

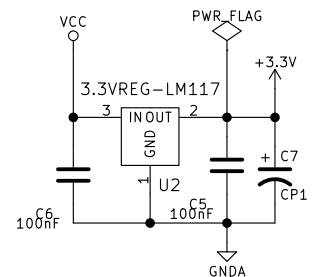


4 modes on the rotary switch :
clean
comp
comp_neg
solarize (+ neg)

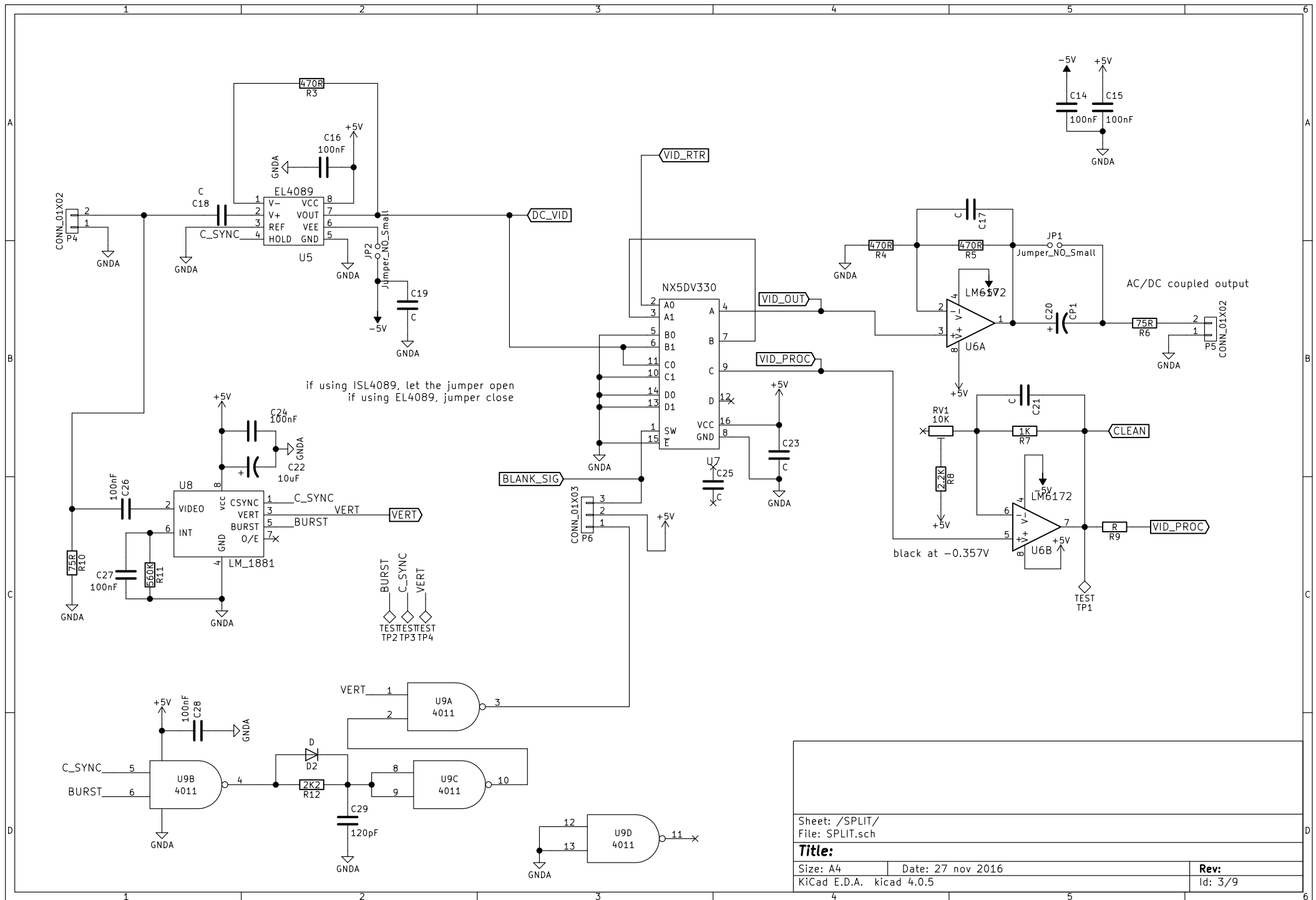
Removed the neg/norm switch
Hi pass into inversion gives poor or no results. Make a way to bypass the inversion when using the high pass filter.
keyer with neg gives no result with inversion.

This version no longer uses logic analog switches (bandwidth issue) but hardswitch with lower on resistance.
For ease of circuitry, all part a dc coupled around 0v (-0.5V/0/0.5V) for the output mixer and avoid dc offset

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| Sheet: / | | |
| File: processor.sch | | |
| Title: | | |
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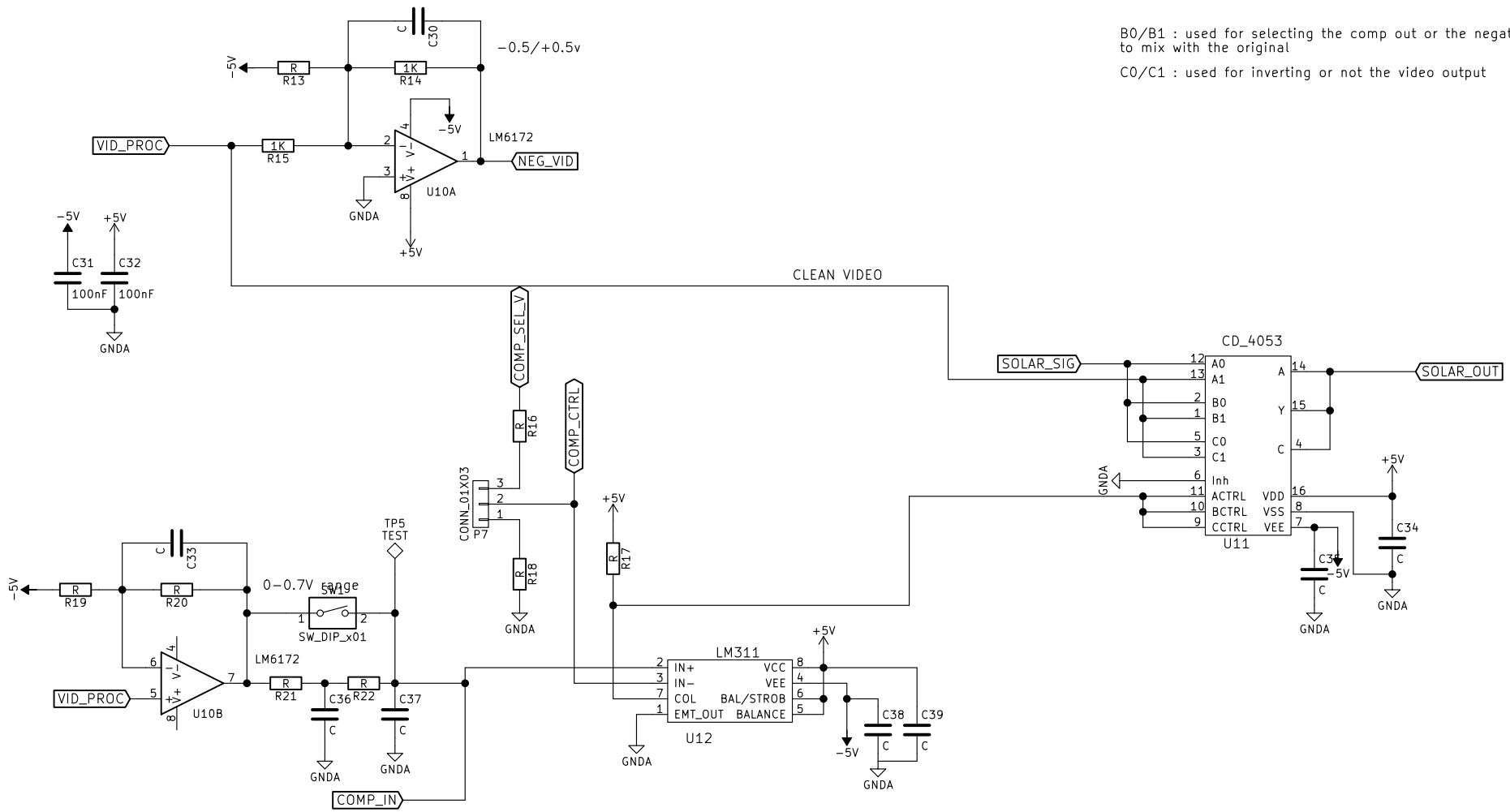
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| Sheet: /SPLIT/ | | |
| File: SPLIT.sch | | |
| Title: | | |
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|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A | | | | | A |
| B | | | | | B |
| C | | | | | C |
| D | | | | | D |
| 1 | 2 | 3 | 4 | 5 | 6 |

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| Sheet: /PROC_1/ File: PROC_1.sch | | |
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B0/B1 : used for selecting the comp out or the negative video to mix with the original

C0/C1 : used for inverting or not the video output

low pass filter at 3.58MHZ to remove the chroma, keep only the luma value

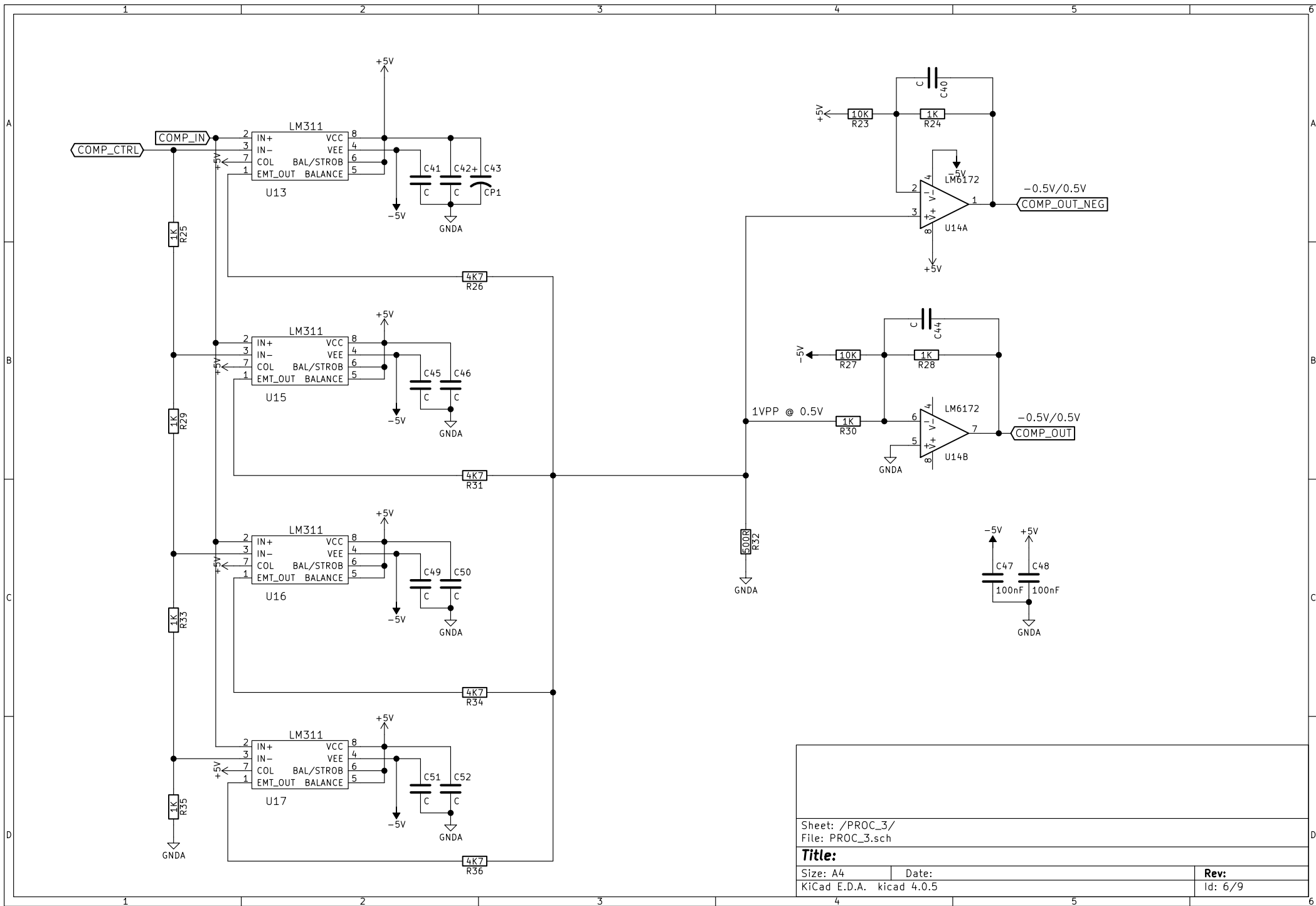
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File: PROC_2.sch

Title:

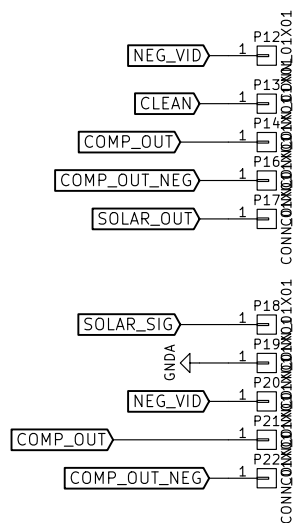
Size: A4
KiCad E.D.A. kicad 4.0.5

Date:

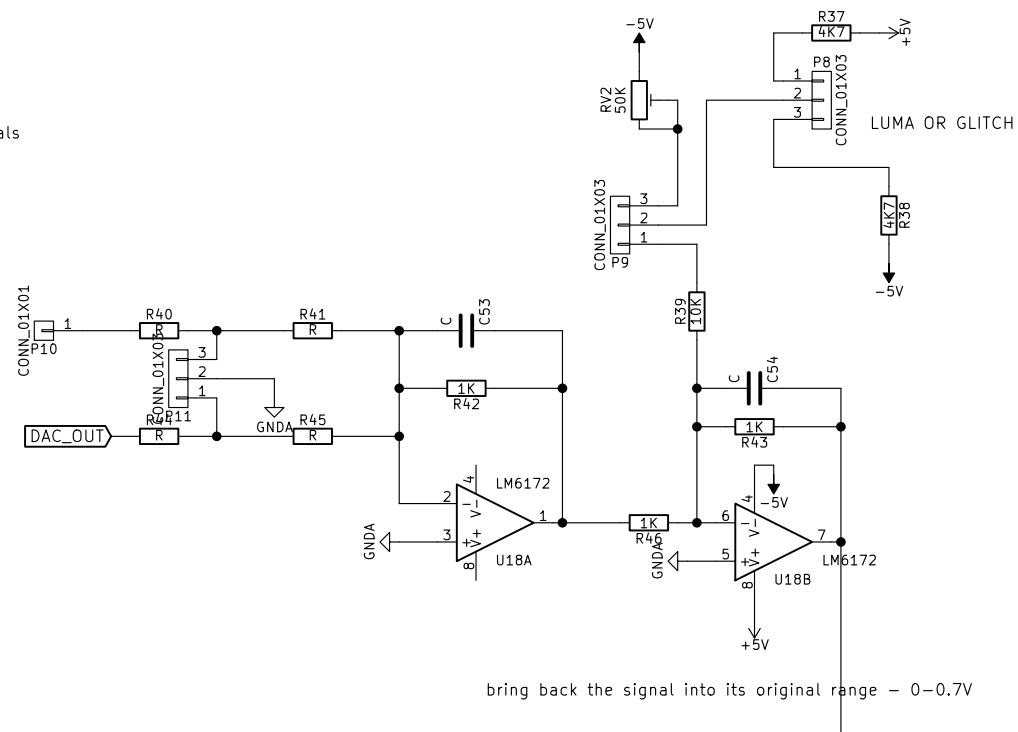
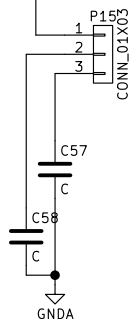
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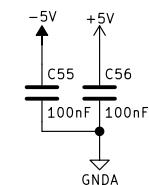
revome all dc offset at this point
to avoid added offset for each signals



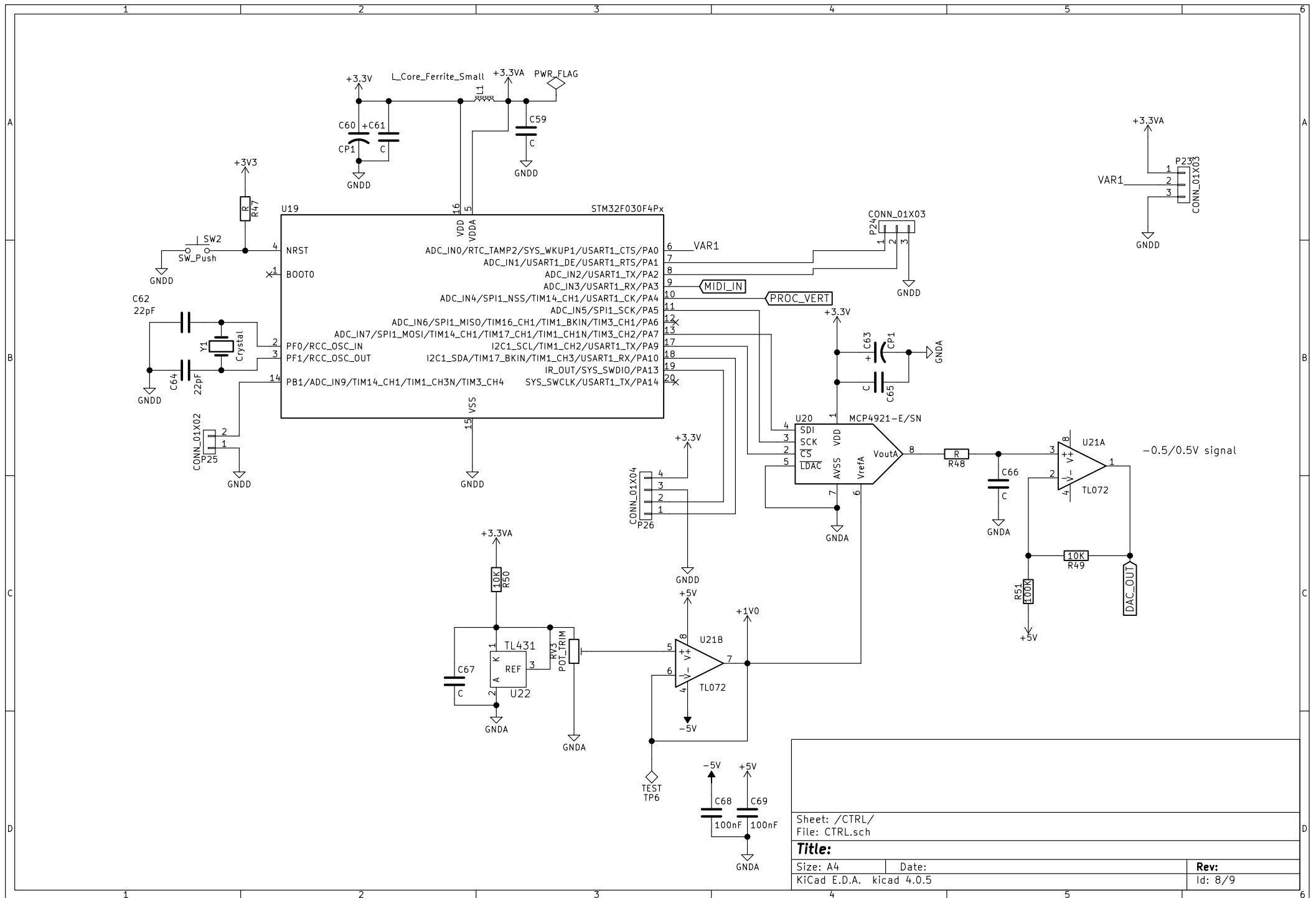
VID_RTR

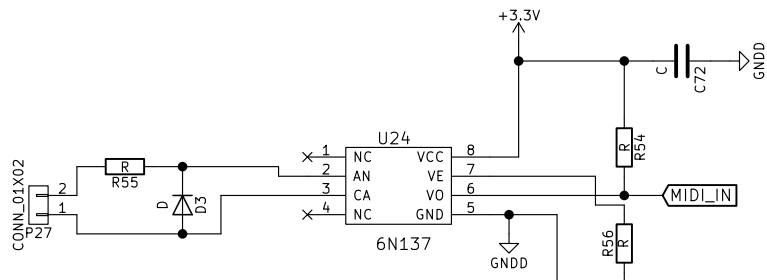
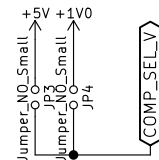
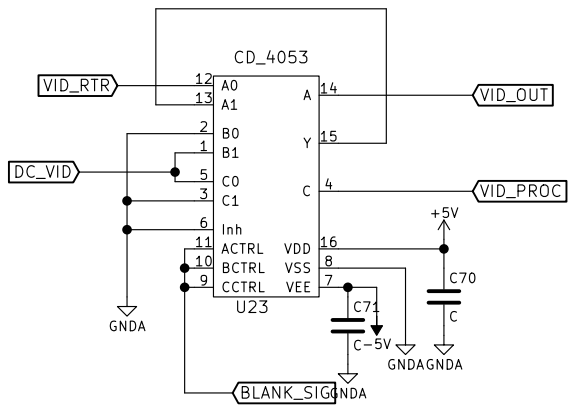
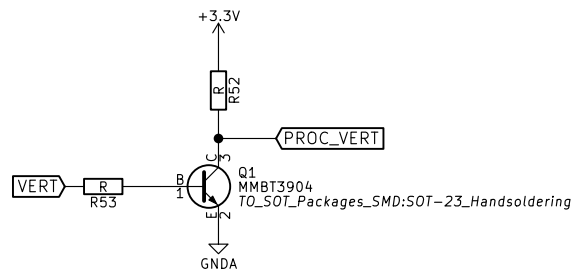


bring back the signal into its original range - 0-0.7V



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| Sheet: /MIXER/ | | |
| File: MIXER.sch | | |
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| Sheet: /VERT_TRANS/ | | File: VERT_TRANS.sch | |
| Title: | | | |
| Size: A4 | Date: | Rev: | |
| KiCad E.D.A. kicad 4.0.5 | | Id: 9/9 | |