



DVCA by Korb-Modular

PCB Ver. : 0.1.1

Doc Ver. : 1.0

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Before you start:

DVCA is an beginner friendly SMT project. Nevertheless you should know how to handle electronic equipment.

For this built a scope is needed.

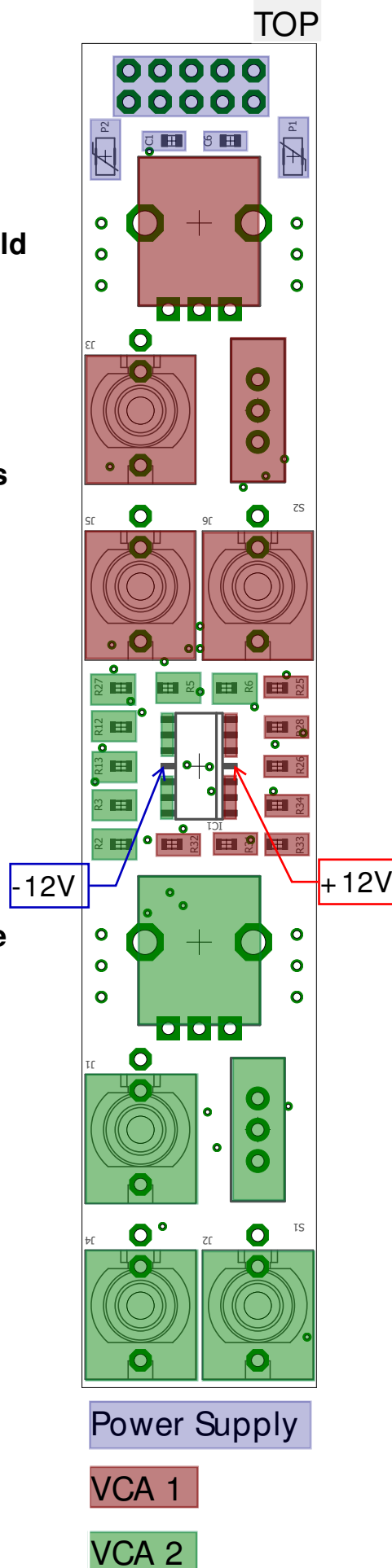
I recommend a hot air gun instead of an soldering iron for the SMT Parts.

Please read the entire doc before starting the project.

Power Supply:

Assemble all parts of the power supply on the top an bottom side.

Power up the module and check the voltages according the build guide



VCA 1:

Assemble all parts for VCA 1.

Power up the module, and feed a signal to the Input (J5) of VCA 1.

Connect the Output (J6) to an mixer or similar.

Turn the pot CW to increase,
and CCW to decrease the
volume.

Feed a CV-Signal in Control Input (J3), the output volume of VCA 1 should change accordingly.

Calibration:

Remove all cables.

Set switch to linear

Set the Gain-Pot to the middle position. (0V on the wiper)

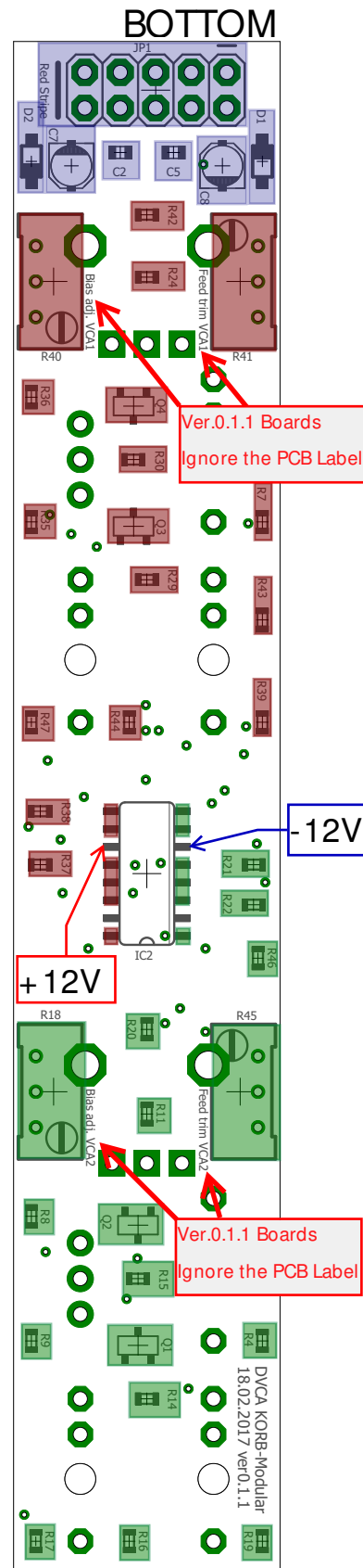
Adjust trimmer R40 in order to have 0 volts on the output Jack of the VCA 1 .

Connect a 10Vpp / 100 Hz

Square wave to the control input.

Observe the output with an

Scope. Change R41 to minimize the bleedthrough of the Control-Voltage to the Output.



VCA 2:

Assemble all parts for VCA 2.

Power up the module, and feed a signal to the Input (J4) of VCA 2.

Connect the Output (J2) to an mixer or similar.

Turn the pot CW to increase,
and CCW to decrease the
volume.

Feed a CV-Signal in Control Input (J1), the output volume of VCA 2 should change accordingly.

Calibration:

Remove all cables.

Set switch to linear

Set the Gain-Pot to the middle position. (0V on the wiper)

Adjust trimmer R18 in order to have 0 volts on the output Jack of the VCA 2 .

Connect a 10Vpp / 100 Hz

Square wave to the control input.

Observe the output with an

Scope. Change R45 to

minimize the bleedthrough of the Control-Voltage to the Output.

Power Supply

VCA 1

VCA 2