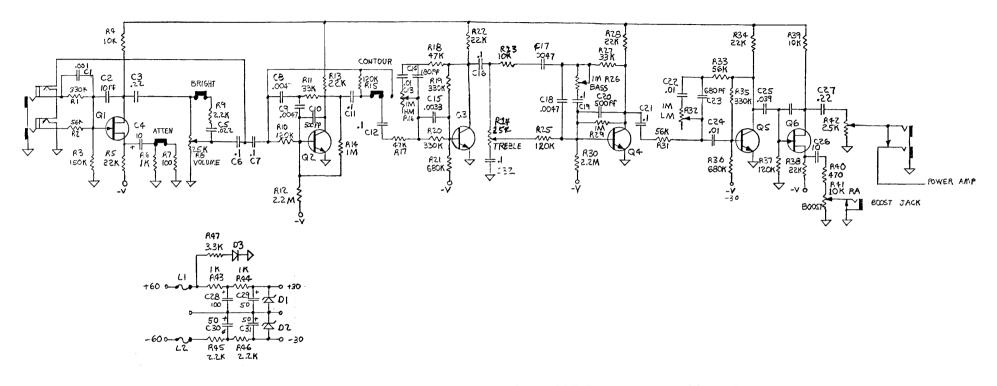
## G/K 400B

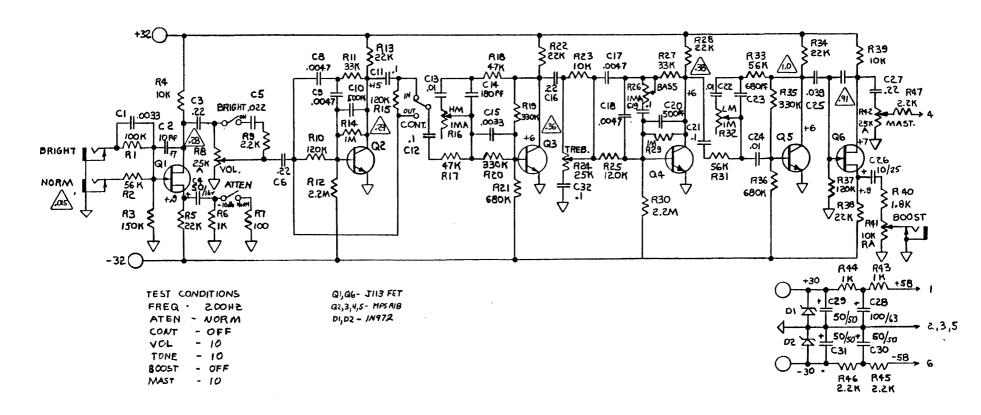
This document contains all five known versions of the 400B power amp and two versions of the 400B preamp.

**Known Transistor Subs:** 

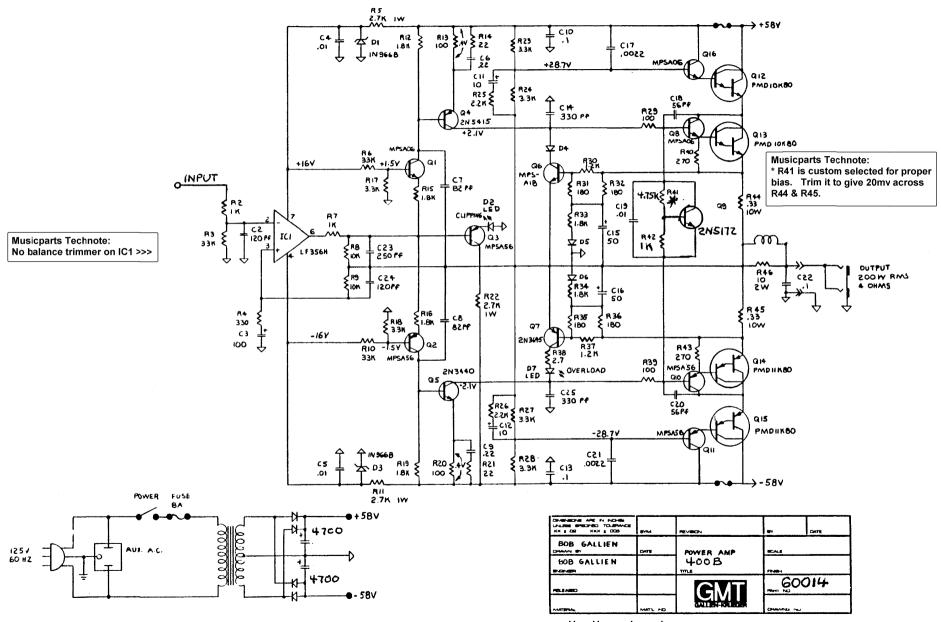
PMD10K80 / PMD1603 use 2N6284 PMD11K80 / PMD1703 use 2N6287



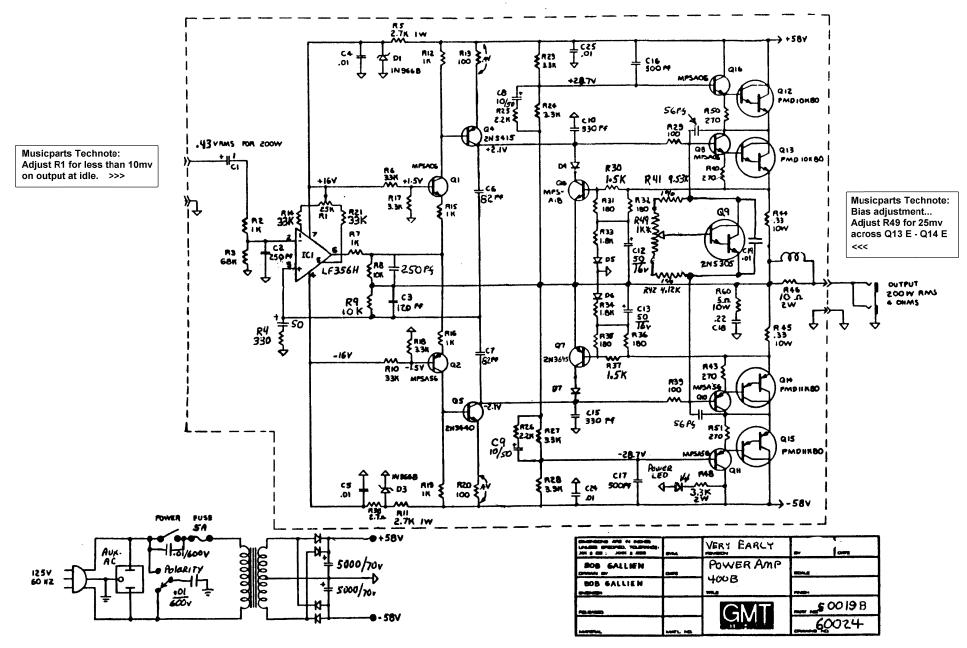
G-K 400B Preamp very old version



	GALLIEN - KRUEGER
R.A.G.	400B PREAMP
SN-6629	A 61009

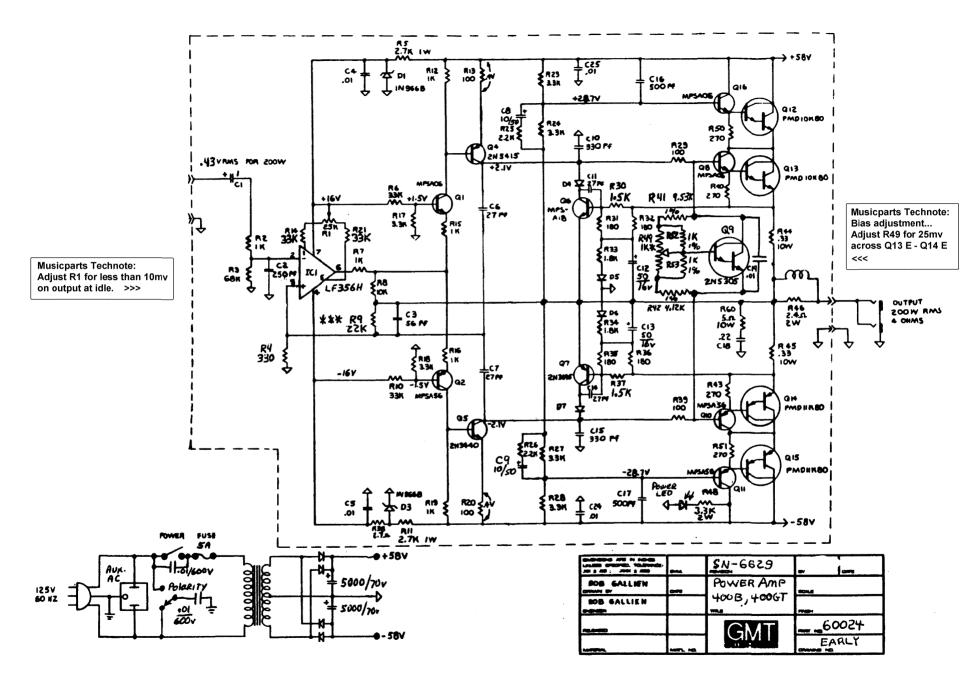


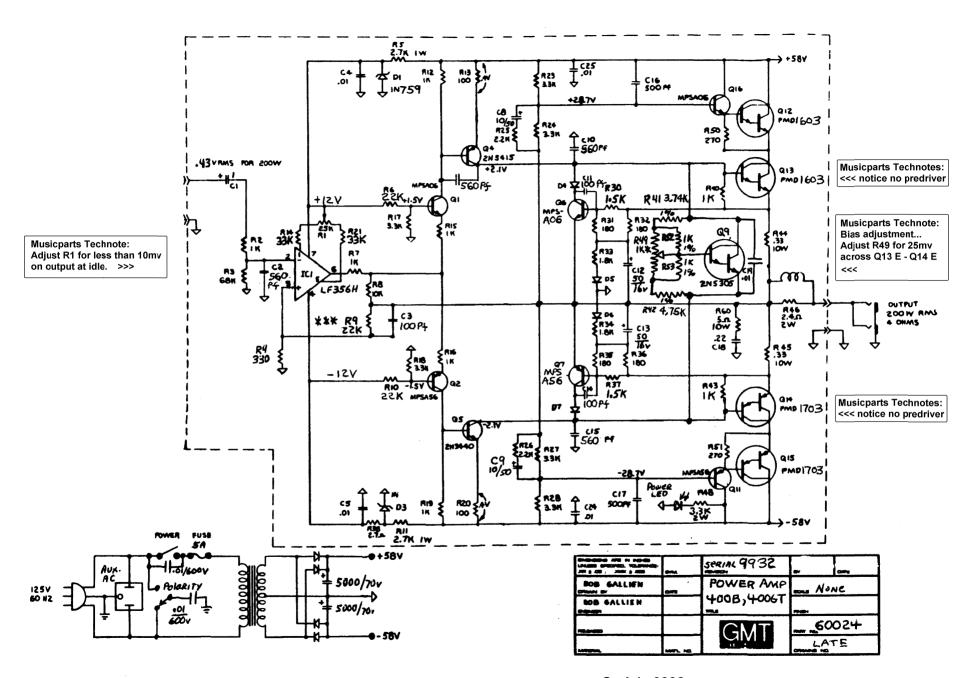
Very-Very early version



Very early version

Serials 4500 up





Serials 9932 up

## OUTPUT BIAS UPDATE

This change provides for a more accurate means of setting the idle current in the output stage, as well as better tracking over temperature.

- 1. Remove thermal bias transistor Q9 from heat sink and replace with transistor in kit.
- 2. Cut the circuit trace as shown on diagram. This trace connects R41 and R42. R41 and R42 are the bias set resistors and are the 1% resistors located near the thermal bias transistor. Replace these resistors as follows:
- 3. R41 will be either a 4.99K 1% or a 4.75K 1% resistor. Remove it and install the 9.53K 1% resistor in its place.
- 4. R42 is a 1K 1% resistor. Remove it and replace it with the 4.75K 1% resistor supplied with the kit.
- 5. Glue the trim pot supplied to the circuit side of the board shown on the diagram. Solder pins as shown for each board.

## INPUT BIAS UPDATE

This change lowers the supply voltage to the input integrated circuit reducing its power dissipation.

- 1. Remove D1 (1N968B). Replace with 1N966B supplied with kit.
- 2. Remove D3 (1N968B). Replace with 1N966B supplied with kit.
- 3. Remove R17 (2.7K). Replace with 3.3K supplied with kit.
- 4. Remove R18 (2.7K). Replace with 3.3K supplied with kit.
- 5. Install heatsink on ICl case.

This completes all alterations. Set the bias as follows:

1. Using DVM connected from Q13E to Q14E adjust the trim pot to give 25mv + 5mv. Let the amp run for five minutes and readjust.

XPINS 1 12 TO R42 PIN 3 TO R41

