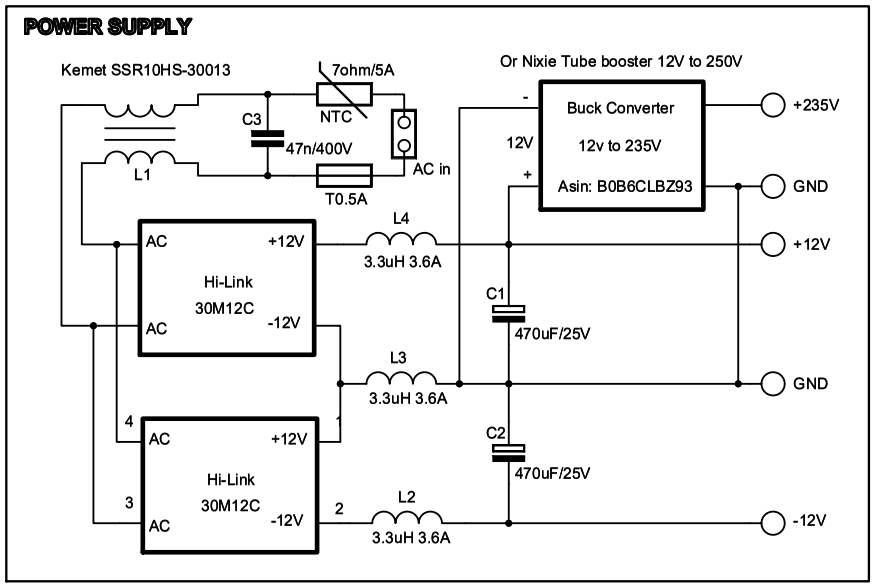
MC/MM HYBRID PHONO PREAMP



Power Supply

C1, C2 = 470uF/25V
C3 = 47n/400V steek 15mm

L1 = Kemet SSR10HS-30013
L2...4 = 3.3uH 3.6A steek 5mm Bourns RLB0912

NTC = 7ohm 5A

SMPS = 2 x Hi-link 30M12C
Buck Converter = B0B6CLBZ93 or Nixie Tube Booster 12 to 235/250V

Zekeringhouder = steek 23mm met kap
Zekering = T0.5A 5 x 20mm5 x 20mm

Hybrid Phono Preamp

All >1/4W 1% 2 x 7mm
R1,R21 = 2 x 100
R2, R22 = 2 x 470
R3, 14, 19, 23, 34, 39, 42 = 7 x 1k
R4, R24 = 2 x 47k
R5, R25 = 2 x 82k
R6, 10,17, 26, 30, 37 = 6 x 100k
R7, R27 = 2 x 150k
R8, R28 = 169
R9, R29 = 2 x1k5
R11, R31 = 2 x 5k6
R12, R32 = 2 x 8k2
R13, 20, 33, 40 = 4 x 470k
R15, 18, 35, 38 = 4 x 680
R41 = 22k
R43, R44 = 2k2

R16, R36 = 2 x 15k 1Watt

C1, C13 = 2 x 33p WIMA FKP2-1000V PP RM5
C2, C14 = 2 x 68p WIMA FKP2-1000V PP RM5
C3, C15 = 2 x 100p WIMA FKS2-1000V PP RM5
C4...7, C16...C19 = 8 x 10n WIMA MKP2-100V PP RM5
C8, C20 = 2 x 100n WIMA MKS2-100V RM5
C9, C21 = 2 x 220uF/16V RM5
C10, C22 = 2 x 100n WIMA MKP10-400V RM15
C11, C23 = 2 x 1uF WIMA MKP10-400V RM27.5
C12 = 22uF/400V RM7.5
C25 = 470uF/16V RM3.75

D1 = 1N4001
D2 = 3mm Duo LED red/blue common kathode

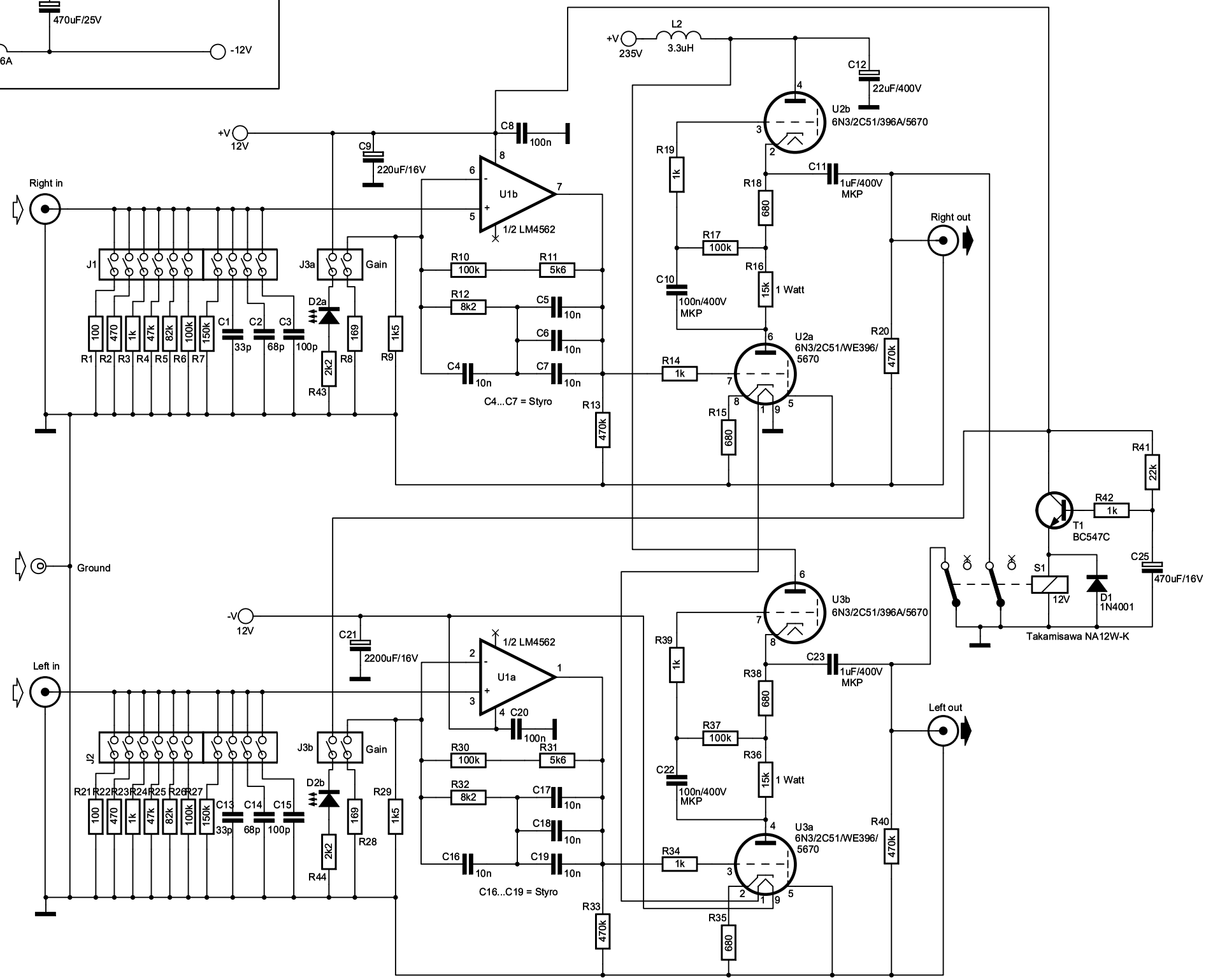
T1 = BC547C

U1 = LM4562, NE5532 or eqv.
U2 = Double Triode Tube 6N3, 2C51, 396A, 5670

J1, J2 = 2 x 10 pol Mini DIP switch RM7.5
J3 = 4 pol Mini DIP switch RM7.5

S1 = Relais Takamisawa NA12W-K

L2 = 3u3H 5A RM5

DIP8 socket
2 x 9pin cer tube socket PCB GZC9 C 1

4P RCA Female PCB Socket AV4-8.4-13PB
4mm Female Banana chasis con for ground