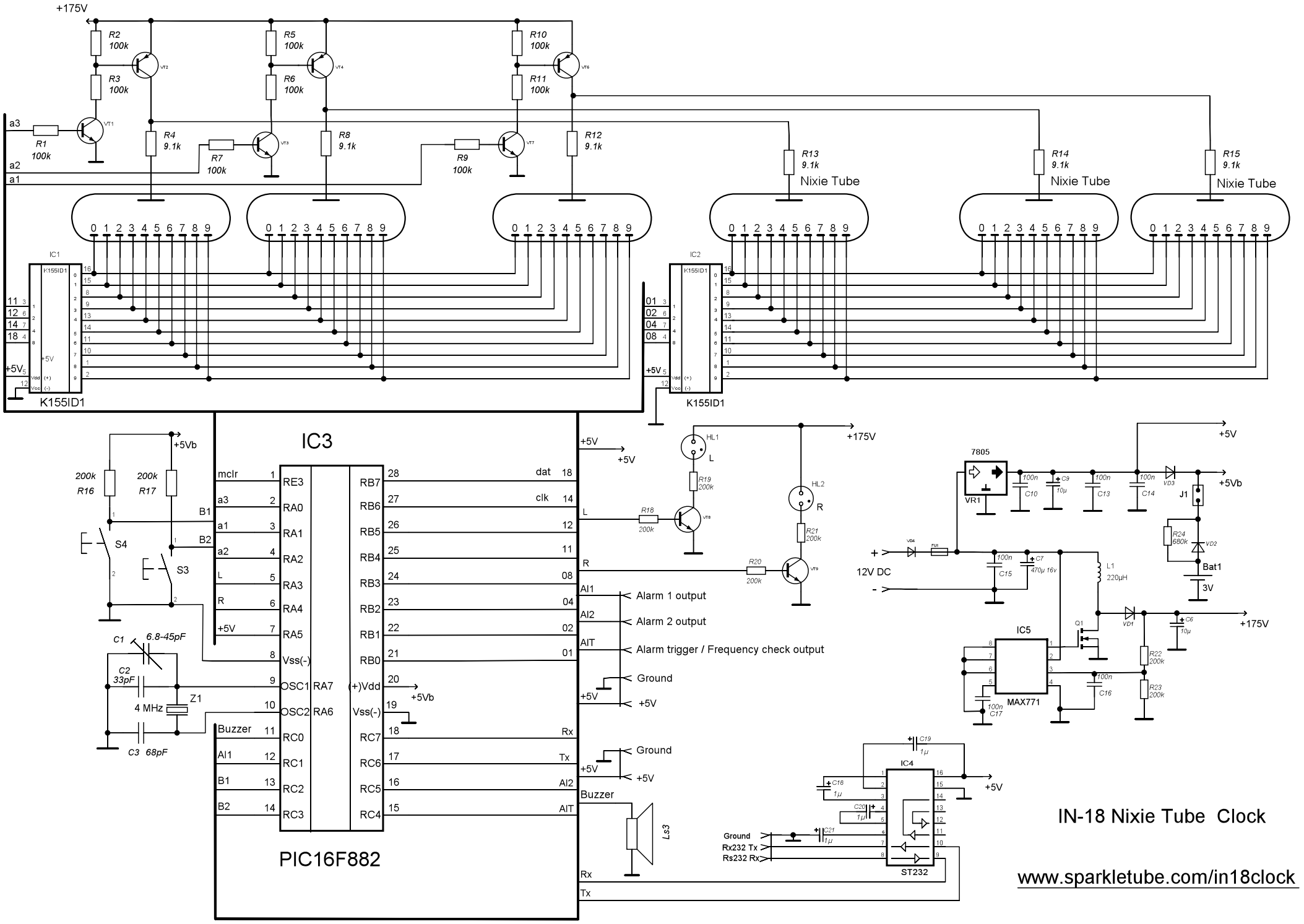
+175V
R2 100k
R3 100k
R5 100k
R6 100k
R10 100k
R11 100k
R1 100k
R4 9.1k
R7 100k
R8 9.1k
R9 100k
R12 9.1k
R13 9.1k
R14 9.1k
R15 9.1k
Nixie Tube
Nixie Tube
Nixie Tube
a3
a2
a1
VT1
VT2
VT3
VT4
VT6
VT7
0 1 2 3 4 5 6 7 8 9
IC1
IC2
K155ID1
K155ID1
K155ID1
11
12
14
18
+5V
01
02
04
08
IC3
PIC16F882
mclr
a3
a1
a2
L
R
+5V
Vss(-)
OSC1
OSC2
Buzzer
AI1
B1
B2
RE3
RA0
RA1
RA2
RA3
RA4
RA5
RA7
RA6
RC0
RC1
RC2
RC3
RB7
RB6
RB5
RB4
RB3
RB2
RB1
RB0
(+)Vdd
Vss(-)
RC7
RC6
RC5
RC4
dat
clk
Rx
Tx
AI2
AIT
+5Vb
200k R16
200k R17
S4
S3
B1
B2
C1 6.8-45pF
C2 33pF
4 MHz
Z1
C3 68pF
HL1
HL2
L
R
R19 200k
R18 200k
R21 200k
R20 200k
VT5
VT8
VT9
Alarm 1 output
Alarm 2 output
Alarm trigger / Frequency check output
Ground
Ground
Buzzer
Ls3
Rx
Tx
7805
VR1
C10 100n
C9 10µ
C13 100n
C14 100n
VD3
J1
R24 680k
VD2
Bat1
3V
12V DC
VD4
FU1
C15 100n
C7 470µ 16v
L1 220µH
VD1
C6 10µ
IC5
MAX771
Q1
R22 200k
R23 200k
C16 100n
C17 100n
IC4
ST232
C19 1µ
C18 1µ
C20 1µ
C21 1µ
Ground
Rx232 Tx
Rs232 Rx
IN-18 Nixie Tube Clock
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