

MESA/BOOGIE[®]
Mark IV B

Mark IV

FRONT PANEL

RHYTHM 1		
Control Function	Type	Mesa Part#
Gain	Pot	591842
	Knob	408105
Treble	Pot	593148
	Knob	409124
Bass	Pot	593148
	Knob	409124
Middle	Pot	592378
	Knob	409124
Presence	Pot	593792
	Knob	408105
Master	Pot	593150
	Knob	409124
R1 LED	LED	395540

RHYTHM 2		
Control Function	Type	Mesa Part#
Gain	Pot	591842
	Knob	408105
Treble	Pot	593148
	Knob	409124
Bass	Shared w/ R1	
Middle	Shared w/ R1	
Presence	Pot	596821
	Knob	408105
Master	Pot	593150
	Knob	409124
R2 LED	LED	395530

LEAD		
Control Function	Type	Mesa Part#
Gain	Pot	591842
	Knob	408105
Treble	Pot	592149
	Knob	409124
Bass	Pot	593148
	Knob	409124
Middle	Pot	592378
	Knob	409124
Lead Drive	Pot	591842
	Knob	408105
Presence	Pot	596821
	Knob	408105
Master	Pot	593150
	Knob	409124
Lead LED	LED	395520

MISC PARTS		
Control Function	Type	Mesa Part#
Input	Jack	610120
Graphic EQ All 5 Bands (New Style)	Pot	588536
	Knob	408550
**original style knob no longer available		
Output	Pot	596821
	Knob	408115
EQ LED	LED	395510
Loop LED	LED	395500
Standby	Switch	601073
Power	Switch	601073
Pilot Light (Med Chas Only)	Light	703130

REAR PANEL

Mark IV

MISC PARTS		
Control Function	Type	Mesa Part#
Jacks		
Rev Ftsw	Jack	610111
Satellite EQ	" "	612111
Satellite Send	" "	610111
FX Send	" "	612112
FX Return (L)	" "	610111
FX Return (R)	" "	610111
Speaker Outs(3)	" "	618100
External Switch(6)	" "	618100
Record Out		
	Pot	592378
	Knob	409124
	Jack	618100
Slave Out		
	Pot	592738
	Knob	409124
	Jack	618100

MISC PARTS		
Control Function	Type	Mesa Part#
Switches		
Graphic EQ	Switch	600116
FX ON/Swtch	" "	600115
Auto Assign(2)	" "	600116
Triode/Pentode	" "	600117
Simul/Class A	" "	600114
Harm/Mid Gain	" "	600114
Channel Select		
	Rotary Sw	608226
	Knob	408121
Fuse Holder		
Domestic	Cap/Holder	790347
	Fuse	790403
Export	Cap/Holder	790346
	Fuse	795200
AC Receptacle	Jack	613713
Foot Switch	Jack	620414

Mark IV

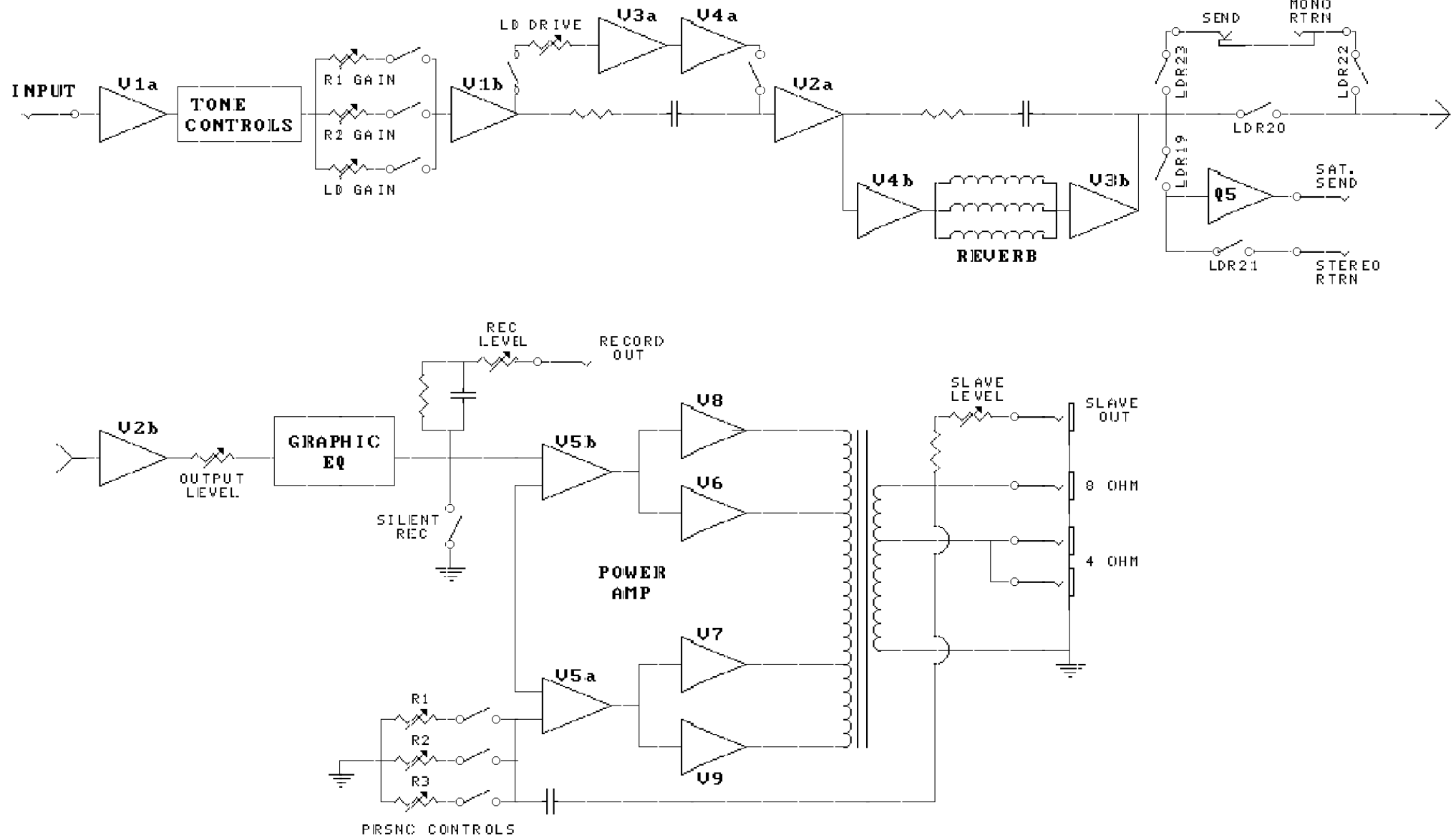
MISC PARTS		
Control Function	Type	Mesa Part#
Jacks		
Rev Ftsw	Jack	610111
Satellite EQ	" "	612111
Satellite Send	" "	610111
FX Send	" "	612112
FX Return (L)	" "	610111
FX Return (R)	" "	610111
Speaker Outs(3)	" "	618100
External Switch(6)	" "	618100
Record Out		
	Pot	592378
	Knob	409124
	Jack	618100
Slave Out		
	Pot	592738
	Knob	409124
	Jack	618100

MISC PARTS		
Control Function	Type	Mesa Part#
Switches		
Graphic EQ	Switch	600116
FX ON/Swtch	" "	600115
Auto Assign(2)	" "	600116
Triode/Pentode	" "	600117
Simul/Class A	" "	600114
Harm/Mid Gain	" "	600114
Channel Select		
	Rotary Sw	608226
	Knob	408121
Fuse Holder		
Domestic	Cap/Holder	790347
	Fuse	790403
Export	Cap/Holder	790346
	Fuse	795200
AC Receptacle	Jack	613713
Foot Switch	Jack	620414

MESA-BOOGIE MARK IUB

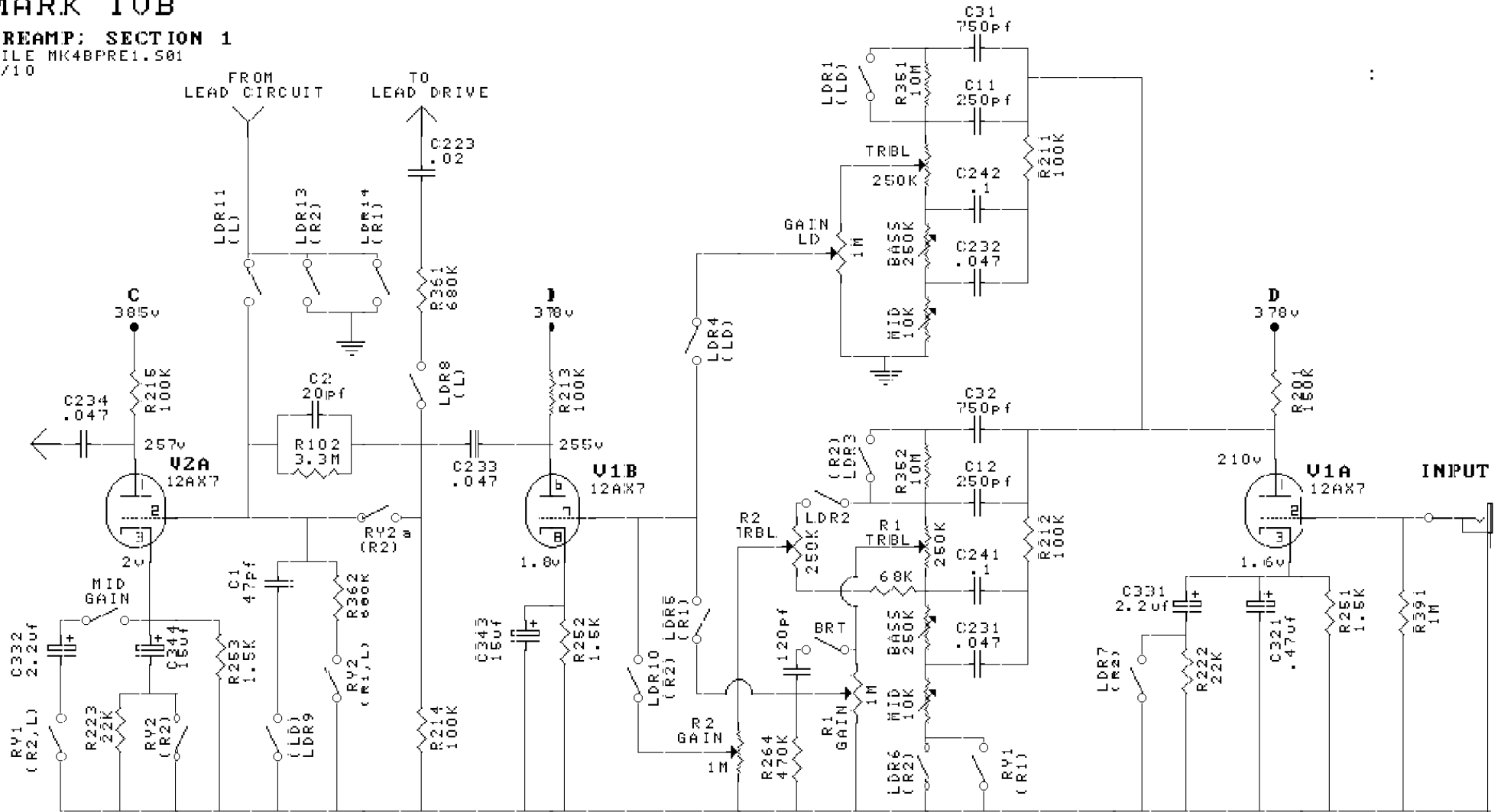
BLOCK DIAGRAM

FILE MK4BBL0CK.S01



MESA-BOOGIE MARK IUB

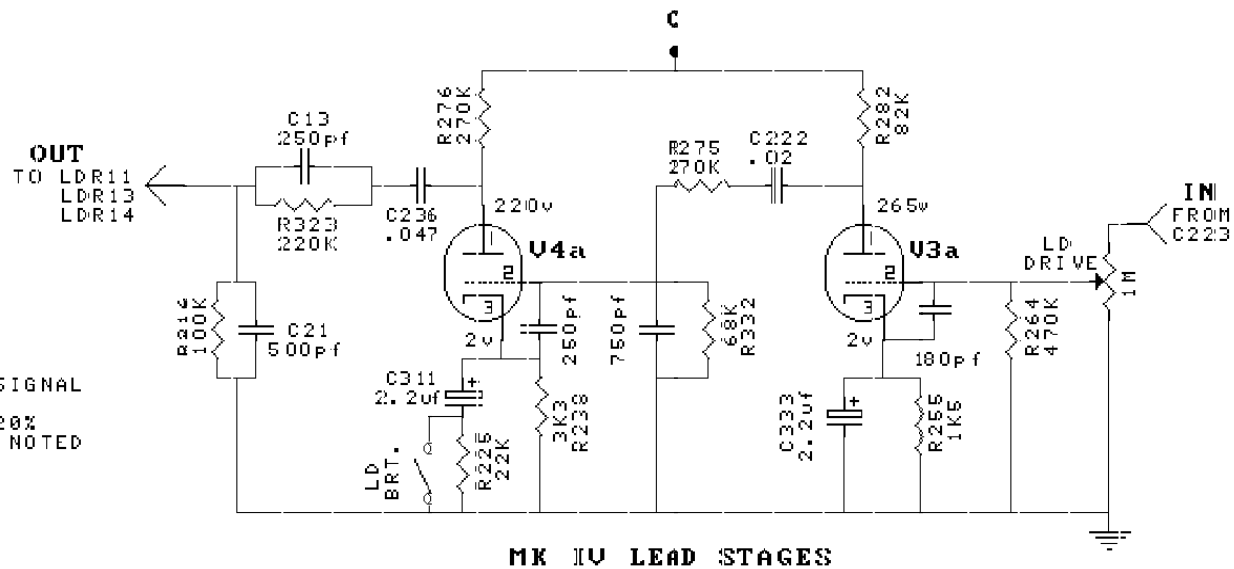
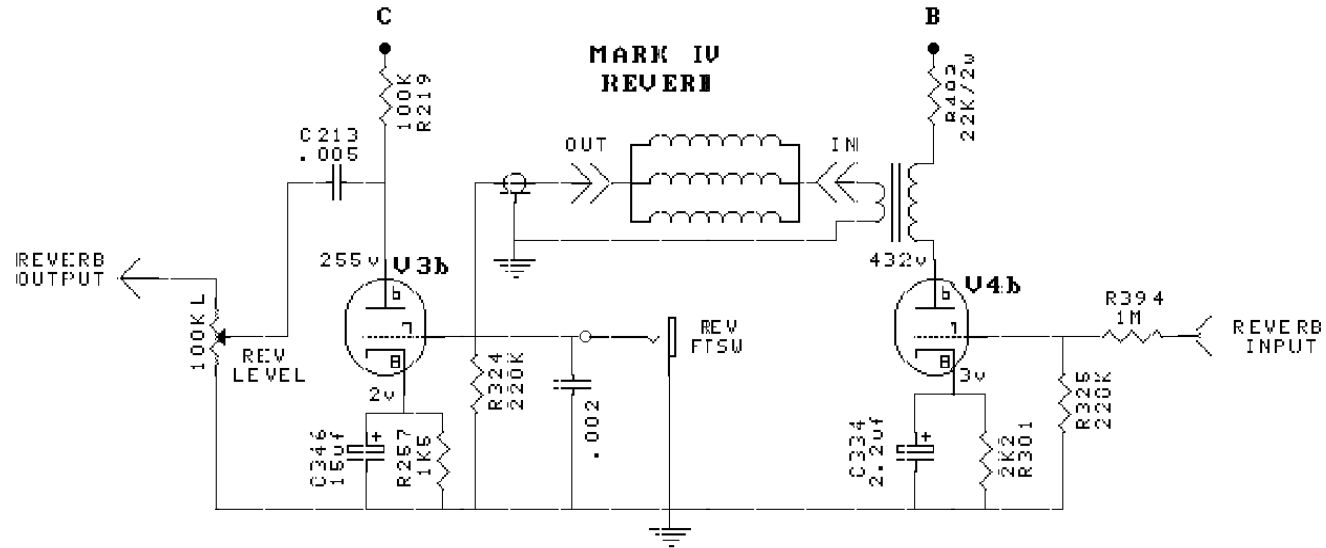
PREAMP; SECTION 1
FILE MK4BPRE1.S01
3/10



VOLTAGES MEASURED NO SIGNAL
117V AC MAINS
DC VOLTAGES MAY VARY 20%
RESISTORS 1/2W UNLESS NOTED

MESA-BOOGIE MARK IVB

PREAMP PART TWO
FILE MK4BPRE2.501



VOLTAGES MEASURED NO SIGNAL
117V AC MAINS
DC VOLTAGES MAY VARY 20%
RESISTORS 1/2W UNLESS NOTED

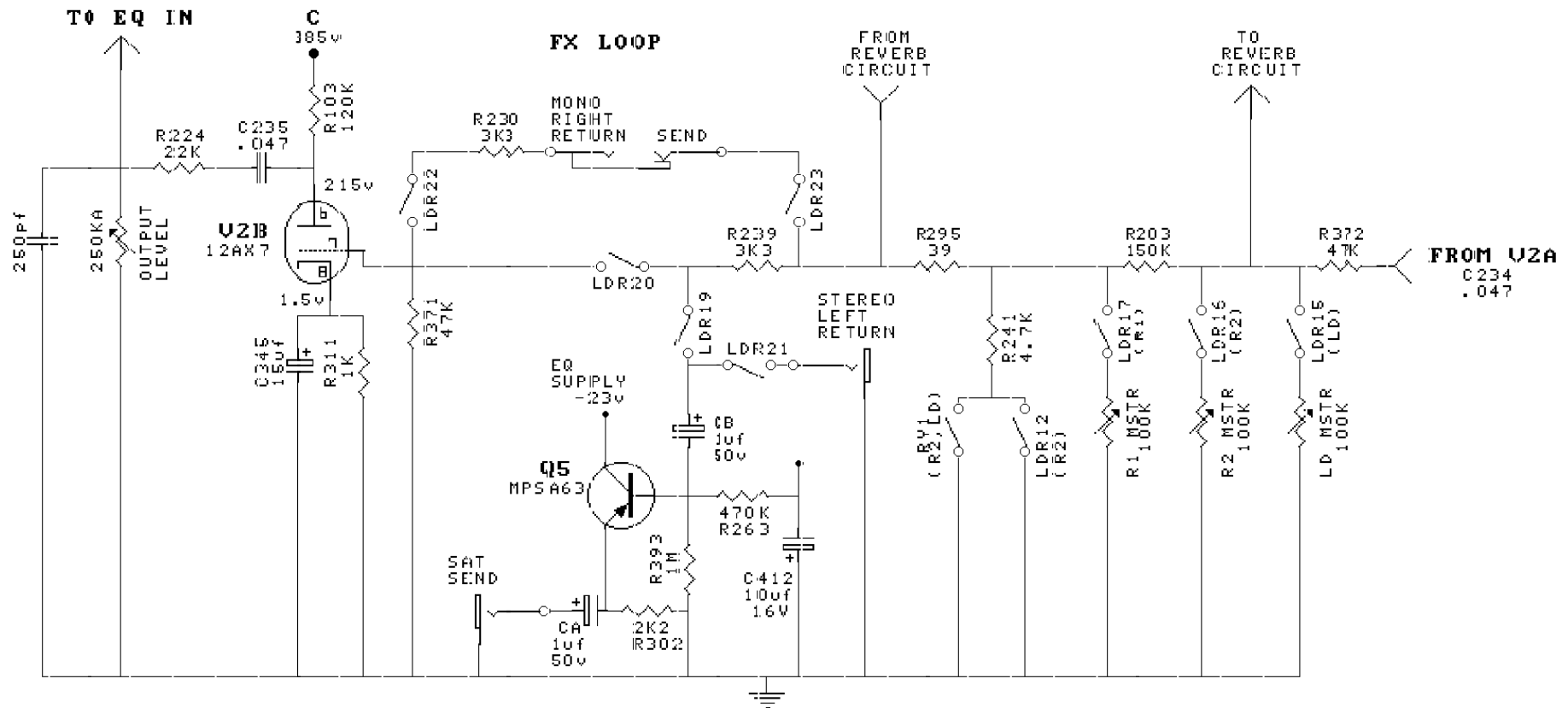
MARK IV LEAD STAGES

MESA-BOOGIE MARK IVB

PREAMP PART 3

FILE MK4BPRE3.S01

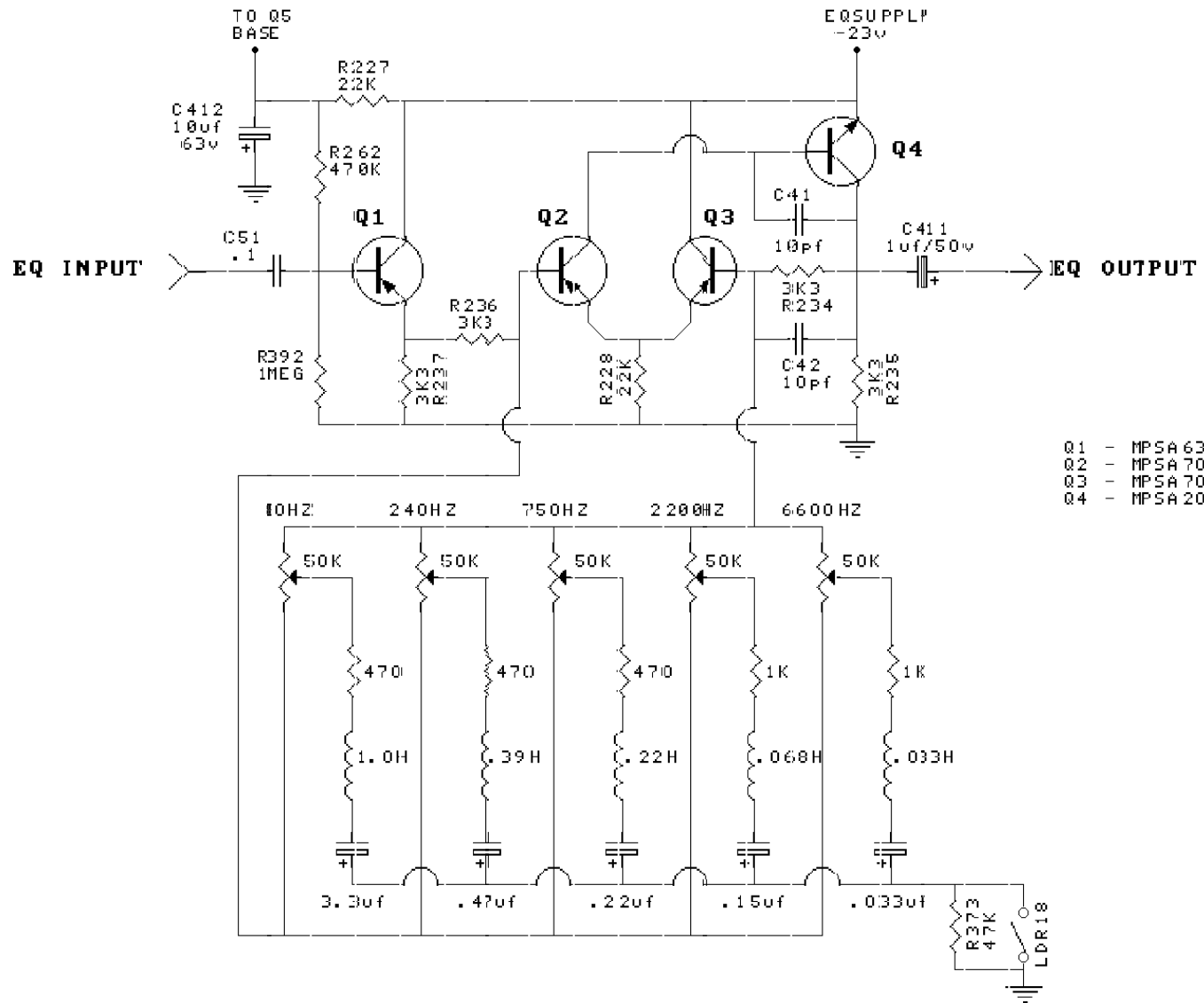
	LOOP ON	LOOP OFF
LDR18	OFF	LDR19 ON
LDR20	OFF	LDR20 ON
LDR21	ON	LDR21 OFF
LDR22	ON	LDR22 OFF
LDR23	ON	LDR23 OFF



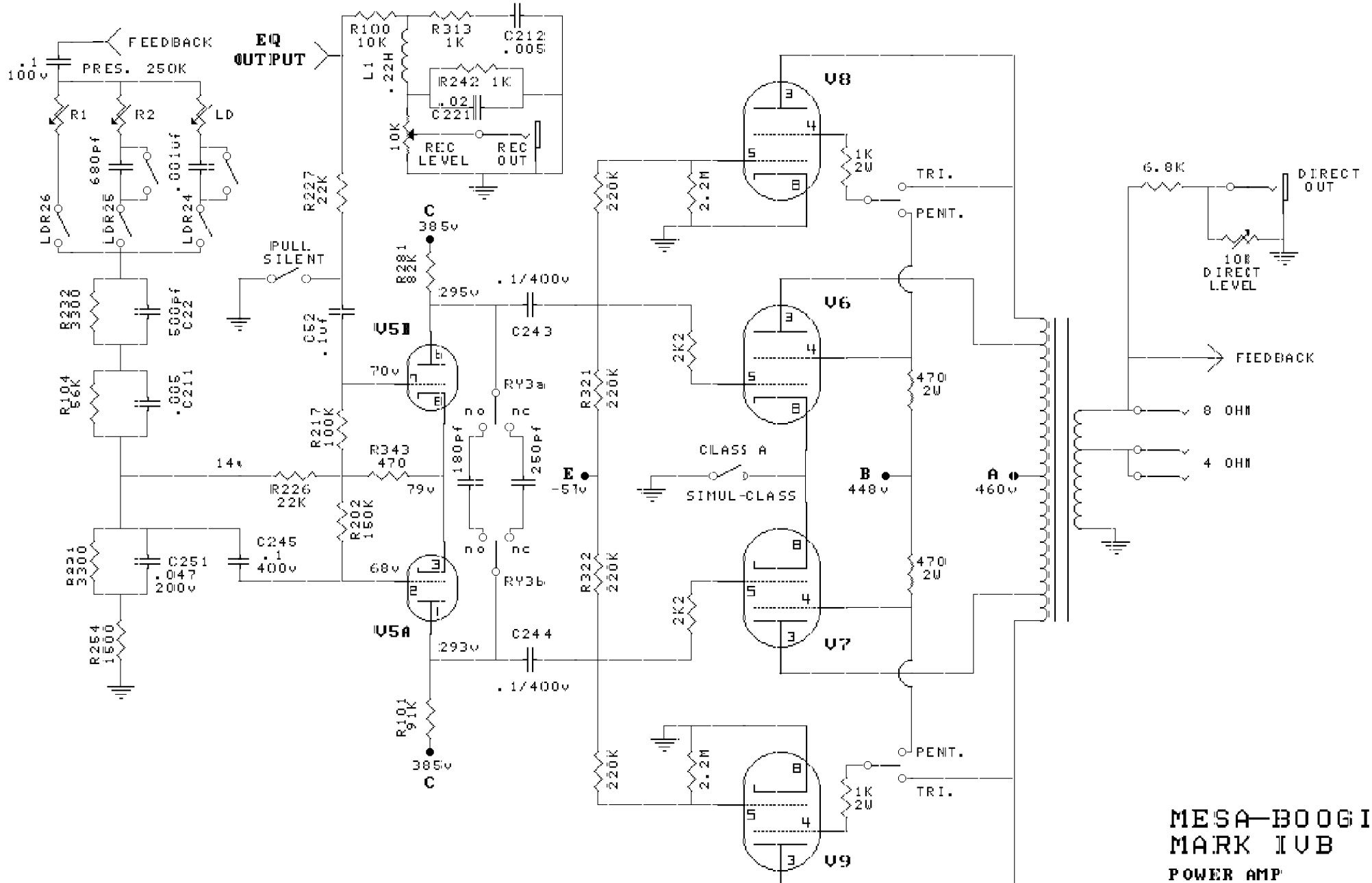
MESA-BOOGIE MARK IUB

GRAPHIC EQ

FILE MK4BEQ.541



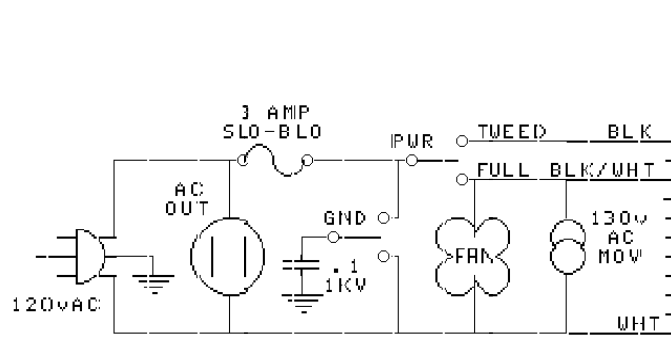
IN



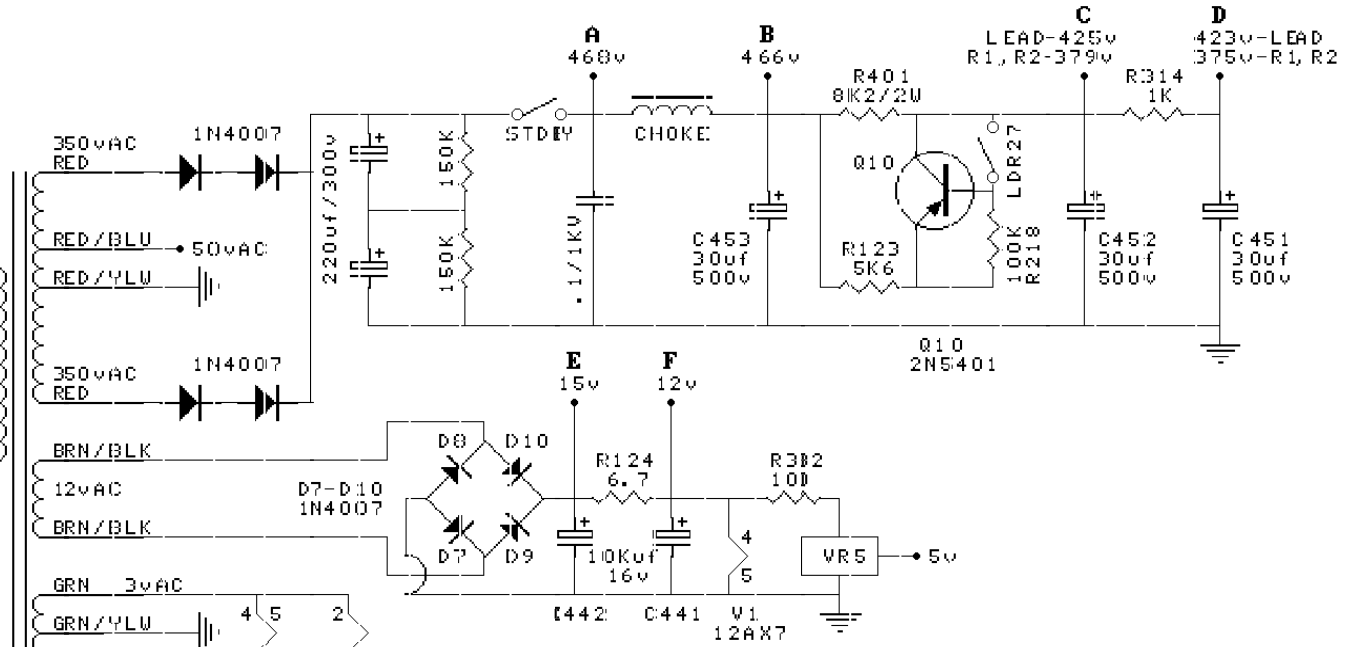
MESA-BOOGIE
MARK IUB
POWER AMP

MESA-BOOGIE MARK IUB

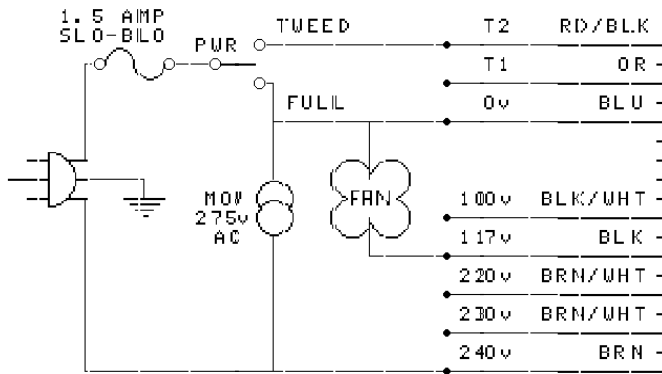
POWER SUPPLIES
FILE MK4BSUPP.S01



XFMR #561140
V2-V5 12AX7
V6-V9 6L6

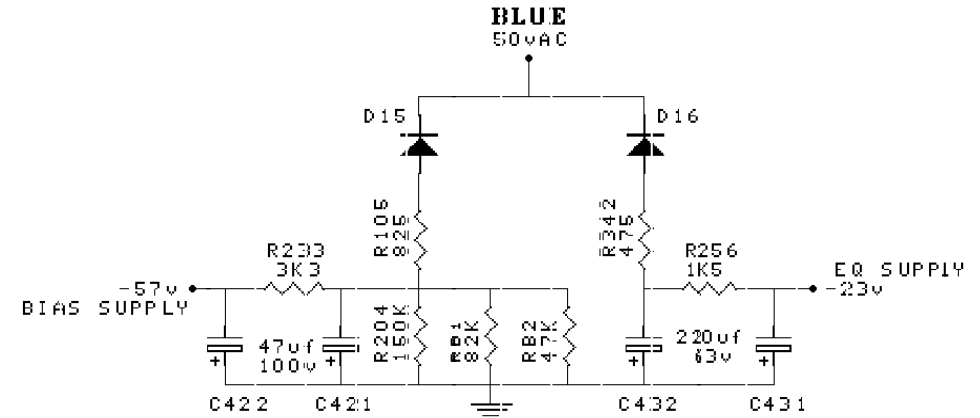


LOW VOLTAGE SUPPLIES



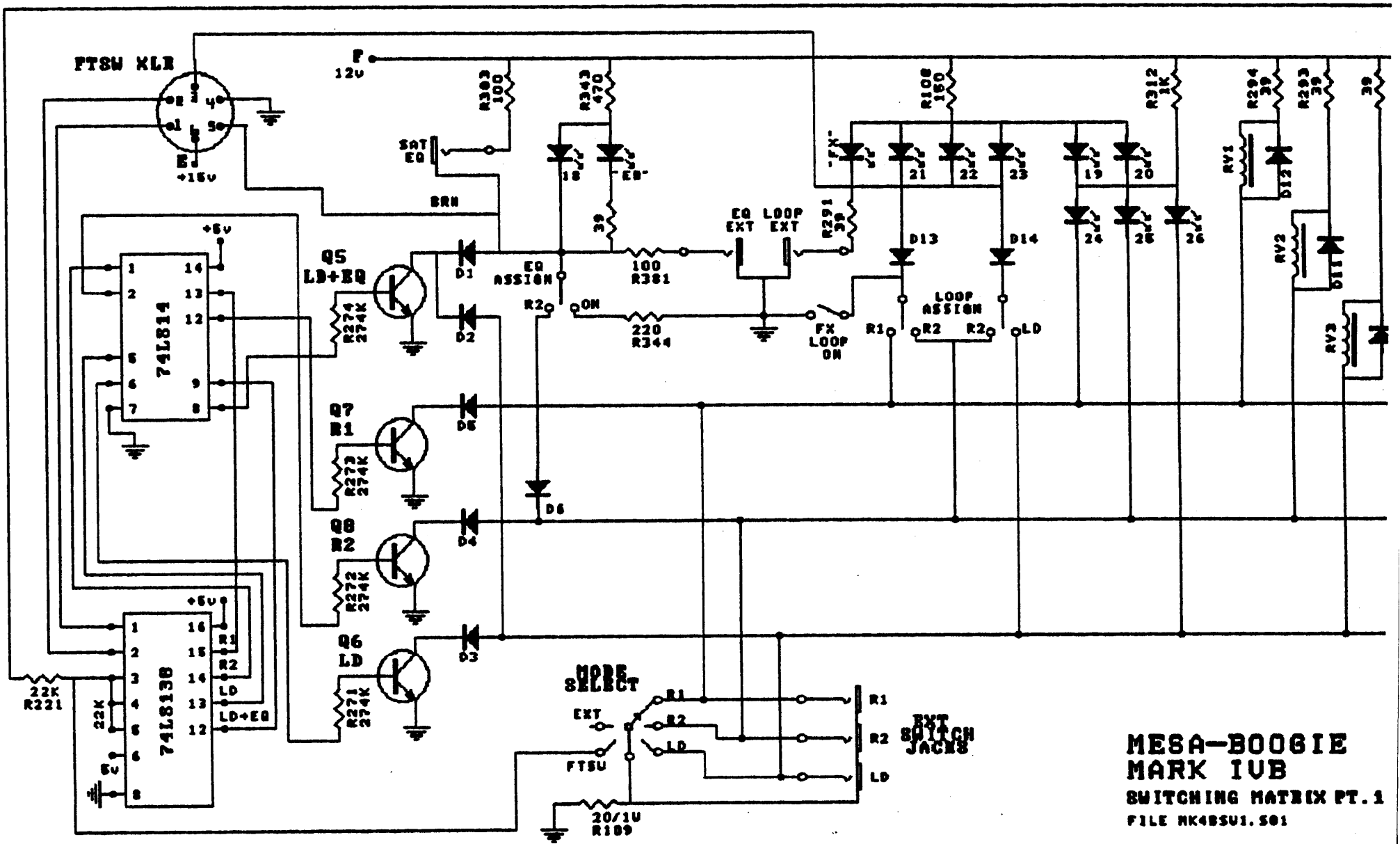
EXPORT PRIMARY

XFMR #561141

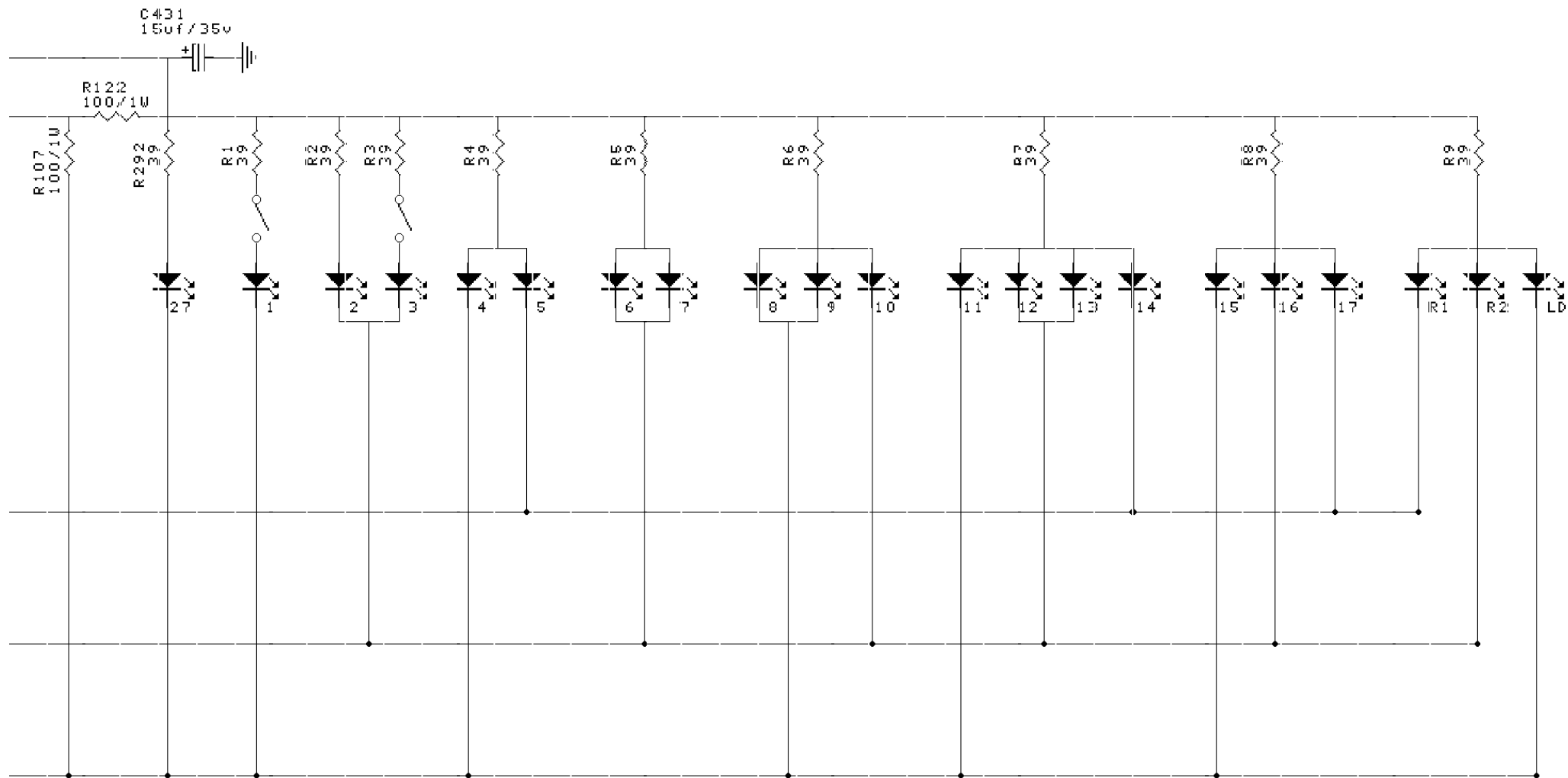


LOW V NEGATIVE SUPPLIES

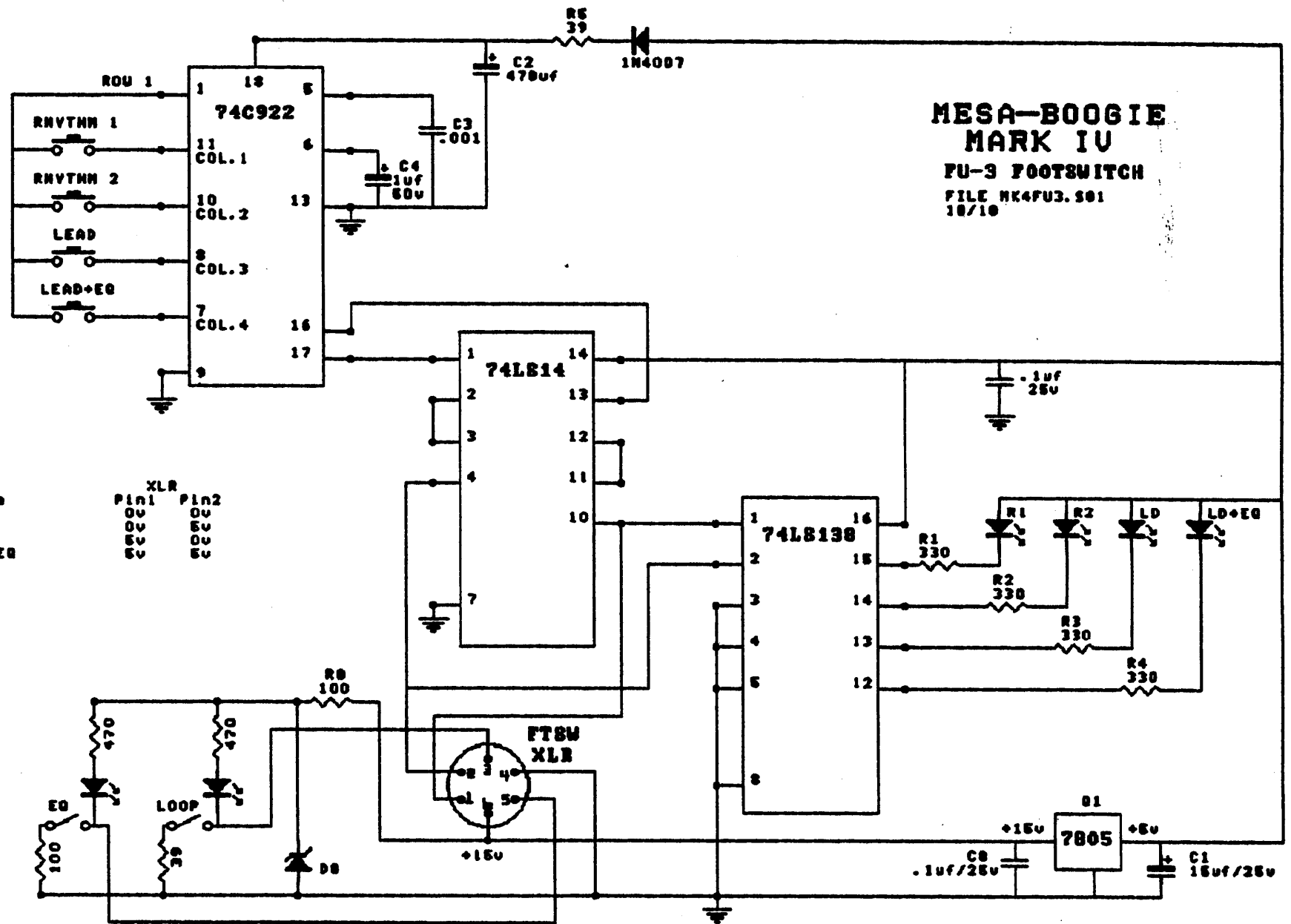
EQ SUPPLY
-23v



**MESA-BOOGIE
MARK IUB
SWITCHING MATRIX PT. 1
FILE HK4BSU1.501**



MESA-BOOGIE
MARK IUB
SWITCHING MATRIX PT2
 FILE MK4BSU2.S01



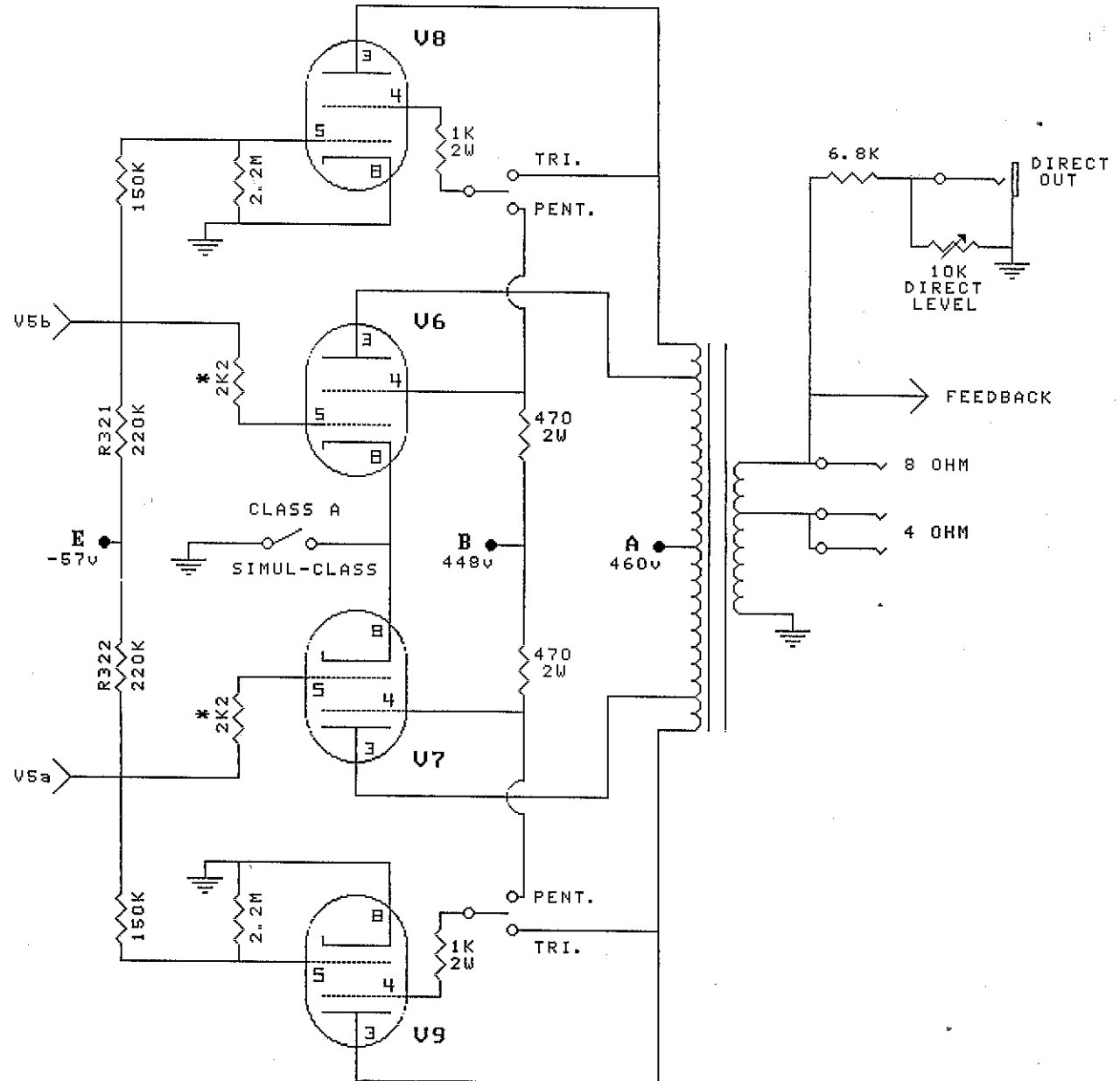
MESA/BOOGIE®

MARK IUB

POWER AMP STABILIZATION MOD

Cures "barking" noise ("gack")
experienced with some 6L6 tubes.

1. Remove existing buss wire connection between pin 5 of inner 6L6 sockets and terminal towers.
2. Install 2K2 series resistors *
3. Test for stability, all modes.



Mark IV "FU3" Foot Controller - Test Procedure

Purpose: to determine if an FU3 controller is functioning properly, independently of the Mark IV amp.

Tools Needed: voltmeter, two clip leads, and a 9-volt battery.

1. Loosen two strain relief screws on FU3 plug, loosen retaining screw on cover, and slide plug cover back to expose inner connections.
2. Connect 9V battery leads as follows: "plus" to pin 6, "minus" to pin 4. (At this point, the FU3 should light, and display modes as selected).
3. Connect voltmeter as follows: "minus" to pin 4, "plus" to pins 1 and 2 alternately.
4. If FU3 is functioning properly, voltages on pins 1 and 2 (referenced to pin 4) will be:

<u>Mode selected</u>	<u>Pin 1</u>	<u>Pin 2</u>
R1	0 volts	0 volts
R2	5 volts	0 volts
Lead	0 volts	5 volts
Lead + EQ	5 volts	5 volts