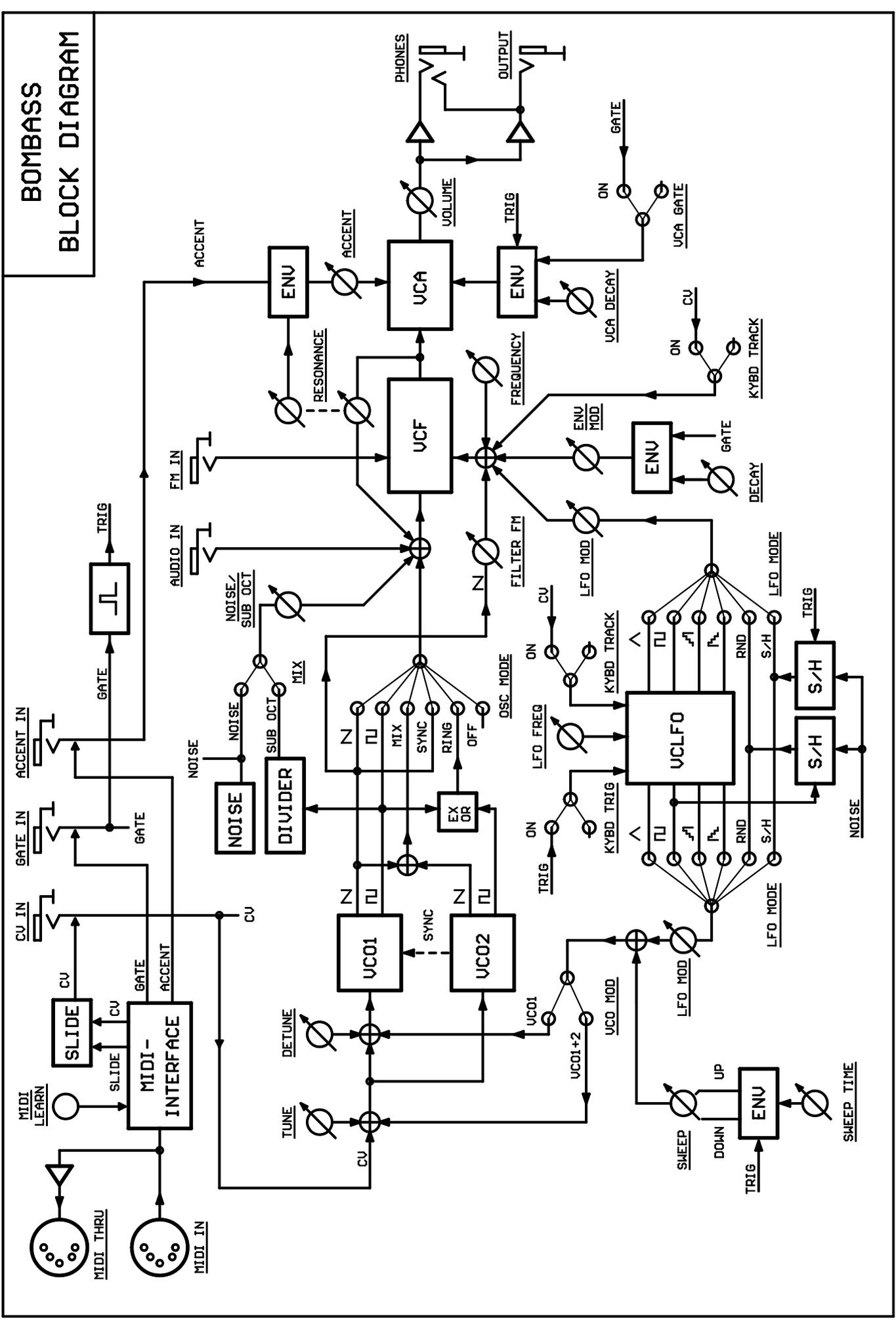
It is also possible to control the bombass with the inputs CV In, Gate In and Accent In from the sequencer of the Bassline. The Bombass works then as the synthesizer-section of the Bassline, with much more sound variations, than known from TB-303 modifications.

Everything, from abstract filter-sweeps to percussion-sounds is possible.

In comparison to the Bassline or the TB-303, the resonance range is extended, that the filter can be played without the VCO.

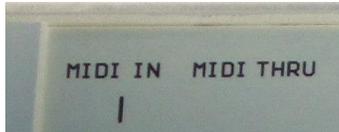
**To get an idea about the possibilities of the sound-generation of the Bombass, it is best, to take a look on the block-diagram!**

# BOMBASS BLOCK DIAGRAM



## Midi-Interface

### Midi connection



Bombass must be connected with a Midi-cable on its Midi In, to the Midi Out of the Midi-master (Midi-sequencer, laptop, ...).

Midi Thru gives the Midi-informations of the Midi-master to further Midi-slaves.

### Set the Midi-channel



Push the Midi-Learn button for at least two seconds, then the LED on the top flashes. The next received Midi-note defines the Midi-channel. To change the Midi-channel, the Midi-Learn button must be pushed again.

### Note length - Gate

The Midi-note on/off's received by the Midi-interface are converted to a gate-signal. This is indicated by the LED on the top.

Velocity values of '0' are equal to a note-off and reset the gate-signal.

A Midi-stop is equal to an 'all-notes-off', and stops all notes.

### Pitch - CV

The Midi-information of the pitch is converted to a control-voltage CV (0-5 Volt; 'C' = 65,4 Hz).

## Slide

When a second Midi-note is received, while the first is playing, the Slide-function is activated.

The pitch changes to the new pitch of the second note.

## Accent

Velocity values higher than 99 activate the Accent.

The Accent is finished with the Midi-note off.

## Inputs

### Audio In

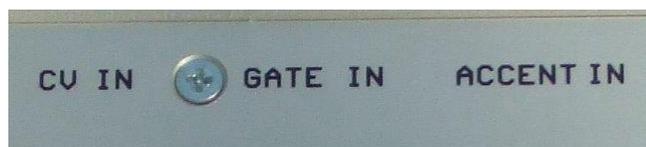
Audio in (6.3 mm, mono) is an audio input, that is mixed to the audio signal path before the filter.

### FM In

FM in is an input (3.5 mm of mono) to modulates the cutoff frequency of the filter.

The FM input is suitable, to modulate the filter with audio signals.

### CV-, Gate- und Accent-Inputs:



With the CV In, Gate In and Accent In (3,5 mm mono), it is possible to control the Bombass with a sequencer of the Bassline, a TB-303 or any other sequencer that has CV/Gate Out.

The internal connections between the Midi-interface and the synthesizer are opened, when these inputs are connected.

## CV In

The CV In converts 1V/octave to the pitch.

## Gate In

The Gate In needs a 5-12 Volt signal to control the note-length.

## Accent In

The Accent In needs a 5-12 Volt signal to control the accent-length.

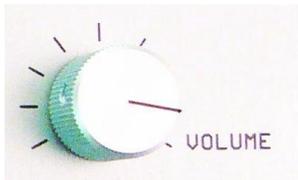
The Accent In is normally controlled with the Accent Out of a Bassline, to play its lines, with the extended sound variations of the Bombass.

## Outputs

### Audio Outputs:

Output is the main output (6,3 mm of mono), to connect a mixer. Headphones is a headphone output (3.5 mm stereo).

Both Outputs are controlled with volume.



**The produced bass frequencies are a large load for following amplifiers and loudspeakers.**

**Without protection they can take damage!**

## Voltage Supply

**The bassline can be operated only with the provided AC power plug (14VAC/300mA).**

**Do not use other power plug!**

The bassline has an on/off switch on the right back panel.

Spare power plugs can be bought at acidlab, or directly at **Conrad** electronics under the part number: **510003-12** .

In the USA or at 115VAC nets, you need the power plug of **mouser.com** with the part number: **507-XT1620** .

## Warranty

The manufacturer grants a warranty of two years starting from the purchase date on the product, in accordance with the condition described here. If defects are found within this time, then these will be repaired. Potentiometers, switches and sockets apply with this product are excluded from this regulation. The decision over the warranty claim meets the manufacturer. When determined foreign modifications or mechanical damages any warranty claim expires. Products without warranty authorization are liable to pay the costs repaired. In order to clarify the warranty claim, the manufacturer is to be contacted in each case before sending back. Except the manufacturer, no third is justified to assure or implement guarantees. Within the warranty term the warranty is transferable to further buyers. Further requirements because of consequential damages are impossible.

***acidlab***

***Dipl. Ing. (FH) Klaus Süßmuth***

**e-mail: [bassline@acidlab.de](mailto:bassline@acidlab.de)**

**web: [www.acidlab.de](http://www.acidlab.de)**