

TUC-52 Parts List			
Date Modified			
Paul	09-Oct-2000		
Ref	Desc & Max Spec	Aux Desc	Source
<u>Caps less than 1uF are ceramic, Caps 1uF and greater are electrolytic</u>			
Note: Vendors and Order Codes are representative, other parts may be used			
c1	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c2	470uF/25v/+80-20%	Pana ECE-A1EU471	Digi-Key
c3	10uF/10v/+80-10%	Pana ECE-A1VU100	Digi-Key
c4	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c5	10uF/10v/+80-20%	Pana ECE-A1VU100	Digi-Key
c6	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c7	0.47uF/10v/+80-20%	Pana ECQ-V1H474JL	Digi-Key
c8	10uF/10v/+80-20%	Pana ECU-S1J473MEB	Digi-Key
c9	1uF/10v/+20%	Pana ECE-A1HU010	Digi-Key
c10	1uF/6v tant/+80-20%	Pana ECS-F1CE105K	Digi-Key
c11	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c12	22pf/10v/+20%	Pana ECU-S2A220JCA	Digi-Key
c13	22pf/10v/+20%	Pana ECU-S2A220JCA	Digi-Key
c14	8-50pf/12v	Sprague-Goodman GKG50011	Digi-Key
c15	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c16	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c17	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c18	8-50pf/12v	Sprague-Goodman GKG50011	Digi-Key
c19	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c20	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c21	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c22	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c23	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c24	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c25	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c26	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c27	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c28	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c29	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c30	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c31	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
c32	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco
<u>Diodes</u>			
Note: Vendors and Order Codes are representative, other parts may be used			
d1	1n4002	GenInstrument 1N4002	Digi-Key
d2	1n4002	GenInstrument 1N4002	Digi-Key
d3	1n5235	ITT 1n5235b	Digi-Key
d4	1n4148	DiodesInc 1n4148	Digi-Key
d5	1n4148	DiodesInc 1n4148	Digi-Key
d6	1n4148	DiodesInc 1n4148	Digi-Key
d7	1n4148	DiodesInc 1n4148	Digi-Key
d8	1n270	Jameco 35941 (*)	Jameco
d9	1n270	Jameco 35941 (*)	Jameco
	* - incoming inspection required, see Paul Newland for simple test fixture		
	Paul is willing to do inspection function		
ds1	red T-1 led	LiteOn LT1078	Digi-Key

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Headers			
	NOTE: All headers are single row in-line (100 mill centers)		
	NOTE: Vendors and Order Codes are representative, other parts may be used		
	NOTE: May want to get large set of pins and have builder cut into proper lengths		
h1	3 pin header	25mil square posts on 100mil centers	
h2	3 pin header	25mil square posts on 100mil centers	
h3	3 pin header	25mil square posts on 100mil centers	
h4	3 pin header	25mil square posts on 100mil centers	
h5	6 pin header	25mil square posts on 100mil centers	
h6	3 pin header	25mil square posts on 100mil centers	
h7	3 pin header	25mil square posts on 100mil centers	
h8	3 pin header	25mil square posts on 100mil centers	
h9	3 pin header	25mil square posts on 100mil centers	
h10	3 pin header	25mil square posts on 100mil centers	
h11	3 pin header	25mil square posts on 100mil centers	
h12	3 pin header	25mil square posts on 100mil centers	
h13	8 pin header	25mil square posts on 100mil centers	
h14	2x25 pin header	Jameco 53559 Prod # 923866R	Jameco
h15	2x17 pin header	Jameco ????? Prod # ?????	Jameco
h16	2x10 pin header	Jameco 53479 Prod # 923862R	Jameco
h17	4 pin screw header	On Shore ED1609 (2 pieces)	Digi-Key
h18	2 pin header	25mil square posts on 100mil centers	
h19	2 pin header	25mil square posts on 100mil centers	
h20	2 pin header	25mil square posts on 100mil centers	
h21	2 pin header	25mil square posts on 100mil centers	
h22	2 pin header	25mil square posts on 100mil centers	
h23	2 pin header	25mil square posts on 100mil centers	
All ICs are plastic DIP			
ic1	8032 or equivalent	Dallas 8032 CPU	Jameco
ic2	74hc08	quad and gate	Jameco
ic3	74hc373	octal latch	Jameco
ic4	27c256-150	eprom	Jameco
ic5	43256-15LP	ram	Jameco
ic6	43256-15LP	ram	Jameco
ic7	74hc4066	analog switch	Jameco
ic8	74hc14	hex schmitt inverter	Jameco
ic9	pcf8583	time of day clock	Philips Dist
ic10	pcf8582	eprom	Philips Dist
ic11	pal16L8	pal for address decoding	Jameco
ic12	74hc139	decoder for addressing	Jameco
ic13	82c55	parallel io	Jameco
ic14	2595	Allegro octal oc driver	Distributor
ic15	82c55	parallel io	Jameco
ic16	74hc14	hex schmitt inverter	Jameco
All transistors are TO-92 plastic			
q1	2n3904	npn transistor	Jameco

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All resistors are 1/4 watt, 5%, carbon film unless otherwise noted			
r1	1 k		
r2	10 k		
r3	10 k		
r4	10 k		
r5	100 k		
r6	100		
r7	1 M		
r8	100 k		
r9	10 k		
r10	1 M		
r11	1 k		
r12	10 k		
r13	10 k		
r14	10 k		
r15	100		
r16	10 k		
r17	100 k		
r18	470		
rs1	10k, 9pin/8res sip	Bourns 4610x-101-103	Digi-Key
rs2	10k, 9pin/8res sip	Bourns 4610x-101-103	Digi-Key
rs3	10k, 9pin/8res sip	Bourns 4610x-101-103	Digi-Key
IC Sockets			
sk1	40p, 600mil socket	Assmann A40-LC-TT	Digi-Key
sk2	14p, 300mil socket	Assmann A14-LC-TT	Digi-Key
sk3	14p, 300mil socket	Assmann A14-LC-TT	Digi-Key
sk4	28p, 600mil socket	Assmann A28-LC-TT	Digi-Key
sk5	28p, 600mil socket	Assmann A28-LC-TT	Digi-Key
sk6	28p, 600mil socket	Assmann A28-LC-TT	Digi-Key
sk7	14p, 300mil socket	Assmann A14-LC-TT	Digi-Key
sk8	14p, 300mil socket	Assmann A14-LC-TT	Digi-Key
sk9	8p, 300mil socket	Assmann A08-LC-TT	Digi-Key
sk10	8p, 300mil socket	Assmann A08-LC-TT	Digi-Key
sk11	20p, 300mil socket	Assmann A20-LC-TT	Digi-Key
sk12	16p, 300mil socket	Assmann A16-LC-TT	Digi-Key
sk13	40p, 600mil socket	Assmann A40-LC-TT	Digi-Key
sk14	18p, 300mil socket	Assmann A18-LC-TT	Digi-Key
sk15	40p, 600mil socket	Assmann A40-LC-TT	Digi-Key
sk16	14p, 300mil socket	Assmann A14-LC-TT	Digi-Key
vr1	LM7805	National LM7805	Jameco
y1	11.0592 MHz / 32pf Parall	ECS Inc., ECS-110.5-32-1	Digi-Key
y2	32,768 MHz / 12.5pf Par	ECS Inc., ECS-3x8	Digi-Key
z1	pc board		
z2	batt hoder, 2032 3v cells	Digi-Key BH800-ND	Digi-Key
z3	battery, 2032 lith or silver	Eveready 2032, Mouser 525-E-CR2032BP	
z4	17 shorting blocks	Jameco 22023, open top black	Jameco