

Sheet1

Megasquirt - BOM - Board Version 2.2 - B. A. Bowling & A. C. Grippo - Revised Dec 2002

Item	Quantity	Reference	Part	Markings
1	10	C1,C3,C17,C18,C22,C25, C26,C27,C28,C29	0.1	"104K" or "0.1"
2	3	C2,C4,C10	0.22	"224K" or "0.22"
3	5	C5,C7,C9,C12,C14	0.001	"102K" or "0.001"
4	2	C6,C8	1	"105K" or "1.0"
6	2	C11,C20	0.01	"103K" or "0.01"
7	2	C15,C16	33	"33" or "33 uf"
9	1	C19	0.033	"333K" or 0.033"
11	2	C21,C30	4.7	"4.7" or "4.7 uf"
12	1	C23	50 pf	"50" or "47"
13	1	C24	20 pf	"20" or "22"
14	6	D1,D2,D3,D4,D8,D11	5.1V Zener Diode	1N4733 - small glass case w/ two leads
15	9	D5,D7,D9,D12,D13,D14,D20,D22,D23	1N4001	1N4001 - Big, black axial unit w/ two leads
16	1	D21	36V Zener Diode	1N4753 Zener Diode
17	1	D15	22V 1W (or 24V 1W) Zener	1N4749 or 1N4748- small glass
18	1	D16	12V 1W Zener	1N4742 - small glass
19	3	D17,D18,D19	LED	T1-3/4 case
20	2	L1,L2	1uh	Small coil of wire wrapped around a ferrite core
21	1	P1	Connector DB9-Female	9-pin PCB Mount
22	1	P2	Connector DB37-Male	37-pin PCB Mount
23	5	Q3,Q5,Q9,Q10,Q11	2N2222A	2N2222A
24	2	Q2,Q7	IRFIZ3FN	"IRFZ34N" or "IRFIZ34N"
25	1	Q1	TIP42A	TIP42A[B or C] or equivalent PNP (TIP32C, NTE332)
26	8	R1,R2,R9,R13,R16,R25,R26,R28	1K	Brown-Black-Red
27	1	R3	50K	Yellow-White-White-Red-Brown
28	2	R4,R7	2.49K - 1%	Red-Yellow-White-Brown-Brown
29	2	R5,R8	2.2K	Red-Red-Red
30	5	R6,R14,R20,R30,R31	10K	Brown-Black-Orange
31	3	R23,R24,R27	330	Orange-Orange-Brown
31	1	R10	390, 1/2 Watt	Orange-White-Brown
32	1	R11	4.7K	Yellow-Violet-Red
33	2	R12,R17	22 Ohm	Red-Red-Black
35	1	R21	100K	Brown-Black-Yellow

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36	1 R22	10M (or use 1M in place)	Brown-Black-Blue
37	1 R29	1M	Red-Black-Black-Yellow-Red
38	1 R32	270	Red-Violet-Brown
39	1 U1	68HC908GP32	Processor - 40-Pin DIP package
40	1 U3	MPX4250AP	Pressure Transducer (oval unit w/ vacuum port)
41	1 U4	4N25 Optoisolator	6-pin DIP
42	1 U5	LM2937ET-5.0 Regulator	3-PIN TO-220
43	1 U6	MAX232CPE	16-pin DIP - Serial Level Translator
44	1 U7	MC33151P Fet Driver	8-Pin DIP
45	1 Y1	32.768 KHz Crystal	2-lead cylinder (very small)
46	1 40-pin DIP Socket		
47	1 DB37 Plug Female		
48	1 DB37 Hood		
49	6 Nylon Screws 4-40		
50	6 Nylon Nuts		
51	1 Printed Circuit Board		
52	1 Case	EAS-300 (LMB)	