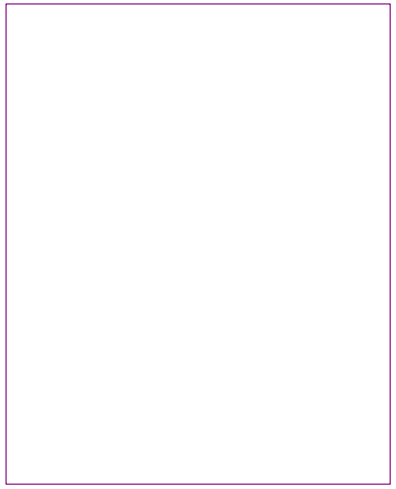
Preamp



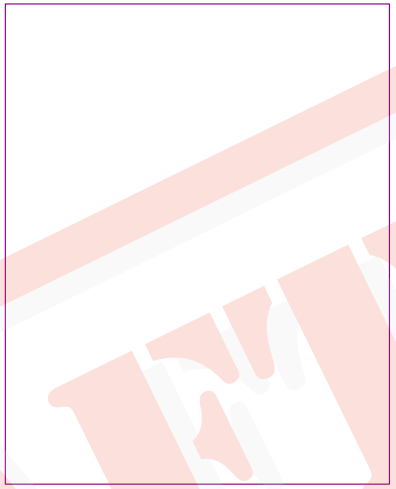
File: Preamp.kicad_sch

Preamp + Tonestack



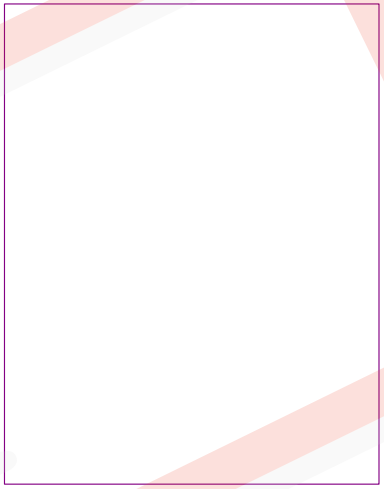
File: Tonestack.kicad_sch

FX Loop



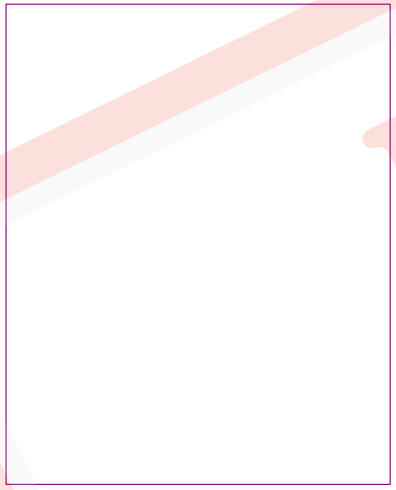
File: FX_Loop.kicad_sch

Poweramp



File: Poweramp.kicad_sch

PSU



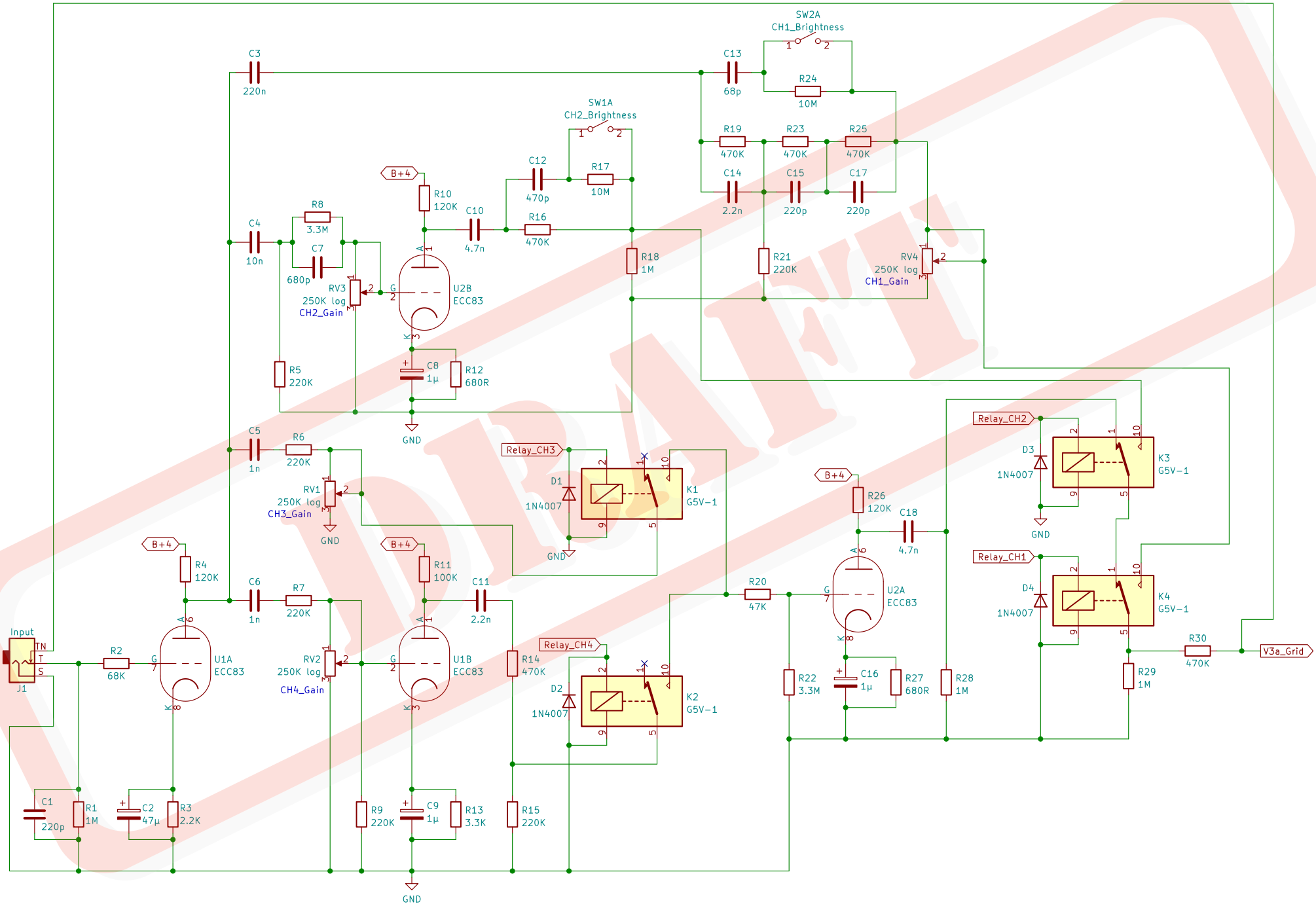
File: PSU.kicad_sch

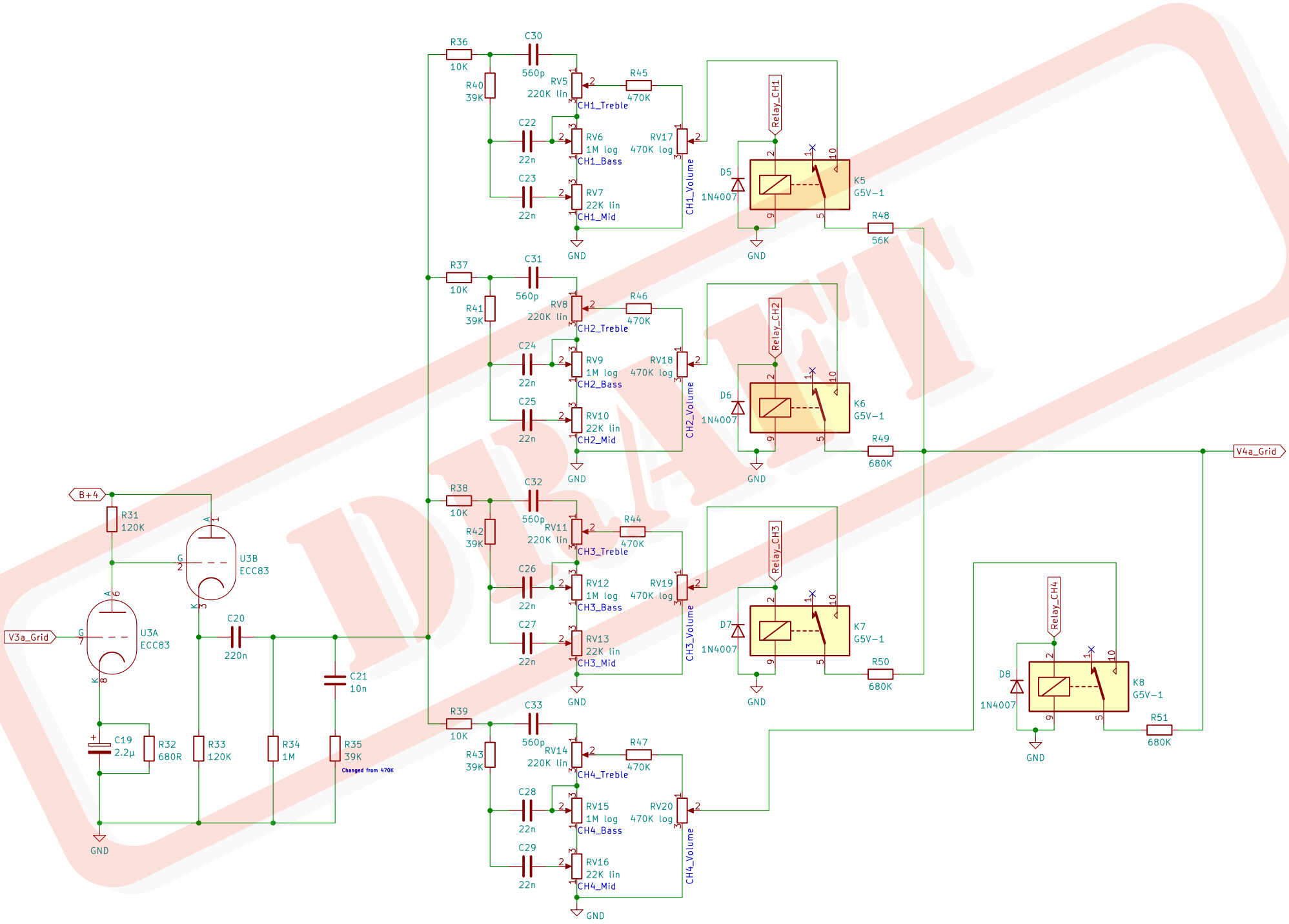
Controls

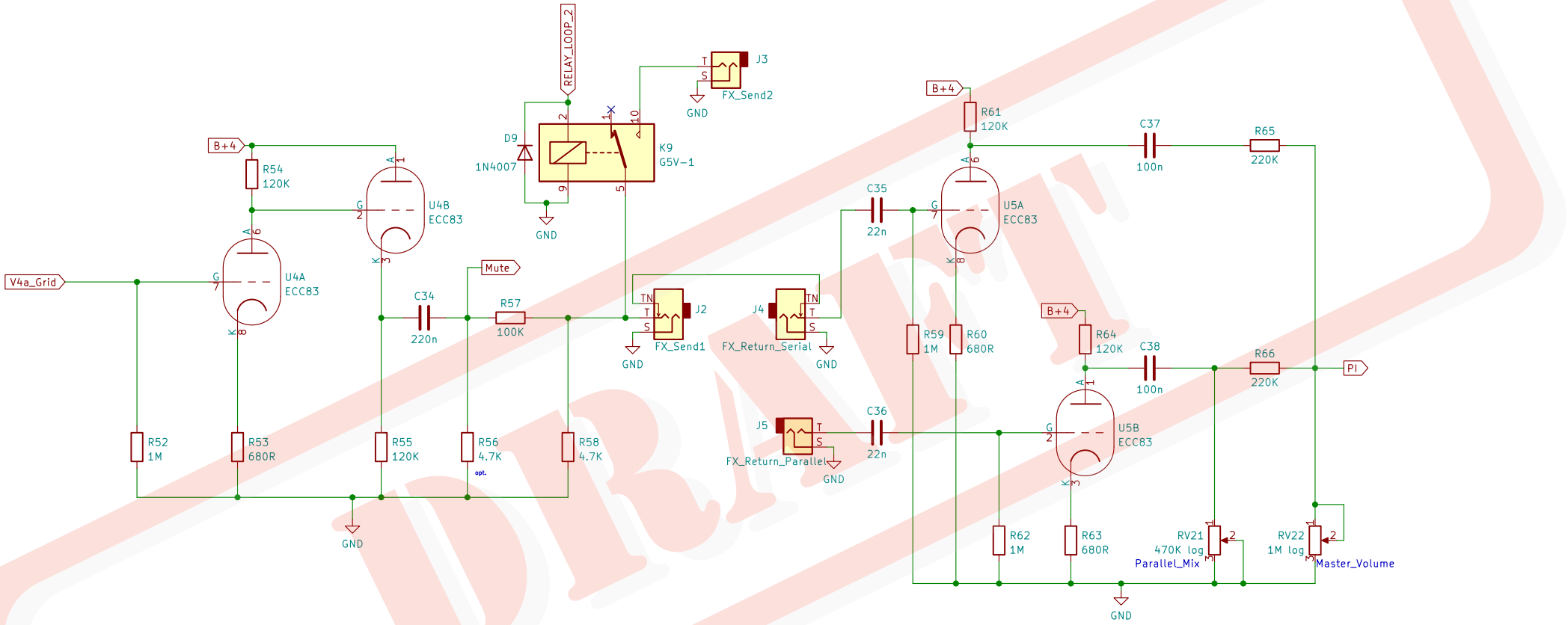


File: Controls.kicad_sch

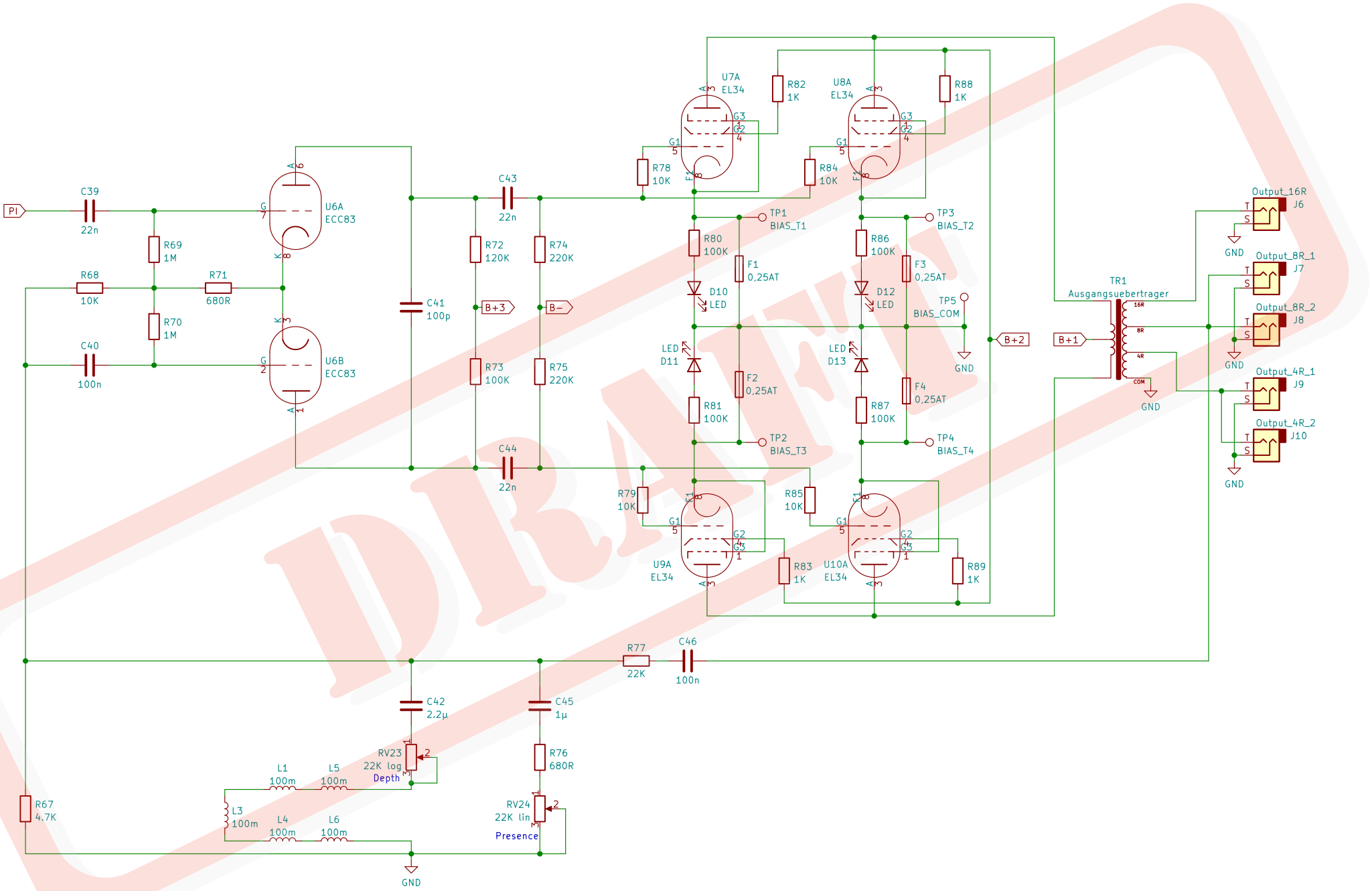
DRAFT

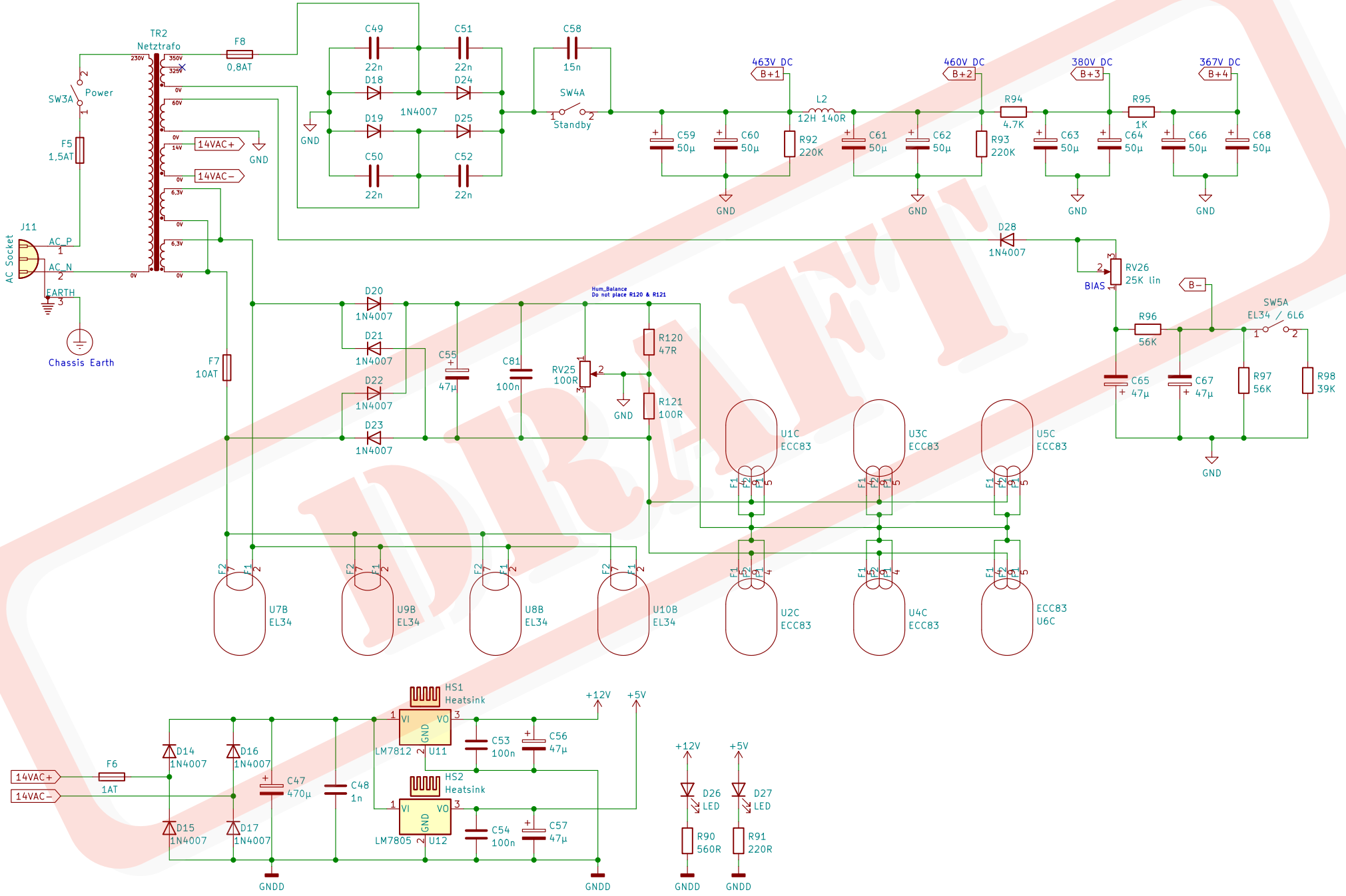

SW2A
CH1_Brightness
SW1A
CH2_Brightness
C3
220n
C13
68p
R24
10M
R19
470K
R23
470K
R25
470K
C14
2.2n
C15
220p
C17
220p
C12
470p
R17
10M
B+4
R10
120K
C10
4.7n
R16
470K
R8
3.3M
C4
10n
C7
680p
RV3
250K log
CH2_Gain
U2B
ECC83
R18
1M
R21
220K
RV4
250K log
CH1_Gain
R5
220K
C8
1µ
R12
680R
GND
C5
1n
R6
220K
RV1
250K log
CH3_Gain
Relay_CH3
D1
1N4007
K1
G5V-1
B+4
R26
120K
C18
4.7n
Relay_CH2
D3
1N4007
K3
G5V-1
Relay_CH1
D4
1N4007
K4
G5V-1
B+4
R4
120K
C6
1n
R7
220K
B+4
R11
100K
C11
2.2n
Input
J1
R2
68K
U1A
ECC83
RV2
250K log
CH4_Gain
U1B
ECC83
Relay_CH4
D2
1N4007
K2
G5V-1
R14
470K
R20
47K
U2A
ECC83
R22
3.3M
C16
1µ
R27
680R
R28
1M
R29
1M
R30
470K
V3a_Grid
C1
220p
R1
1M
C2
47µ
R3
2.2K
R9
220K
C9
1µ
R13
3.3K
R15
220K
GND

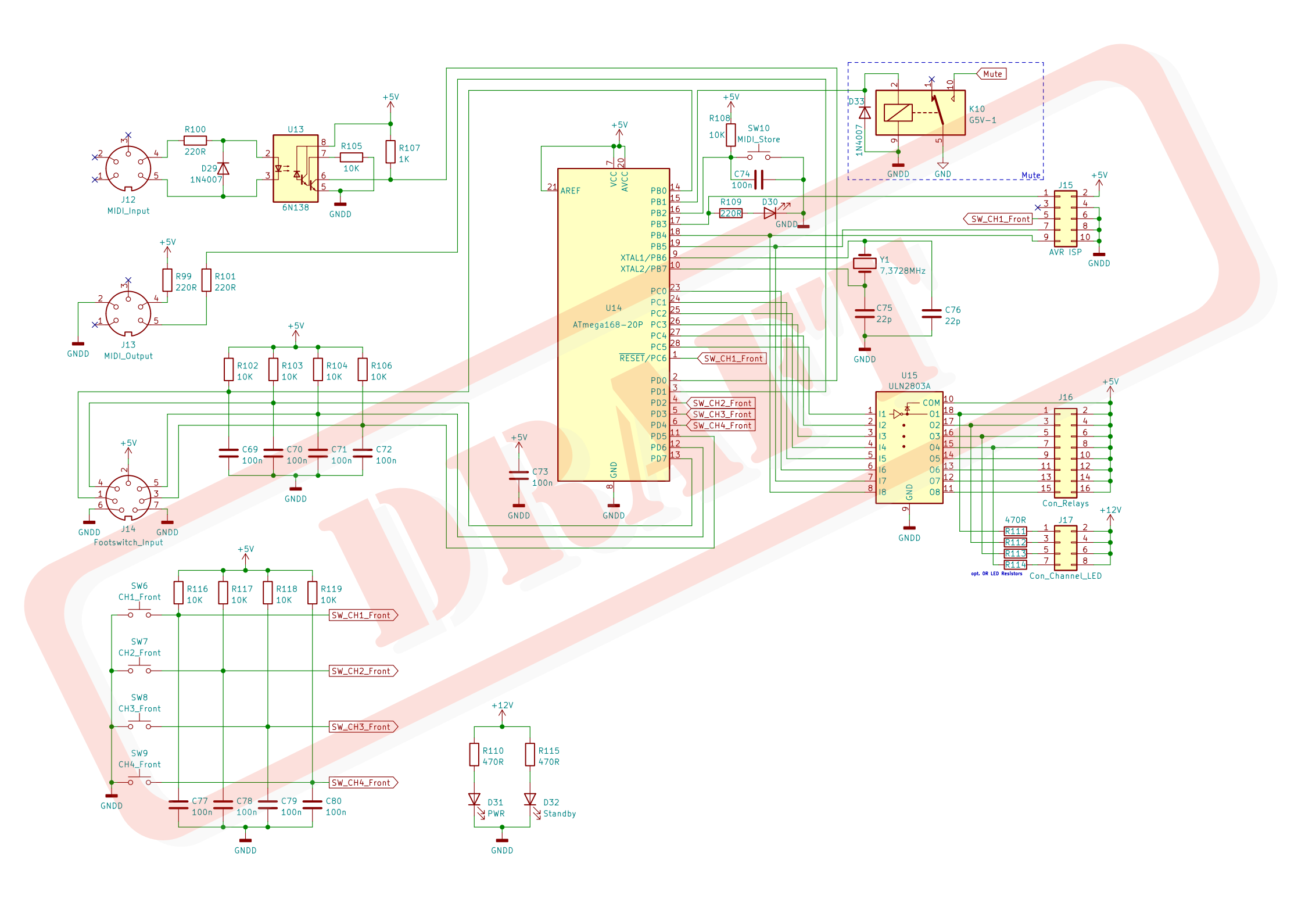

B+4
R31
120K
U3B
ECC83
V3a_Grid
U3A
ECC83
C20
220n
C21
10n
C19
2.2µ
R32
680R
R33
120K
R34
1M
R35
39K
Changed from 470K
GND
R36
10K
R40
39K
C30
560p
RV5
220K lin
CH1_Treble
R45
470K
C22
22n
RV6
1M log
CH1_Bass
C23
22n
RV7
22K lin
CH1_Mid
RV17
470K log
CH1_Volume
Relay_CH1
D5
1N4007
K5
G5V-1
R48
56K
R37
10K
R41
39K
C31
560p
RV8
220K lin
CH2_Treble
R46
470K
C24
22n
RV9
1M log
CH2_Bass
C25
22n
RV10
22K lin
CH2_Mid
RV18
470K log
CH2_Volume
Relay_CH2
D6
1N4007
K6
G5V-1
R49
680K
V4a_Grid
R38
10K
R42
39K
C32
560p
RV11
220K lin
CH3_Treble
R44
470K
C26
22n
RV12
1M log
CH3_Bass
C27
22n
RV13
22K lin
CH3_Mid
RV19
470K log
CH3_Volume
Relay_CH3
D7
1N4007
K7
G5V-1
R50
680K
R39
10K
R43
39K
C33
560p
RV14
220K lin
CH4_Treble
R47
470K
C28
22n
RV15
1M log
CH4_Bass
C29
22n
RV16
22K lin
CH4_Mid
RV20
470K log
CH4_Volume
Relay_CH4
D8
1N4007
K8
G5V-1
R51
680K


RELAY_LOOP_2
J3
FX_Send2
GND
D9
1N4007
K9
G5V-1
B+4
R54
120K
U4B
ECC83
U4A
ECC83
V4a_Grid
Mute
C34
220n
R57
100K
J2
FX_Send1
J4
FX_Return_Serial
J5
FX_Return_Parallel
C35
22n
C36
22n
R52
1M
R53
680R
R55
120K
R56
4.7K
opt.
R58
4.7K
R59
1M
R60
680R
R61
120K
U5A
ECC83
C37
100n
R65
220K
R64
120K
C38
100n
R66
220K
U5B
ECC83
PI
R62
1M
R63
680R
RV21
470K log
Parallel_Mix
RV22
1M log
Master_Volume

DRAFT


PI
C39
22n
R68
10K
R69
1M
R70
1M
R71
680R
C40
100n
U6A
ECC83
U6B
ECC83
C41
100p
C43
22n
C44
22n
R72
120K
R73
100K
R74
220K
R75
220K
B+3
B-
U7A
EL34
U8A
EL34
U9A
EL34
U10A
EL34
R78
10K
R79
10K
R82
1K
R83
1K
R84
10K
R85
10K
R88
1K
R89
1K
R80
100K
R81
100K
R86
100K
R87
100K
F1
0,25AT
F2
0,25AT
F3
0,25AT
F4
0,25AT
D10
LED
D11
LED
D12
LED
D13
LED
TP1
BIAS_T1
TP2
BIAS_T3
TP3
BIAS_T2
TP4
BIAS_T4
TP5
BIAS_COM
GND
B+2
B+1
TR1
Ausgangsuebertrager
16R
8R
4R
COM
Output_16R
J6
Output_8R_1
J7
Output_8R_2
J8
Output_4R_1
J9
Output_4R_2
J10
R77
22K
C46
100n
C42
2.2µ
C45
1µ
RV23
22K log
Depth
RV24
22K lin
Presence
R76
680R
R67
4.7K
L1
100m
L3
100m
L4
100m
L5
100m
L6
100m


TR2
Netztrafo
F8
0,8AT
SW3A
Power
F5
1,5AT
J11
AC Socket
AC_P
AC_N
EARTH
Chassis Earth
14VAC+
14VAC−
GND
C49
C51
C58
22n
22n
15n
D18
D24
D19
D25
1N4007
C50
C52
22n
22n
SW4A
Standby
463V DC
B+1
460V DC
B+2
380V DC
B+3
367V DC
B+4
L2
12H 140R
R94
4.7K
R95
1K
C59
C60
C61
C62
C63
C64
C66
C68
50µ
R92
220K
R93
220K
D28
1N4007
RV26
25K lin
BIAS
B−
SW5A
EL34 / 6L6
R96
56K
C65
C67
47µ
R97
56K
R98
39K
D20
D21
D22
D23
1N4007
C55
47µ
C81
100n
Hum_Balance
Do not place R120 & R121
RV25
100R
R120
47R
R121
100R
F7
10AT
U1C
ECC83
U3C
ECC83
U5C
ECC83
U7B
EL34
U9B
EL34
U8B
EL34
U10B
EL34
U2C
ECC83
U4C
ECC83
ECC83
U6C
F6
1AT
D14
D15
D16
D17
1N4007
C47
470µ
C48
1n
HS1
Heatsink
HS2
Heatsink
LM7812
U11
LM7805
U12
C53
100n
C54
100n
C56
47µ
C57
47µ
+12V
+5V
GNDD
D26
D27
LED
R90
560R
R91
220R


J12
MIDI_Input
R100
220R
D29
1N4007
U13
6N138
R105
10K
R107
1K
+5V
GNDD
J13
MIDI_Output
R99
220R
R101
220R
J14
Footswitch_Input
R102
10K
R103
10K
R104
10K
R106
10K
C69
100n
C70
100n
C71
100n
C72
100n
SW6
CH1_Front
SW7
CH2_Front
SW8
CH3_Front
SW9
CH4_Front
R116
10K
R117
10K
R118
10K
R119
10K
SW_CH1_Front
SW_CH2_Front
SW_CH3_Front
SW_CH4_Front
C77
100n
C78
100n
C79
100n
C80
100n
U14
ATmega168-20P
AREF
VCC
AVCC
GND
PB0
PB1
PB2
PB3
PB4
PB5
XTAL1/PB6
XTAL2/PB7
PC0
PC1
PC2
PC3
PC4
PC5
RESET/PC6
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
R108
10K
SW10
MIDI_Store
C74
100n
R109
220R
D30
Y1
7.3728MHz
C75
22p
C76
22p
C73
100n
D33
1N4007
K10
G5V-1
Mute
J15
AVR ISP
U15
ULN2803A
COM
O1
O2
O3
O4
O5
O6
O7
O8
I1
I2
I3
I4
I5
I6
I7
I8
J16
Con_Relays
470R
R111
R112
R113
R114
opt. OR LED Resistors
J17
Con_Channel_LED
+12V
R110
470R
R115
470R
D31
PWR
D32
Standby