

Bill of Materials for:
D:\MAGARTCL\KP0000\KP0000.BOM

Line Reference	Number of parts	Component value	Part name	Reference Designator
1	1	10u	Electrolytic Capacitor	C101
2	1	100n	Mylar Capacitor	C102
3	1	1N5231-grn	5 volt zener diode	D101
4	2	1N4148	Silicon diode	D102,D104
5	1	Red	Red Light Emitting Diode	D103
6	2	10A	Fuse	F101
7	3		Incandescent Bulb (test)	I101,I102
8	1	See text	12 volt relay	K101
9	1	Not used		
10	1	2N2222a	NPN silicon transistor	Q101
11	2	4.7K	1/4w 5% resistor	R101,R105
12	1	1.0K	Variable resistor	R102
13	1	See text	1/4w 5% resistor	R103
14	2	1.0K	1/4w 5% resistor	R104,R110
15	1	10K	1/4w 5% resistor	R106
16	1	2.2K	1/4w 5% resistor	R107
17	2	100K	1/4w 5% resistor	R108,R109
18	1	See text	1/4w 5% resistor	R111
19	1		switch	S101
20	1	Not used		
21	1	LM358	Integrated circuit	U101
			The usual miscellaneous chassis, nuts, bolts, wire, and such.	

1	1	10u	C-5d-LS2-EL	C101
2	1	100n	C-5/11-LS8-MY	C102
3	1	1N5231-grn	DO-35A	D101
4	2	1N4148	DO-35A	D102,D104
5	1	Red	T1t	D103
6	2	10A	FUSE	F101,F101
7	3			I101,I101,I102
8	1	1P2T-G5V	K-g5v-1	K101
9	1	100.0Meg		MM0
10	1	2N2222a	TO-92A	Q101
11	2	4.7K	R-3/9-LS9	R101,R105
12	1	1.0K	RV-10-H-H	R102
13	1	*	R-3/9-LS9	R103
14	2	1.0K	R-3/9-LS9	R104,R110
15	1	10K	R-3/9-LS9	R106
16	1	2.2K	R-3/9-LS9	R107
17	2	100K	R-3/9-LS9	R108,R109
18	1	560	R-3/9-LS9	R111
19	1		SIP2	S101
20	1			U1
21	1	LM358		U101
22	1	6 volts		V1

23	1	10V		Vs1
24	3			ZZ1,ZZ2,ZZ101