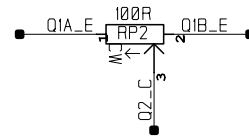
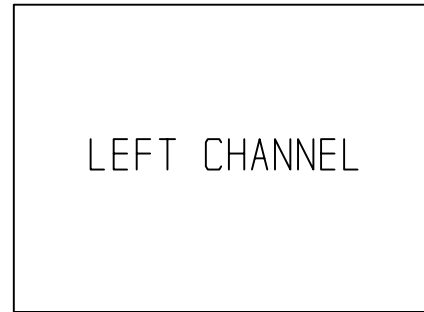
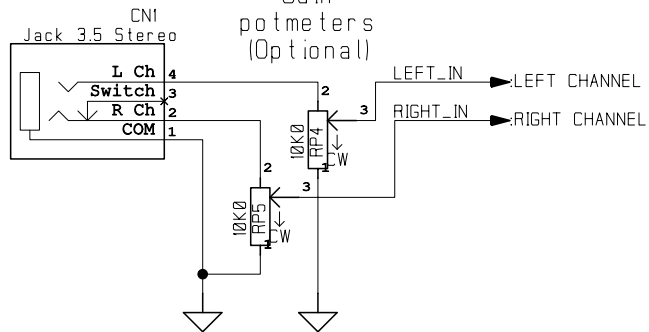


Potmeter to replace fixed resistors used only for simulation on left channel. Remove resistors from pcb.



3.5mm Jack or
Phono connector
for signal in.

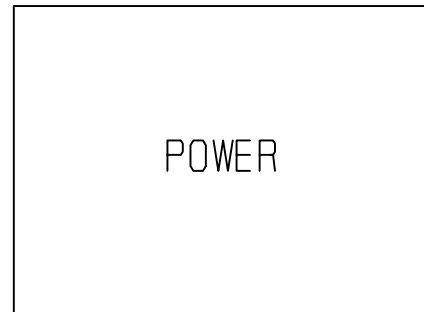
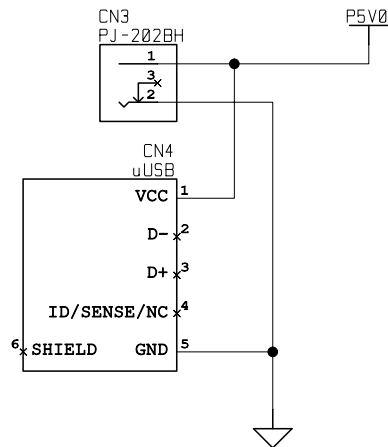


Left Channel
(for simulation)

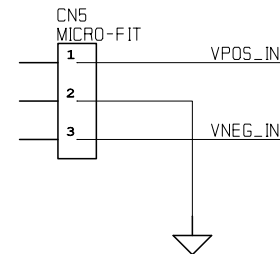


Right Channel

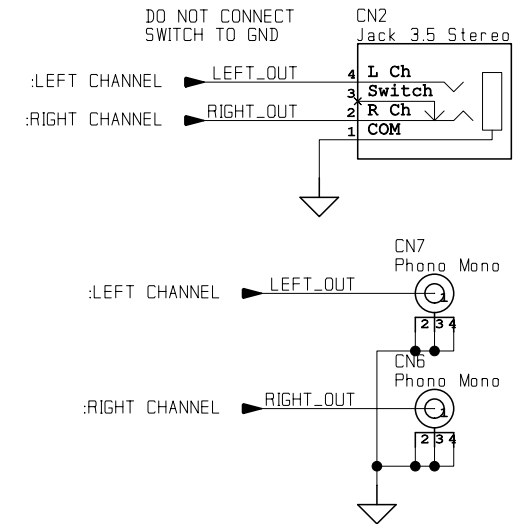
5V0 Input
to Switcher
Either
USB or
2.1mm
(Select one)



MicroFit
Pinheader
for battery



3.5mm Jack or
Phono connector
for signal out
(Select one)



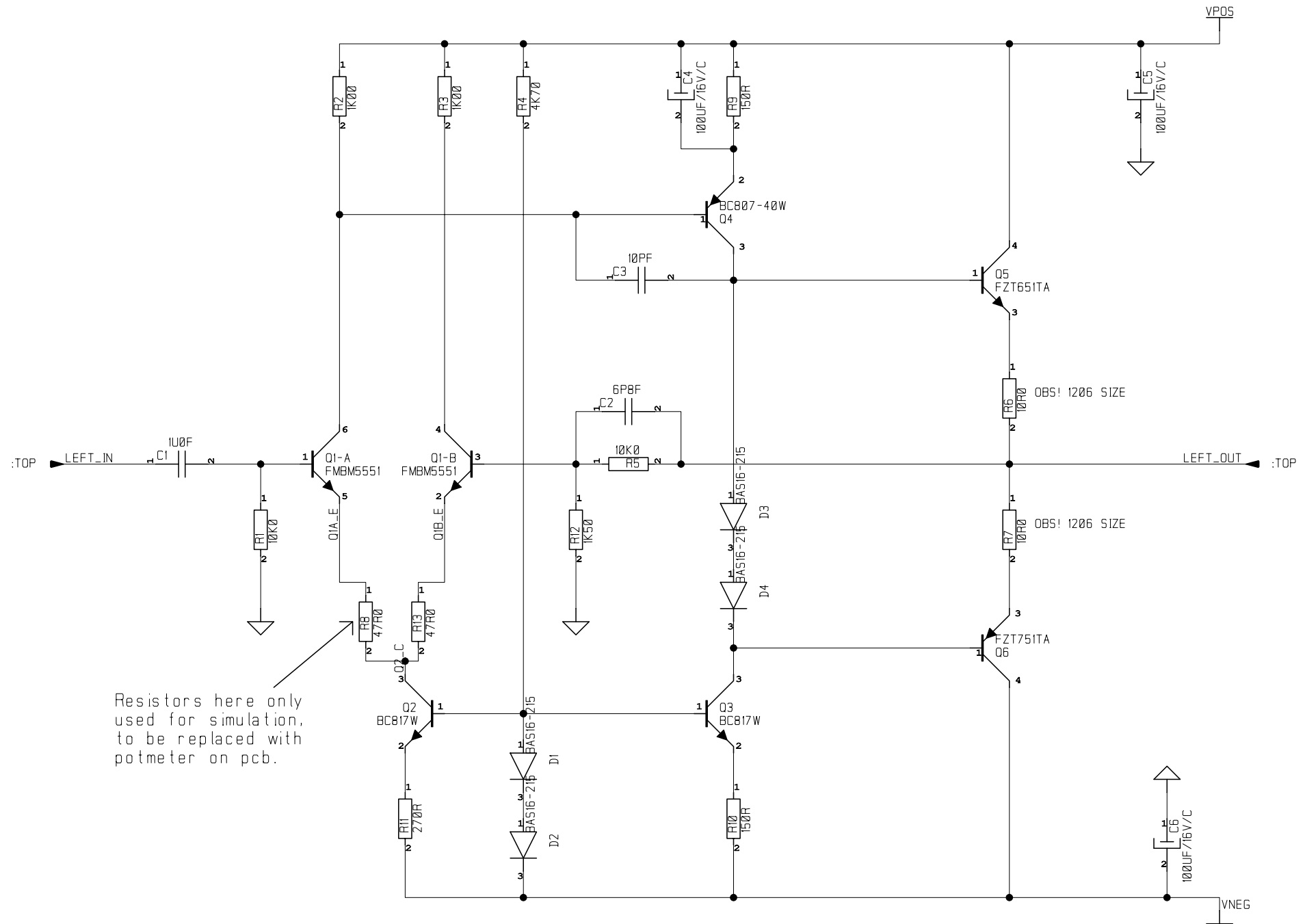
MountingHoles
3.2mm

Fiducial Marks

MH[1-2]
MH/3.2mm

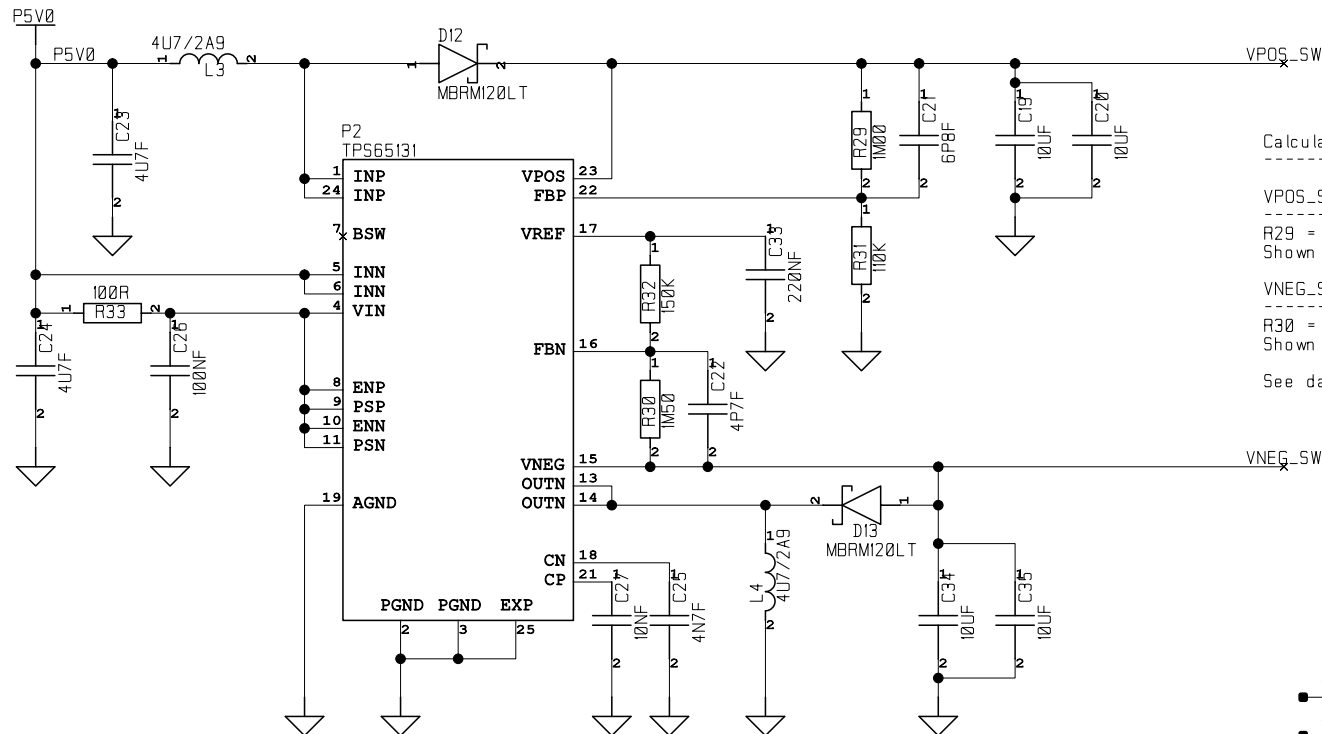
MARK[1-3]
FIDUCIAL MARK

PROJECT: headphone amplifier v2	
SHEET NAME: TOP	
DATE: 29.01.2018	ELAB, Dept. of Physics UNIVERSITY OF OSLO
SHEET: 1 / 4	
USER: halvorst	



PROJECT:	headphone amplifier v2
SHEET NAME:	LEFT CHANNEL
DATE:	29.01.2018
SHEET:	2 / 4
USER:	halvorst

Switcher circuit 5V -> +/-12V



Calculate output voltage

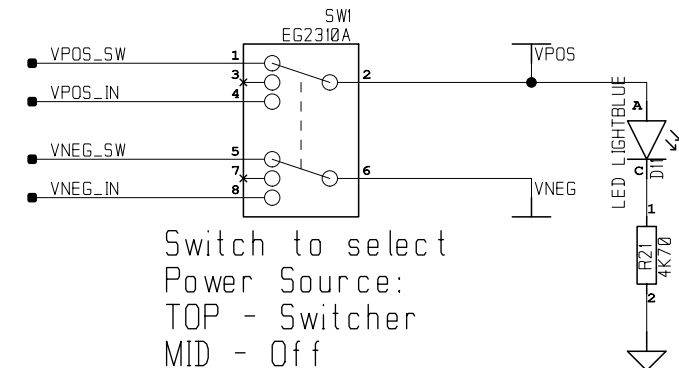
VPOS_SW

$R29 = R31 \times (VPOS_SW/Vref) - 1$
Shown values gives approx VPOS_SW = 12.25V

VNEG_SW

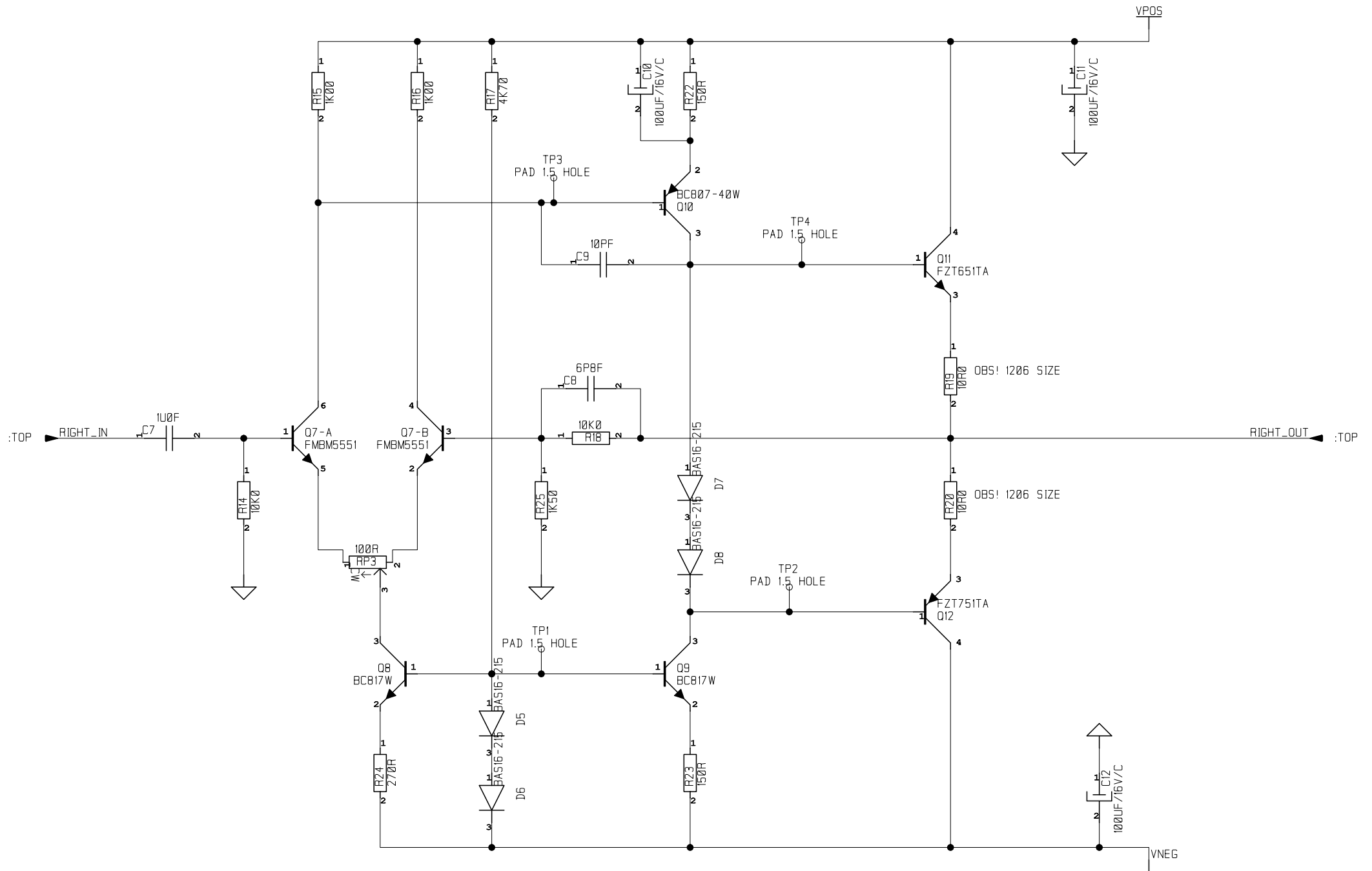
$R30 = -R32 \times (VNEG_SW/Vref)$
Shown values gives approx VNEG_SW = -12.13V

See datasheet P 12-13 for details



Switch to select
Power Source:
TOP - Switcher
MID - Off
BOT - Direct

PROJECT:	headphone amplifier v2
SHEET NAME:	POWER
DATE:	29.01.2018
SHEET:	3 / 4
USER:	halvorst



PROJECT:	headphone amplifier v2
SHEET NAME:	RIGHT CHANNEL
DATE:	29.01.2018
SHEET:	4 / 4
USER:	halvorst