

3360 VCA V4.3

This dual voltage-controlled amplifier (VCA) is built using either the CEM3360 or AS3360 chip, making it an accessible DIY project for synthesizer enthusiasts. As a valuable tool for Eurorack setups, it offers precise control over your audio signals. Featuring two separate audio inputs and outputs (labeled 1 & 2) for independent processing, it also includes control voltage (CV) inputs. Each CV input allows you to control the amplification of its corresponding audio signal separately. However, if you only want to use one CV input for both channels, simply leave CV input 2 empty and the CV from input 1 will automatically be routed to both channels. To complete the package, the front panel is made from PCB material and features a unique, hand-printed design.

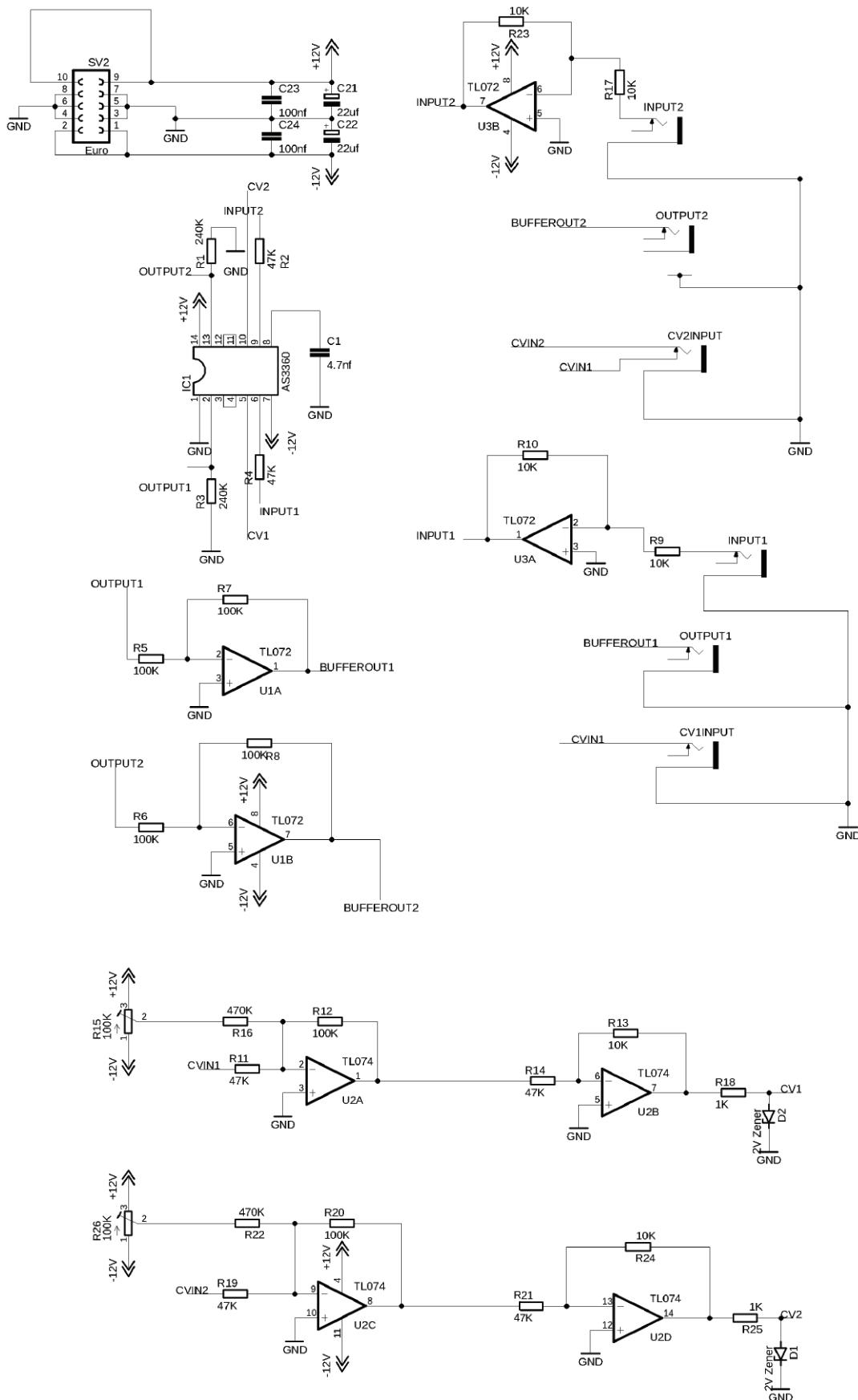


Bom

Qty	Value	Part Number
4	100K	R7, R8, R12, R20
2	100K	R5, R6
2	100K / Trimmer	R15, R26
2	100nf	C23, C24
2	10K	R13, R24
4	10K	R9, R10, R17, R23
2	1K	R18, R25
2	22uf	C21, C22
2	240K	R1, R3
2	2V Zener	D1, D2
1	4.7nf	C1
2	470K	R16, R22
6	47K	R2, R4, R11, R14, R19, R21
1	AS3360	IC1
1	Euro	SV2
6	THONKICONNOLD	CV1INPUT, CV2INPUT, INPUT1, INPUT2, OUTPUT1, OUTPUT2
2	TL072	U1, U3
1	TL074	U2

Use capacitors rated 25V or higher.

Schematic



Calibration

- Measure the DC voltage at the junction of R18 and D2 for channel 1 and R25 and D1 for channel 2. You can use a multimeter set to the DC voltage range.
- Adjust the corresponding trimmers (R15 and R26) until the voltage reading is as close to 0V as possible, ideally a few millivolts below 0V.



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