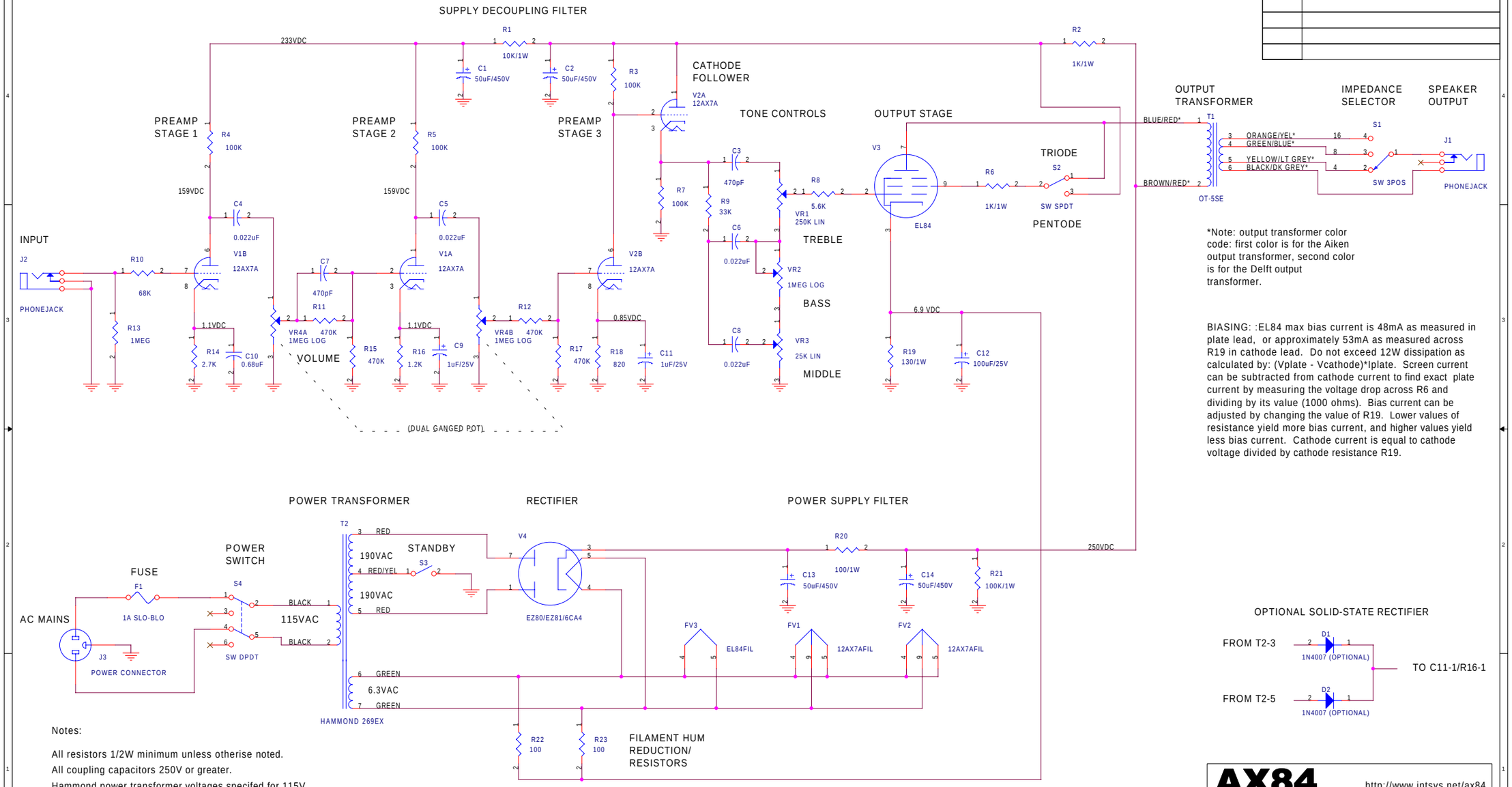
REV:	Initial design: R. Aiken



*Note: output transformer color code: first color is for the Aiken output transformer, second color is for the Delft output transformer.

BIASING: :EL84 max bias current is 48mA as measured in plate lead, or approximately 53mA as measured across R19 in cathode lead. Do not exceed 12W dissipation as calculated by: (Vplate - Vcathode)*Iplate. Screen current can be subtracted from cathode current to find exact plate current by measuring the voltage drop across R6 and dividing by its value (1000 ohms). Bias current can be adjusted by changing the value of R19. Lower values of resistance yield more bias current, and higher values yield less bias current. Cathode current is equal to cathode voltage divided by cathode resistance R19.

Notes:

All resistors 1/2W minimum unless otherise noted.

All coupling capacitors 250V or greater.

Hammond power transformer voltages specifed for 115V input. Secondary voltages will be higher with 120V input.

All voltages are PSpice simulation results based on 250V plate supply. Actual voltages may vary.

50uF/450V electrolytic power supply capacitor values/voltages are not critical. Suggested values: 20-50uF at 350-450VDC.

AX84 http://www.intsys.net/ax84

The Cooperative Tube Guitar Amp Project

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