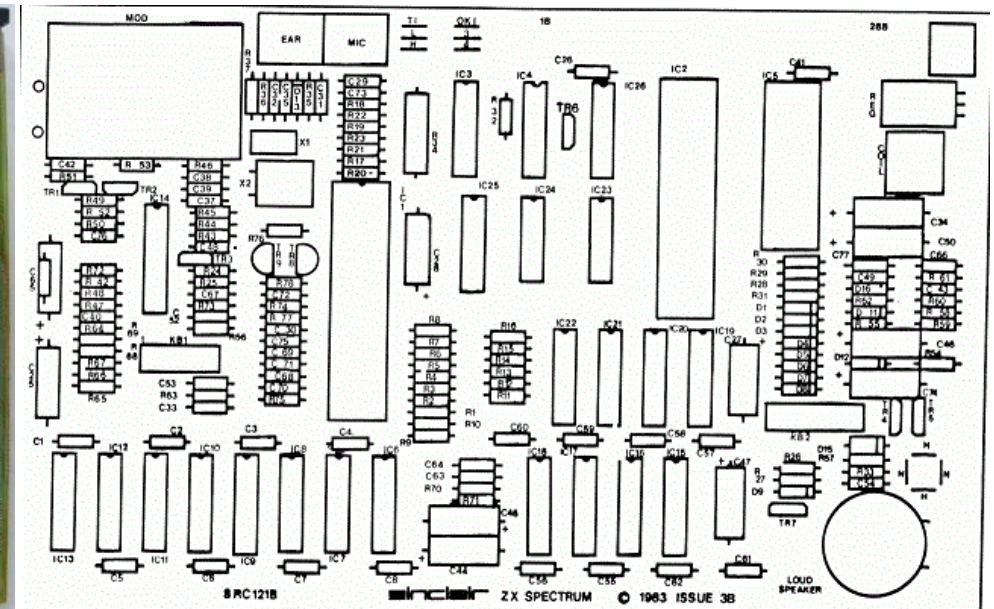
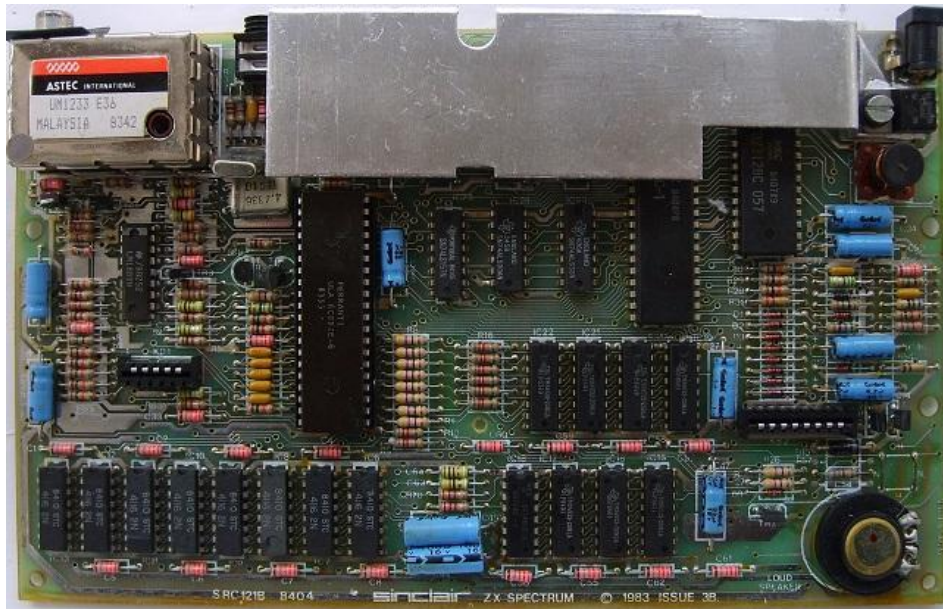
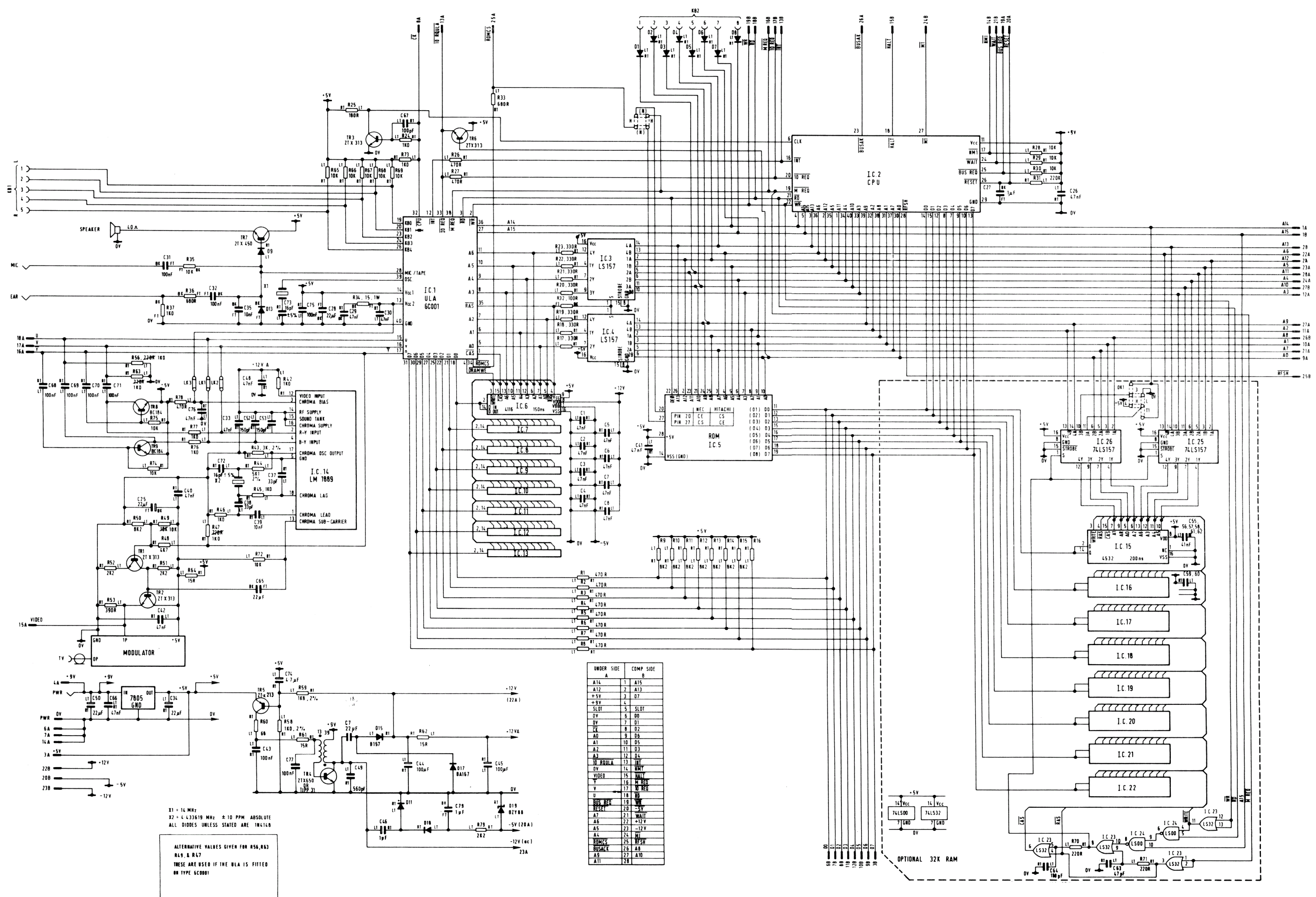


# ESQUEMATICO ZX SPECTRUM 48kB ISSUE 3B

*Retrocomputing*







X1 = 14 MHz  
 X2 = 4.33619 MHz ± 10 PPM ABSOLUTE  
 ALL DIODES UNLESS STATED ARE 1N4148

ALTERNATIVE VALUES GIVEN FOR R56, R63  
 R49, & R47  
 THESE ARE USED IF THE ULA IS FITTED  
 OR TYPE GC001

UNDER SIDE	COMP SIDE
A14	1 A15
A12	2 A13
+5V	3 07
+9V	4
SLOT	5 SLOT
0V	6 00
0V	7 01
CK	8 02
A0	9 06
A1	10 05
A2	11 03
A3	12 04
U. RDULA	13 RY
0V	14 RMY
VIDEO	15 HALT
Y	16 M REG
V	17 W REG
U	18 00
BUS REG	19 0V
RESET	20 -5V
A7	21 WAIT
A6	22 +12V
A5	23 -12V
A4	24 M1
BUS REG	25 RFSW
BUSACK	26 A8
A9	27 A10
A11	28

OPTIONAL 32K RAM