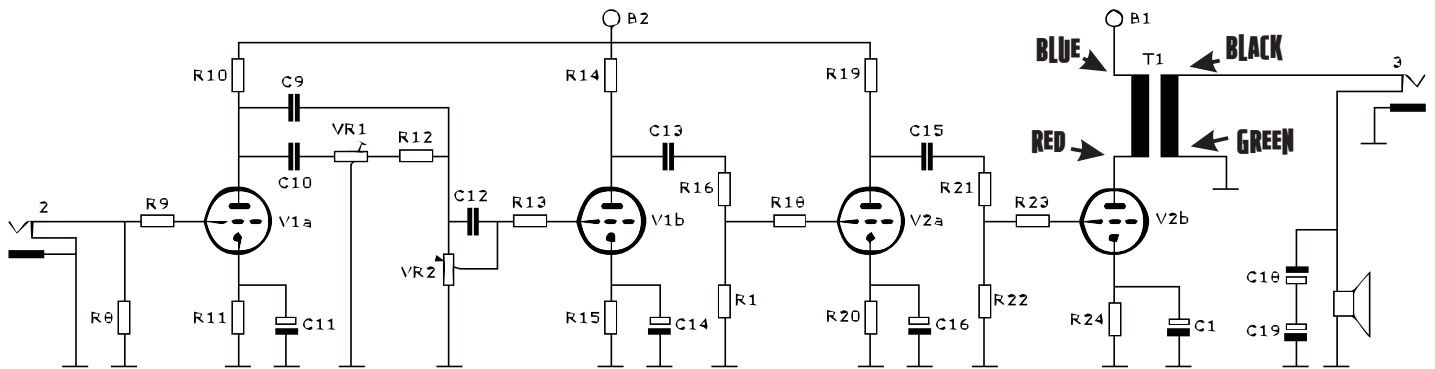


SUB-MINIATURE CLASS A AMPLIFIER

BASED ON A MARSHALL 18W WITH ADDITIONAL GAIN STAGE.

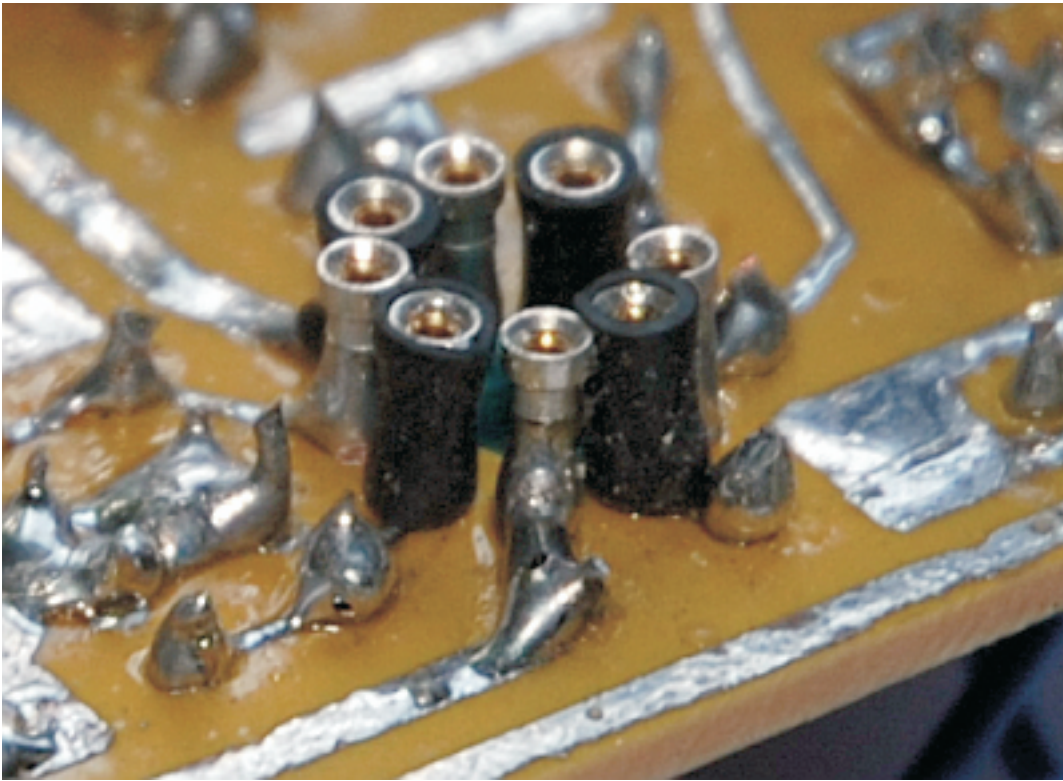
JJS ELECTRONICS.

SCHEMATICS:



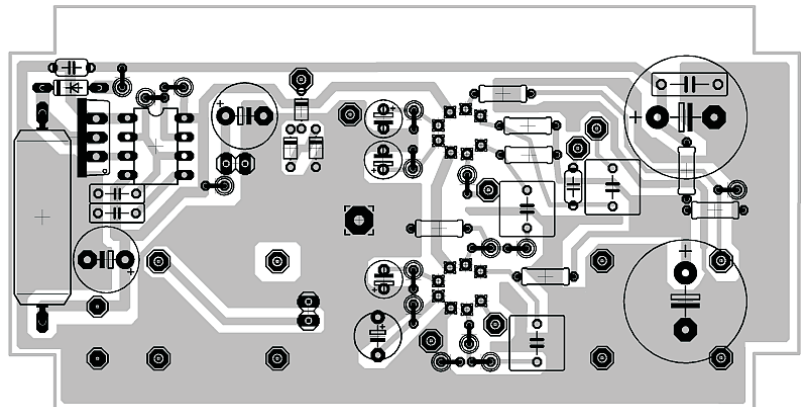
R8	1M	R18	39k	C9	4n7 500 V ceramic	C18	22uF 16 V electrolytic
R9	68k	R19	100k	C10	10n 630 V film	C19	22uF 16 V electrolytic
R10	100k	R20	680R	C11	1u 16 V electrolytic	V1	6021 dual-triode
R11	750R	R21	100k	C12	330p 500 V ceramic	V2	6021 dual-triode
R12	100k	R22	350k	C13	10n 630 V film	T1	Fender reverb transformer #22921
R13	68k	R23	12k	C14	4u7 16 V electrolytic	J2	mono audio jack
R14	100k	R24	820R	C15	10n 630V film	J3	mono audio jack
R15	1k			C16	2u2 16 V electrolytic		
R16	270k	VR1	500k log	C17	100u 16 V electrolytic		
R17	270k	VR2	500k log				



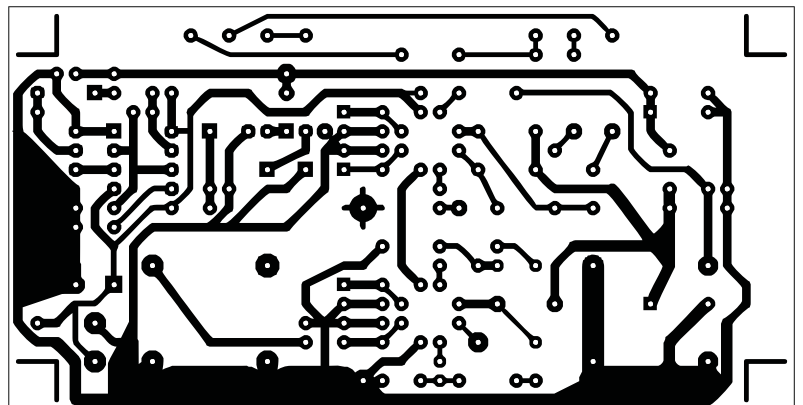


BIG SCREEN OF TUBE SOCKET

LAYOUT BY JJS :
(WITHOUT POTENCIOMETER)



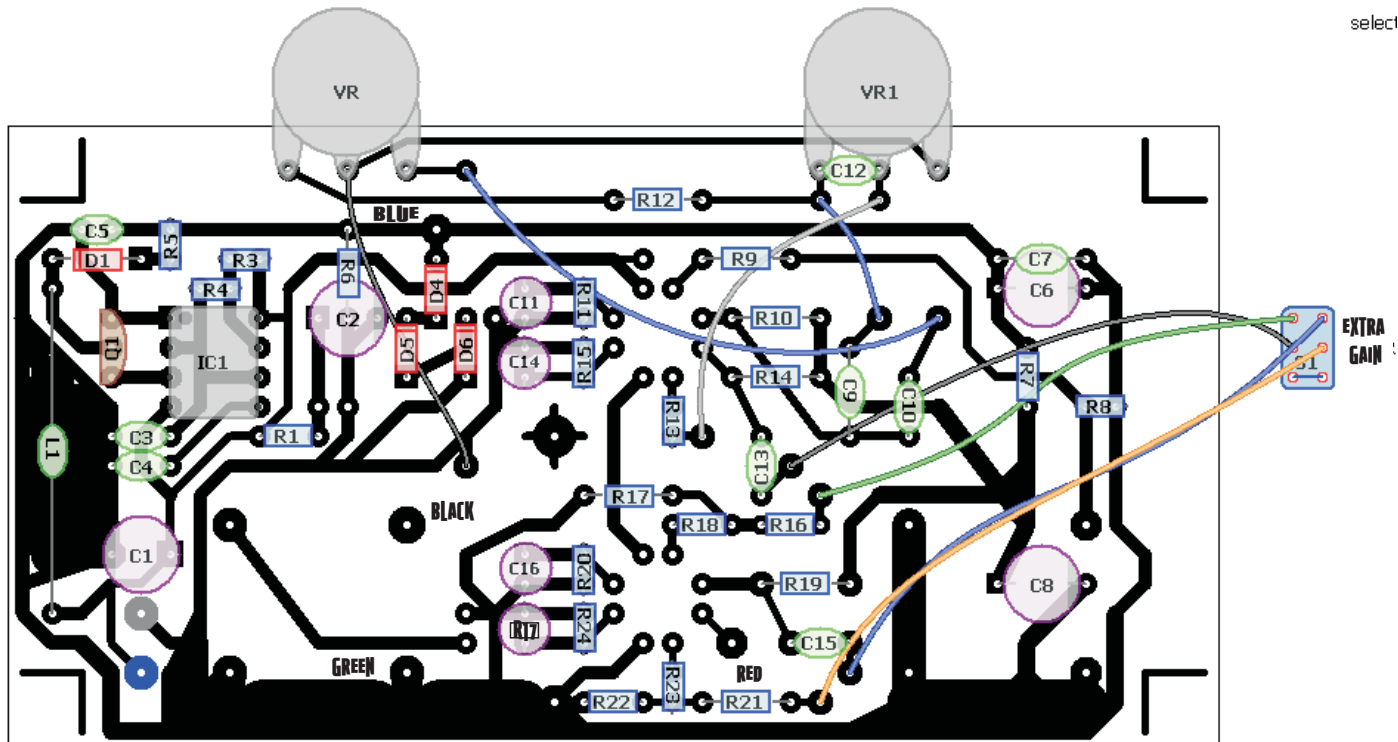
LAYOUT BY DR. MALIGNO :



MINI AMP CLASS A

JJS ELECTRONICS

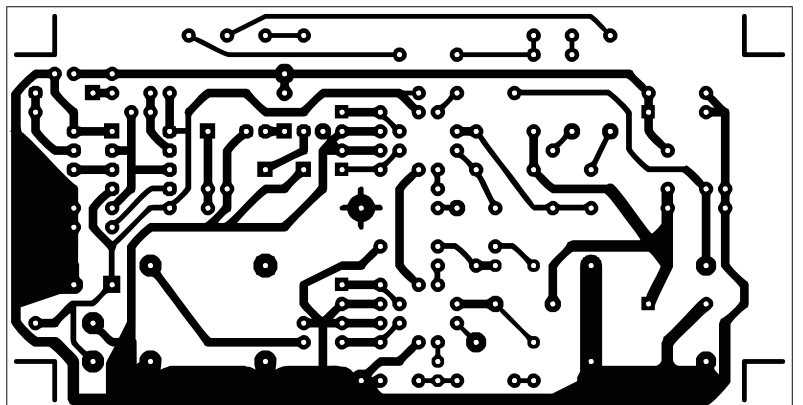
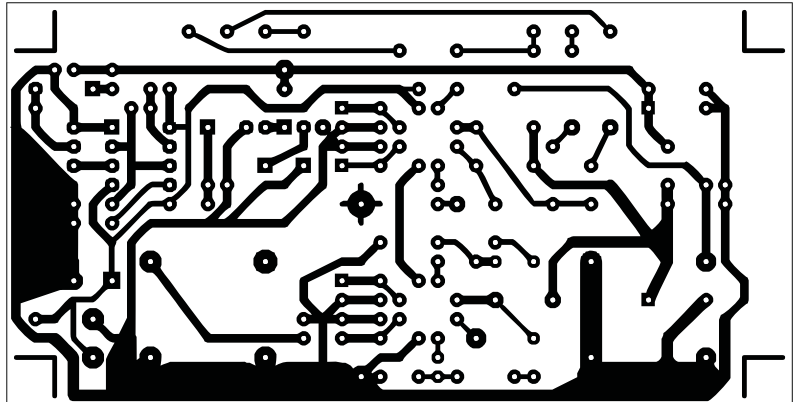
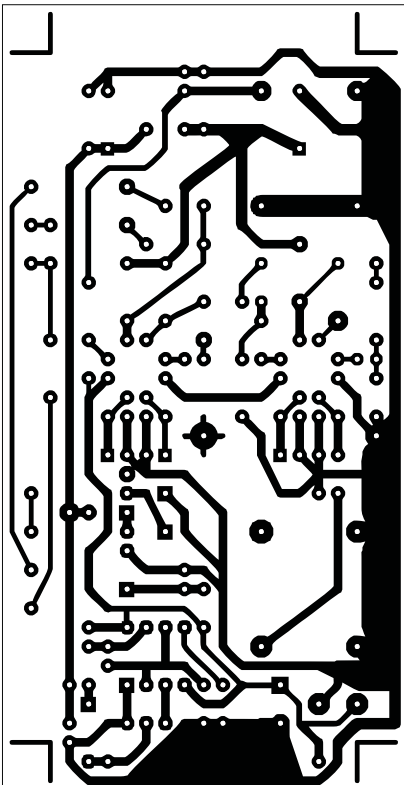
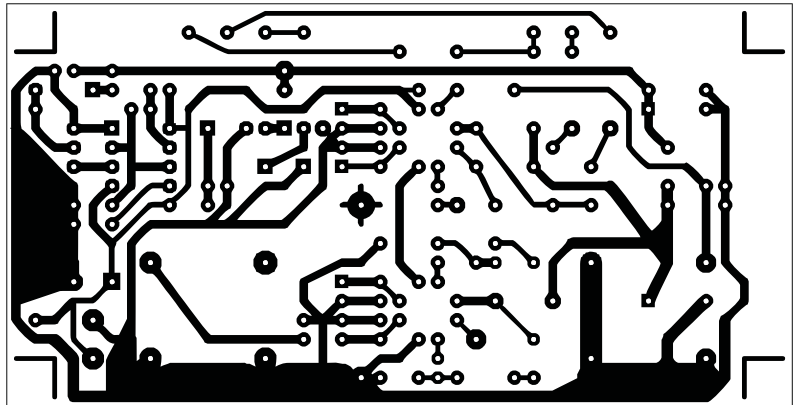
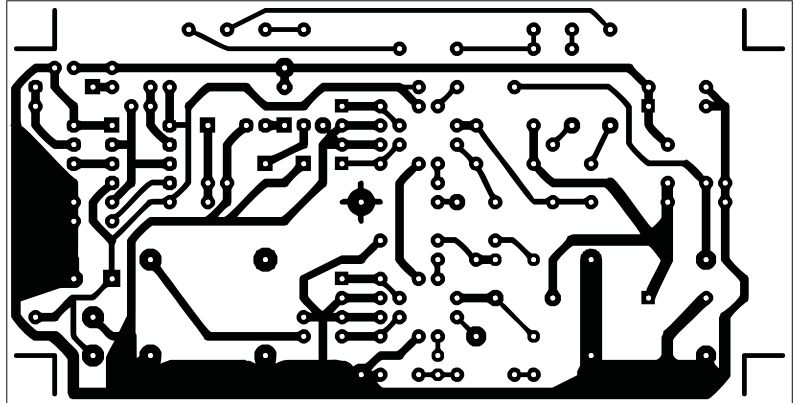
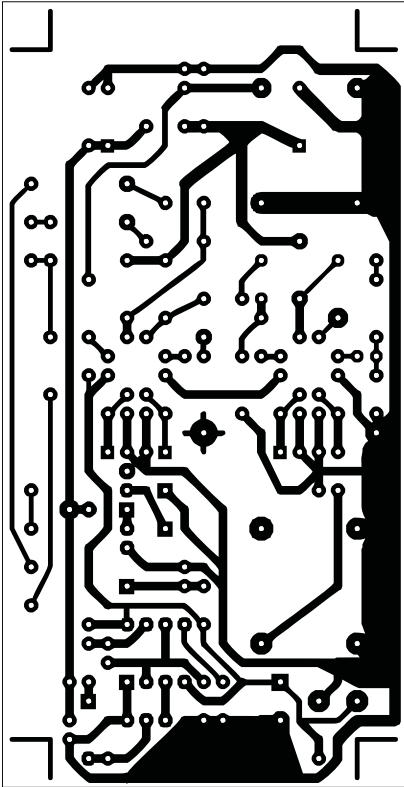
select



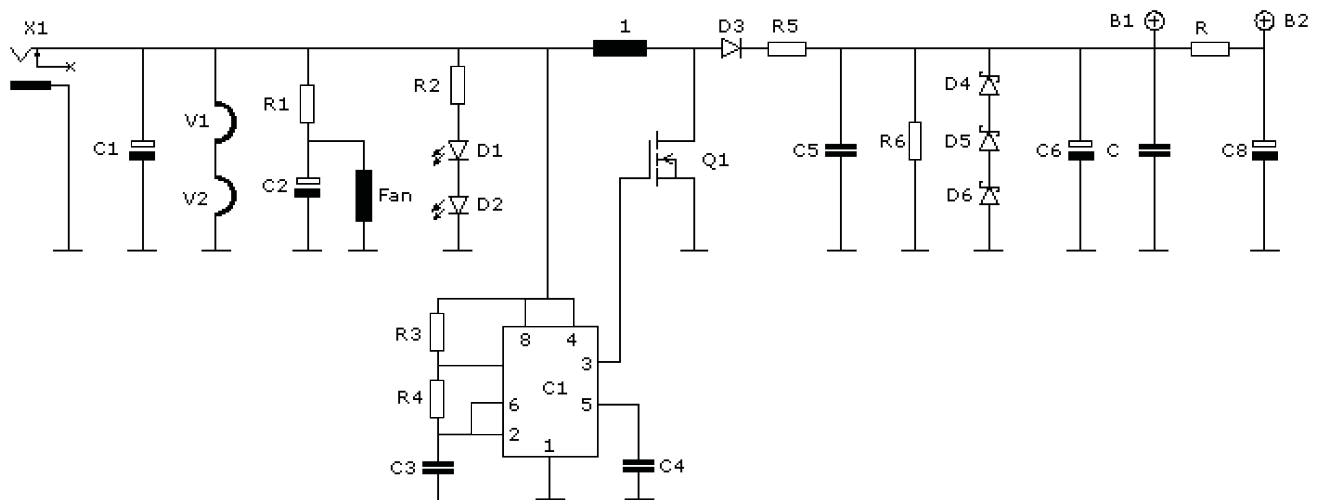
R1: 120R	L1: 3300u 0.5A	IC1: NE555
R3: 39K	C1: 1000uF 25v	Q1: IRF740
R4: 2.2K	C2: 1000uF	D1: UF4004
R5: 50R/2W	C3: CERAMIC 330pF	D4: 100v 1.3w zener
R6: 270K	C4: CERAMIC 10nF	D5: 100v 1.3w zener
R7: 8k2	C5: 1n/500	D6: 75v 1.3 zener
R8: 1M	C6: 22n/350v	VR1: 500K Audio
R11: 750R	C7: 22n/630v	VR: 500K Audio
R15: 1K	C8: 22u/350v	
R9: 68K	C11: 1u/16v	
R20: 680R	C14: 4u7/16v	
R24: 820R	C16: 2u2/16v	
R10: 100k	R17: 100u/16v nF	
R14: 100K	C9: 4n7/500 cer	
R13: 68K	C10: 10n/630v	
R19: 100K	C13: 10n/630v film	
R18: 39K	C15: 10nF	
R17: 270K	C12: 330p/500v cer	
R16: 270K		
R23: 12K		
R21: 100K		
R22: 350K		
R12: 100K		

Created with freeware DIY Layout Creator by Storm Software
<http://www.storm-software.co.yu/diy/>

MULTIPLE LAYOUT:



POWER SUPPLY :



R1 120R	C1 1000u 25 V electrolytic	D1 blue 3 mm LED	L1 3300u 0.5A rf suppression coil
R2 470R	C2 1000u 25 V electrolytic	D2 blue 3 mm LED	Q1 IRF740
R3 39k	C3 330p mica	D3 UF4004	IC1 NE555
R4 2k2	C4 10n ceramic	D4 100 V 1.3 W zener	J1 DC plug
R5 50R 2 W	C5 1n 500 V ceramic	D5 100 V 1.3 W zener	Fan 25x25 mm 5 V brushless DC fan
R6 270k	C6 22u 350 V electrolytic	D6 75 V 1.3 W zener	
R7 8k2	C7 22n 630 V film		
	C8 22u 350 V electrolytic		

