

		Metcon-2 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	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c3	470uF/25v/+80-20%	Pana ECE-A1EU471	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	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c8	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c9	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c10	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c11	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c12	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c13	1uF/6v tant/+80-20%	Pana ECS-F1CE105K	Digi-Key		
c14	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c15	33pf/10v/+20%	Pana ECU-S2A330JCA	Digi-Key		
c16	33pf/10v/+20%	Pana ECU-S2A330JCA	Digi-Key		
c17	33pf/10v/+20%	Pana ECU-S2A330JCA	Digi-Key		
c18	33pf/10v/+20%	Pana ECU-S2A330JCA	Digi-Key		
c19	33pf/10v/+20%	Pana ECU-S2A330JCA	Digi-Key		
c20	33pf/10v/+20%	Pana ECU-S2A330JCA	Digi-Key		
c21	33pf/10v/+20%	Pana ECU-S2A330JCA	Digi-Key		
c22	33pf/10v/+20%	Pana ECU-S2A330JCA	Digi-Key		
c23	1uF/25V/+20%	Pana ECE-A1HU010	Digi-Key		
c24	1uF/25V/+20%	Pana ECE-A1HU010	Digi-Key		
c25	1uF/25V/+20%	Pana ECE-A1HU010	Digi-Key		
c26	1uF/25V/+20%	Pana ECE-A1HU010	Digi-Key		
c27	1uF/25V/+20%	Pana ECE-A1HU010	Digi-Key		
c28	1uF/25V/+20%	Pana ECE-A1HU010	Digi-Key		
c29	1uF/25V/+20%	Pana ECE-A1HU010	Digi-Key		
c30	1uF/25V/+20%	Pana ECE-A1HU010	Digi-Key		
c31	0.1uF/25v/+80-20%	Pana ECU-S1J104MEA	Jameco		
c32	10uF/10v/+80-20%	Pana ECE-A1VU100	Digi-Key		
c33*	1uF/6v tant/+80-20%	Pana ECS-F1CE105K	Digi-Key		
* schematic says 10uF, I will change schematic to show 1uF, this is same tant used at C13 and on TUC52 board					
<u>Diodes</u>					
Note: Vendors and Order Codes are representative, other parts may be used					
d1	1n4002	GenInstrument 1N4002	Digi-Key		
d2	1n4148	DiodesInc 1n4148	Digi-Key		
d3	1n4148	DiodesInc 1n4148	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	1n4148	DiodesInc 1n4148	Digi-Key		
d9	1n4148	DiodesInc 1n4148	Digi-Key		
ds1	red T-1 led	LiteOn LT1078	Digi-Key		

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<b>Headers</b>							
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	2 pin header	25mil square posts on 100mil centers					
h2	2 pin header	25mil square posts on 100mil centers					
h3	2 pin header	25mil square posts on 100mil centers					
h4	2 pin header	25mil square posts on 100mil centers					
h5	2x25 pin header	Jameco 53559 Prod # 923866R	Jameco				
h6	2 pin header	25mil square posts on 100mil centers					
h7	2 pin header	25mil square posts on 100mil centers					
h8	3 pin header	25mil square posts on 100mil centers					
h9	2x5 pin header	Jameco 67820 Prod # 923810R	Jameco				
h10	2x5 pin header	Jameco 67820 Prod # 923810R	Jameco				
h11	2 pin header	25mil square posts on 100mil centers					
h12	3 pin header	25mil square posts on 100mil centers					
h13	2 pin header	25mil square posts on 100mil centers					
h14	2 pin header	25mil square posts on 100mil centers					
h15	2 pin header	25mil square posts on 100mil centers					
h16	2 pin header	25mil square posts on 100mil centers					
<b>All ICs are plastic DIP</b>							
ic1	74hc14	hex schmitt inverter	Jameco				
ic2	74hc14	hex schmitt inverter	Jameco				
ic3	74hc14	hex schmitt inverter	Jameco				
ic4	74hc151	8 to 1 multiplexer	Digi-Key				
ic5	max232	rs-232 transceiver	Jameco				
ic6	max232	rs-232 transceiver	Jameco				
ic7	75176	rs-485 transceiver	Jameco				
ic8	lm358	dual op-amp	Jameco				
<b>Jack</b>							
j1	2.1 mm coax power jack	Mouser 163-5013	Mouser				
<b>Relay</b>							
k1	Omron G6HK-2DC12	latching relay	Digi-Key				
<b>Inductor</b>							
L1	Miller 5800-101	100 uH, 632 mA max	Digi-Key				
<b>All transistors are TO-92 plastic</b>							
q1	2n3904	nnp transistor	Jameco				
q2	2n3904	nnp transistor	Jameco				
q3	2n3906	pnp transistor	Jameco				

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All resistors are 1/4 watt, 5%, carbon film unless otherwise noted					
r1	470 k				
r2	100 k				
r3	10 k				
r4	10 k				
r5	1 M				
r6	2.2 M				
r7	100 k				
r8	470 k				
r9	100 k				
r10	10 k				
r11	10 k				
r12	100 k				
r13	100 k				
r14	100 k				
r15	100 k				
r16	100 k				
r17	100 k				
r18	100 k				
r19	100 k				
r20	10 k				
r21	10 k				
r22	10 k				
r23	1 k				
r24	100				
r25	100 k				
r26	470 k				
r27	100 k				
r28	10 k				
r29	470 k				
r30	100 k				
r31	1 k				
r32	470 k				
r33	470				
rs1	2.2k, 9pin/8res sip	Bourns 4610x-101-222	Digi-Key		
IC Sockets					
sk1	14p, 300mil socket	Assmann A14-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	16p, 300mil socket	Assmann A16-LC-TT	Digi-Key		
sk5	16p, 300mil socket	Assmann A16-LC-TT	Digi-Key		
sk6	16p, 300mil socket	Assmann A16-LC-TT	Digi-Key		
sk7	8p, 300mil socket	Assmann A08-LC-TT	Digi-Key		
sk8	8p, 300mil socket	Assmann A08-LC-TT	Digi-Key		
tb1	2 pin screw header	On Shore ED1609 (1 pieces)	Digi-Key		
tb2	4 pin screw header	On Shore ED1609 (2 pieces)	Digi-Key		
tb3	10 pin screw header	On Shore ED1609 (5 pieces)	Digi-Key		
tb4	10 pin screw header	On Shore ED1609 (5 pieces)	Digi-Key		
tb5	9 pin screw header	On Shore ED1610 (3 pieces)	Digi-Key		
tb6	4 pin screw header	On Shore ED1609 (2 pieces)	Digi-Key		
tb7	3 pin screw header	On Shore ED1610 (1 pieces)	Digi-Key		
tb8	9 pin screw header	On Shore ED1610 (3 pieces)	Digi-Key		
z1	pc board				
z4	4 shorting blocks	Jameco 22023, open top black	Jameco		