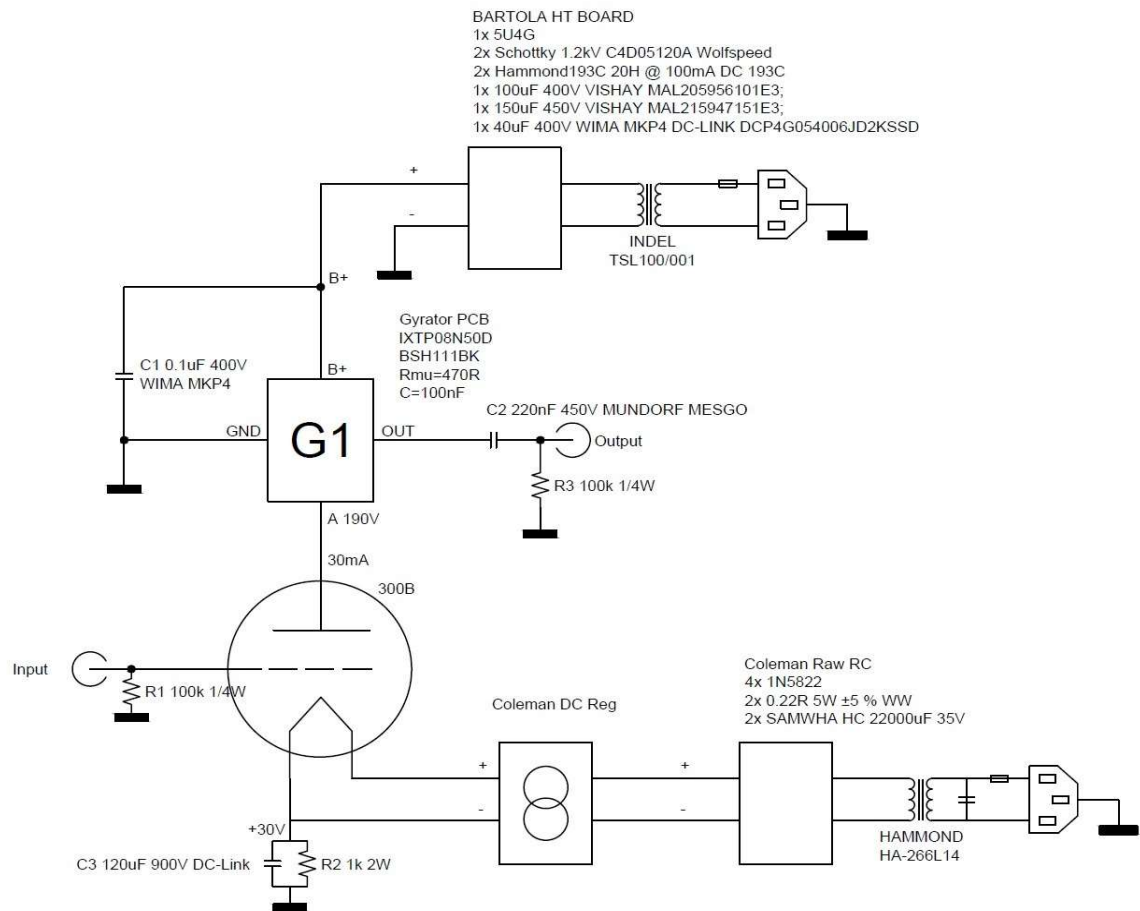


BILL OF MATERIALS - 300B LINE STAGE BUILD

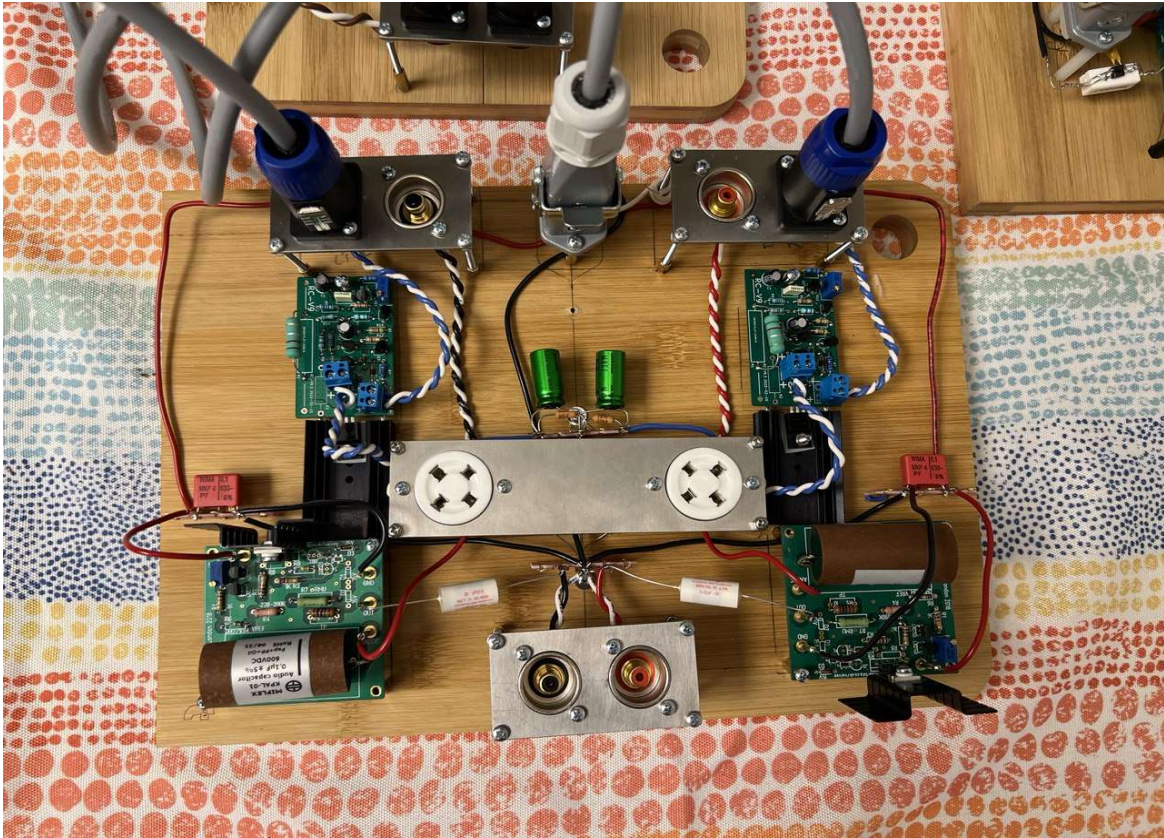
Place	PCB	Code	Details	Quantity	Price, Euro	Sum, Euro
Signal board	-	C1	WIMA MKP4-100N/1000	2	1.2	2.4
Signal board	-	C2	MCap 0.22uF 600V DC, 10x23mm	2	5.9	11.8
Signal board	-	C3	100uF 150V	2	1.5	3
Signal board	-	R1	Resistor 100k 1W 1% Metal Film, DALE, CCF60	2	1.5	3
Signal board	-	R2	Resistor 1K Kiwame 2W Carbon Film	2	2.96	5.92
Signal board	-	R3	Resistor 499k 0,5W 1% metal film Vishay DALE, CMF55 Industrial	2	1.5	3
Signal board	-	Misc.	Soldering strips Phenolic Lug Type 5 pin	4	1.2	4.8
Signal board	-	Misc.	300B tubes	2	115.8	231.6
Signal board	-	Misc.	300B tube sockets	2	3.5	7
Signal board	-	Misc.	Anti vibration mounts	4	0.5	2
Signal board	-	Misc.	SPEAKON 4pin, NL4FX Neutrik	4	6.11	24.44
Signal board	-	Misc.	SPEAKON PANEL 4POLE V	2	3.51	7.02
Signal board	-	Misc.	LAPP EPIC Connectors panel	2	12	24
Signal board	-	Misc.	LAPP EPIC connectors cable	2	12	24
Signal board	-	Misc.	Cable for umbilical YSLY-CY-JZ 4x0.75mm2 300/500V	3	0.78	2.34
Signal board	-	Misc.	Laser cut mounts for Neutrik connectors	3	5	15
Signal board	-	Misc.	Laser cut plates for 300B plates	1	5	5
Signal board	-	Misc.	M3 posts, bolts and washers	1	5	5
Signal board	-	Misc.	Banana Plug 2.0mm 2mm Gold Bullet	8	0.2	1.6
Signal board	-	Misc.	Hookup wire 22AWG Tinned copper PVC Various colors	1	5	5
Signal board	-	Misc.	Cutting board 25x35x1.5	1	8	8
Signal board	-	Misc.	Neutrik RCA Black NTR-NF2D-0	2	7.9	15.8
Signal board	-	Misc.	Neutrik RCA RED NTR-NF2D-2	2	7.9	15.8
Signal board	DC-REG	Misc.	Coleman DC regulator Stereo Pair	1	37.25	37.25
Signal board	DC-REG	Misc.	Mounting kit TO220	2	0.2	0.4
Signal board	DC-REG	Misc.	Heatsink for Coleman DC Regulator 50x46x33mm SK5583E	2	6.69	13.38
Signal board	Gyrator	D1	Zener Diode 15V 0.5W, DO35, BZX55C15	2	0.1	0.2
Signal board	Gyrator	P1	Trip pot 5K / 28turns	2	0.579	1.158
Signal board	Gyrator	M1	IXTP08N100D2	2	2.376	4.752
Signal board	Gyrator	Misc.	Mounting kit TO220	2	0.2	0.4
Signal board	Gyrator	Misc.	Heatsink	2	0.77	1.54
Signal board	Gyrator	R5	Resistor 10R 1W 1% Metal Film, DALE, CCF60	2	1.5	3
Signal board	Gyrator	M1-M2	LND150N3-G	4	1.5	6
Signal board	Gyrator	Misc.	Pre soldered Gyrator PCB with BSH111BK	2	20	40
Signal board	Gyrator	C1	KPCU-01 0.1uF 600V	2	25	50
Signal board	Gyrator	R1, R2, R3	1K 1/4W 5%	6	0.05	0.3
Signal board	Gyrator	R4	390KΩ 1/2W 1%	2	0.08	0.16
Signal board	Gyrator	R6	10M 1/4W 5%	2	0.05	0.1
Signal board	Gyrator	D4	Yellow diode	2	0.05	0.1
Signal board	Gyrator	R9	330 Ohm 1/4W	2	0.05	0.1
Signal board	Gyrator	R8	820Ohm 1/4W	2	0.05	0.1
HT PSU BOARD	-	T1	Indel TSL100/001	1	91.62	91.62
HT PSU BOARD	-	Misc.	IEC Socket with switch, fused	1	4	4
HT PSU BOARD	-	F1	Input fuse 2A 20mm	1	0.2	0.2
HT PSU BOARD	HT Board	C2	MKP4 2.2uF 220VAC 400VDC ±10% Wima	1		0
HT PSU BOARD	HT Board	D3-D4	C4D05120A Diode:Schottky rectifying;SiC;THT;1.2kV;5A;81W;TO220-	2	2.73	5.46
HT PSU BOARD	-	R_Drop	RESISTOR WW 0.22R 10W +/-5%	2	0.496	0.992

HT PSU BOARD	HT Board	Misc.	HT PSU PCB	1	20	20
HT PSU BOARD	HT Board	R2	MOR 47R 2W Ø5x12mm 5%	1	0.054	0.054
HT PSU BOARD	-	Misc.	Laser cut plate for Octal socket	1	5	5
HT PSU BOARD	-	Misc.	Octal socket	1	2	2
HT PSU BOARD	-	A1	5U4G Rectifier	1	43.52	43.52
HT PSU BOARD	-	L3, L4	Hammond Choke 20H @ 100mA DC 193C	2	40	80
HT PSU BOARD	HT Board	C11	Capacitor DCMKP4-40U/400	1	12	12
HT PSU BOARD	HT Board	C8	Capacitor:electrolytic;SNAP-IN;100uF;400VDC;Ø30x30mm;±20%	1	13.5	13.5
HT PSU BOARD	HT Board	C9	Capacitor:electrolytic;SNAP-IN;150uF;450VDC;Ø25x40mm;±20%	1	11	11
HT PSU BOARD		Misc.	Cutting board 25x35x1.5	1	8	8
HT PSU BOARD		Misc.	Output fuse 100mA 20mm	1	0.1	0.1
HT PSU BOARD		Misc.	M3 posts, bolts and washers	1	5	5
HT PSU BOARD		Misc.	Banana Plug 2.0mm 2mm Gold Bullet	7	0.2	1.4
HT PSU BOARD	HT Board	C7	WIMA MKP4-100N/1000	1	1.2	1.2
HT PSU BOARD	HT Board	Misc.	Soldered screw connections 2 pin	2	0.16	0.32
HT PSU BOARD		Misc.	UF4007	2	0.15	0.3
HT PSU BOARD		Misc.	22R 5W WW	1	0.35	0.35
HT PSU BOARD		Misc.	0.1uF Z5U 100V	1	0.1	0.1
LT PSU BOARD		Misc.	IEC Socket with switch, fused	1	4	4
LT PSU BOARD		T2-T3	Hammond Power Transformer 14V ,28VA 266L14	2	40	80
LT PSU BOARD	RAW DC	F1	Input fuse 0.5A 20mm	1	0.2	0.2
LT PSU BOARD	RAW DC	Misc.	Raw DC PCB Coleman partially populated	1	16	16
LT PSU BOARD		C6	100n 275V X2	1	2.2	2.2
LT PSU BOARD	RAW DC	C1-C2	Samwha HC series 22000uF 35V SNAP-IN ø35x45mm	4	5.005	20.02
LT PSU BOARD	RAW DC	R1-R2	RESISTOR WW 0.22R 5W ±5 %	4	0.35	1.4
LT PSU BOARD	RAW DC	Misc.	Cutting board 25x35x1.5	1	8	8
LT PSU BOARD	RAW DC	Misc.	Laser cut mounts for Neutrik connectors	1	5	5
LT PSU BOARD	RAW DC	Misc.	SPEAKON PANEL 4POLE V	2	3.51	7.02
LT PSU BOARD	RAW DC	F2	Output fuse 3.5A 20mm	2	0.2	0.4
LT PSU BOARD		Misc.	M3 posts, bolts and washers	1	5	5
					Total	1041.816

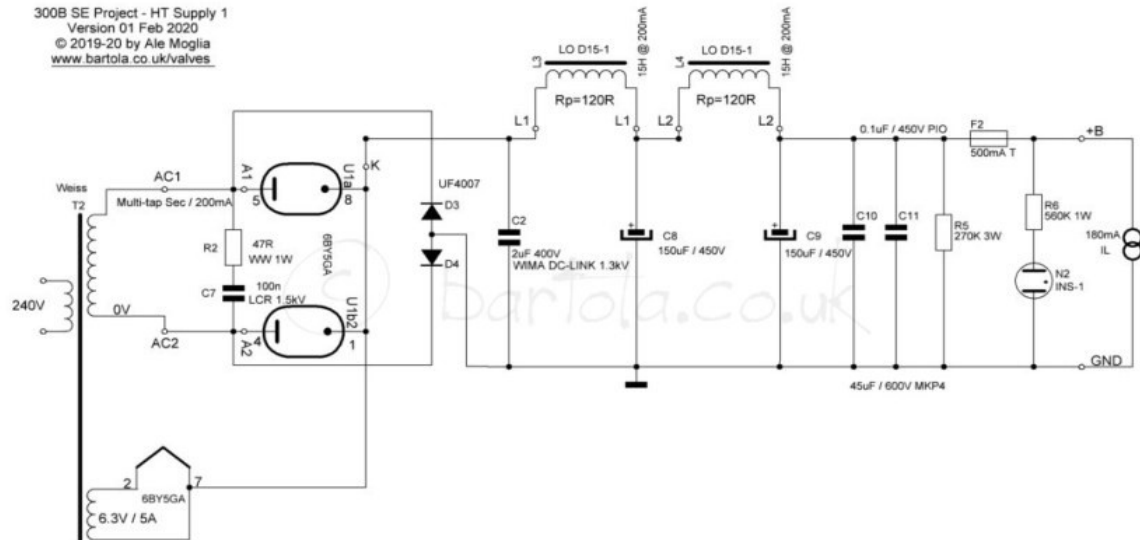
SIMPLIFIED SCHEMATIC



TOP VIEW SIGNAL BOARD



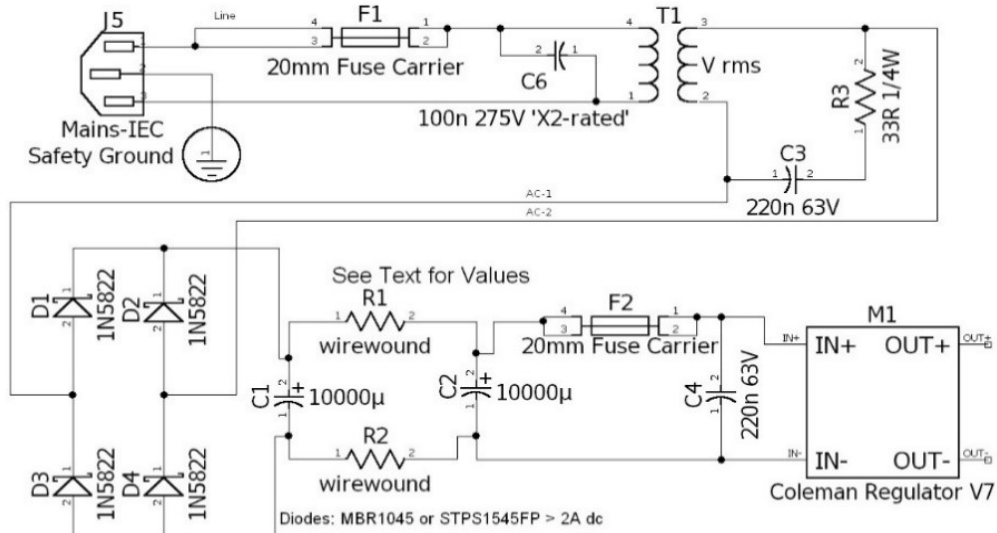
300B SE Project - HT Supply 1
Version 01 Feb 2020
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www.bartola.co.uk/valves



TOP VIEW HT BOARD

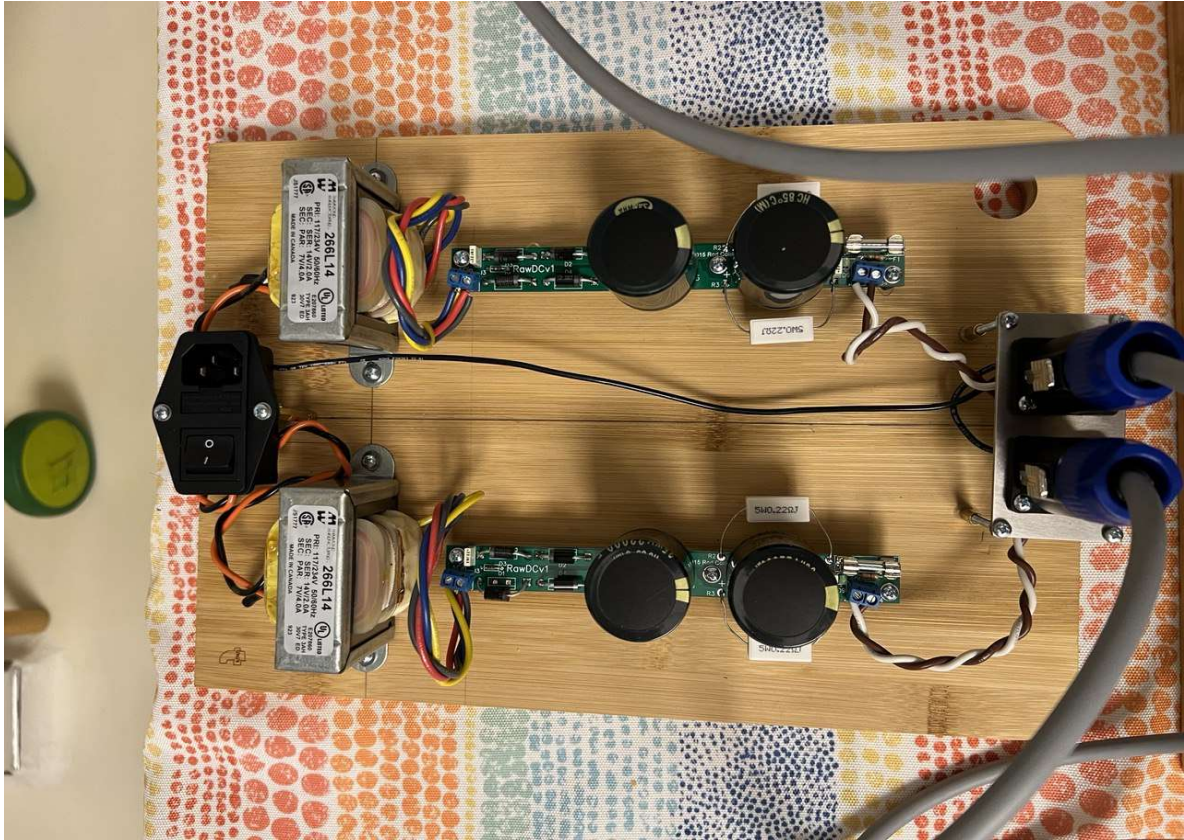


BASIC SCHEMATICS LTT BOARD



Filament Supply RAW DC Must Float! No Ground or Chassis Connexions.

TOP VIEW LT BOARD



VERSION 1 - Grounding on HT Board

