

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION
(CONTROL VIEWED FROM SHAFT END)

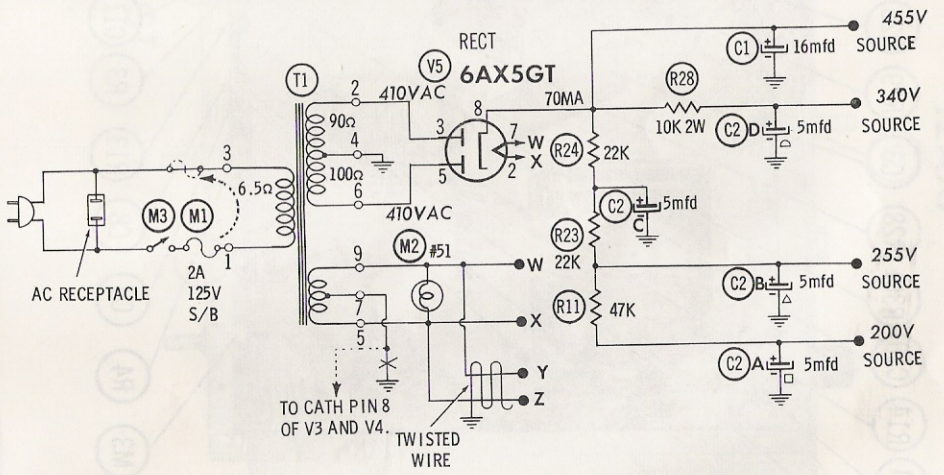
⊖ SEE PARTS LIST FOR ALTERNATE
VALUE OR APPLICATION

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7	† 310K	3.3meg	0 Ω	.1 Ω	.1 Ω	† 310K	120K	1500 Ω	.1 Ω
V2	12AX7	† 265K	170K	470 Ω	.1 Ω	.1 Ω	† 265K	1meg	2200 Ω	.1 Ω
V3	6V6GT	NC	.1 Ω	† 160 Ω	† 10K	430K	NC	.1 Ω	325 Ω	
V4	6V6GT	NC	.1 Ω	† 140 Ω	† 10K	490K	NC	.1 Ω	325 Ω	
V5	6AX5GT	NC	.1 Ω	90 Ω	NC	100 Ω	NC	.1 Ω	20K(Min)	

† MEASURED FROM PIN 8 OF V5
NC NO CONNECTION



V1,2&3=12AX7 (4&5/9=H)

V4&5=6V6 (2&7=H)

V1 (pin1&6)= 153v

V2 pin1=300v

V2pin6=192v

V3pin 1=176v

V3pin6=225v

V3pin8=52

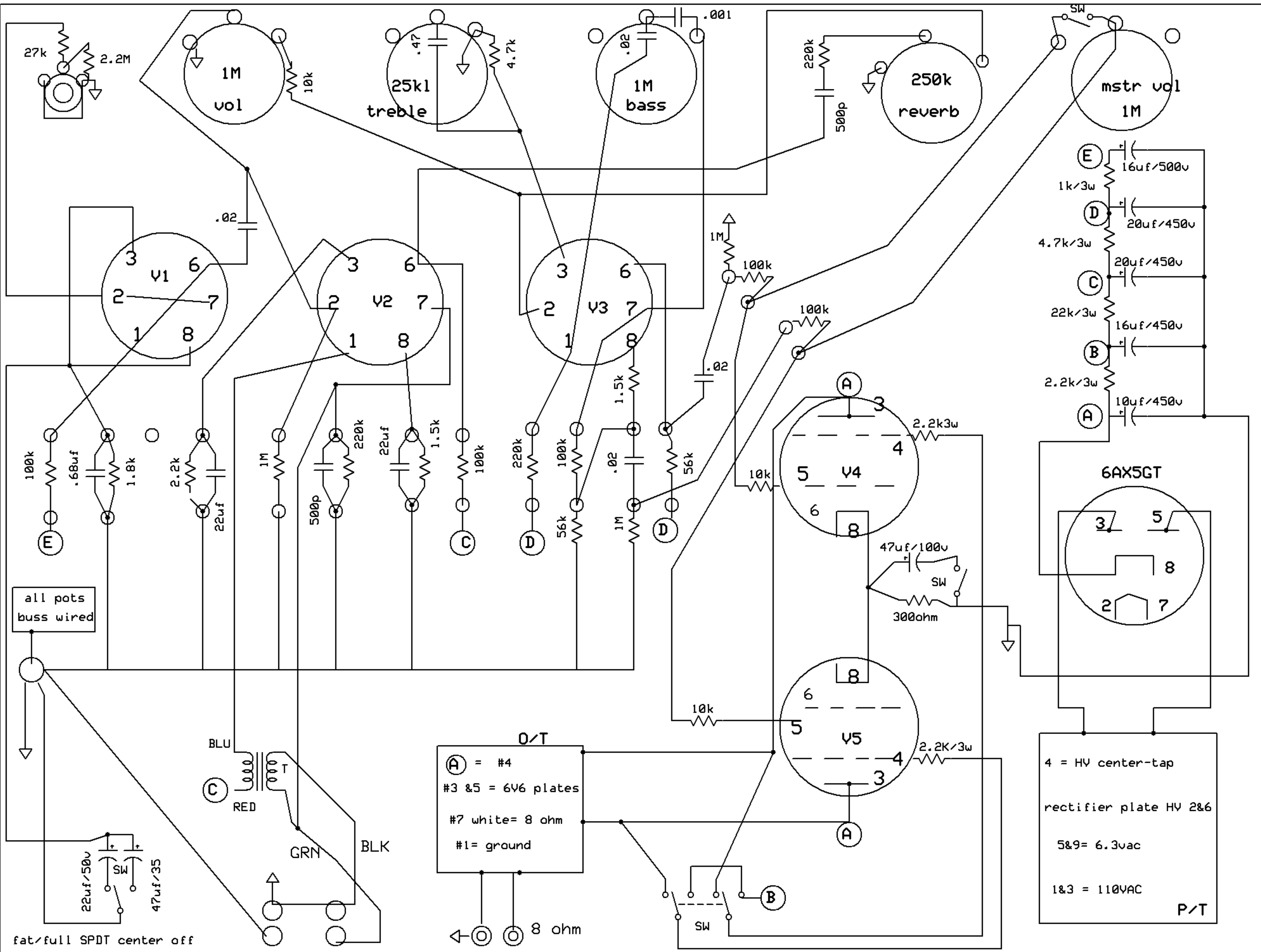
A=423v

B=406v

C=299v

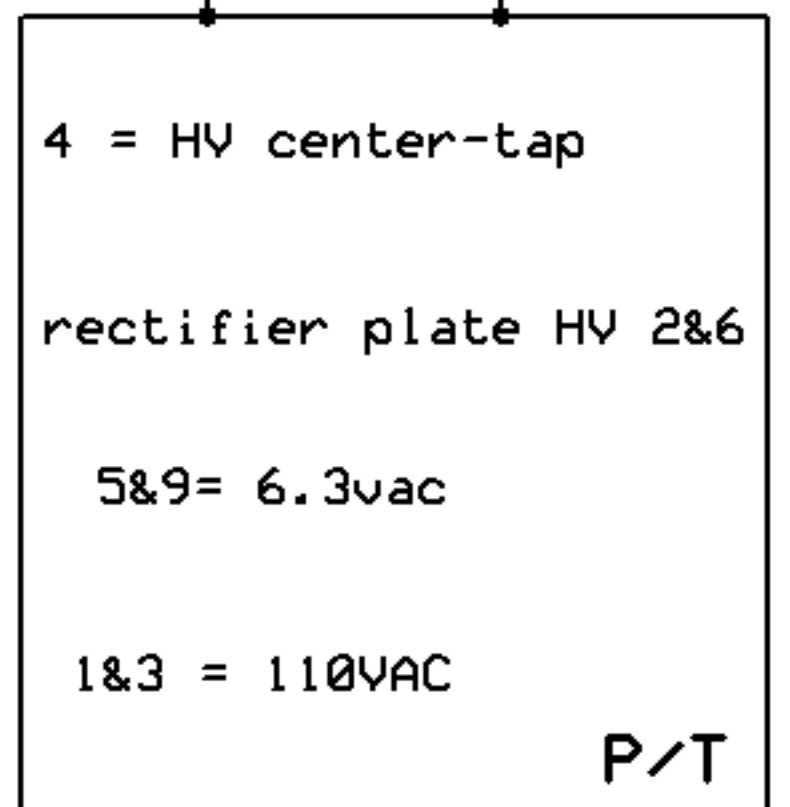
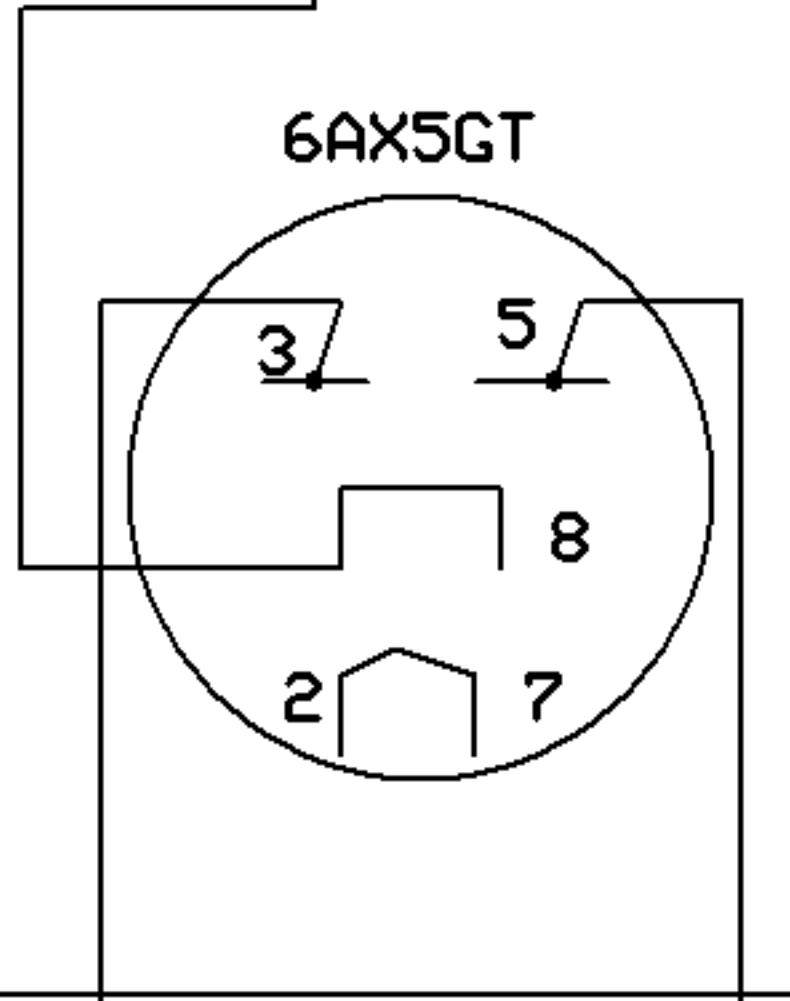
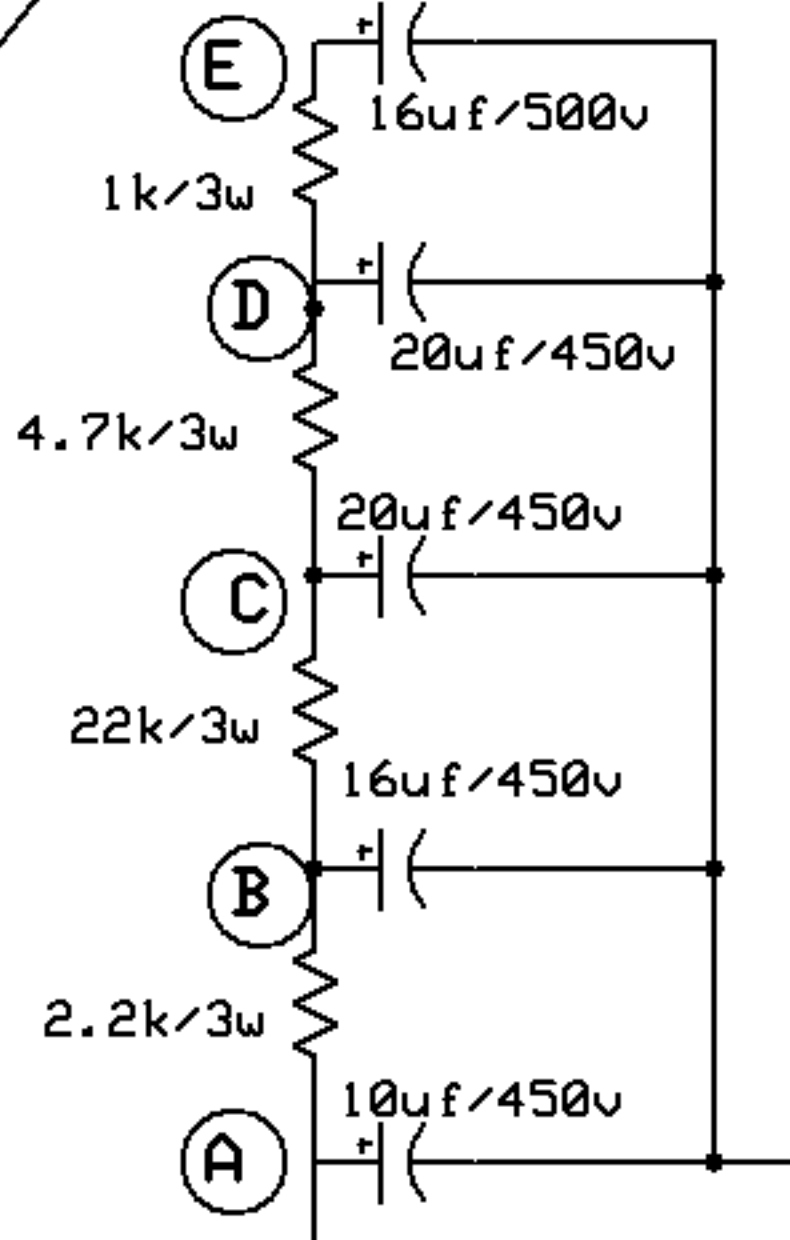
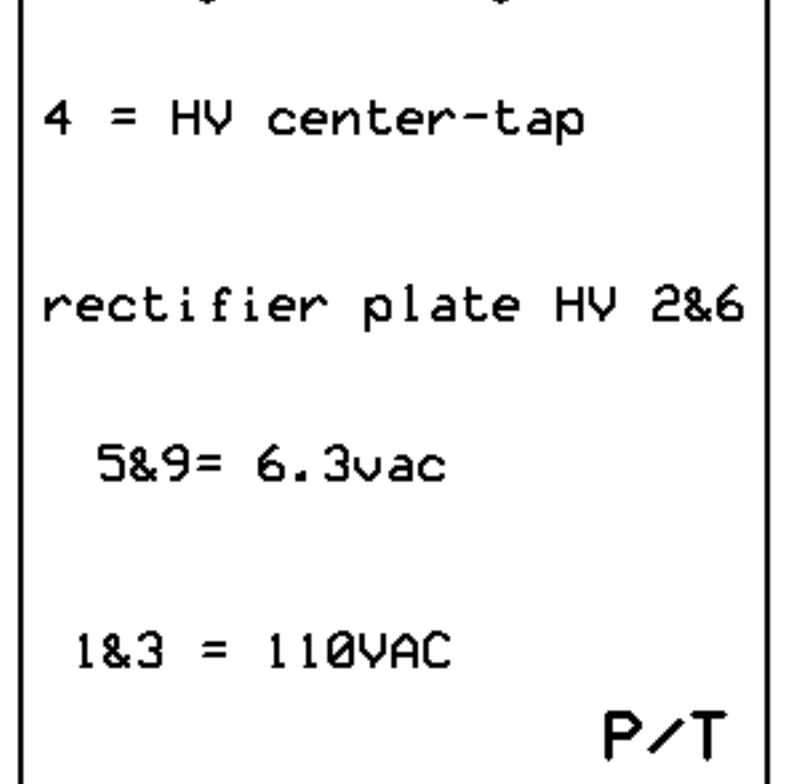
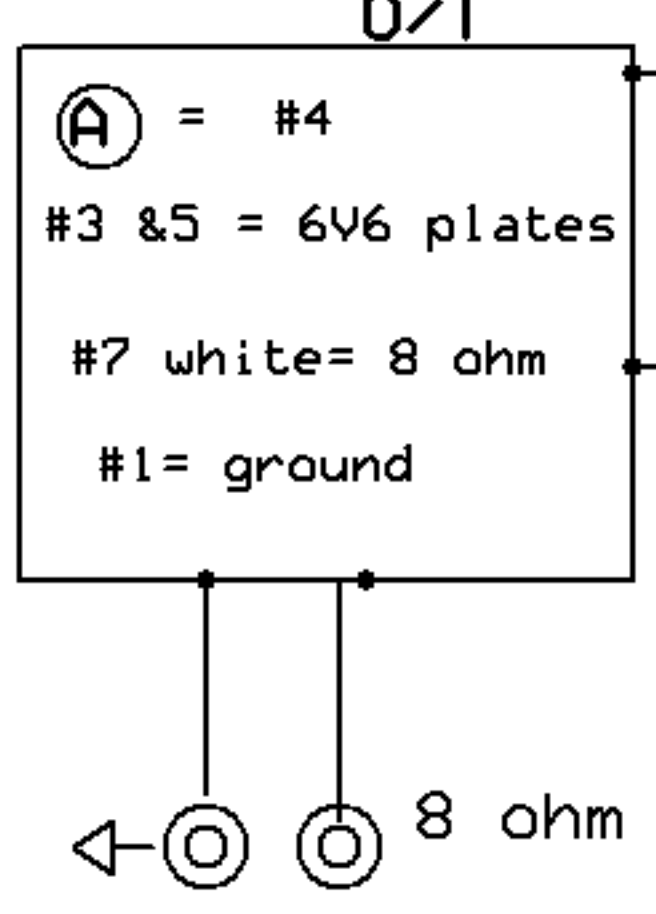
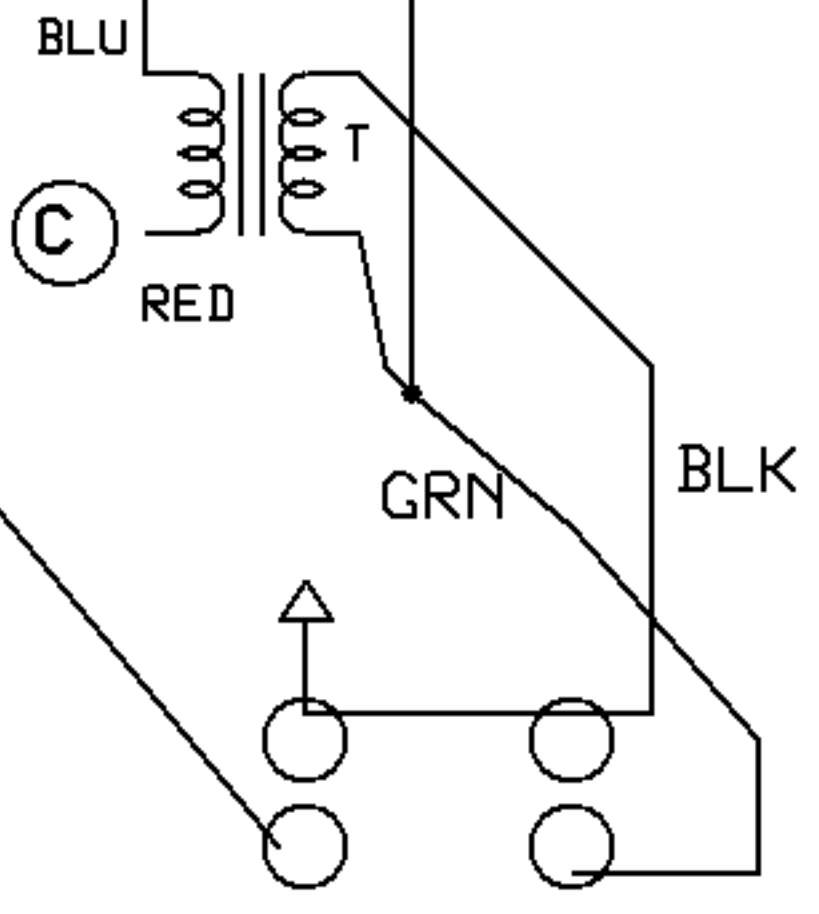
D=286v

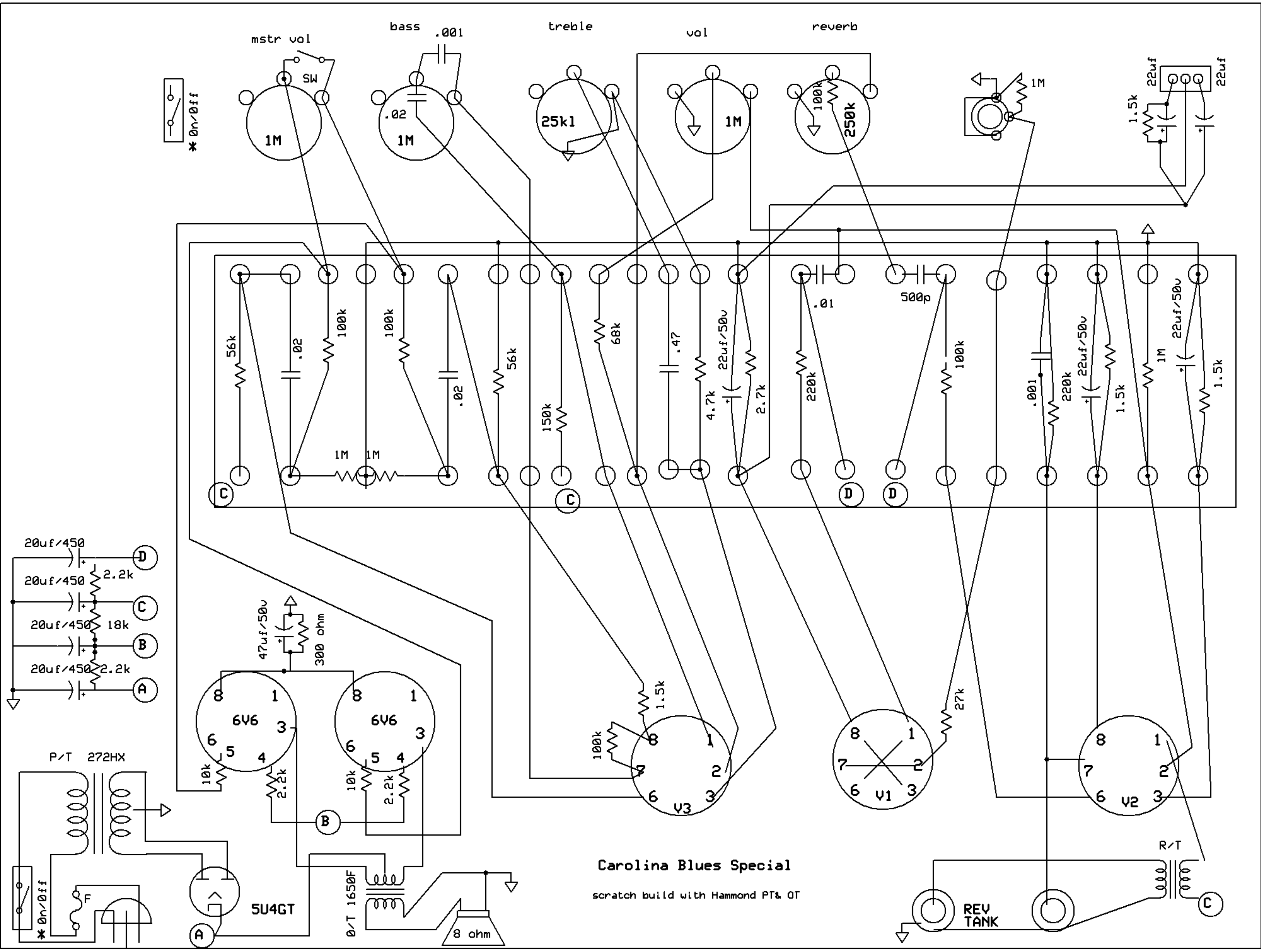
E=284v



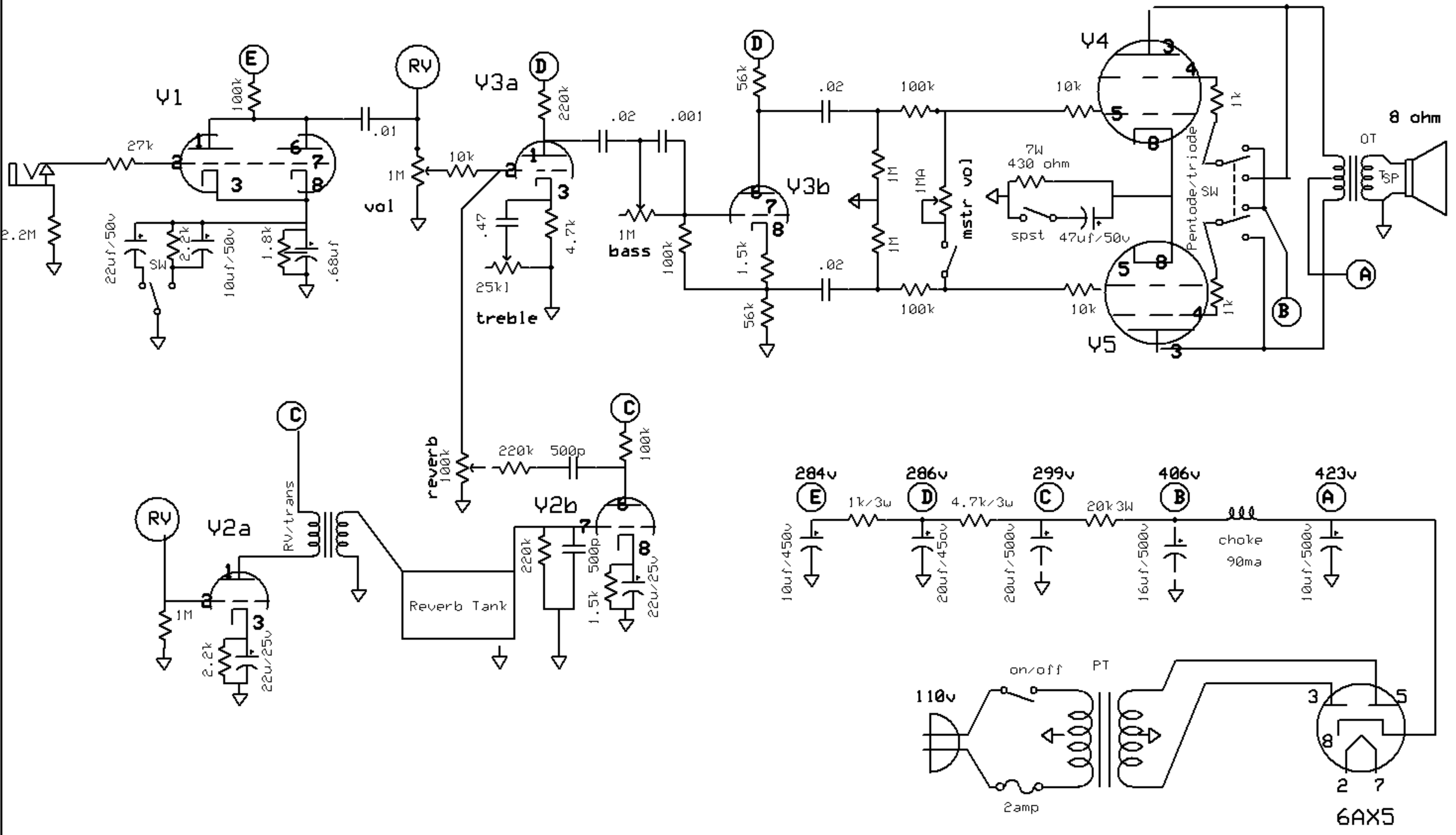
all pots
buss wired

fat/full SPDT center off





Carolina Blues Special
 scratch build with Hammond PT & OT



V1	12AX7	pin1 153v	pin1 153v
V2	12AX7	pin1 300v	pin6 192v
V3	12AX7	pin1 176v	pin6 225v
V4	6V6	pin3 423v	pin4 406v
V5	6V6	pin3 423v	pin4 406v

29.7v across 430 ohm resistor = 34.5ma

Carolina Blues Special

- O/T**
- 1) ground
 - 2) 4 ohm
 - 3) V3 pin3
 - 4) node A/rectifier
 - 5) V4 pin3
 - 6) 245 ohm
 - 7) 8 ohm white
 - 8) 16 ohm
- Bogen CHA-20 PT wiring**
- 1) white and red wire/on-off
 - 2) blue wire rectifier plate
 - 3) black wire/on-off
 - 4) ground
 - 5) yellow rectifier/heater
 - 6) blue wire rectifier plate
 - 7) ground
 - 8) open
 - 9) orange wire/rectifier heater
 - 10) open