



BE SURE +END OF CAPACITOR IS CONNECTED TO CIRCUIT GROUND. SHOULD BE OPPOSITE OF POWER SUPPLY CAPACITORS

### VOLTAGE CHART

VOLTAGE MEASUREMENTS TAKEN FROM LISTED NODE TO CHASSIS GROUND

V1	180	0	1.5	3.3VAC	3.3VAC	3.3VAC	3.3VAC	3.3VAC	3.3VAC
V2	145	0	0.8	3.3VAC	3.3VAC	3.3VAC	250	145	150
V3	265	0	155	3.3VAC	3.3VAC	3.3VAC	265	0	155
V4	-	-13.5	34.0	3.3VAC	3.3VAC	3.3VAC	-	34.5	0*
V5	-	-13.5	34.0	3.3VAC	3.3VAC	3.3VAC	-	34.5	0*
V6	-	355	-	275VAC	-	275VAC	-	355	345

ALL VOLTAGES MEASURED WITH HIGH IMPEDANCE VOLTMETER VOLTAGE TOLERANCE SAME AS RESISTOR TOLERANCE VOLTAGES INDICATED WITH 115 VAC MAINS SUPPLY ALL POWER SUPPLY CAPACITORS RATED 450 VDC OR GREATER CATHODE BYPASS CAPACITORS 50 VDC OR GREATER CAPACITOR VALUES IN µF UNLESS NOTED ALL RESISTOR VALUES IN Ω UNLESS NOTED ALL RESISTOR VALUES IN OHMS ALL POTENTIOMETERS 1/4 WATT OR GREATER BOXED VALUES ARE DC VOLTS

#47 OR EQUIV.

6.3VAC

5.0 VAC

275

1A POWER

SILO BL10

BLK

**AX84** The Cooperative Tube Guitar Amp Project  
 HTTP://WWW.AX84.COM  
 SCALE: NONE  
 DATE: 1/30/2006  
 DRAWN BY: SEAN WEATHERFORD  
 THIS CIRCUIT DIAGRAM MAY NOT BE USED IN ANY COMMERCIAL APPLICATION WITHOUT THE WRITTEN CONSENT OF RANDALL AHNEN AND CHRIS HURLEY.

NOVEMBER REV II  
 DRAWING NUMBER: AX84.M.282

- V1-12AX7
- V2-12AX7
- V3-12AX7
- V4-EL84/6BQ5
- V5-EL84/6BQ5