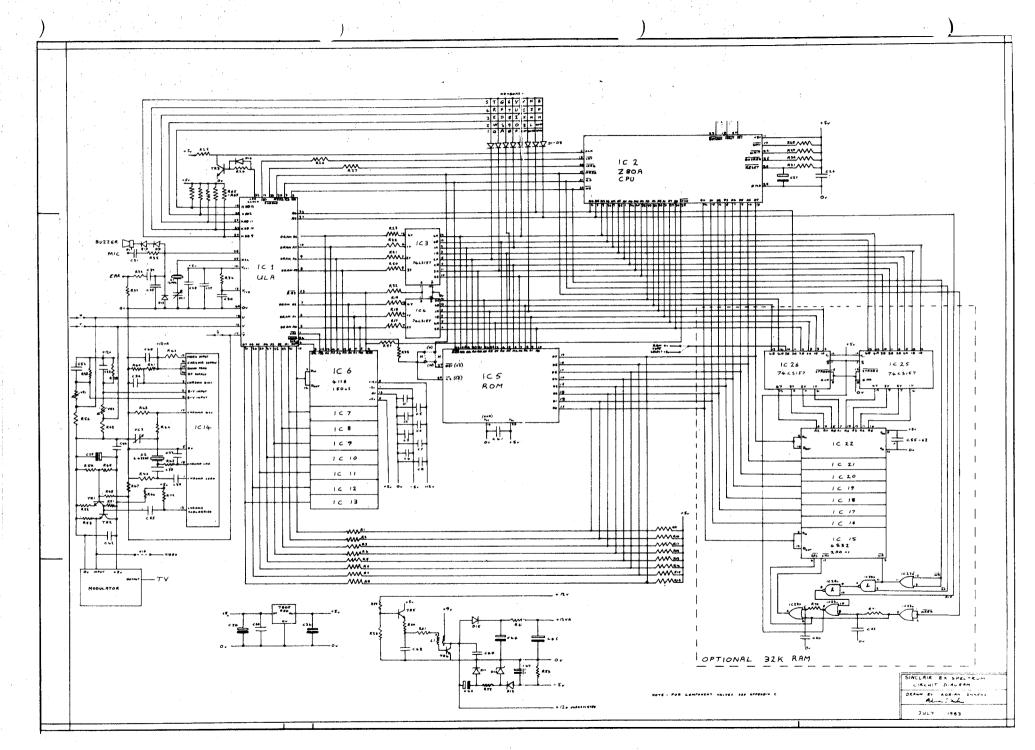
COMPONENT LAYOUT FOR ISSUE 2 BOARD



APPENDIX C — SPECTRUM PARTS LIST

| Resistors | R47 220R |
|-----------------|--------------------------------|
| | |
| R1 470R | |
| R2 470R | R49 18K (or 8K2) R50 4K7 |
| R3 470R | |
| R4 470R | |
| R5 470R | |
| R6 570R | R53 390R |
| R7 470R | R54 100K |
| R8 470R | R55 56R |
| R9 8K2 | R56 220R |
| R10 8K2 | R57 330R |
| R11 8K2 | R58 1K |
| R12 8K2 | R59 1K8 |
| R13. 8K2 | R60 100R |
| R14 8K2 | R61 15R |
| R15 8K2 | R62 15R |
| R16 8K2 | R63 22OR |
| R17 330R | R64 15R |
| R18 330R | R65 10K |
| R19 330R | R66 10K |
| R20 330R | R67 10K |
| R21 330R | R68 10K |
| R22 330R | R69 10K |
| R23 330R | R70 220R |
| R24 3K3 (or 1K) | R71 220R |
| R25 180R | R72 10K |
| R26 680R | Capacitors |
| R27 680R | |
| R28 10K | C1 47nF |
| R29 1K5 | C2 47nF |
| R30 1K | C3 47nF |
| R31 220K | C4 47nF |
| R32 100R | C5 47nF |
| R33 680R | C6 47nF |
| R34 15R | C7 47nF |
| R35 10K | C8 47nF |
| R36 680R | C9 — C24 Decoupling Capacitors |
| R37 1K | C25 22uF 16v |
| R38 3K3 | C26 47 nF |
| R39 3K3 | C27 1uF 63v |
| R40 1K | C28 22uF 16v |
| R41 1K5 | C29 47nF |
| R42 1K | C30 47nF |
| R43 3K | C31 100nF |
| R44 5K1 | C32 100nF |
| R45 1K | C33 47nF |
| R46 1K | C34 22uF 16v |
| | C35 10nF |

| C36 47nF C37 33pF C38 33pF C39 10nF C40 47nF C40 47nF C41 47nF C42 47nF C43 100nF C44 100uF 16v C45 100uF 16v C45 100uF 16v C46 1uF 50v C47 22uF 16v C48 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 Z80A CPU | |

74LS157 74LS157

16K ROM

IC3 IC4

IC5

IC6 — IC13 16K×1 4116 Dynamic RAMS IC14 LM1889N IC15 — IC22 32K×1 4532 Dynamic RAMS IC23 74LS32N IC24 74LS00N IC25 74LS157N IC26 74LS157N