Multi CTRL V1.4

This module is designed to control multiple parameters with 1 knob. It generates CV ranging from -5V to +5V with CTRL knob and sends it out through 4 different outputs. Each output has its individual amount potentiometer and inverter switch. External CV can also be added to the generated CTRL CV. It can be used as a simple active multiple.
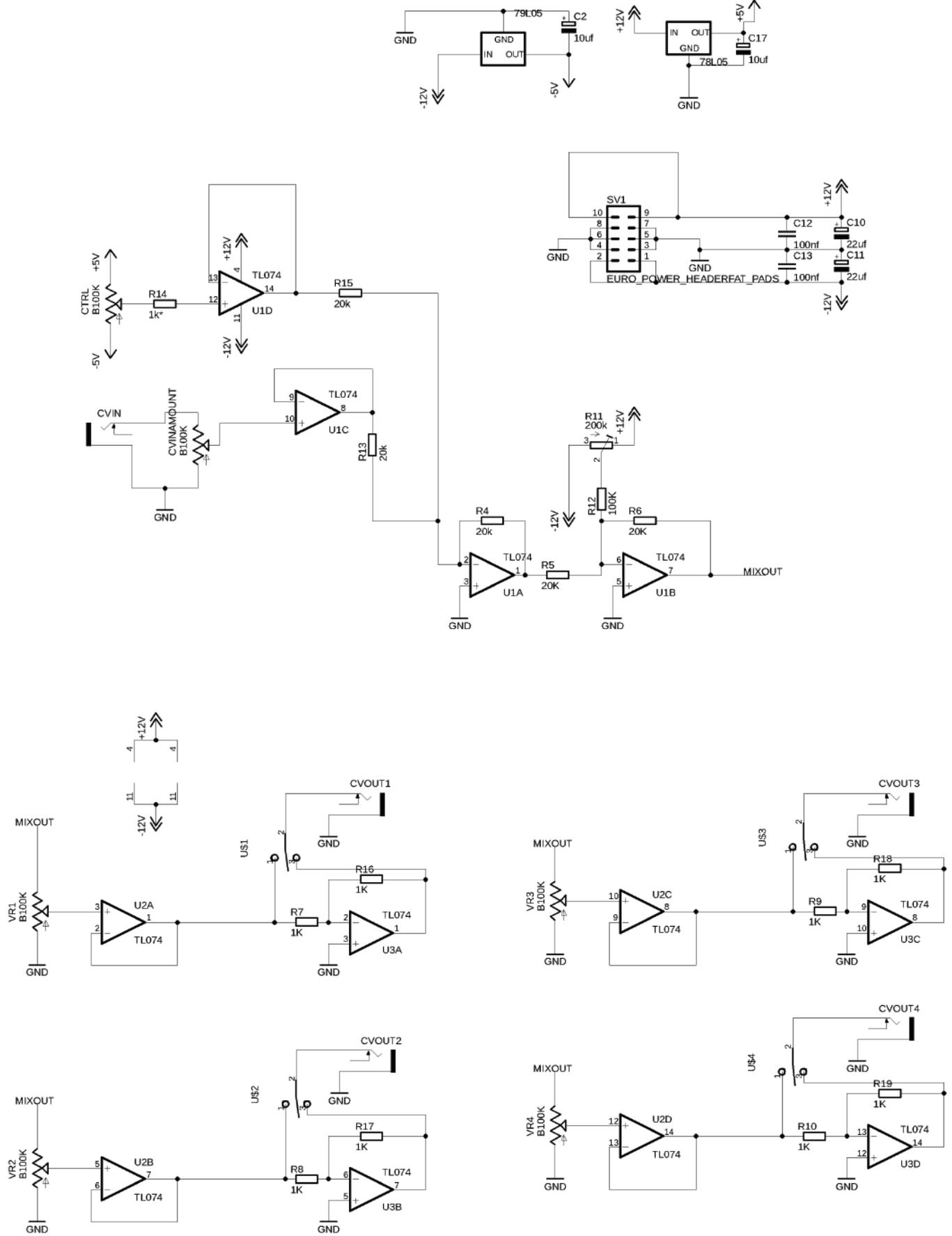

Bom

Qty	Value	Part Number
1		78L05
1		79L05
1	100K	R12
2	100nf	C12, C13
2	10uf	C2, C17
8	1K	R7, R8, R9, R10, R16, R17, R18, R19
1	1k*	R14
1	200k / Trimmer	R11
5	20K	R5, R6, R4, R13, R15
2	22uf	C10, C11
6	B100K / 9mm Potentiometer	CTRL, CVINAMOUNT, VR1, VR2, VR3, VR4
1	10 Pin IDC Socket	SV1
4	SPDT-ON-ON	U$1, U$2, U$3, U$4
5	PJ398SM / Jack Socket	CVIN, CVOUT1, CVOUT2, CVOUT3, CVOUT4
3	TL074	U1, U2, U3

Use capacitors rated 25V or higher.

Schematic

Calibration

Isolate the module: Disconnect any patch cables from the module you're calibrating.

Set CTRL knob: Turn the CTRL potentiometer completely until it reaches its center position.

Adjust amount 1 knob: Turn the "Amount 1" potentiometer fully clockwise until it reaches its maximum position. Turn down all the other amount potentiometers all the way down.

Measure output voltage: Using a multimeter, connect the black probe to the ground (GND) output of the module and the red probe to the output output 1. Measure the DC voltage.

Calibrate with trimmer: If the voltage reading is not exactly 0V, use a small screwdriver to carefully adjust the trimmer potentiometer associated with "amount 1" (consult the manual for exact location) until the voltage reading on your multimeter reaches 0V. Make small adjustments and re-measure to ensure accuracy.

Thank you for choosing Guru Gara Synth.
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