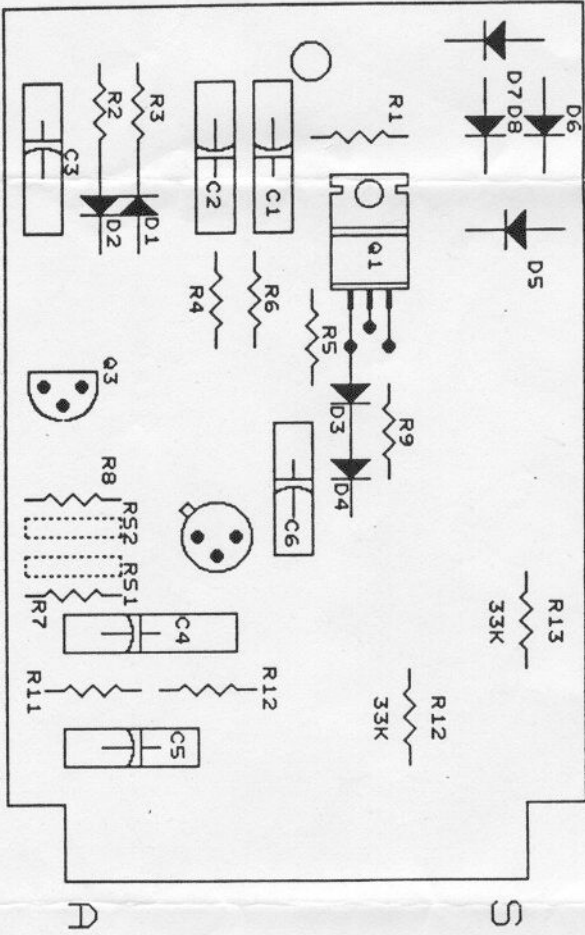
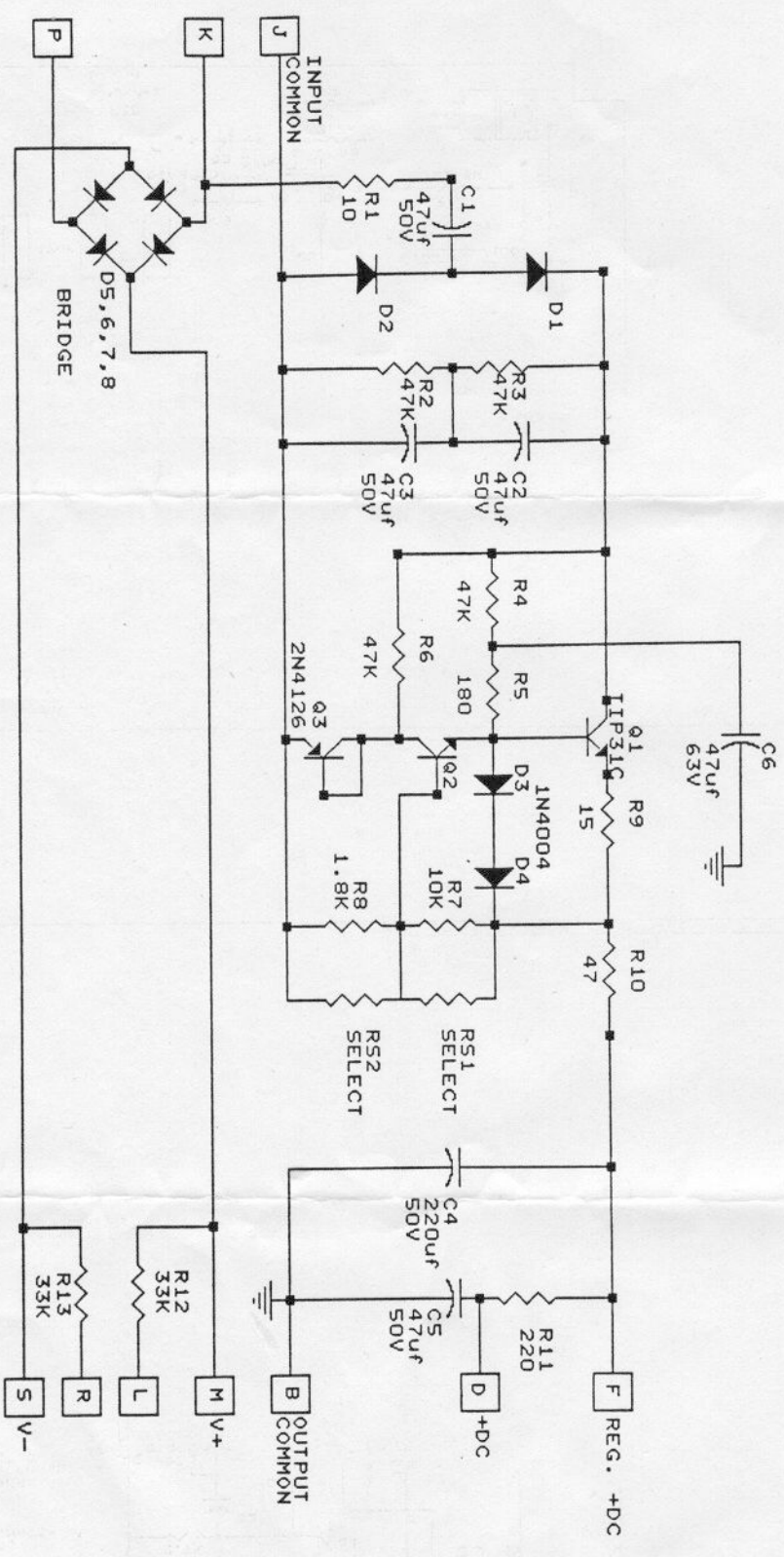


EDGE CARD PIN  
ASSIGNMENTS

A=N.C. COM. OUT  
B=GND COM. OUT  
C=N.C.  
D=DC OUT 47.4V  
E=N.C.  
F=REG +DC OUT 48.0V  
H=N.C.  
J=GND COM IN  
K=XFMR AC  
L=N.C.  
M=+DC  
N=PILOT  
P=XFMR AC  
R=PILOT  
S=-DC

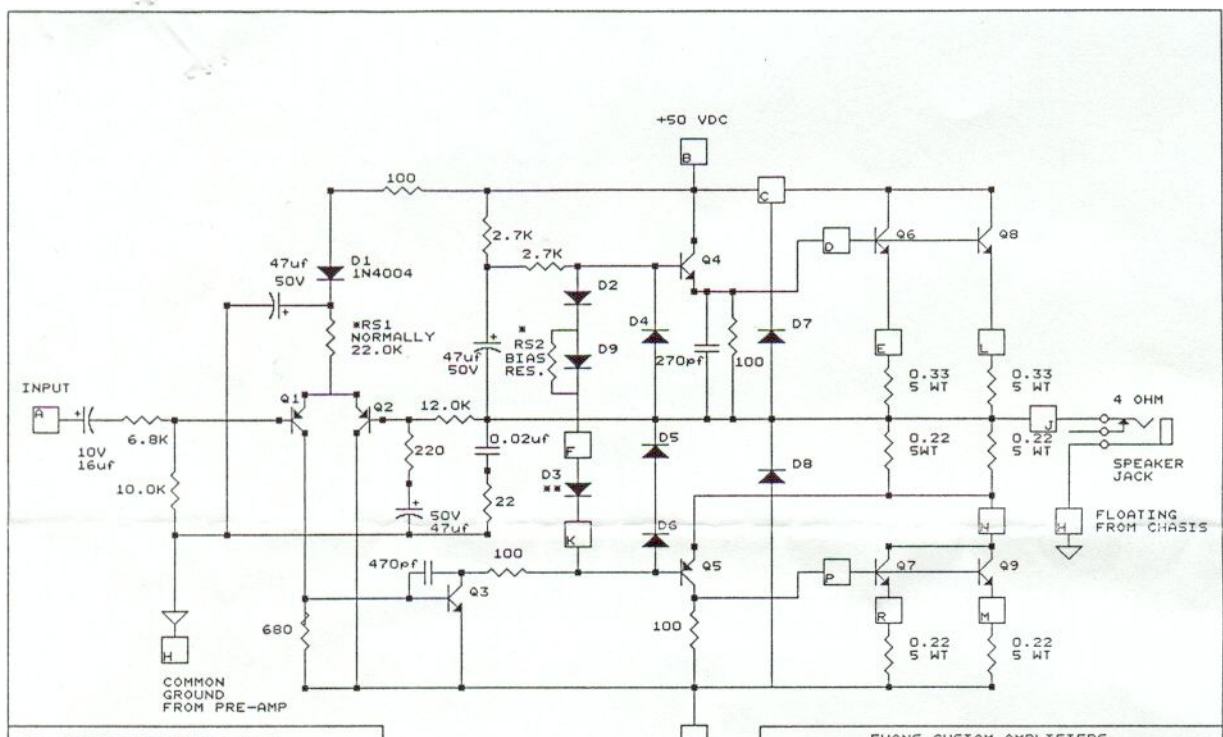


EVANS CUSTOM AMPLIFIERS 448 MOHICAN LANE SHREVEPORT, LA. 71106	
Title	POWER SUPPLY/FET 500LV SERIES
Size	Document Number PCB/LVPS
A	REV 2
Date:	February 18, 1991 Sheet 2 of 2



R21 & R52 ARE PULL UP/DOWN RESISTORS  
 USED FOR POWER SUPPLY REGULATION; 48VDC/+1.0/-0.5  
 ALL RESISTORS ARE 1/2 WATT  
 D5,6,7,8=1N5406  
 Q2=RCH 1A11 OR SUBSTITUTE

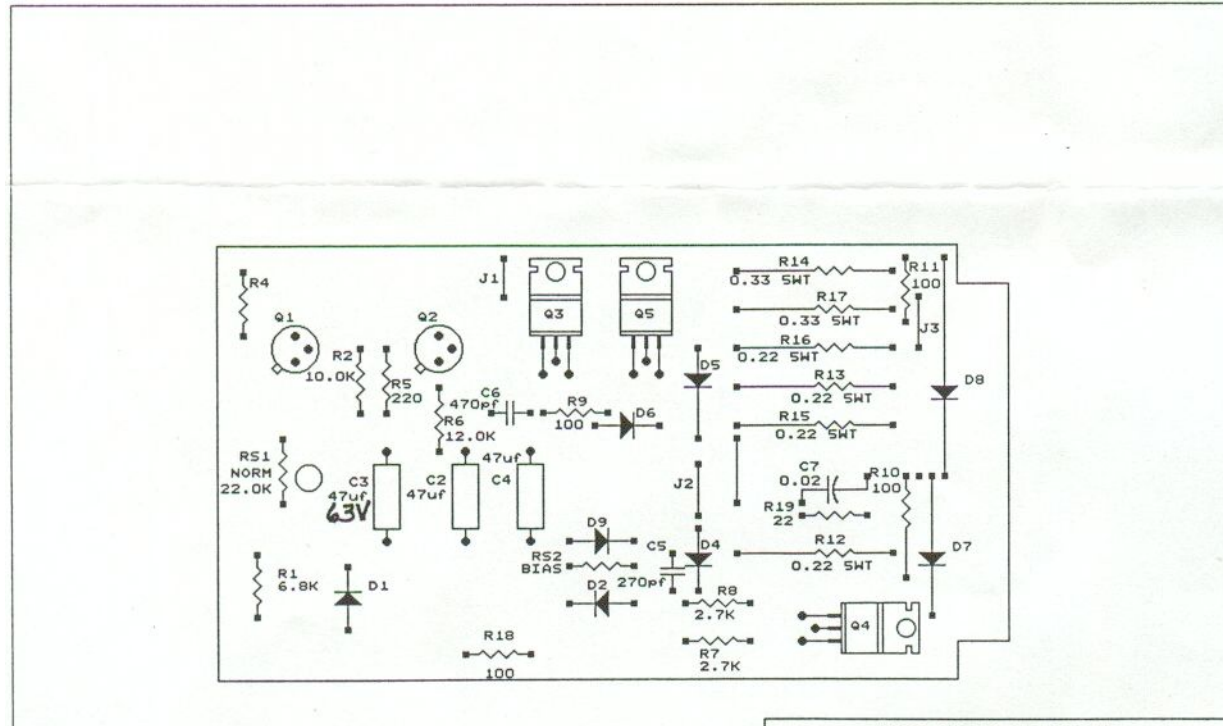
EVANS CUSTOM AMPLIFIERS	
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TITLE POWER SUPPLY/FET 500LV SERIES	
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A	PCB/LVPS
Date:	February 18, 1991 Sheet 1 of 2
REV	2



Q1, Q2=MPSA93 OR RCA 1A10  
 MATCHED PAIR  
 Q3, Q4=TIP31-C  
 Q5 =TIP32-C  
 Q6 - Q9=MJB02  
 D1, D9, D4=1N4004  
 D5, D6= 2 EA. 1N4004 IN SERIES  
 D2, D3=1N4007  
 D7, D8=1N5406  
 ALL RESISTORS 1/2 WT UNLESS NOTED  
 \*\* DENOTES; MOUNTED ON HEAT SINK  
 \* DENOTES; ADJUSTED @ FACTORY

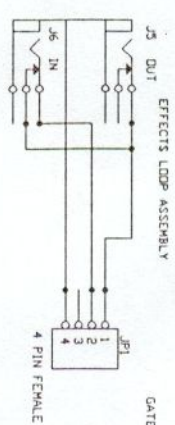
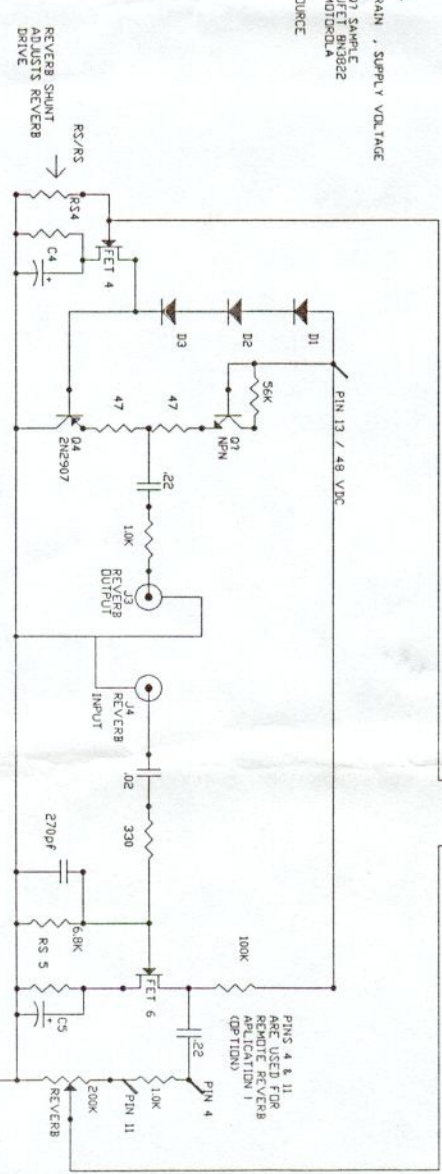
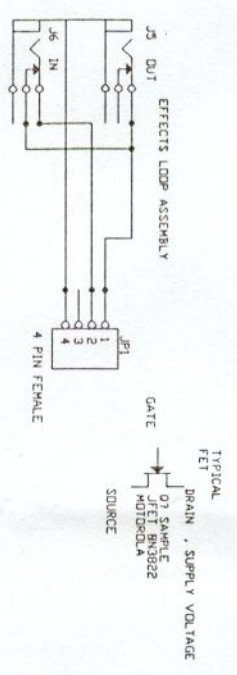
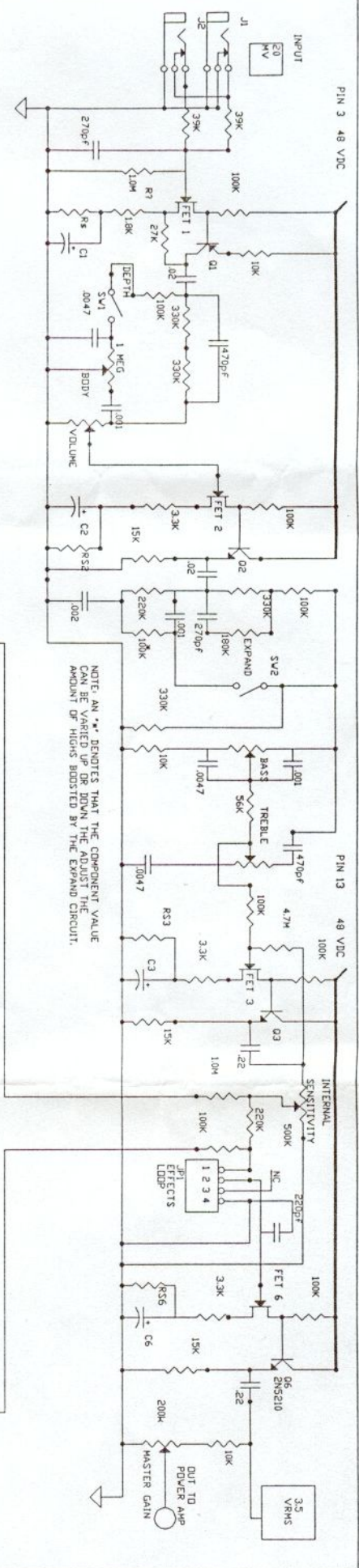
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Title		DB-500/POWER AMPLIFIER MODULE
Size	Document Number	REV
A	DB-500-01	4
Date: November 24, 1990 Sheet 1 of 1		



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Title		DB-500/POWER MODULE COMPONENT LAYOUT
Size	Document Number	REV
A	DB-500-02	4
Date: November 25, 1990 Sheet 1 of 1		



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PHONE: 508-739-2881	
Title	EVANS FET 500 LV PRC-AMP
Size	Document Number
B	PA.V-03
Date:	December 8, 1993
Sheet	1 of 1
REV	3

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SUBJECT: PRINTED CIRCUIT BOARD CHANGE-OUT INSTRUCTIONS

Driver Board (DB-500)

Turn power off unit  
Discharge the filter capacitors (large blue caps/7200 uf)  
using a 2 watt 47 OHM resistor or less; may use 8 OHM 100 watt  
Remove the board from the chassis (one screw at the top of the  
board.)  
Insert new board.

Power Supply (PS-500)

Turn power off unit  
Discharge filter capacitors  
Remove the board from the chassis (unplug from edge card  
connector.)

Power Transistors

Turn power off unit  
Discharge filter capacitors  
Remove driver board as per notes above.  
Remove the power transistors from the heat sink one at a time to  
prevent the wiring harness from getting loose. Use silicon  
heat sink compound (white) on the transistors and insulating  
wafers before installing the new transistors. Do this pro-  
cedure until all transistors are replaced. At this time,  
check for continuity between the case of the transistors and  
the chassis ground using a VTVM or multimeter. If you read  
continuity during this check on any transistor you have a  
short from collector to ground and this unit will not perform.  
You must completely insulate each transistor from ground.

After these transistors are installed properly, you may turn  
the power on the unit, without the speaker connected.

NOTE: When working on any power amplifiers, it is necessary to  
use a ballast for protection against burn-outs. A ballast  
consists of a 100 watt light bulb wired in series with hot leg  
of the AC power line. If the bulb lights up bright, this  
means you still have a major problem. All unit turn ons need  
to be done without speaker load first; then measure for DC  
on the output buss (speaker jack). If there is no DC at this  
point, connect the speaker and the amplifier should perform.  
If not, CALL US...(318) 798-2881

DERRELL STEPHENS  
EVANS CUSTOM AMPLIFIERS  
448 MOHICAN LANE  
SHREVEPORT, LA. 71106

STEPS FOR SETTING UP THE LV SERIES PRE-AMPLIFIER

1. VISUALLY CHECK ALL BOARDS FOR COMPONENT INSERTION MISTAKES.
2. SET UP THE POWER SUPPLY WITH THE PREAMP BOARD INSERTED. THIS ALLOWS THE POWER SUPPLY TO HAVE A LOAD DURING CALIBRATION PROCEDURES. SET TO 48.0 VOLTS D.C., + 1.0 VOLTS, -0.2 VDC. TOLERABLE RANGE = 47.8 VDC THROUGH 49.0 VDC..
3. CONNECT THE RESISTANCE DECADE SELECTOR BOX AS FOLLOWS:
  - A. BLACK LEAD TO GROUND (SOMEWHERE ON PREAMP BOARD).
  - B. RED LEAD TO THE POSITIVE SIDE OF THE "RS" CAPACITOR OR "EQUAL SCHEMATIC POINT". CONNECT THE SCOPE PROBE ON THE OUTPUT SIDE OF THE STAGE COUPLING CAPACITOR.
  - C. **NOTE:** SET THE PREAMP CONTROLS FULLY CLOCKWISE WITH THE EXCEPTION OF THE REVERB & MASTER GAIN CONTROLS (DEPTH & EXPAND - OFF

OPTIMIZE THE HEAD-ROOM OF EACH PREAMP STAGE BY INJECTING A mv LEVEL SIGNAL INTO THE INPUT OF EACH STAGE HIGH ENOUGH (600 mv typical) TO MAX OUT THE STAGE HEADROOM MEASURED ON THE O'SCOPE LEAD. MAX OUT MEANS CLIPPING WILL OCCUR ON THE SCOPE SIGNAL. USUALLY A SIGNAL WITH A 600 mv TO 1.0 mv AMPLITUDE WILL CAUSE THIS CONDITION. USE THE DECADE BOX TO SELECT THE MOST SUITED RESISTANCE TO BALANCE THE "CLIPPING" EFFECT OF THAT PARTICULAR STAGE...PARABOLLA SHOULD BE SEMETRICAL.

NOTE: THE PREAMP INPUT SIGNAL MUST BE ABLE TO WITHSTAND AT LEAST A 630 mv @ THE 1st STAGE AND REMAIN CLEAN BEFORE WE WILL USE THAT BOARD. MINIMUM HEADROOM FOR INPUT = 630 mv (0.630 VRMS @ 1KHz; INPUT JACK #1). ALSO, THE LAST STAGE OF THE PREAMP SHOULD BE ABLE TO WITHSTAND AT LEAST 700 mv CLEANLY.

4. AFTER THE PRIMARY STAGES ARE SET UP, THE REVERB DRIVE MUST BE ADJUSTED TO MEET OUR STANDARDS. CONNECT THE DECADE BOX LEADS BETWEEN THE INPUT OF THE REVERB DRIVE STAGE AND GROUND. SET THE REVERB DRIVE RMS VOLTAGE TO 11.0 - 12.0 VRMS...A REVERB PAN NEEDS TO BE CONNECTED TO THE REVERB LEADS.

