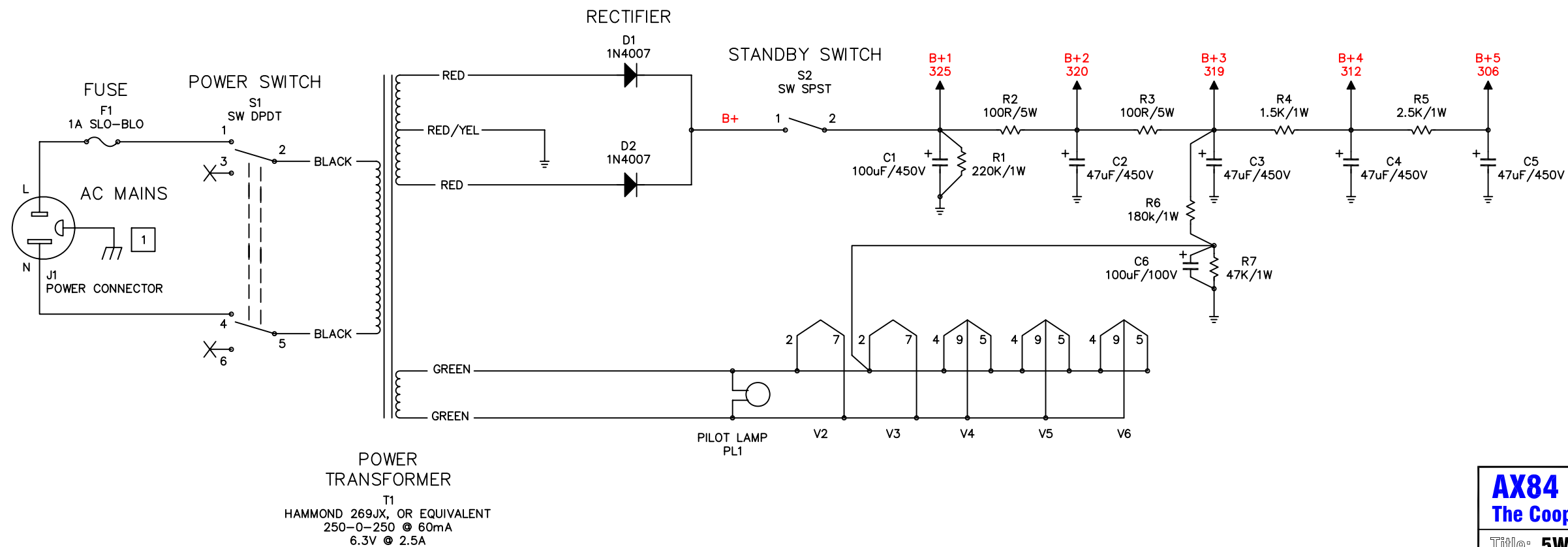
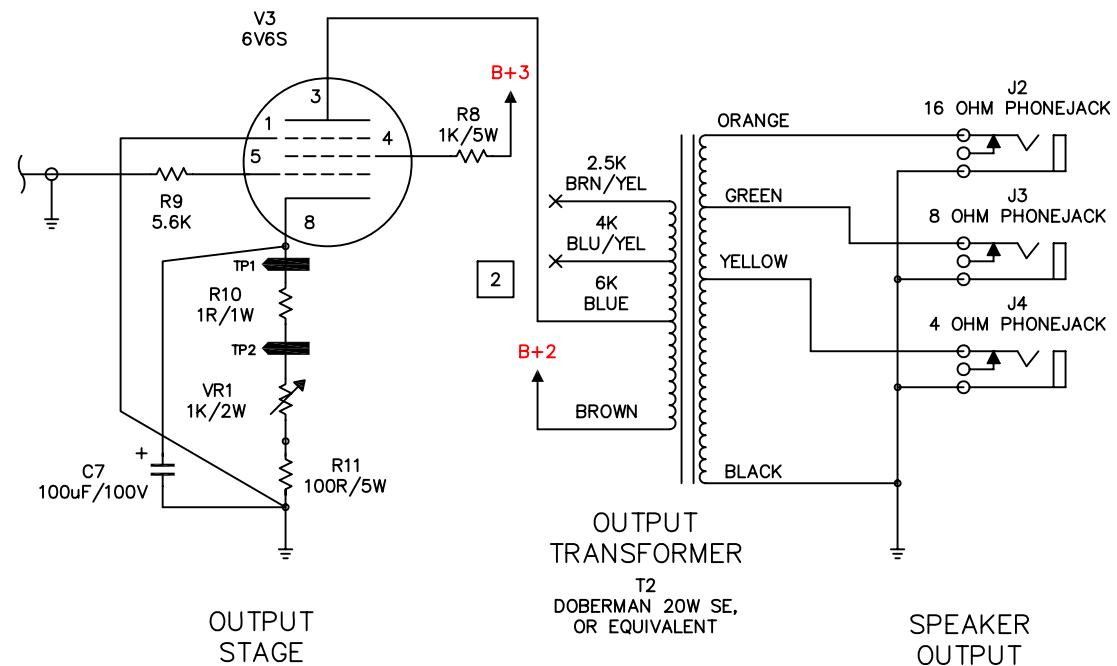


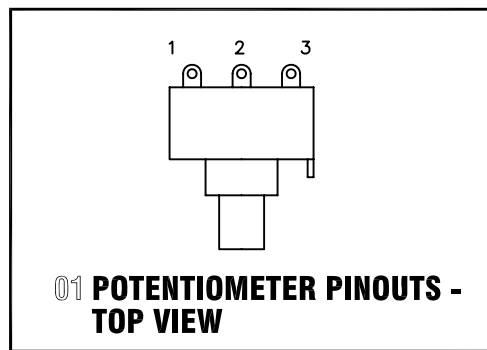
Revision	Description
06.12.01	Issued For Prototyping

USE THE FOLLOWING FORMULA TO CALCULATE WHAT THE mA READING ACROSS R8 SHOULD BE:


$$0.9 * P_{aMAX} / V_a$$

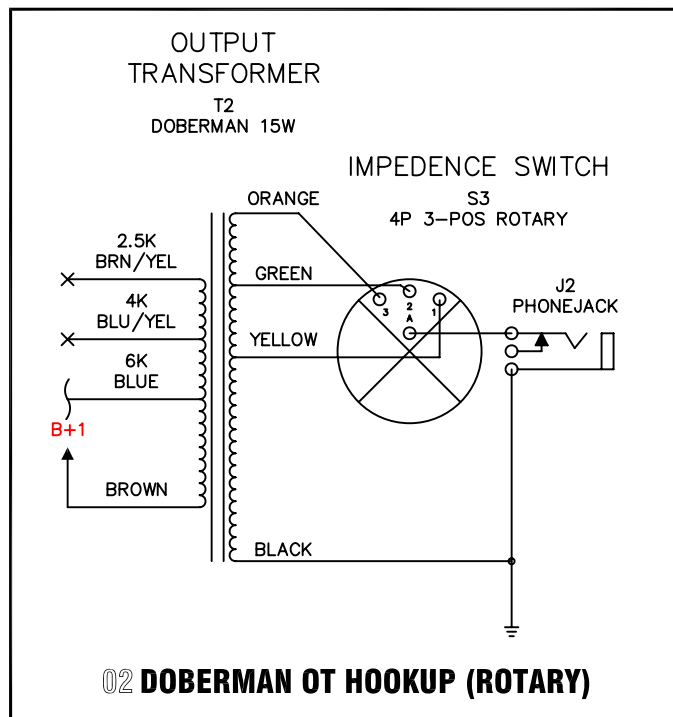
WHERE P_{aMAX} IS THE MAXIMUM PLATE DISSIPATION FOR THE TUBE USED AND V_a IS THE PLATE VOLTAGE.





GENERAL NOTES:

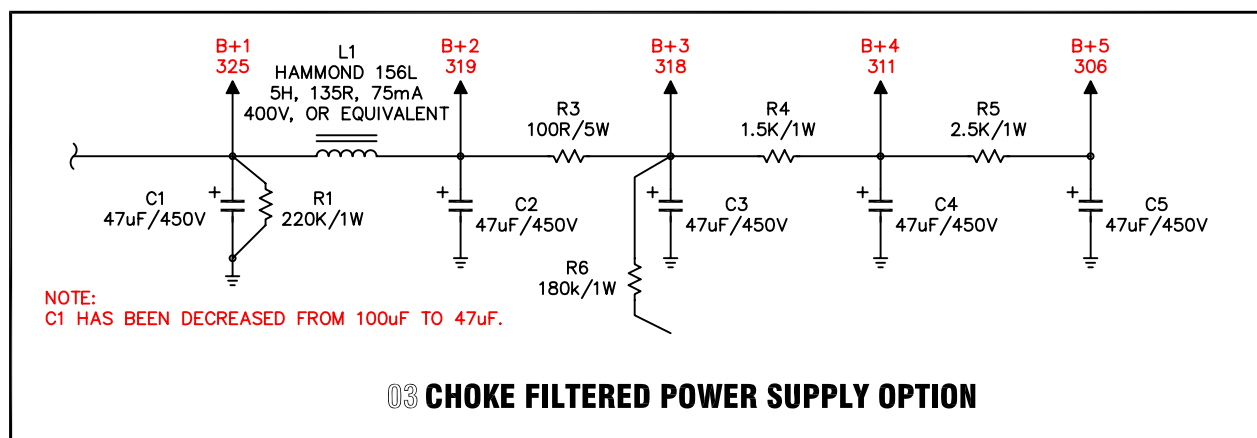
- ALL RESISTORS 1/2W MINIMUM UNLESS OTHERWISE NOTED.
- ALL COUPLING CAPACITORS 400V OR GREATER.
- THE  SYMBOL REPRESENTS SHIELDED CABLE.
- NOT ALL COMPONENTS ARE USED WITH ALL AMPS. THIS RESULTS IN COMPONENT NUMBERING GAPS AND IS NORMAL.



CONSTRUCTION NOTES:

- THIS IS A GROUND CONNECTION TO THE CHASSIS. THE MAINS SAFETY CONNECTION SHOULD BE MADE AS CLOSE AS POSSIBLE TO THE POINT WHERE AC ENTERS THE CHASSIS. THE CIRCUIT CONNECTION SHOULD BE MADE AS CLOSE AS POSSIBLE TO THE INPUT JACK. IDEALLY, THE JACK ITSELF SHOULD BE USED AS THE CONNECTION POINT BY NOT ISOLATING IT FROM THE CHASSIS.
- THE OUTPUT TRANSFORMER HOOKUP SHOWN IS FOR A 6V6S POWER TUBE. THE BLUE HOOKUP CAN BE USED FOR A 6K PLATE LOAD WHICH IS NEAR THE IDEAL PLATE LOAD OF 8.5K. IF YOU WISH TO GET CLOSER TO THE IDEAL LOAD, YOU CAN CONNECT THE BLU/YEL (4K) LEAD TO THE 6V6 PLATE, AND THEN CONNECT AN 8 OHM SPEAKER TO THE 4 OHM TAP, OR A 16 OHM SPEAKER TO THE 8 OHM TAP. DOING THAT WILL DOUBLE THE EFFECTIVE LOAD TO 8K WHICH IS MUCH CLOSER TO THE IDEAL LOAD.

OUTPUT TUBE	IDEAL LOAD	HOOKUP WIRE
6V6S	8.5K	BLUE



VOLTAGE READING NOTES:

- THE VOLTAGE READINGS ON THIS SCHEMATIC ARE SIMULATED BASED ON THE USE OF A HAMMOND 269JX WITH 120V MAINS.
- DIFFERENT TUBES DRAW DIFFERENT AMOUNTS OF CURRENT, NO TWO ARE ALIKE UNLESS THEY ARE MATCHED. THE AMOUNT OF CURRENT DRAWN BY ALL THE TUBES IN THE AMP WILL AFFECT VOLTAGE READINGS THROUGHOUT THE AMP.