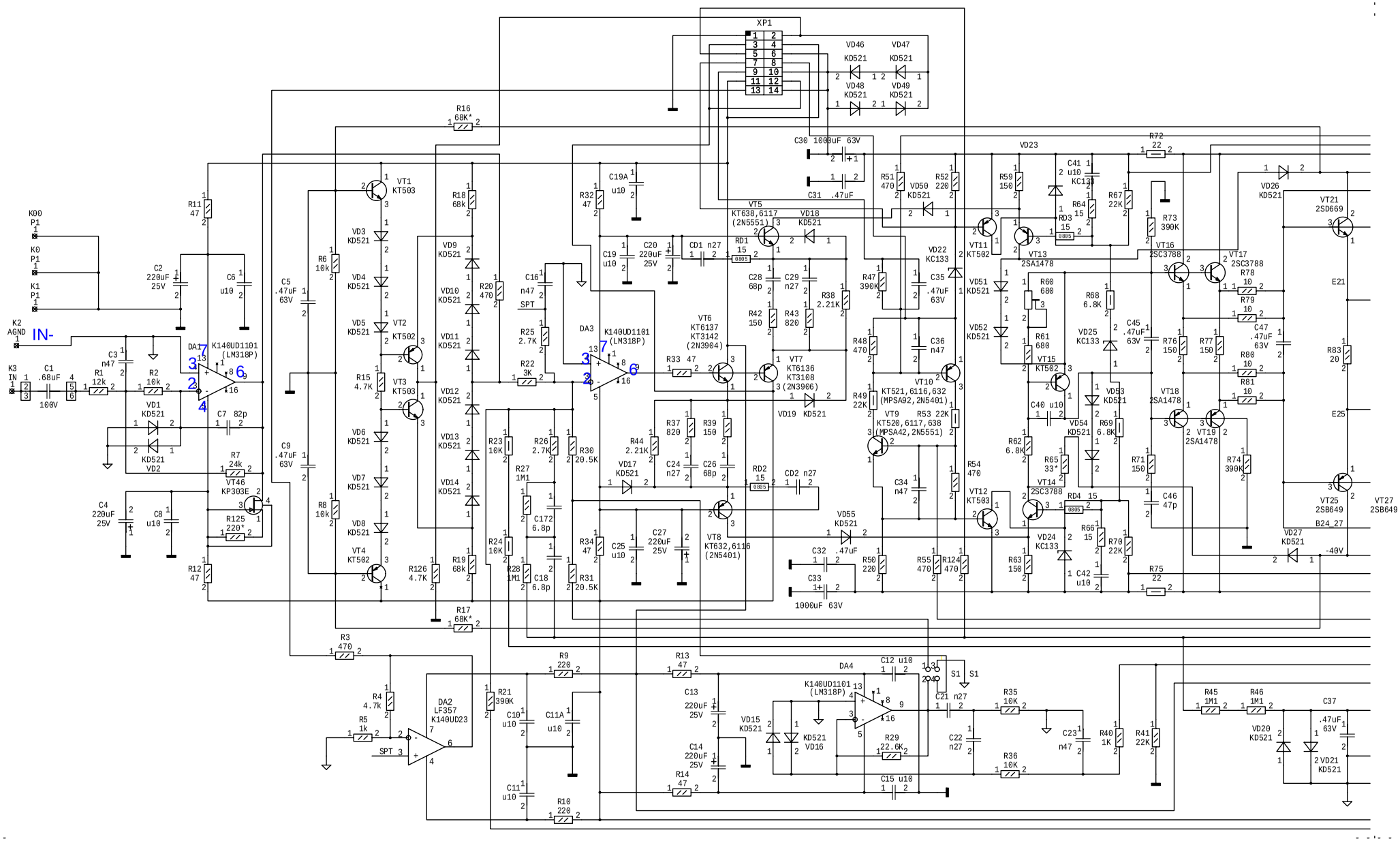
XP1
K00
P1
K0
P1
K1
P1
K2
AGND
IN-
K3
IN
C1
.68uF
100V
R1
12k
R2
10k
C2
220uF
25V
C3
n47
VD1
KD521
VD2
C7 82p
DA1
K140UD1101
(LM318P)
R7
24k
VT46
KP303E
R125
220*
C4
220uF
25V
C8
u10
R12
47
R11
47
C6
u10
R16
68K*
R17
68K*
R18
68k
R19
68k
R20
470
R126
4.7K
R8
10k
R6
10k
C5
.47uF
63V
C9
.47uF
63V
VT1
KT503
VD3
KD521
VD4
KD521
VD5
KD521
VT2
KT502
R15
4.7K
VT3
KT503
VD6
KD521
VD7
KD521
VD8
KD521
VT4
KT502
VD9
KD521
VD10
KD521
VD11
KD521
VD12
KD521
VD13
KD521
VD14
KD521
R23
10K
R24
10K
R26
2.7K
R27
1M1
C172
6.8p
R28
1M1
C18
6.8p
R30
20.5K
R31
20.5K
C16
n47
SPT
R25
2.7K
R22
3K
DA3
K140UD1101
(LM318P)
C19A
u10
R32
47
C19
u10
C20
220uF
25V
CD1 n27
RD1
15
VT5
KT638,6117
(2N5551)
VD18
KD521
C28
68p
C29
n27
R38
2.21K
R42
150
R43
820
VT6
KT6137
KT3142
(2N3904)
R33 47
VT7
KT6136
KT3108
(2N3906)
VD19 KD521
R44
2.21K
VD17
KD521
R37
820
R39
150
C24
n27
C26
68p
RD2
15
CD2 n27
VT8
KT632,6116
(2N5401)
R34
47
C25
u10
C27
220uF
25V
R50
220
C32 .47uF
C33
1000uF 63V
VD55
KD521
C30 1000uF 63V
C31 .47uF
VD46
KD521
VD47
KD521
VD48
KD521
VD49
KD521
R51
470
VD50
KD521
R52
220
VD22
KC133
C35
.47uF
63V
C36
n47
R47
390K
R48
470
R49
22K
VT9
KT520,6117,638
(MPSA42,2N5401)
R53 22K
KT521,6116,632
(MPSA92,2N5401)
VT10
R54
470
C34
n47
R55
470
R124
470
VT12
KT503
VD23
VT11
KT502
VT13
2SA1478
R59
150
C41
u10
KC133
RD3
15
R64
15
R67
22K
VD51
KD521
VD52
KD521
R60
680
R61
680
VD24
KC133
VT14
2SC3788
RD4 15
R62
6.8K
R65
33*
VT15
KT502
C40 u10
VD54
KD521
R66
15
R70
22K
C42
u10
R63
150
R72
22
R73
390K
VT16
2SC3788
VT17
2SC3788
R78
10
R79
10
R68
6.8K
VD25
KC133
VD53
KD521
R69
6.8K
C45
.47uF
63V
R76
150
R77
150
C47
.47uF
63V
R80
10
R81
10
VT18
2SA1478
VT19
2SA1478
R71
150
R74
390K
C46
47p
VD26
KD521
VT21
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E21
R83
20
E25
VT25
2SB649
VT27
2SB649
B24_27
VD27
KD521
-40V
R75
22
R3
470
R4
4.7k
R5
1k
SPT
DA2
LF357
K140UD23
R21
390K
R9
220
C10
u10
C11A
u10
C11
u10
R10
220
R13
47
C13
220uF
25V
C14
220uF
25V
R14
47
VD15
KD521
VD16
KD521
DA4
K140UD1101
(LM318P)
C12 u10
S1
S1
C21 n27
R29
22.6K
C15 u10
R35
10K
R36
10K
C22
n27
C23
n47
R40
1K
R41
22K
R45
1M1
R46
1M1
C37
.47uF
63V
VD20
KD521
VD21
KD521