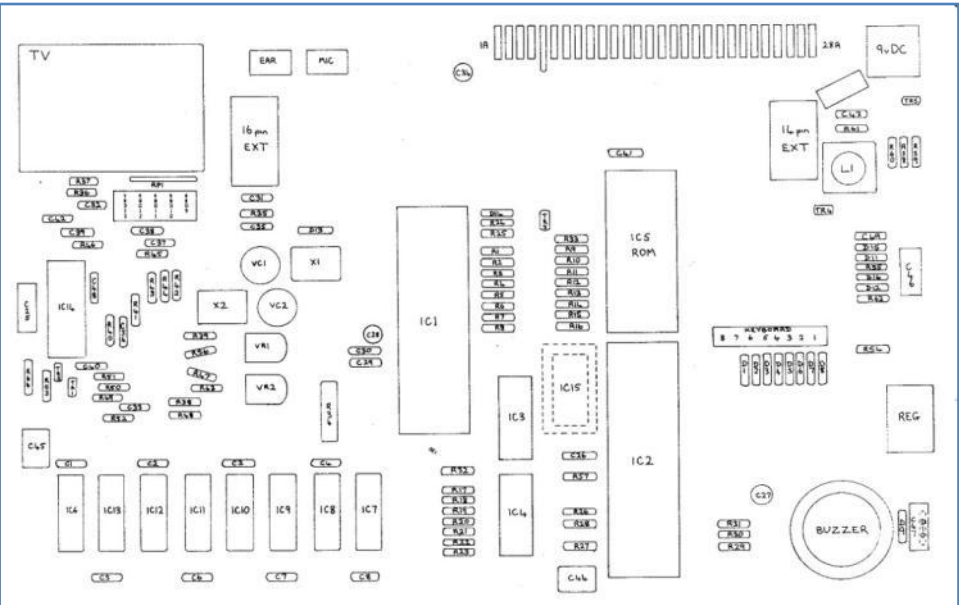
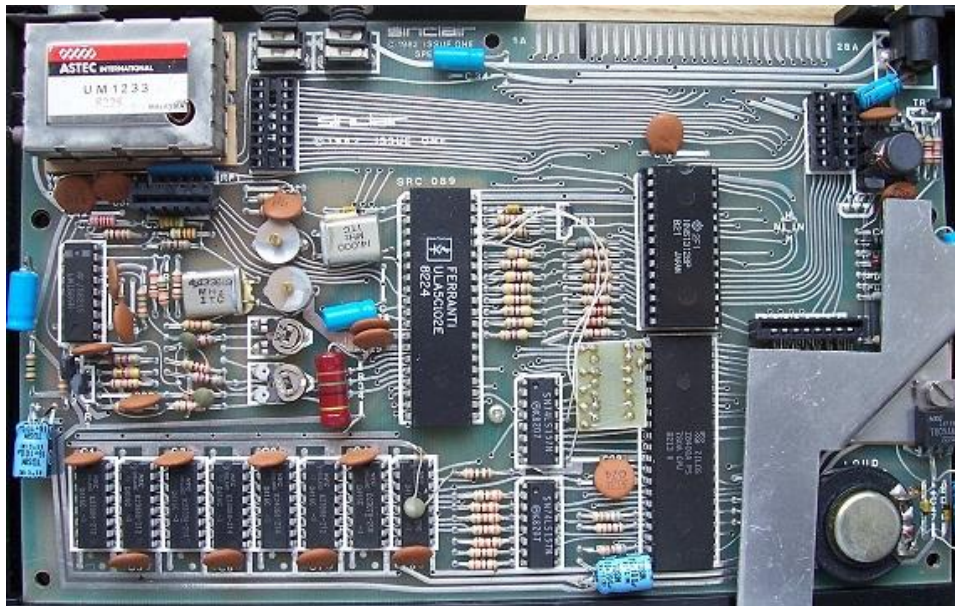


ESQUEMATICO ZX SPECTRUM 48kB ISSUE 1

Retrocomputing



Resistors

R1 470R
R2 470R
R3 470R
R4 470R
R5 470R
R6 570R
R7 470R
R8 470R
R9 8K2
R10 8K2
R11 8K2
R12 8K2
R13 8K2
R14 8K2
R15 8K2
R16 8K2
R17 330R
R18 330R
R19 330R
R20 330R
R21 330R
R22 330R
R23 330R
R24 3K3 (or 1K)
R25 180R
R26 680R
R27 680R
R28 10K
R29 1K5
R30 1K
R31 220K
R32 100R
R33 680R
R34 15R
R35 10K
R36 680R
R37 1K
R38 3K3
R39 3K3
R40 1K
R41 1K5
R42 1K
R43 3K
R44 5K1
R45 1K
R46 1K

R47 220R
R48 4K7 (or 2K2)
R49 18K (or 8K2)
R50 4K7
R51 2K2
R52 2K2
R53 390R
R54 100K
R55 56R
R56 220R
R57 330R
R58 1K
R59 1K8
R60 100R
R61 15R
R62 15R
R63 220R
R64 15R
R65 10K
R66 10K
R67 10K
R68 10K
R69 10K
R70 220R
R71 220R
R72 10K

Capacitors

C1 47nF
C2 47nF
C3 47nF
C4 47nF
C5 47nF
C6 47nF
C7 47nF
C8 47nF
C9 — C24 Decoupling Capacitors
C25 22uF 16v
C26 47nF
C27 1uF 63v
C28 22uF 16v
C29 47nF
C30 47nF
C31 100nF
C32 100nF
C33 47nF
C34 22uF 16v
C35 10nF

C36 47nF
C37 33pF
C38 33pF
C39 10nF
C40 47nF
C41 47nF
C42 47nF
C43 100nF
C44 100uF 16v
C45 100uF 16v
C46 1uF 50v
C47 22uF 16v
C48 47nF
C49 47nF
C50 22uF 16v
C51 NOT USED
C52 100pF
C53 100pF
C54 470pF
C55 — C62 Decoupling Capacitors
C63 47pF
C64 100pF
C65 22uF 16v
C66 47nF

Transistors

TR1 ZTX 313
TR2 ZTX 313
TR3 ZTX 313
TR4 ZTX 651
TR5 ZTX 213

Miscellaneous

7805 1 amp 5 volt regulator
X1 14 MHz crystal
X2 4.4336 MHz colour crystal
VR1 2K2 horizontal preset
VR2 2K2 horizontal preset

Diodes

D1 — D14 IN4148
D15 high power silicon diode
D16 Zener diode

Integrated circuits

IC1 Sinclair ULA
IC2 280A CPU
IC3 74LS157
IC4 74LS157
IC5 16K ROM

IC6 — IC13 16K x 1 4116 Dynamic RAMS
IC14 LM1889N
IC15 — IC22 32K x 1 4532 Dynamic RAMS
IC23 74LS32N
IC24 74LS32N
IC25 74LS157N
IC26 74LS157N

