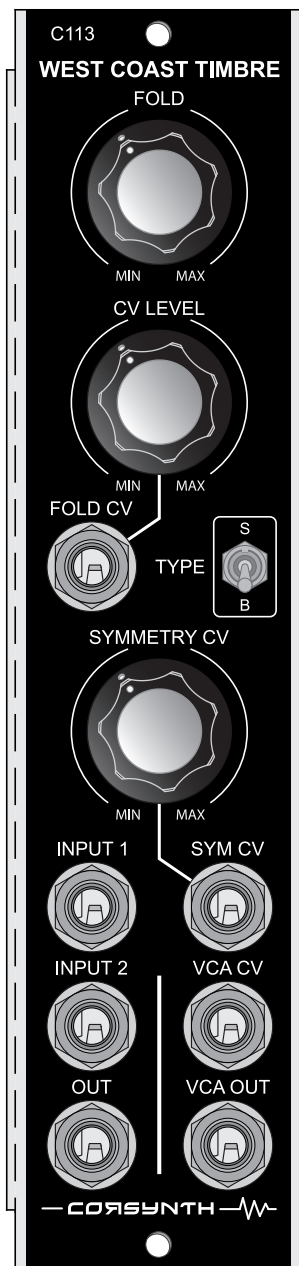


C113

WEST COAST TIMBRE



C113 WEST COAST TIMBRE

A wavefolder is a non-linear waveshaping circuit that allows to create rich harmonic waveforms. Its a distortion circuit that folds back the signal when it reaches a certain level. Wavefolding can be seen as the opposite of filtering. Instead removing harmonic content to the incoming signal, a wavefolder adds harmonics to the original signal creating a more complex waveform. For this reason wavefolders work best with waveforms with low harmonic content like sine waves or triangle waves.

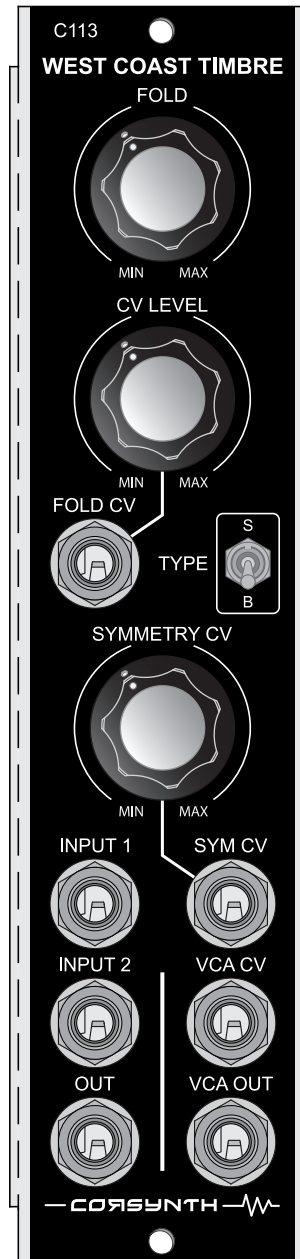
Wavefolders together with Lopassgates are one of the main building blocks of the West Coast Synthesis.

The C113 West Coast Timbre features two different wavefolder circuits based on two classic west coast modular synths Buchla and Serge.

The C113 West Coast Timbre main characteristics are :

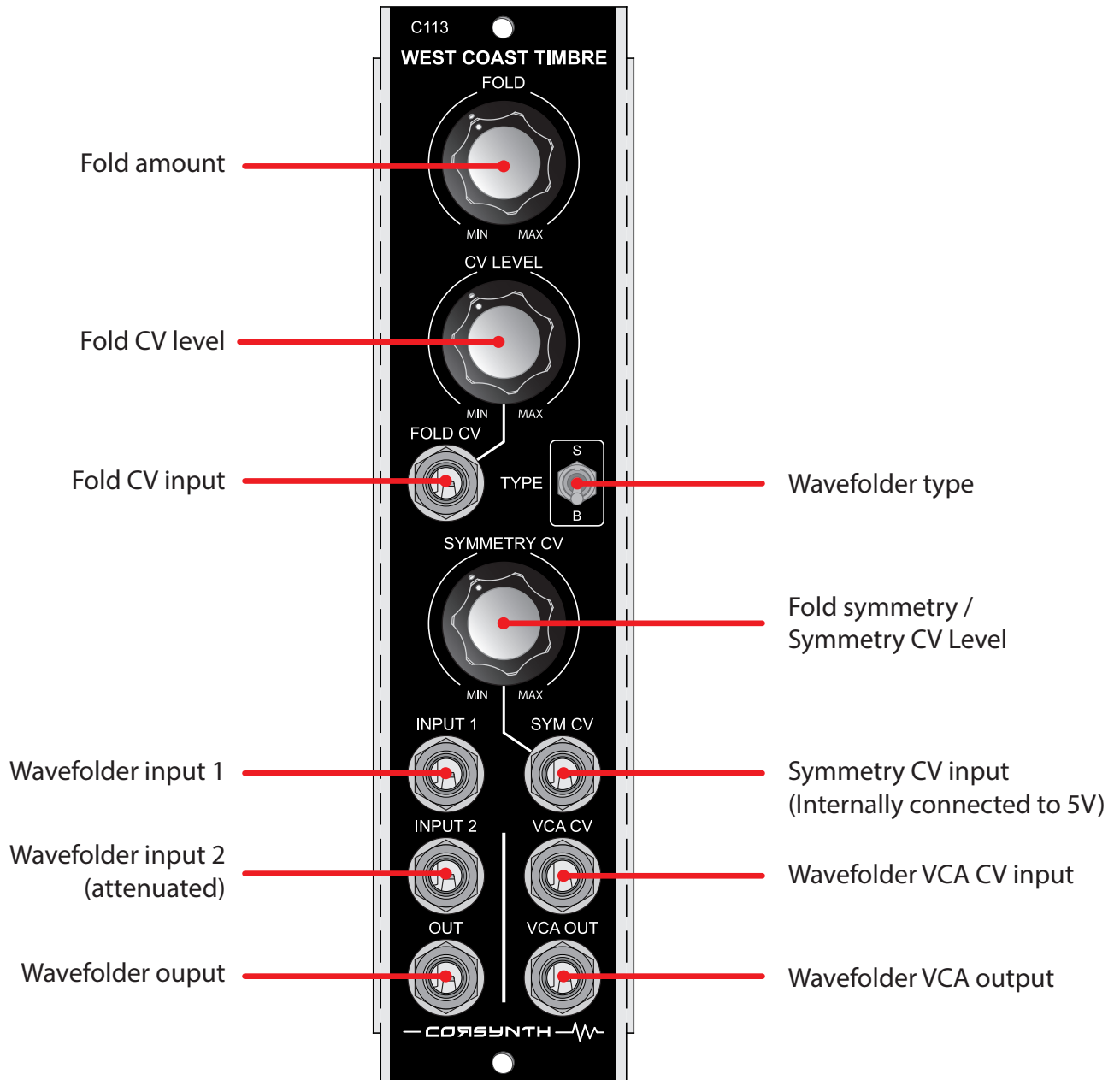
- Two selectable wavefolder circuits.
- Manually and CV controlled folding amount
- Manually and CV controlled symmetry for non symmetrical folding.
- Two audio inputs, one of them attenuated.
- Two audio outputs, one of them controlled by a VCA

Thanks to the included VCA, a full featured voice can be created with a minimal amount of modules like a VCO, an envelope and the C113.

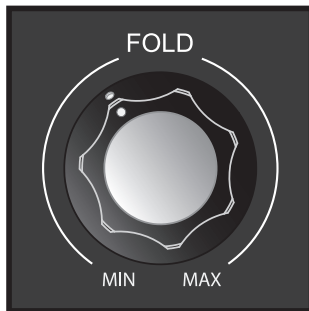


C113 WEST COAST TIMBRE

Front Panel

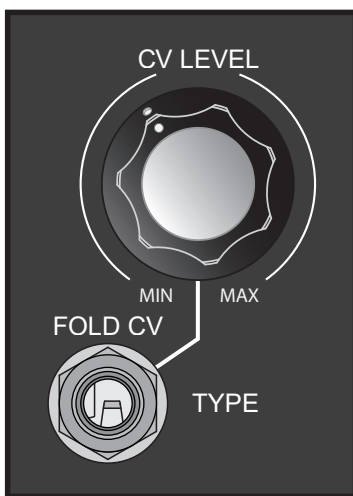


CONTROL DESCRIPTION



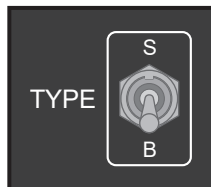
FOLD

This control together with the Fold CV input, sets the amount of wavefolding applied to the incoming signal. The higher the value the more harmonics will be added to the output signal.



FOLD CV

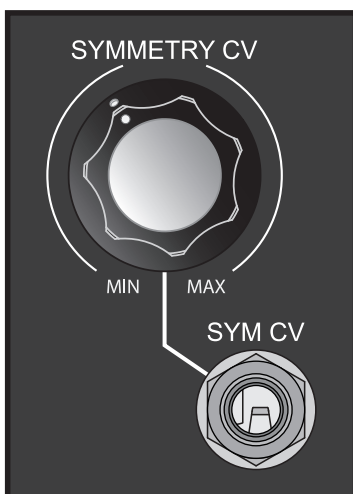
Fold CV input. The **CV LEVEL** potentiometer sets the amount of modulation. The input accepts positive and negative signals and together with the **FOLD** potentiometer sets the amount of wavefolding applied to the incoming signal.



WAVEFOLDER CIRCUIT SELECTOR SWITCH

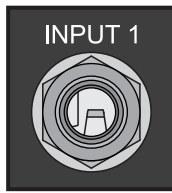
S: Wavefolder based on Serge.

B: Wavefolder based on Buchla.



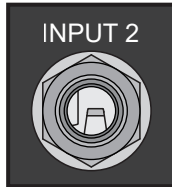
SYM CV

Symmetry CV input. This input allows to add an offset to the incoming signal that will result in an asymmetrical wavefolding. The input accepts positive and negative signals and it's internally connected to 5V. This connection will break when a jack is inserted. The **SYMMETRY CV** potentiometer sets the amount of offset added to the audio input.



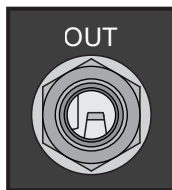
INPUT 1

Wavefolder audio input.



INPUT 2

Wavefolder audio input 2. This is an attenuated input.



OUT

Wavefolder output.



VCA CV

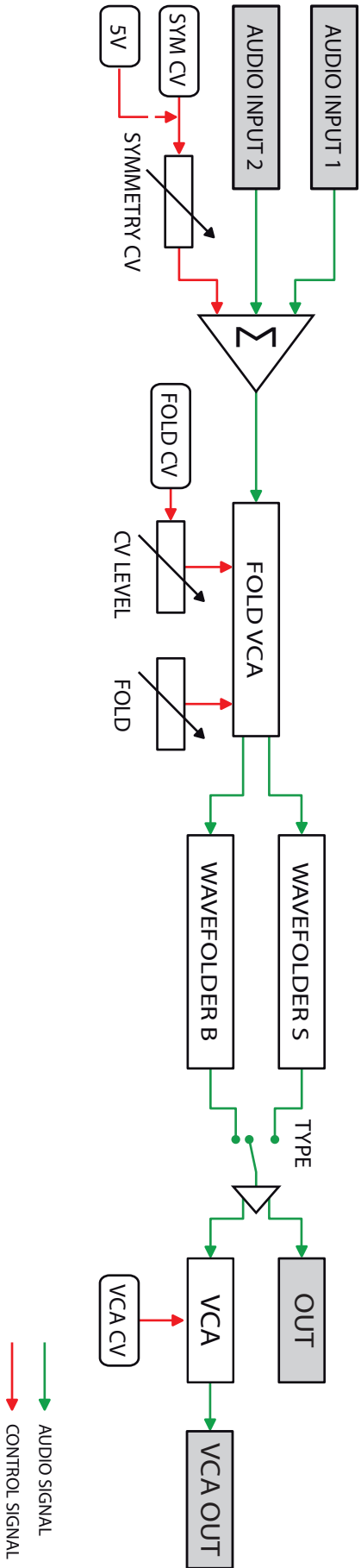
VCA CV input.



VCA OUT

Wavefolder VCA output.

C113 WEAST COAST TIMBRE - BLOCK DIAGRAM



TRIMMERS AND POWER CONNECTORS



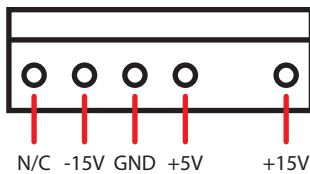
IMPORTANT !!!!

This module has two power connectors (MU and MOTM).

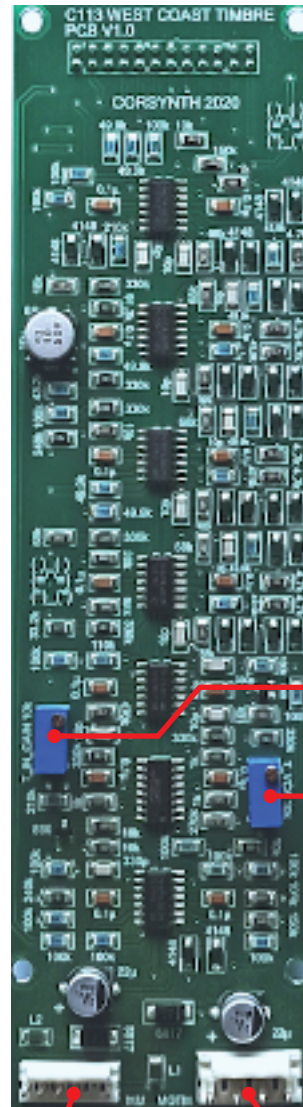
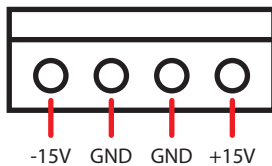
Only one is needed to power the module. (MU or MOTM).

Never connect both at the same time.

MU



MOTM



Wavefolder initial gain

VCA CV rejection

MU power connector

MOTM power connector

TECHNICAL DATA

Module Format : 5U, MU format (Synthesizers.com, Moog)

Module Width : 1 MU (Moog unit)

Module Depth : 52 mm (2,05 inches)

Power : +15V51@mA , -15V52@mA

Power connectors : MU, MOTM (4 pin)

