

W-33A-TX**Parts List**

(PCB level)

W-33A-TX BOM

revised: 18-Feb-00

Component	Description	ID	Tot Qty	Comments
<u>Printed Circuit</u>				
<u>Board</u>	CEM-1, 1-sided, 1oz Cu.	--	1	
<u>Diodes</u>				
	Rect-signal, 1N4148,	D1,D3	2	
	Rect-power, 1N4001,	D2	1	
<u>Capacitors</u>				
	Ceramic, 1000pF, 50V, 20%, radial	C1	1	
	Ceramic, 10pF, NPO, 50V, radial	C3	1	
	Ceramic, 3pF, 50V, 20%, radial	C4	1	
	Ceramic, 1pF, NPO, 50V, radial	C5	1	
	Ceramic, 470pF, 50V, 20%, radial	C7	1	
	Ceramic, 3.3pF, NPO, 50V, radial	C9	1	
	Ceramic, 2pF, NPO, 50V, radial	C11	1	
	Ceramic, 2.2pF, NPO, 50V, radial	C10	1	
	Ceramic, 0.1uF, 50V, 20%, radial	C13	1	
	EI-Al, 0.47uF, 50V, 20%, +85C, radial	C2	1	Electrolytic
	EI-Al, 47uF, 10V, 20%, +85C, radial	C8	1	Electrolytic
	Trim (var) -screw, 2 to 5 pF, 20%	C6	1	radial, 3-leg
<u>Crystals</u>				
	(one of) 28.0 kHz, 30.0 kHz, 32 kHz, 32.768 kHz and 38.0 kHz quartz crystal/tuning fork, 20ppm,12.5pF	X1	1	one used at a time axial metal can
<u>Inductors</u>				
(coils)	Coil, Wound, 3-loop, #18 Cu bare	L1	1	Antenna--hand formed
	Coil, Wound, 0.3uH, axial	L2	1	Machine formed

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(other)	Bead, Ferrite,	--	1	placed on Q3's "base" leg
<u>ICs</u>				
	Digital-CMOS, 4193BE --(Quad NAND gate)	U1	1	14pin DIP
<u>Resistors</u>				
	Carbon, 1/4W, 5%, 1M ohm	R1, R5, R9	3	
	Carbon, 1/4W, 5%, 560K ohm	R2	1	
	Carbon, 1/4W, 5%, 220K ohm	R3	1	
	Carbon, 1/4W, 5%, 20K ohm	R4	1	
	Carbon, 1/4W, 5%, 180K ohm	R6	1	
	Carbon, 1/4W, 5%, 470K ohm	R7	1	
	Carbon, 1/4W, 5%, 5.1K ohm	R8	1	
<u>Transistors</u>				
	Bipolar, 2N3904	Q1, Q2	2	TO-92
	Bipolar, Hi-freq, 2SC1923Y	Q3		TO-92
<u>Misc.</u>				
	Battery clip & wire, 9V plug	Batt	1	
	Switch-Toggle, momentary, Asmy	Sw1	1	
	Wire, formed, #18 Cu, Insulated	--	3	Antenna aid