

Parts List for 56 KB modem - Transmit Encoder Board rev A  
Schematic: ENC  
Board Code: ENC Dated 110386-A  
Compiled by WA4FIB  
Part list last modified 2/15/88 (WA4DSY)

Capacitors (Most specified caps have .200" lead spacing. Some  
places on the PC board are .250" or .100" .  
You will have to bend the leads to fit. )

Digi-Key stock #

C1	22 pF	10% ceramic disk	P4004
C2	22 pF	10% ceramic disk	P4004
C3	.047 uF	20% Ceramic Disk or Mylar	P4521
C4	.047 uF	20% Ceramic Disk or Mylar	P4521
C5	.0022 uF	5% Polypropylene	P3222
C6	.0056 uF	5% Polypropylene	P3562
C7	330 pF	5% Polypropylene	P3331
C8	.0022 uF	5% Polypropylene	P3222
C9	.0056 uF	5% Polypropylene	P3562
C10	330 pF	5% Polypropylene	P3331
C11	22 uF	electrolytic 25v	P6236
C12	22 uF	electrolytic	P6236
C13	22 uF	electrolytic	P6236
C14	22 uF	electrolytic	P6236
C15	.1 uF *note 1	20% film or ceramic disk	P4525
C16	.1 uF	20% film or ceramic disk	P4525
C17	.1 uF	20% film or ceramic disk	P4525

#### Resistors

R1	10 Kohm	composition or film	
R2	10 Kohm	composition or film	
R3	2.2 Megohm	composition or film	
R4	1 Kohm	composition or film	
R5	10 Kohm	composition or film	
R6	10 Kohm	composition or film	
R7	10 Kohm	composition or film	
R8	10 Kohm	composition or film	
R9	10 Kohm	potentiometer 3/8" square	OFA14
R10	15 Kohm	composition or film	
R11	10 Kohm	potentiometer 3/8" square	OFA14
R12	15 Kohm	composition or film	
R13	4.3 Kohm	composition or film	
R14	4.3 Kohm	composition or film	
R15	5 Kohm	potentiometer 3/8" square	OFA53
R16	2.2 Kohm	composition or film	
R17	2.2 Kohm	composition or film	
R18	2.4 Kohm	Composition (for 56KB) or film	
R19	2.4 Kohm	composition (for 56KB) or film	
R20	2.4 Kohm	composition (for 56KB) or film	
R21	2.2 Kohm	composition or film	
R22	2.2 Kohm	composition or film	
R23	2.4 Kohm	composition (for 56KB) or film	

R24	2.4 Kohm	composition (for 56KB) or film
R25	2.4 Kohm	composition (for 56KB) or film
R26	10 ohm	composition or film
R27	10 ohm	composition or film

#### Integrated Circuits

U1	MC14070	quad exclusive-or gate
U2	MC14006	Shift Register
U3	74HC30	8 input NAND gate
U4	74HC163	4 bit binary counter
U5	74HC163	4 bit binary counter
U6	74HC174	hex D flip flop
U7	74HC157	Quad 2 input Mux
U8	74HC153	Dual 4 input mux
U9	74HC139	Dual 2 to 4 line Decoder
U10	27C64	8Kx8 EPROM with MSK STATE pattern, 250ns
U11	74HC273	Octal D Latch
U12	74HC273	Octal D Latch
U13	DAC08 or DAC0800	Digital to Analog converter (not a DAC0808)
U14	DAC08 or DAC0800	Digital to Analog converter (not a DAC0808)
U15	TL084	quad op amp
U16	74HC163	4 bit binary counter
U17	74HC00	quad NAND gate

#### Miscellaneous

S1	4 pos. dip switch, If only running 56kb you can omit this part.
Y1	3.579545 MHz tv color-burst crystal HC-18U Holder

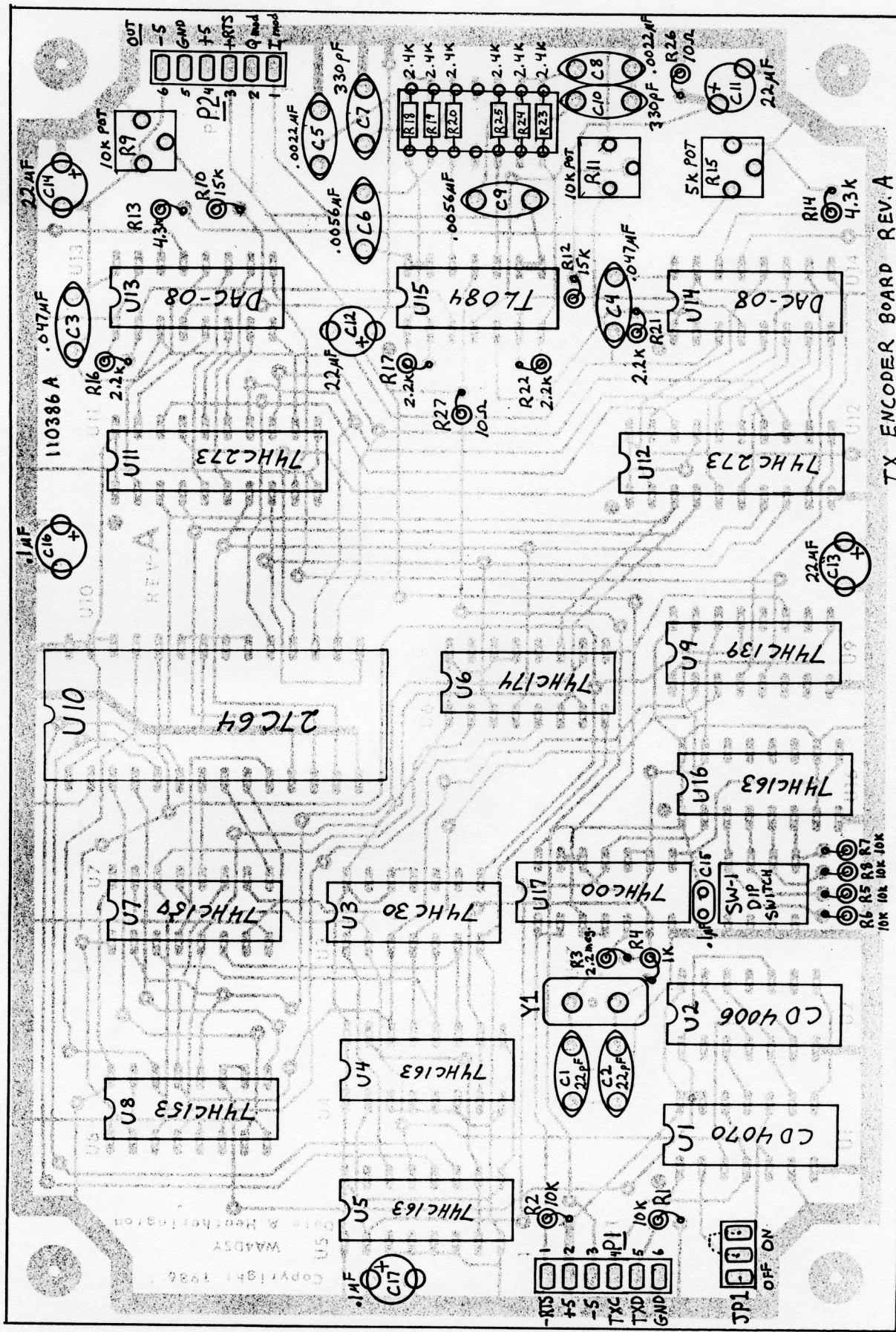
#### Connectors

J1	Molex male 6 pin .1 centers
J2	Molex male 6 pin .1 centers

\*note 1: Due to the cramped space between SW1 and U17 you may have to solder this cap on the back of the board if you can't find one small enough to fit top-side.

End of Parts List for 56K modem Transmit Encoder Board





TX ENCODER BOARD REV. A