

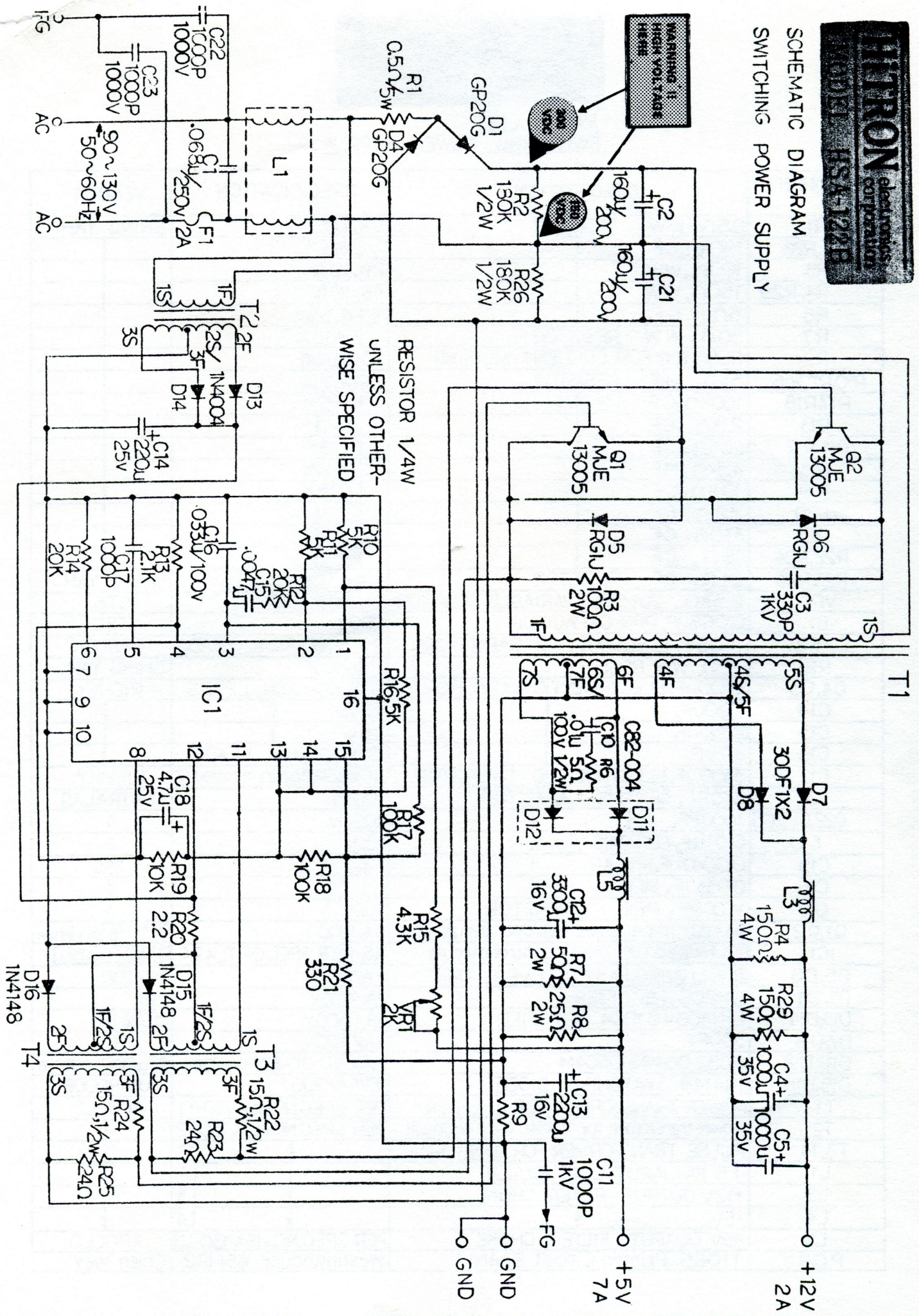
There were three main modifications on circuit of HSA-122B, which are being itemized as follows:

- ITEM 1) L5 was 165uH  $\pm 10\%$ , now 135uH  $\pm 10\%$  centering better for 7 ampers operation.
- ITEM 2) Changed snubbers of D11 and D12 to be noise absorption circuit. (which is C10 & R6 in attached schematic).
- ITEM 3) Added one ceramic capacitor 330PF/1KV, which will have component designation of C11 on Hitron 11065 revising P.C. Board, to conduct high-frequency noise into field ground and thus attenuate ripple.





# SCHEMATIC DIAGRAM SWITCHING POWER SUPPLY





PARTS LIST  
SWITCHING POWER SUPPLY

COMPONENT NO	DESCRIPTION	SPECIFICATION	VENDOR
R1	0.5Ω, WW RESISTOR	5w,10%	SHING YAH
R2,R26	180kΩ,CF	1/2w,5%	
R3	100Ω, WW	2w,10%	
R4, R29	150Ω, WW	4w,10%	
R6	5Ω, CF	1/2w,5%	
R7	50Ω, WW RESISTOR	2w,10%	
R9	RESISTOR FOR CURRENT SENSING	1.0Φ, 8cm	
R10,R11,R16	5kΩ, MF RESISTOR	1/4w,2%	
R17,R18	100kΩ,CF	5%	
R13	2.1kΩ, CF	5%	
R14,R12	20kΩ, CF	5%	
R15	4.3kΩ, MF	2%	
R19	10kΩ, CF	5%	
R20	2.2Ω, CF		
R21	330Ω, CF		
R22,R24	15Ω, CF		
R23,R25	24Ω, CF RESISTOR	1/4w,5%	SHING YAH
VR1	2.5kΩ, 20V/375S VARIABLE RESISTOR	1w,20% CERMET	CTS
C1	0.068uF, PPN CAPACITOR	250v	TSC
C2,C21	160uF, ELECTROLYTIC CAPACITOR	200v, CO-AXIAL LEADS	MARCON
R8	25Ω, WW RESISTOR	2w,10%	SHING YAH
C4,C5	1000uF, ELECTROLYTIC CAPACITOR	35v, CO-AXIAL LEADS	RICHEY
C14	220uF,	25v;	
C13	2200uF,	16v,	
C18	4.7uF,	25v, CO-AXIAL LEADS	
C12	3300uF, ELECTROLYTIC CAPACITOR	16v, ESR 0.025Ω max @ 1KHZ	RICHEY
C3	330PF, CERAMIC CAPACITOR	1000v	CENTRALAB
C22,C23,C11	1000PF,	1000v	;
C10	0.01uF, CERAMIC	100v	;
C15	0.0047uF, MYLAR		TSC
C16	0.033uF, MEF		;
C17	1000PF, PEE CAPACITOR	100v	;
Q1,Q2	2N3055/2N2502, switching power transistor	4A/400v	Motorola/shindengen
IC1	TL494 (MB3759), PWM control circuit	AS PER SPEC OF TL494	TI/Fujitsu
D5, D6	1N4148, FAST RECOVERY, DIODE	1A/600v	GI/IR
D1, D4	GP20G, RECTIFIER	2A/400v	GI
D13, D14	1N4004, 10D4 RECTIFIER	1A/600v	GI/IR
D7, D8	30DF1	1A/100v	IR
D11/D12	C82-0040S10SC4M	8A/40v, TO-220 Package	Fuji/shindengen
D15, D16	1N4148 SWITCHING DIODE	15mA/100v	UNIRRODE
T1	POWER TRANSFORMER FOR INVERTER	PER SPEC. NO. HSA-230-T1	APOLLO
T2	Power transformer for TL494C control circuit	PER SPEC. NO. HSA-130-T2	
T3, T4	PULSE TRANSFORMER FOR BASE DRIVE		T3
L1	1.6 mH, INPUT LINE FILTER		L1
L3	+12V OUTPUT FILTER CHOKE		L3
L4	-5V		L4
L5	+5V OUTPUT FILTER CHOKE	PER SPEC. NO. HSA-130-L5	APOLLO
P.C.B	11065 Printed Circuit Board	Westinghouse 65M62	Chien Wey