



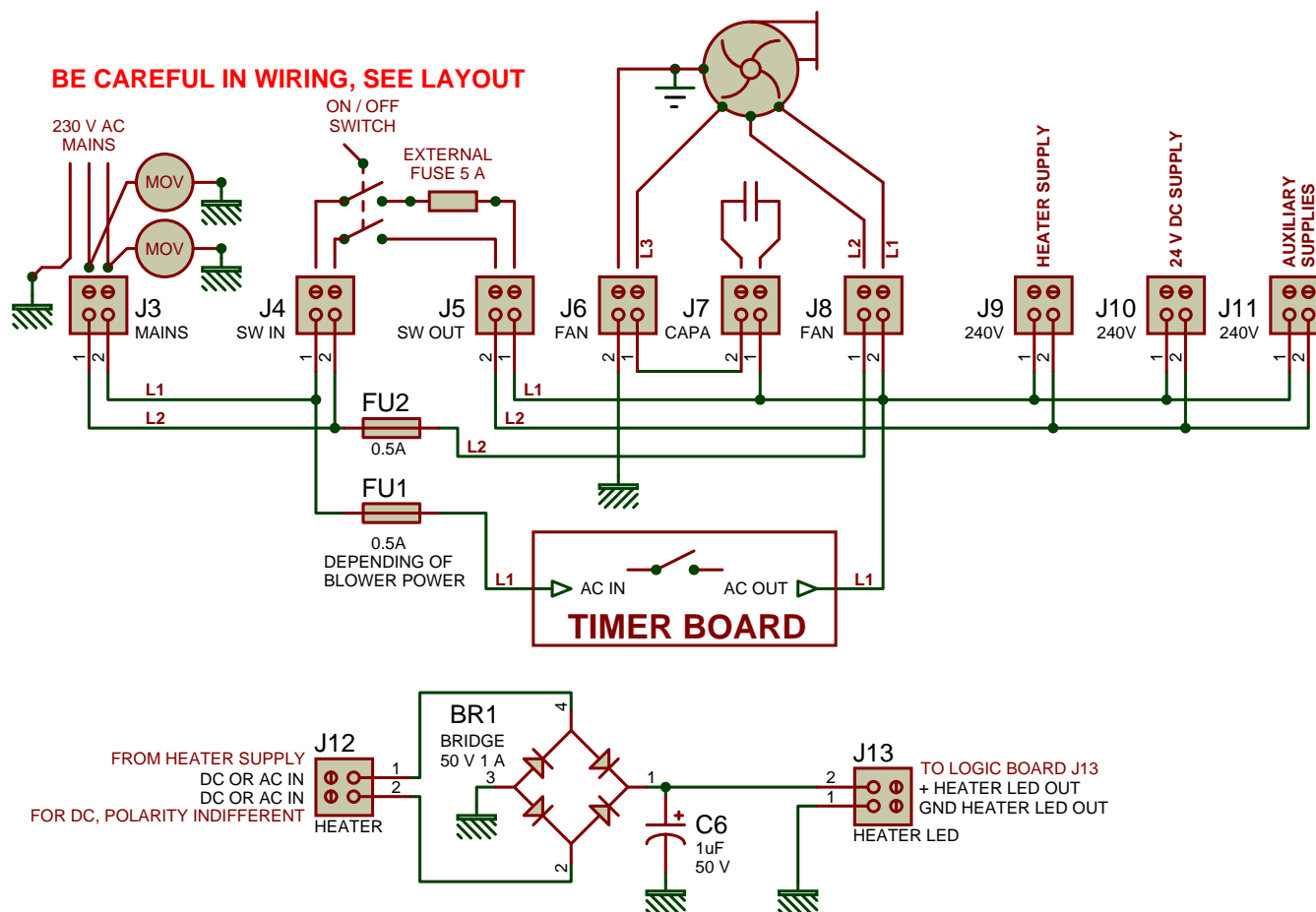
FOR DIFFERENT TIMING CALCULATIONS YOU CAN SEE EXCEL SHEET: Timer T=RC.xls

**NOTA. USE ZVN4206 (BEST CHOICE),
OR EQUIVALENT, ABLE TO SWITCH
SAFELY 125 mA UNDER 5 V.
ZVN4206 HAS SAME PINOUT AS 2N7000**

LINEAR AMPLIFIER DESIGN SUITE

Rev1: R3 = 10k

DATE:23/10/16 REV: 1 PAGE: 1/2
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DOC N°: Amateur Radio



BILL OF MATERIALS

Design: 13.8 V BLOWER DELAYED STOP TIMER

Revision: 1

Author: f1frv@sfr.fr

Modified: 23/10/16

QTY	PART-REFS	VALUE	PACKAGE
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Resistors

1	R1	560k	RES40
4	R2,R3,R4,R5	10k	RES40
1	R6	56	RES 1 W
1	R7	NOT USED	RES40
1	R8	5.6M	RES40
1	Rx	22	RES 1 W

Capacitors

3	C1,C2,C5	220uF	ELEC-RA13
1	C3	47000uF to 68000uF	ELEC-RA40 DIA30 or 35
1	C4	100nF	CAP10+20
1	C6	1uF	ELEC-RA10

Integrated Circuits

1	U1	LM393	DIL08
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Transistors

2	Q1,Q2	ZVN4206	E LINE
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Diodes

5	D1,D2,D3,D4,Dx	1N4007	DO41
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Diodes Zener

1	DZ1	BZX79C9V1	DO35
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Pins and connectors

13 J1 – J13 CONN-VIS2

Miscellaneous

1 BR1	BRIDGE	BRIDGE 1 A
2 FU1,FU2	0.5A	FUS 5x20
1 RL1	BISTABLE RELAY 5 V	2 COILS