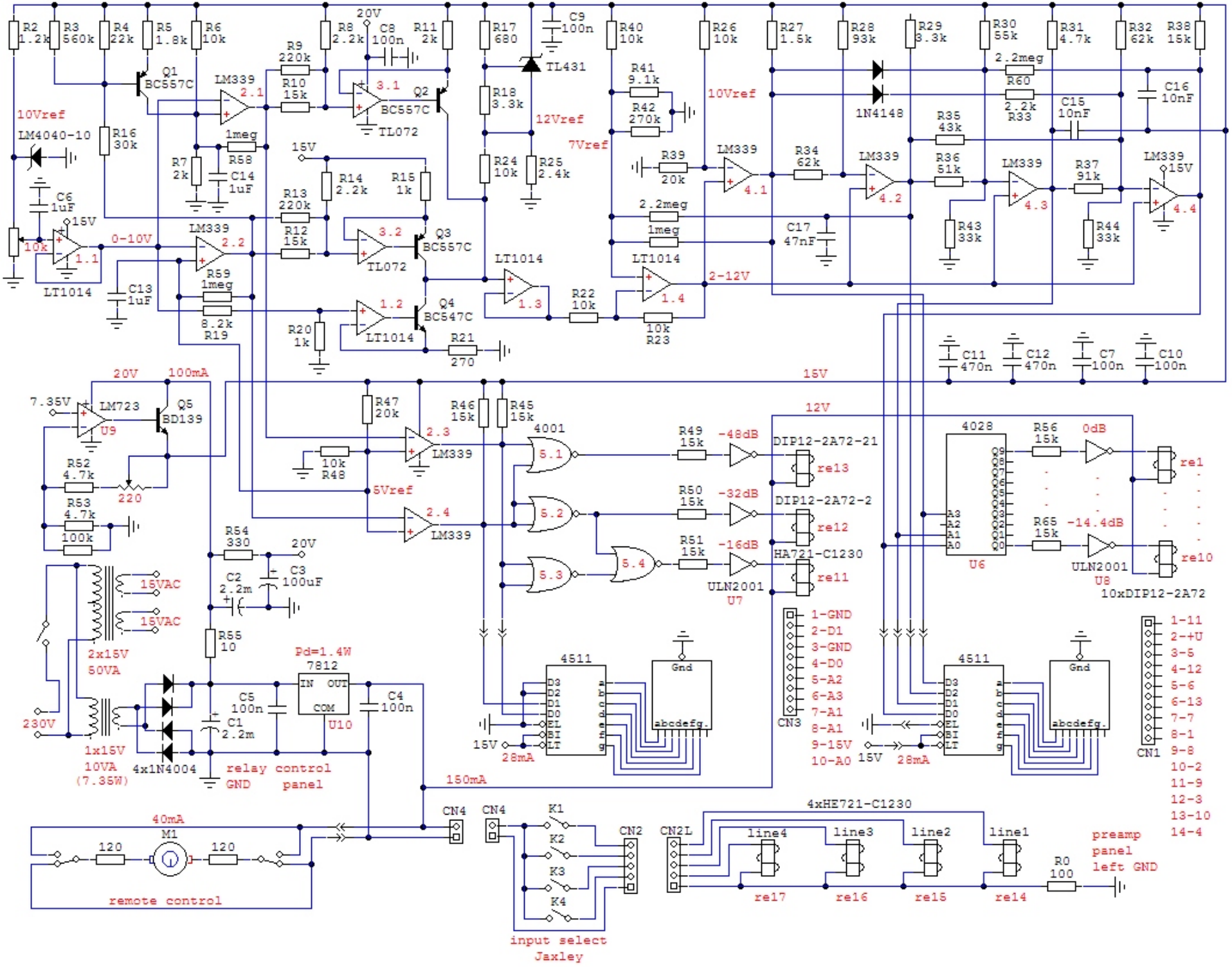
R2 1.2k
R3 560k
R4 22k
R5 1.8k
R6 10k
Q1 BC557C
LM339
2.1
10Vref
LM4040-10
R16 30k
R7 2k
1meg
R58
C14 1uF
C6 1uF
15V
10k
0-10V
1.1
LT1014
C13 1uF
R8 2.2k
20V
C8 100n
R11 2k
R9 220k
R10 15k
3.1
Q2 BC557C
TL072
15V
R14 2.2k
R15 1k
R13 220k
R12 15k
3.2
Q3 BC557C
TL072
R59 1meg
8.2k R19
1.2
Q4 BC547C
LT1014
R20 1k
R21 270
R17 680
C9 100n
TL431
R18 3.3k
12Vref
R24 10k
R25 2.4k
7Vref
LT1014
1.3
R22 10k
R40 10k
R41 9.1k
R42 270k
R39 20k
2.2meg
1meg
LT1014
1.4
10k R23
R26 10k
10Vref
LM339
4.1
2-12V
R27 1.5k
R28 93k
1N4148
R34 62k
C17 47nF
LM339
4.2
R29 3.3k
R35 43k
R36 51k
R43 33k
R30 55k
2.2meg
R60
2.2k R33
LM339
4.3
R31 4.7k
C15 10nF
R37 91k
R44 33k
R32 62k
C16 10nF
R38 15k
LM339
15V
4.4
C11 470n
C12 470n
C7 100n
C10 100n
15V
20V
100mA
7.35V
LM723
U9
Q5 BD139
R52 4.7k
220
R53 4.7k
100k
R47 20k
R46 15k
R45 15k
2.3
LM339
10k R48
5Vref
2.4
LM339
4001
5.1
5.2
5.3
5.4
12V
R49 15k
-48dB
DIP12-2A72-21
re13
R50 15k
-32dB
DIP12-2A72-2
re12
R51 15k
-16dB
HA721-C1230
re11
ULN2001
U7
4028
R56 15k
0dB
re1
R65 15k
-14.4dB
ULN2001
U8
re10
10xDIP12-2A72
U6
R54 330
20V
C2 2.2m
C3 100uF
R55 10
15VAC
15VAC
2x15V
50VA
230V
1x15V
10VA
(7.35W)
4x1N4004
Pd=1.4W
7812
IN OUT
COM
U10
C5 100n
C1 2.2m
C4 100n
relay control
GND panel
150mA
4511
Gnd
abcdefg.
15V
28mA
CN3
1-GND
2-D1
3-GND
4-D0
5-A2
6-A3
7-A1
8-A1
9-15V
10-A0
CN1
1-11
2-+U
3-5
4-12
5-6
6-13
7-7
8-1
9-8
10-2
11-9
12-3
13-10
14-4
40mA
M1
120
120
remote control
CN4
CN2
K1
K2
K3
K4
input select
Jaxley
4xHE721-C1230
CN2L
line4
line3
line2
line1
re17
re16
re15
re14
R0
100
preamp
panel
left GND