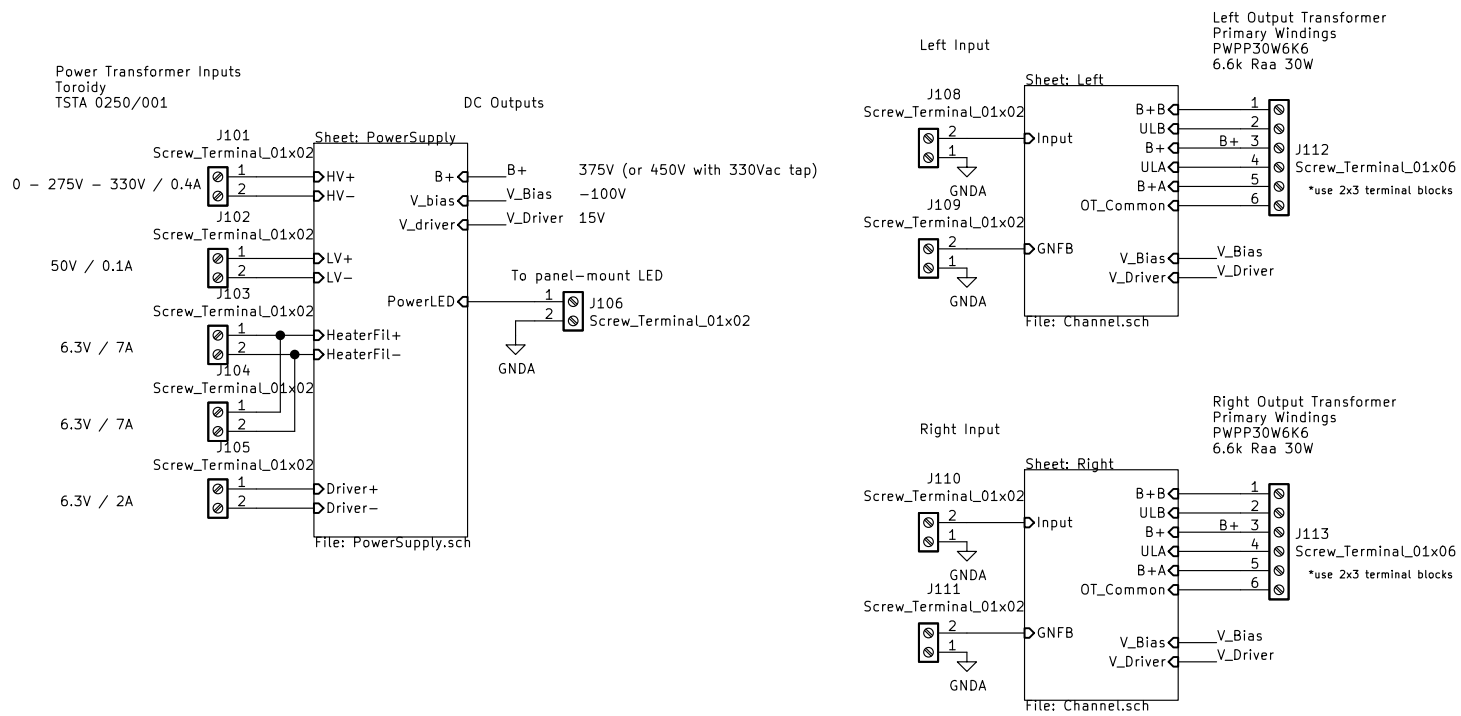
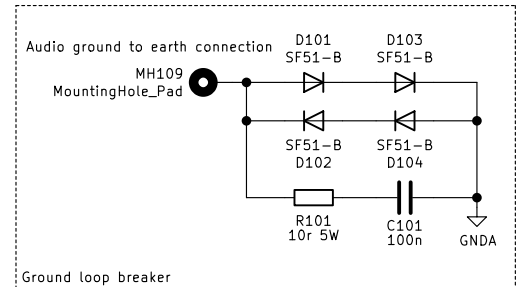
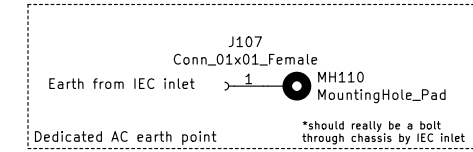


## Notes / Questions

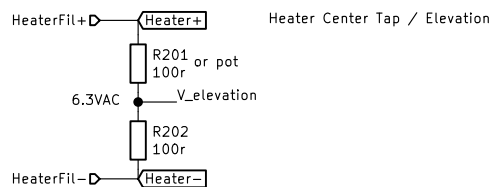
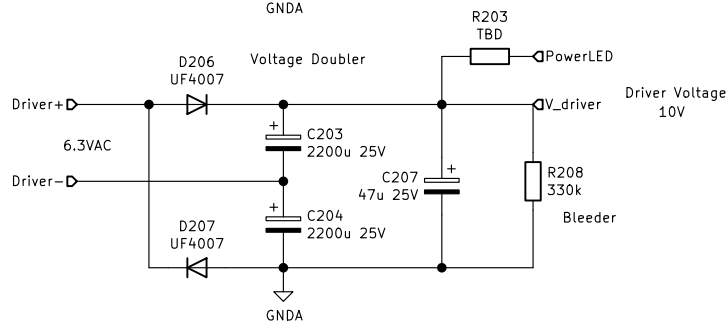
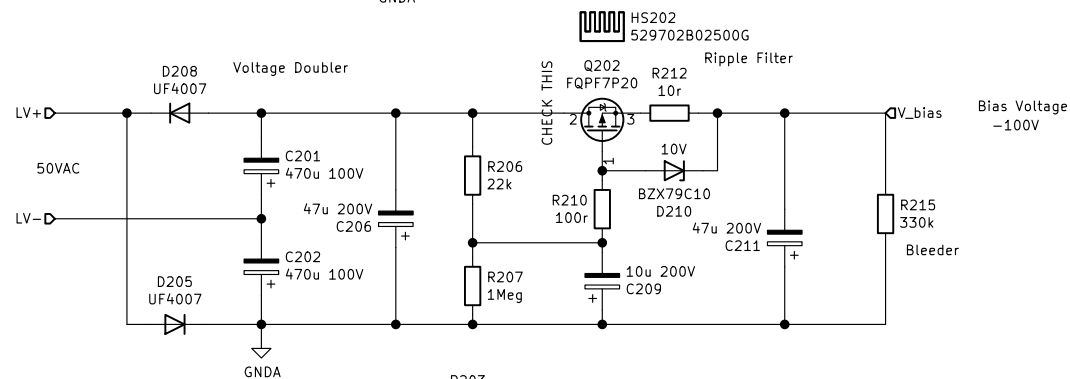
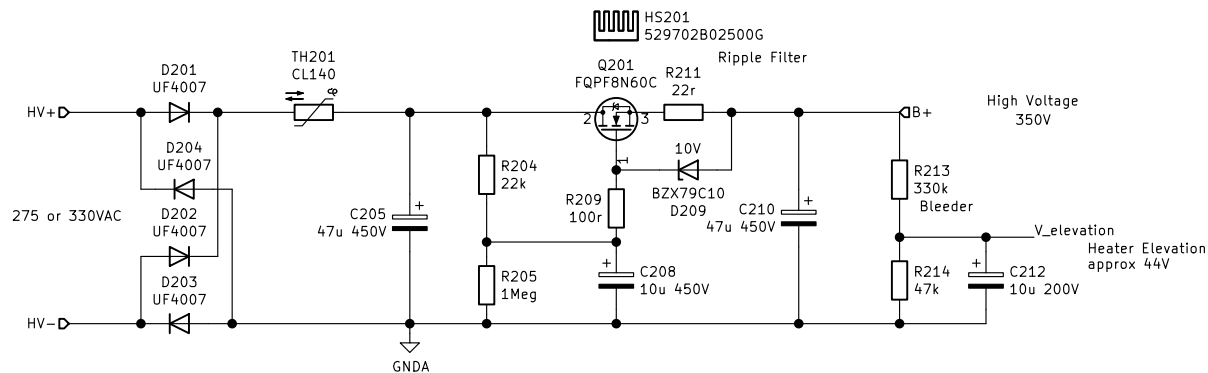
- Which HV tap?
- If 330Vac then change caps to 500V



- MH101 MountingHole
  - MH102 MountingHole
  - MH103 MountingHole
  - MH104 MountingHole
  - MH105 MountingHole
  - MH106 MountingHole
  - MH107 MountingHole
  - MH108 MountingHole
- Mounting holes



Sheet: /	
File: Baby Huey.sch	
<b>Title: Baby Huey – "Engineer's Version"</b>	
Size: A4	Date: 2021-04-25
KiCad E.D.A. kicad (5.1.9-0-10_14)	Rev: Id: 1/4



## Notes

- \* Both FETs are encapsulated in plastic
- no isolation pad / shoulders needed
- use heat transfer pad / paste

The regulator gives protection to inrush.  
Max V across the 22r resistor is  $V_Z - V_{GS} = 10 - 4 = 6$   
Max current is  $6/22 = 270\text{mA}$

Sheet: /PowerSupply/  
File: PowerSupply.sch

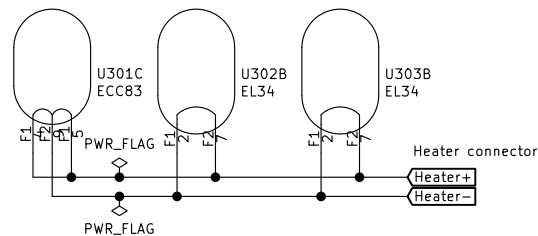
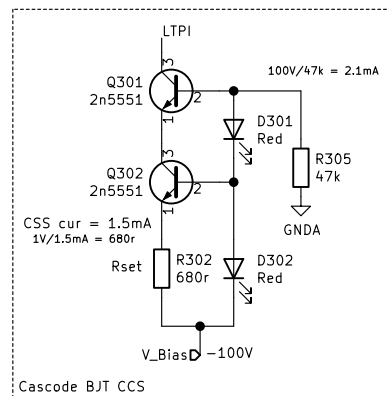
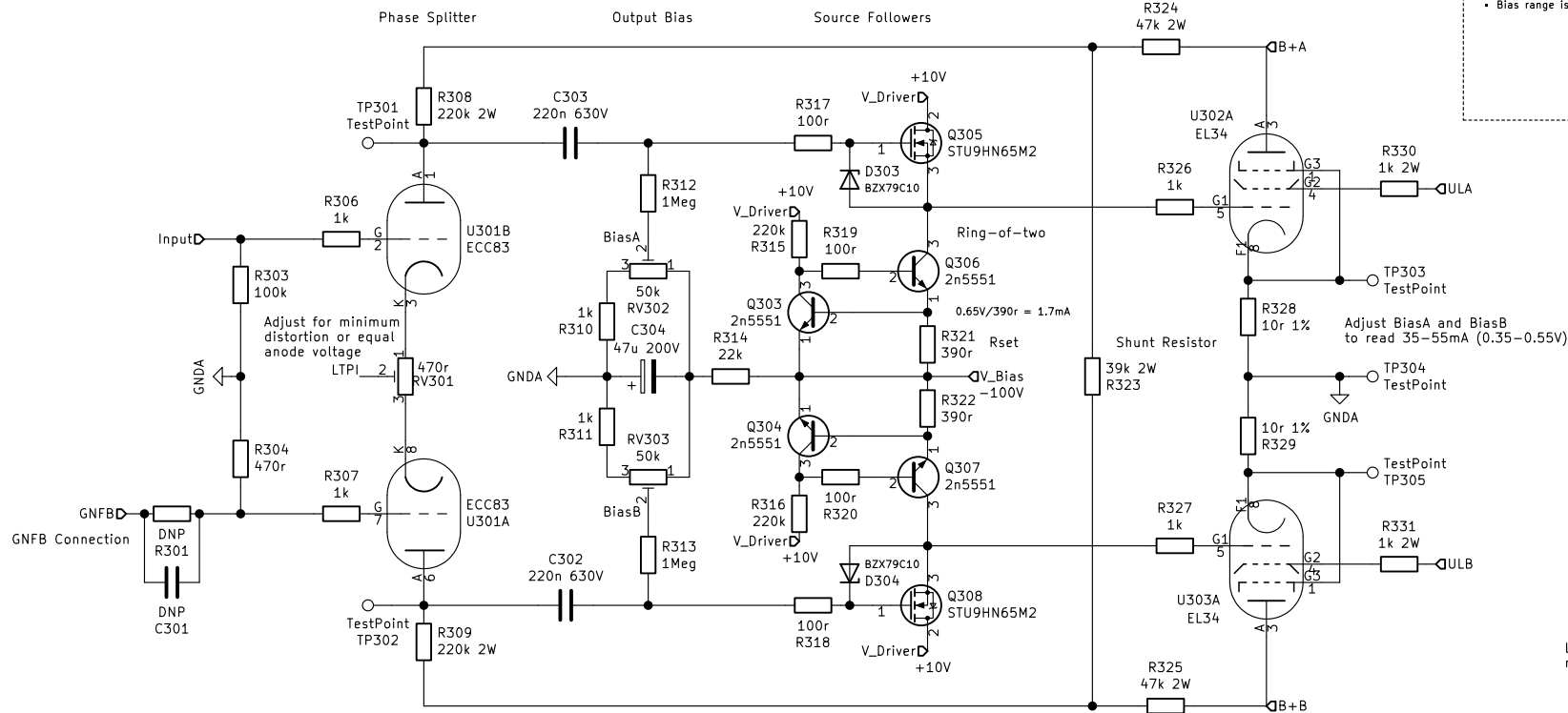
**Title: Baby Huey – "Engineer's Version" – Power Supply**

Size: A4 Date:  
KiCad E.D.A. kicad (5.1.9-0-10\_14)

Rev:  
Id: 2/4

## Notes / Questions

- What value for Shunt Resistor?
- Could increase the source follower current to 2.4mA – use 270r
- However, lower starts to stress the 2N5551 dissipation limit.
- Bias range is -1V to -70V



Sheet: /Left/  
File: Channel.sch

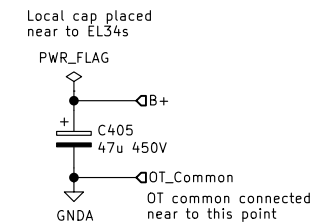
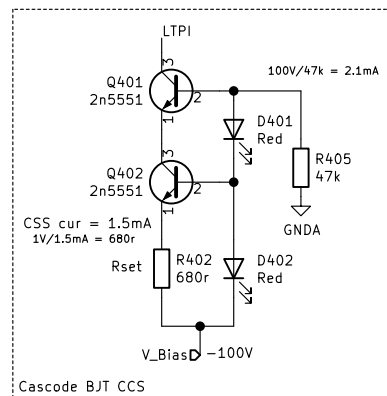
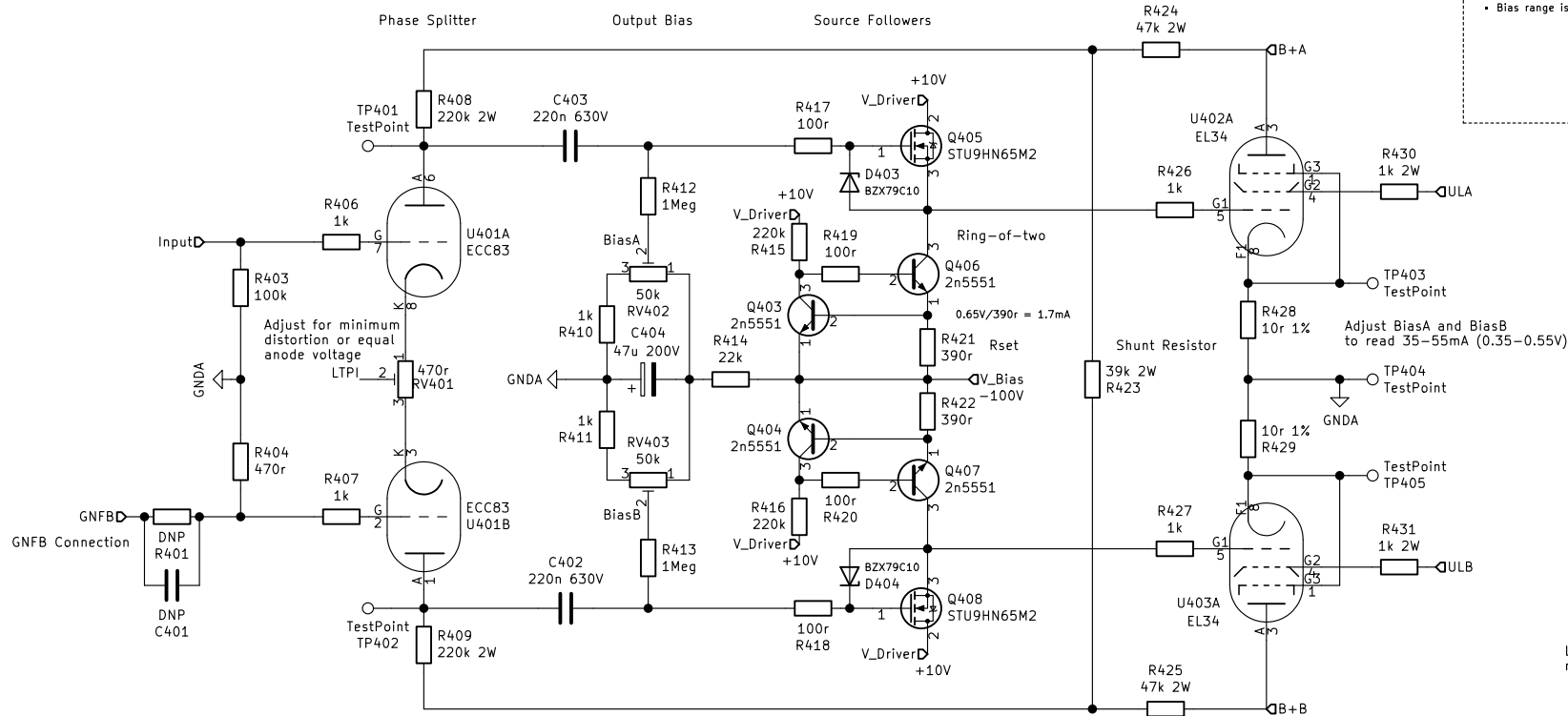
**Title: Baby Huey – "Engineer's Version" – Channel**

Size: A4 Date:  
KiCad E.D.A. kicad (5.1.9-0-10\_14)

Rev:  
Id: 3/4

## Notes / Questions

- What value for Shunt Resistor?
- Could increase the source follower current to 2.4mA – use 270r
- However, lower starts to stress the 2N5551 dissipation limit.
- Bias range is -1V to -70V



Sheet: /Right/  
File: Channel.sch

**Title: Baby Huey – "Engineer's Version" – Channel**

Size: A4 Date:  
KiCad E.D.A. kicad (5.1.9-0-10\_14)

Rev:  
Id: 4/4