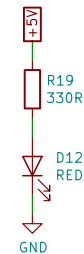
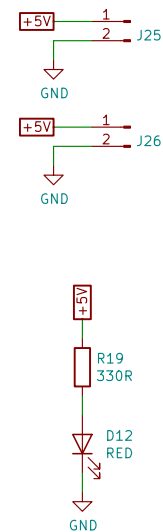
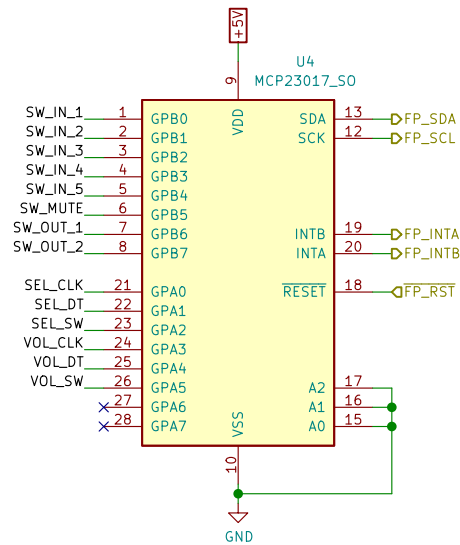
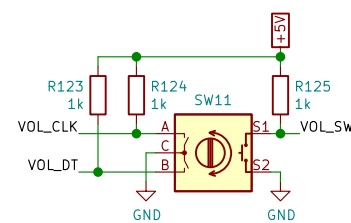
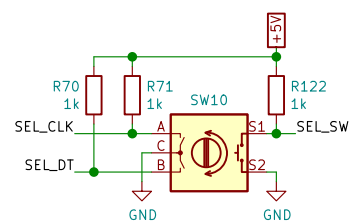
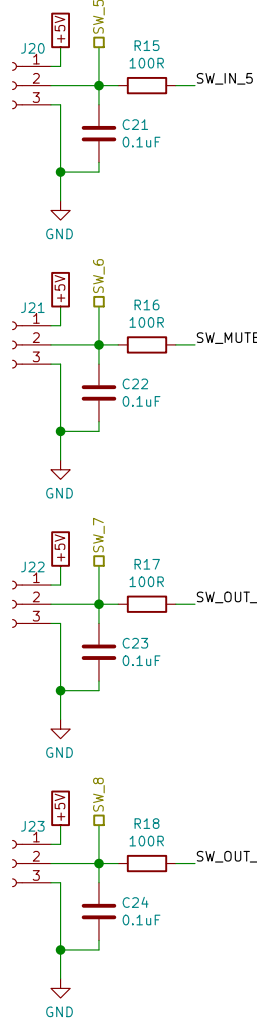
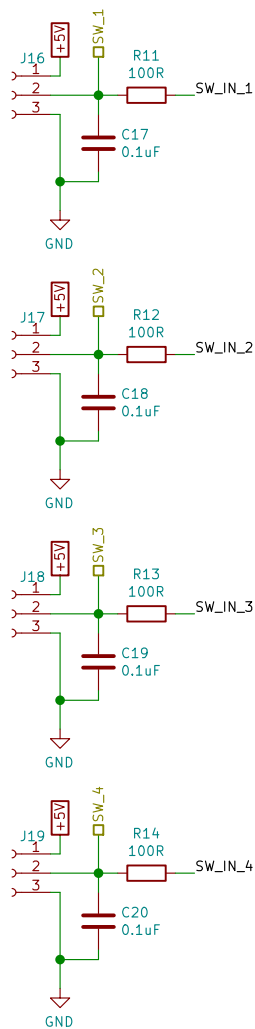


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|---|------------------|----------|
| Author: Jordan Gerber github.com/SlurpyTurts/preamp License: CC BY 4.0 creativecommons.org/licenses/by/4.0/ | | |
| Sheet: /+ -15V PWR SUPPLY/ File: +-15V_PWR_SUPPLY.sch | | |
| Title: 15V Power Supply | | |
| Size: A4 | Date: 2020-02-25 | Rev: A00 |
| KiCad E.D.A. kicad (5.1.5-0-10_14) | | Id: 3/13 |



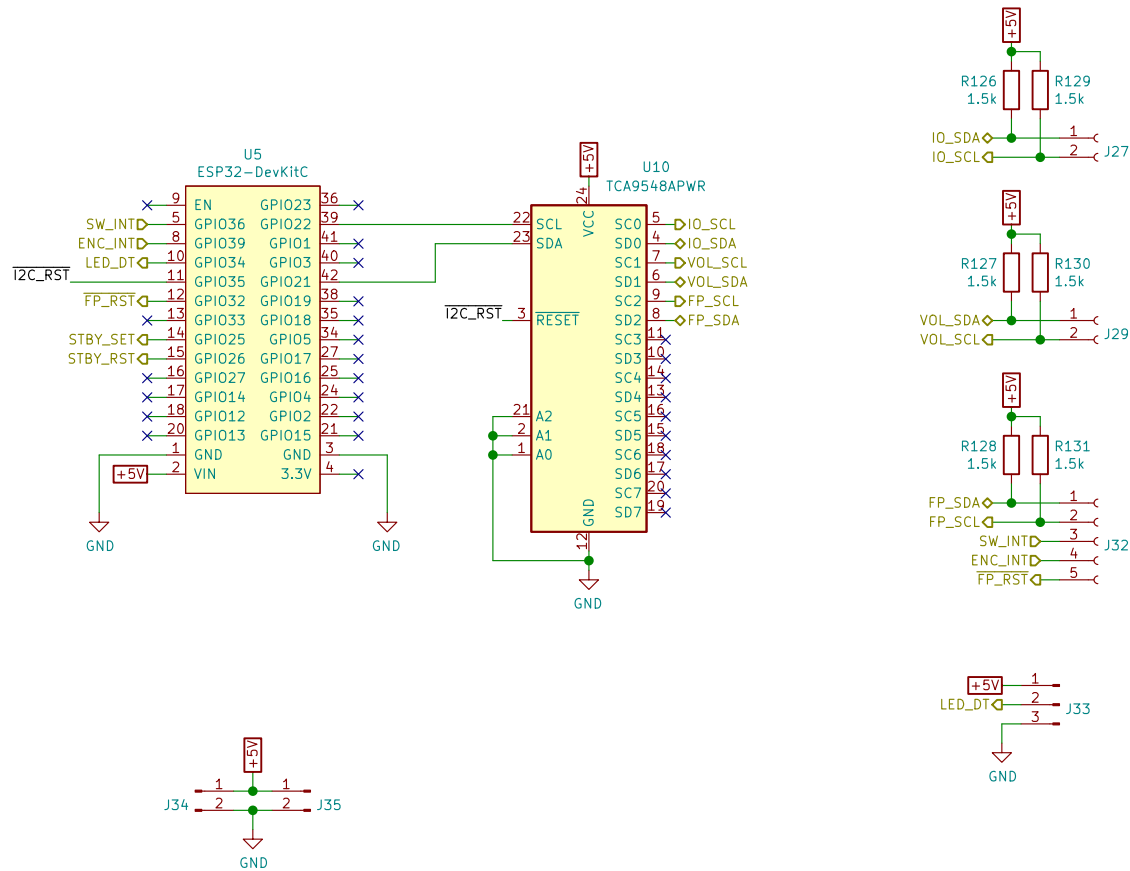
Author: Jordon Gerber
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Sheet: /front panel/
 File: front_panel.sch

Title: Front Panel

Size: A4 Date: 2020-02-25
 KiCad E.D.A. kicad (5.1.5-0-10_14)

Rev: A00
 Id: 5/13



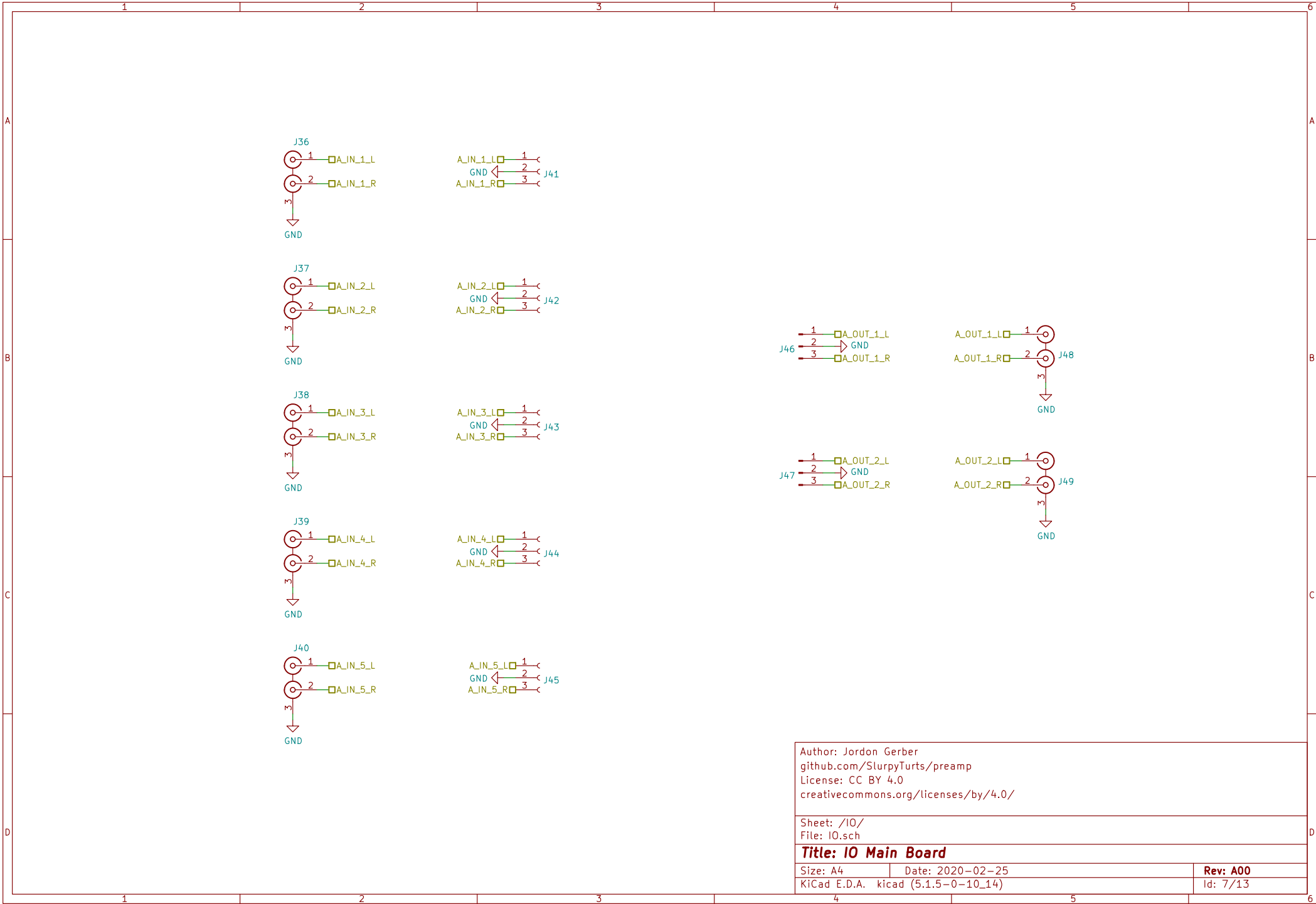
Author: Jordon Gerber
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Sheet: /MCU/
 File: MCU.sch

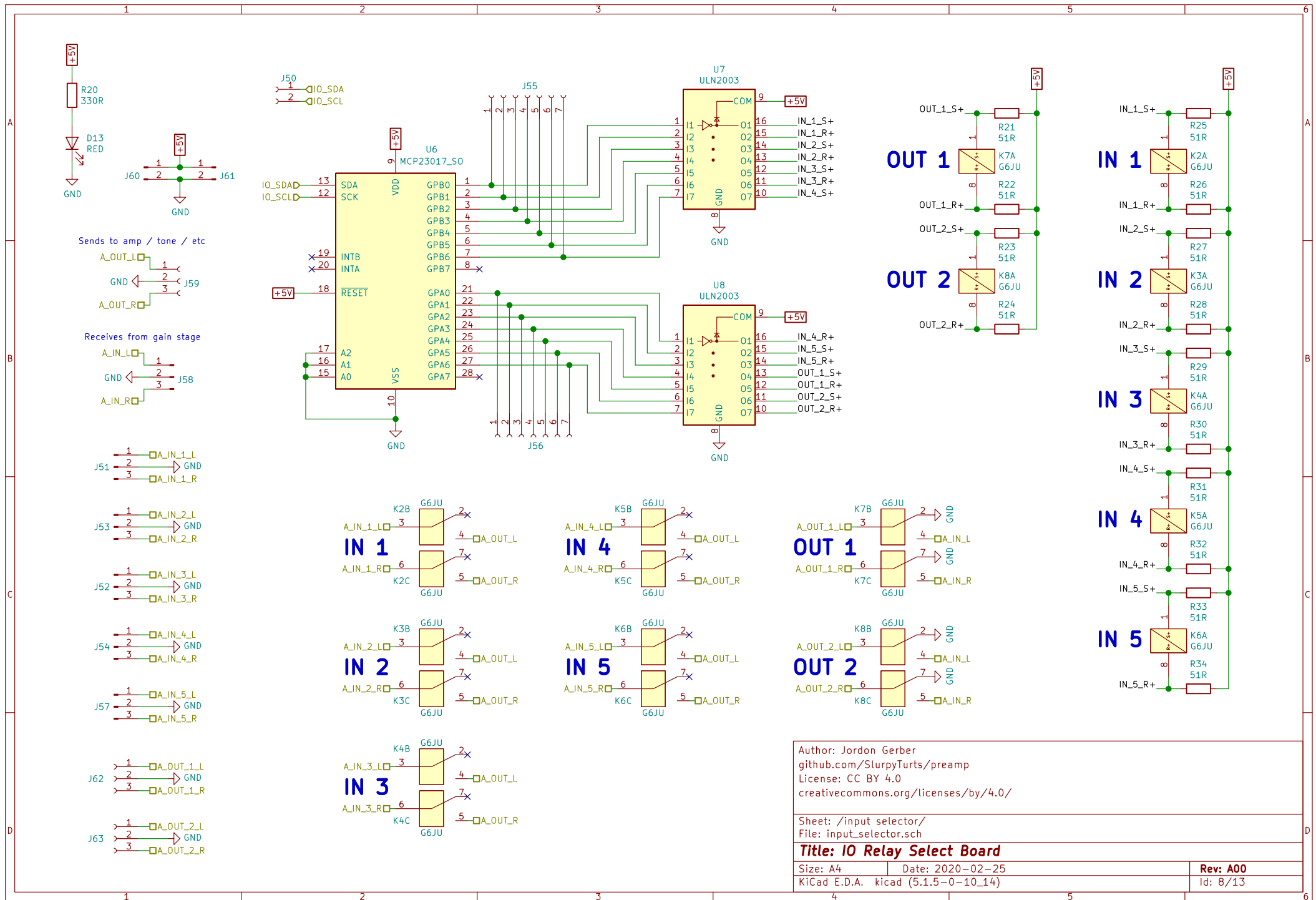
Title: Preamp MCU Board

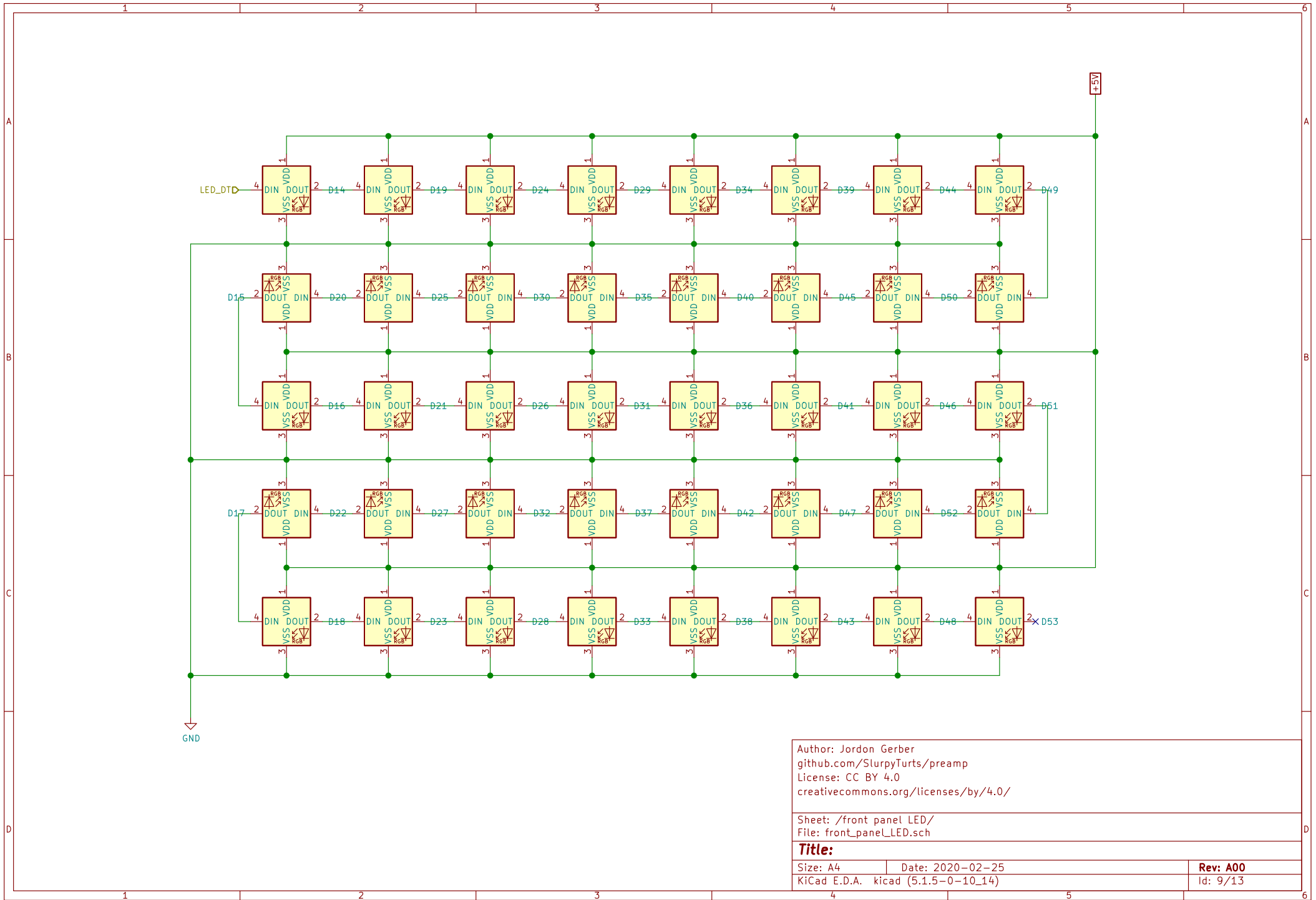
Size: A4 Date: 2020-02-25
 KiCad E.D.A. kicad (5.1.5-0-10_14)

Rev: A00
 Id: 6/13



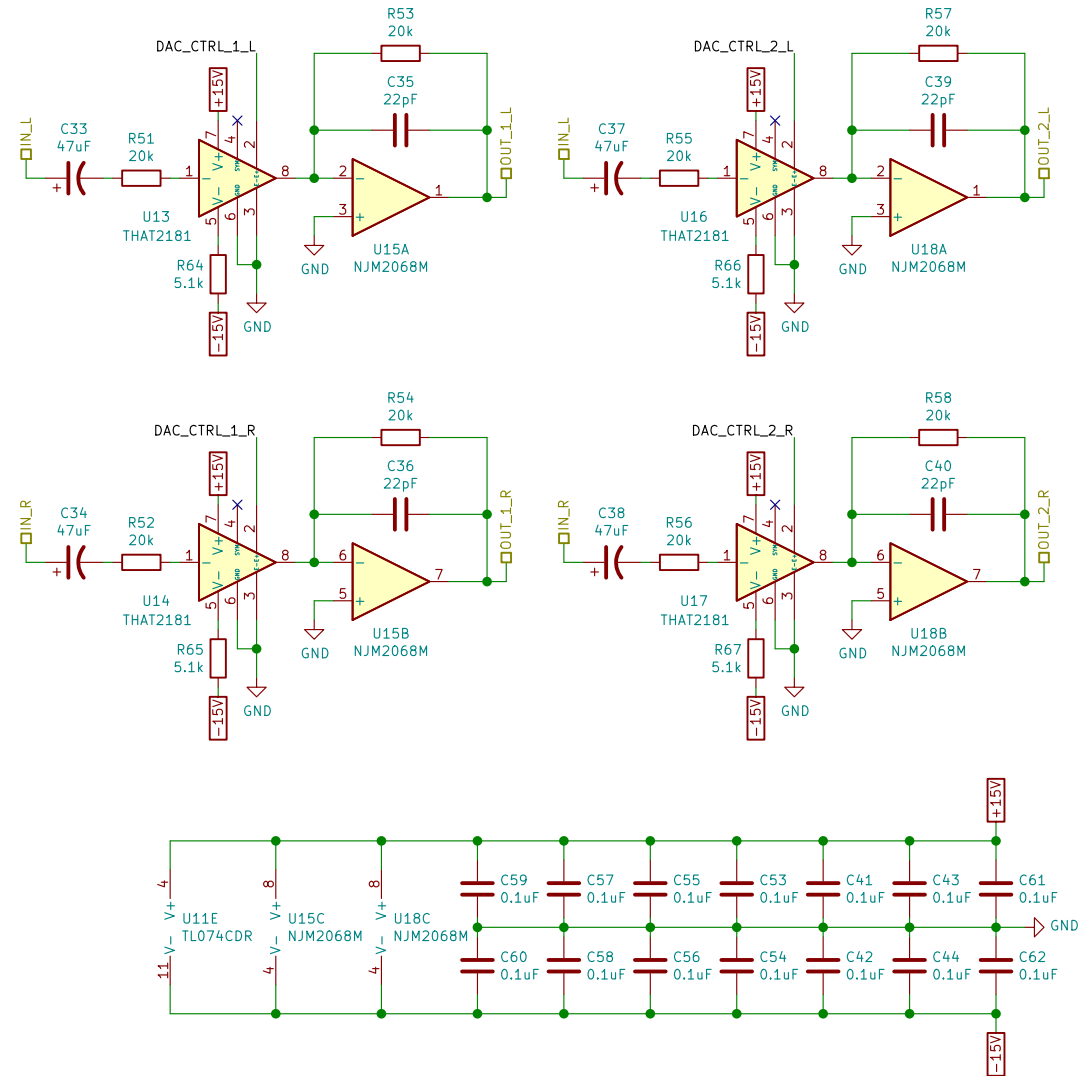
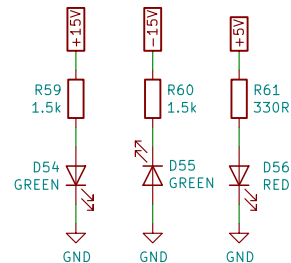
| | | |
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| Author: Jordon Gerber github.com/SlurpyTurts/preamp License: CC BY 4.0 creativecommons.org/licenses/by/4.0/ | | |
| Sheet: /IO/ File: IO.sch | | |
| Title: IO Main Board | | |
| Size: A4 | Date: 2020-02-25 | Rev: A00 |
| KiCad E.D.A. kicad (5.1.5-0-10_14) | | Id: 7/13 |



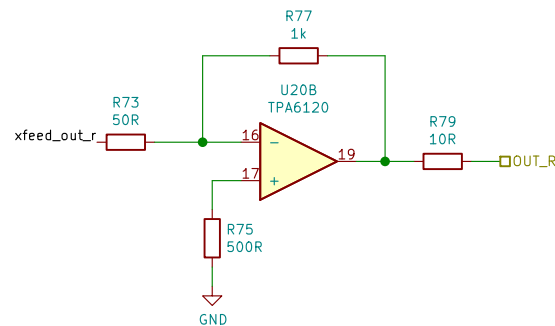
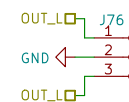
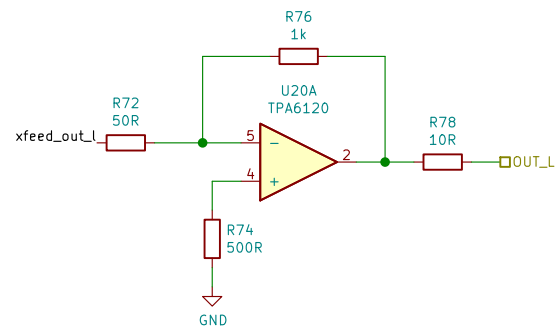
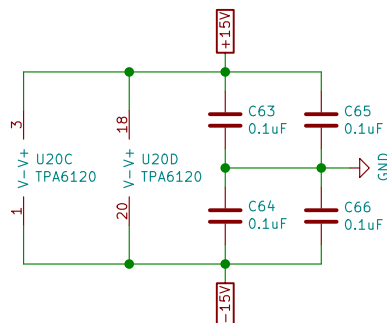
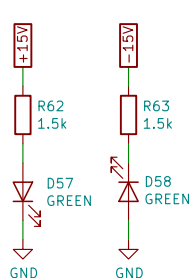
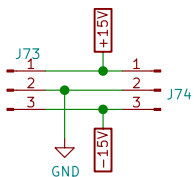
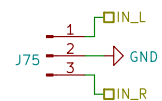
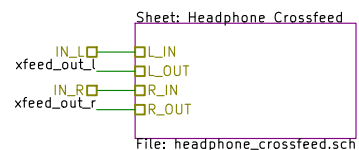
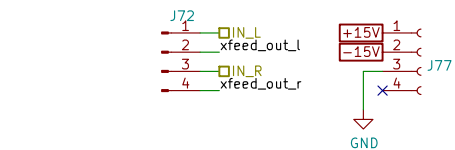


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| Sheet: /front panel LED/ File: front_panel_LED.sch | | |
| Title: | | |
| Size: A4 | Date: 2020-02-25 | Rev: A00 |
| KiCad E.D.A. kicad (5.1.5-0-10_14) | | Id: 9/13 |

178k offset resistor shifts output up by approx. 30dB
control range becomes -100dB to +30dB



Rev: A00
Id: 10/13



crosstalk: <https://headwizememorial.wordpress.com/2018/03/09/an-acoustic-simulator-for-headphone-amplifiers/>
amp: <https://www.nutsvolts.com/magazine/article/precision-stereo-headphone-amplifier>

Author: Jordon Gerber
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Sheet: /headphone amp/
File: headphone_amp.sch

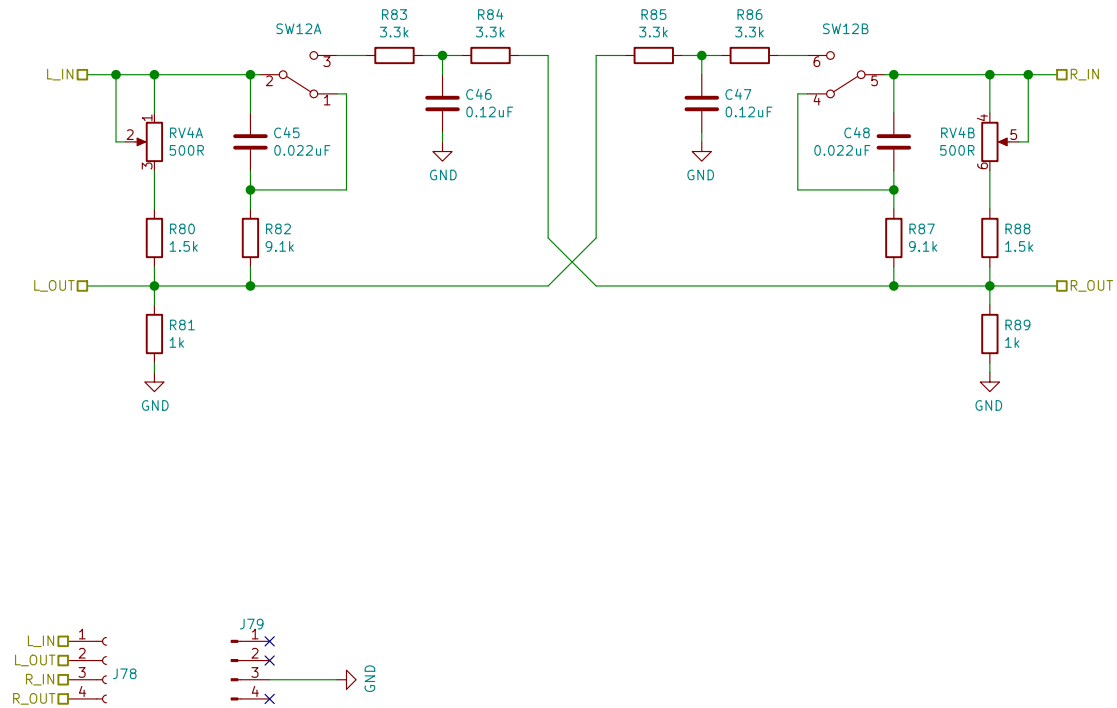
Title: Headphone Amplifier Board

Size: A4
KiCad E.D.A. kicad (5.1.5-0-10_14)

Date: 2020-02-25

Rev: A00

Id: 11/13



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| Sheet: /headphone amp/Headphone Crossfeed/ File: headphone_crossfeed.sch | | |
| Title: Headphone Crosstalk | | |
| Size: A4 | Date: 2020-02-25 | Rev: A00 |
| KiCad E.D.A. kicad (5.1.5-0-10_14) | | Id: 12/13 |

