MESA/BOOGIE®

F-30

F 30

FRONT PANEL

CHANNEL 1		
Control Function	**Type**	**Mesa Part#**
Gain	Pot	591842
	Knob	408115
Treble	Pot	593148
	Knob	408115
Middle	Pot	593736
	Knob	408115
Bass	Pot	593148
	Knob	408115
Reverb	Pot	593150
	Knob	408115
Master	Pot	592738
	Knob	408115

CHANNEL 2		
Control Function	**Type**	**Mesa Part#**
Gain	Pot	593739
	Knob	408115
Treble	Pot	592738
	Knob	408115
Middle	Pot	593737
	Knob	408115
Bass	Pot	593739
	Knob	408115
Reverb	Pot	593150
	Knob	408115
Master	Pot	592794
	Knob	408115

MISC PARTS		
Control Function	**Type**	**Mesa Part#**
Input	Jack	610120
Channel Select	Switch	607303
Pilot Light		
	Light	703047
	Lens	703782
	Light Holder	703850
Standby	Switch	601073
Power	Switch	601073

REAR PANEL	
MISC PARTS		
Control Function	**Type**	**Mesa Part#**
Fuse Holder		
Domestic	Cap/Holder	790347
	Fuse	790200
Export	Cap/Holder	790346
	Fuse	795101
Record/Phones	Jack	618100
FX Loop		
Mix Level	Pot	593737
	Knob	408004
Send	Jack	618100
Return	Jack	618100
Speaker Mute	Switch	600115
Speaker Outs(3)	Jack	618100
AC	Jack	613713
Footswitch	Jack	613615

V2a

LEAD
GAIN

RY1B
no   nc

RY1A
no   nc

INPUT

V2b

RY2A

no

nc

LEAD
TONE
CONTROLS

V1a

RHYTHM
TONE
CONTROLS

RHYTHM
GAIN

V1b

no
nc

RY2B

V3a

SPRING
REVERB

5532

5532

nc   no

REVERB
LEVEL

RHYTHM
MASTER

RY2a

LEAD
MASTER

nc   no

TO EQ

GRAPHIC
EQ

FX
LOOP

SEND   RETURN

FX
MIX

V3b

SPKR
MUTE

V4b

EL84

8 OHM

4 OHM

V4a

EL84
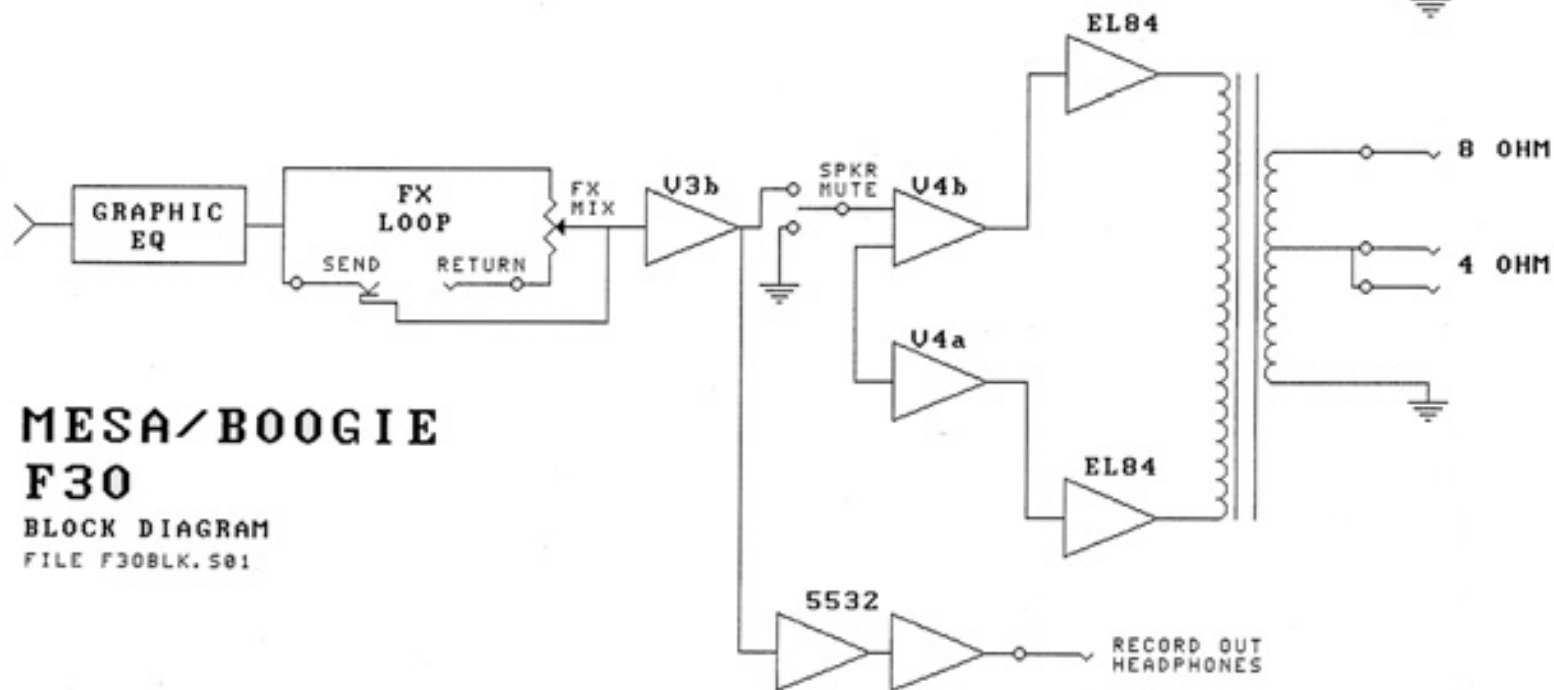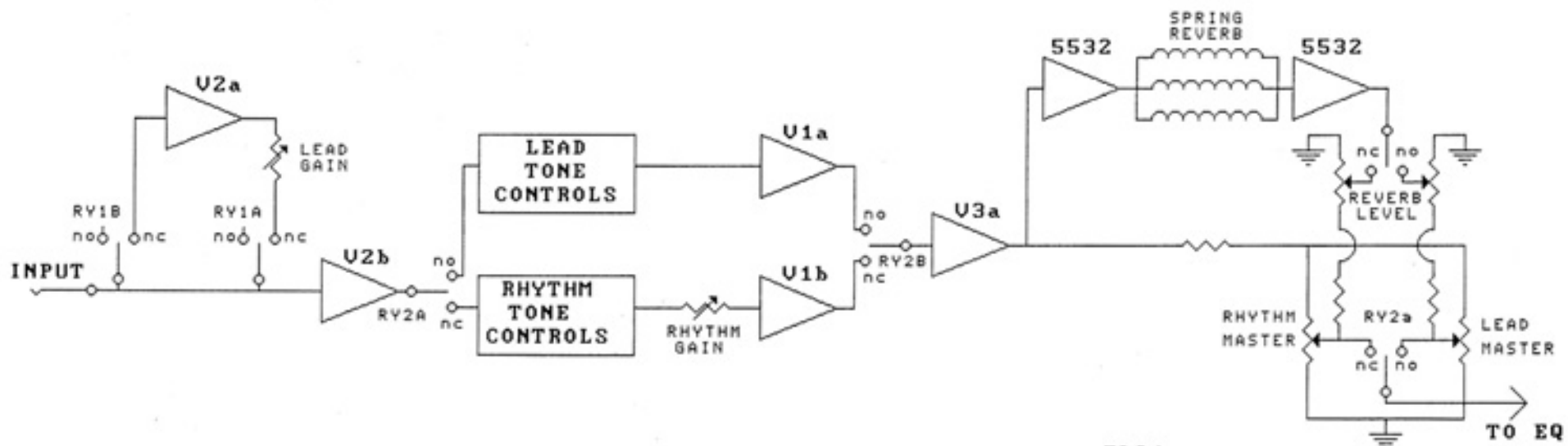
MESA/BOOGIE
F30

BLOCK DIAGRAM
FILE F30BLK.S01

5532

RECORD OUT
HEADPHONES

MESA/BOOGIE F30

POWER SUPPLIES
FILE F30SUP.S01

A 400V
B 333V
C 250V

5K6 7U   4K7   5K6   6K8
STDBY

RED
330vAC
BLUE 70VAC
RED/YLU
RED 330vAC
GRN 3.1vAC
GRN/YLU
GRN

4007

4007

.001 3KV   330K   330K   330K   .047 1KV

30uf 500v   30uf 500v   30uf 500v

30uf 500v

10uf 450v

1 AMP   PUR
BLK
MOV
BLK/WHT
WHT
120vAC
XFMR # 561122

1N4007
-160v
120K
15K   3v   E

33K   -15v   F

BIAS SUPPLY

1Kuf 25v

3.1vAC V3-V4 12AX7   V5-V6 EL84

+3v

C1
39
C2
39

C3

V1-V2 12AX7
4 5
9

-3v

C1-C3 6K8uf/10v   PILOT

1/2 AMP   PUR
BRN

.002   .047
.002   MOV
.002

220vAC TO 240vAC

220v BRN/WHT
230v BRN/RD
240v WHT

EXPORT PRIMARY

-15v G
4007   100   100
4744

560/7v

1Kmf 25v   1Kmf 25v

4007   68   68
4744

BLUE

H 15v

4007   1K   1K (0 XPT)   +15v   I

150uf 100v
4744

MESA/BOOGIE
F30
PREAMP

FILE F30PRE.S01

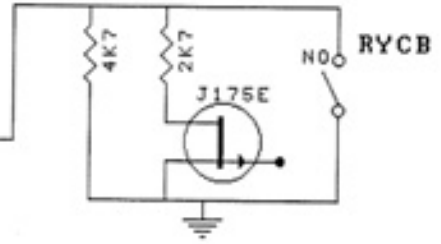Schematic diagram — MESA/BOOGIE F30 Preamp, FILE F30PRE.S01
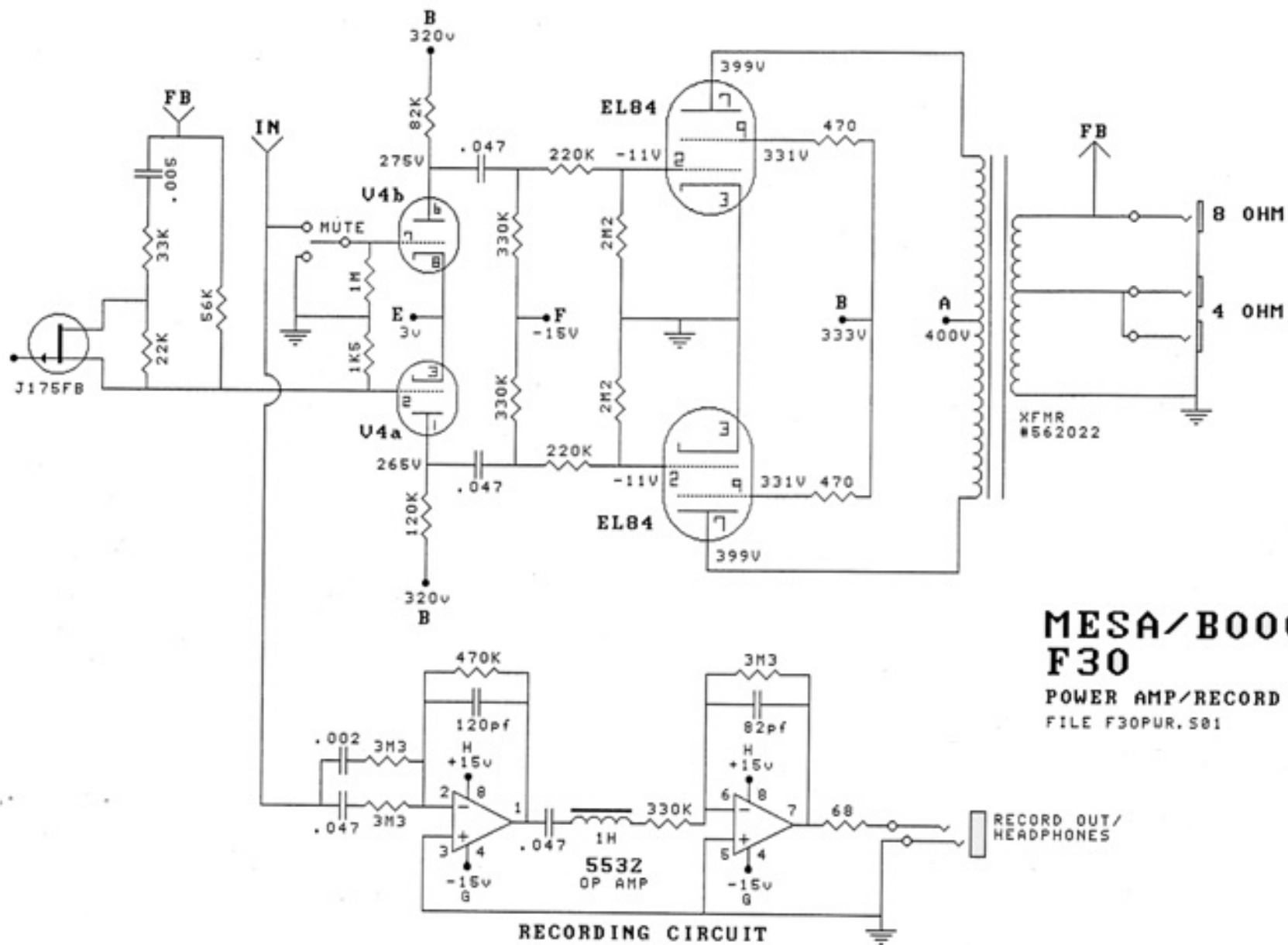
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REVERB CIRCUIT

FILE F30REV.S01

5532
REVERB CIRCUIT

MESA/BOOGIE
F30
EQ/FX LOOP
FILE F30EQLOOP.S01
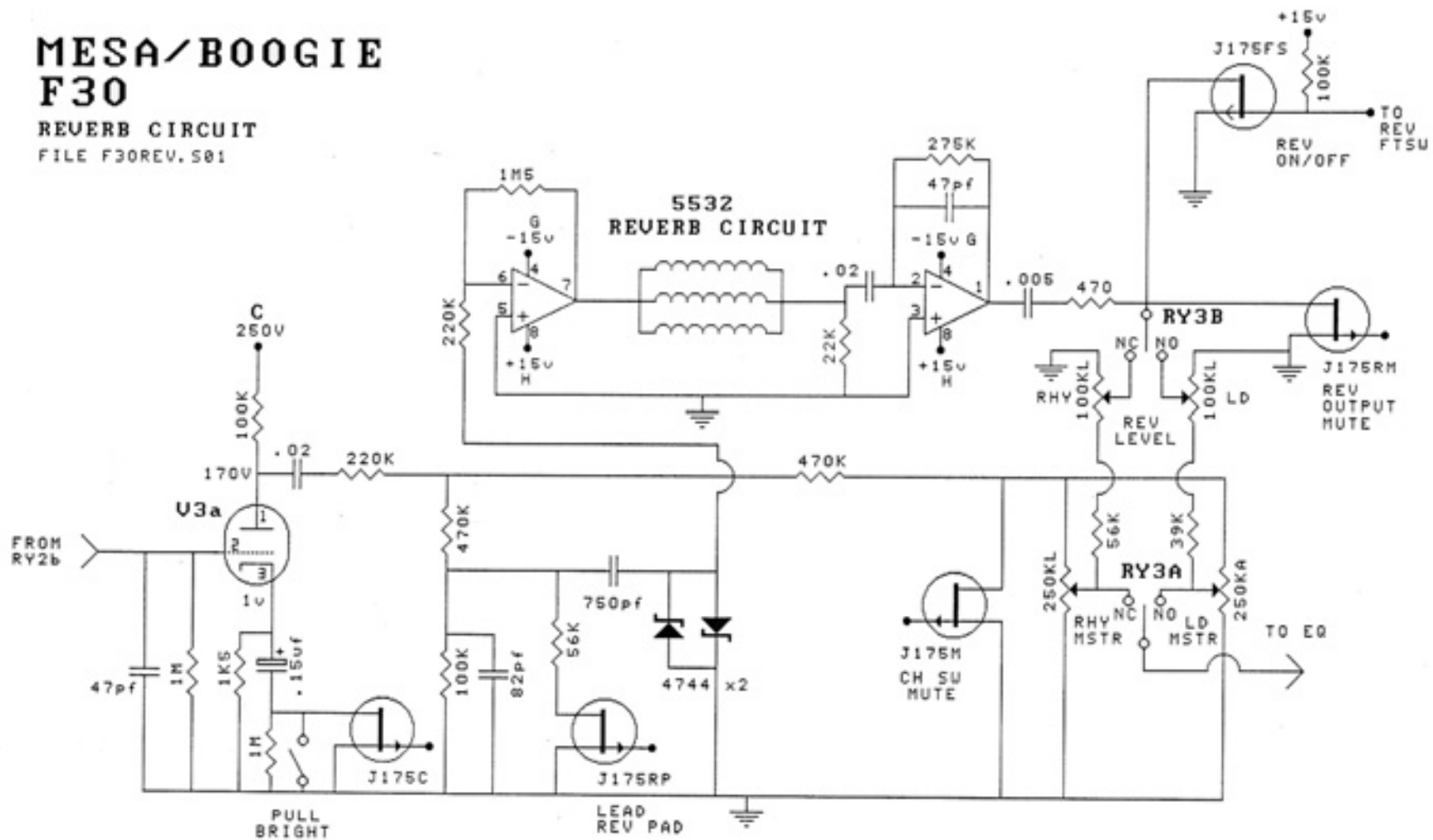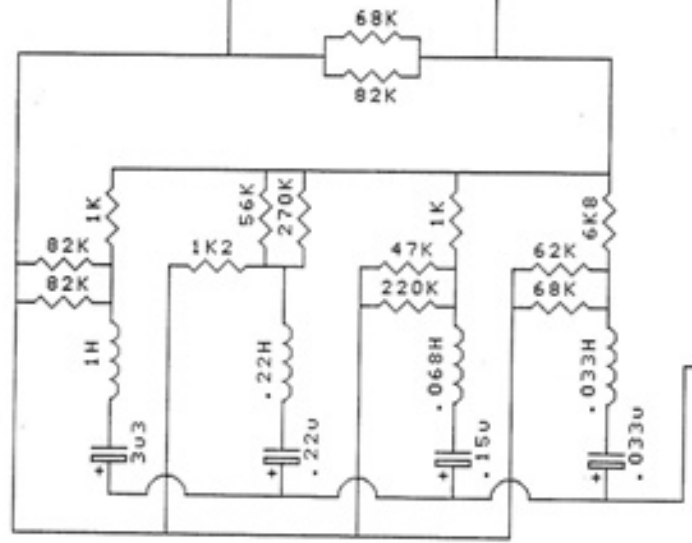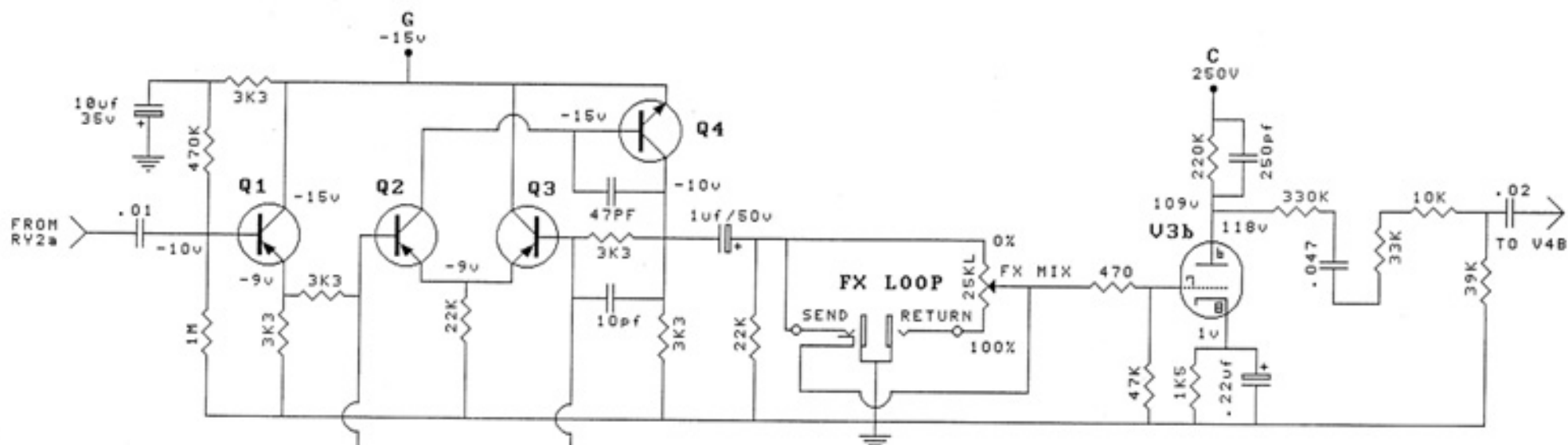
CONTOUR FILTERS

Q1-MPSA63
Q2,Q2-MPSA70
Q4-MPSA20

MESA/BOOGIE F30
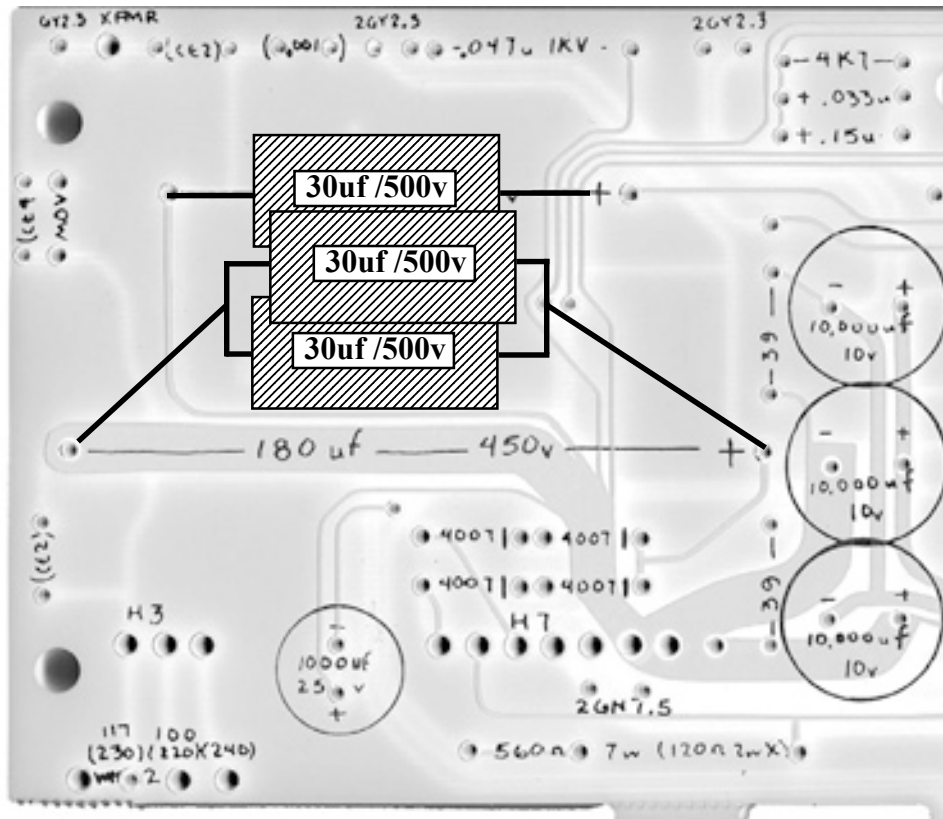
POWER AMP/RECORD OUT

FILE F30PUR.S01

RECORDING CIRCUIT
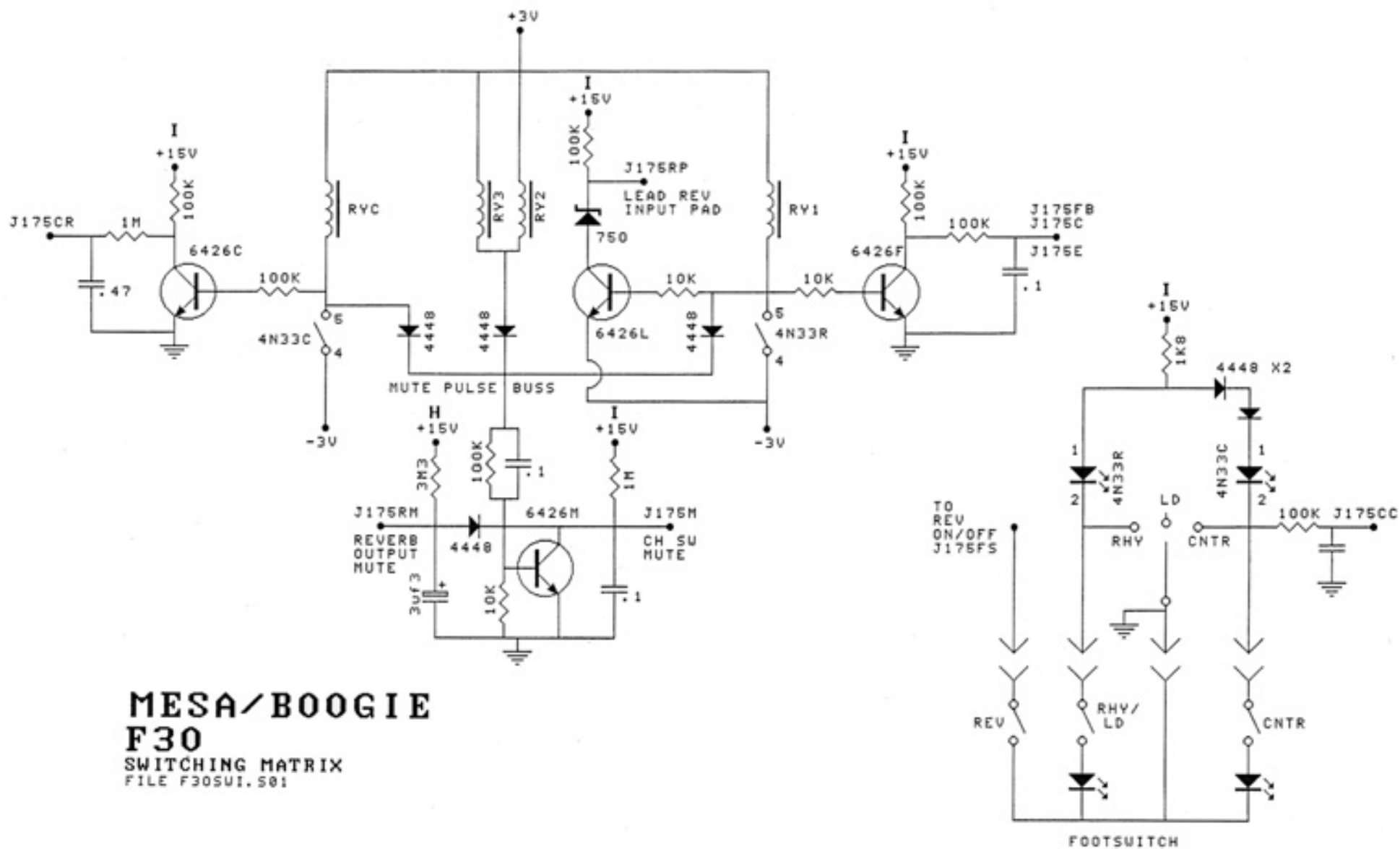
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F30
SWITCHING MATRIX
FILE F30SUI.S01

Power Supply Mod

-Replaces 180uf / 450v filter cap with two 30uf / 500v filter caps in parallel

1 Remove 180uf / 450v cap.

2 To remove cap: Clip leads at midpoint. Pull firmly upwards to break glue bond *(see below)*.

   **note: If cap is extremely difficult to remove: Cut the plastic, remove the metal cap, peel off plastic.

3 Install two 30uf / 500v as shown above.

4 Glue caps to board with silicon.

Breaking Glue Bond   **Finished Installation**