

Plate Voltage (No Load) 3200VDC

SCHEMATIC OF THE HEATHKIT® 2KW LINEAR AMPLIFIER MODEL SB-221

**Safety Instructions**  
Use Caution when servicing.

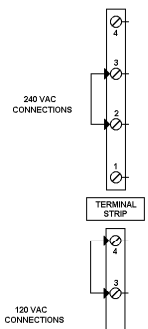
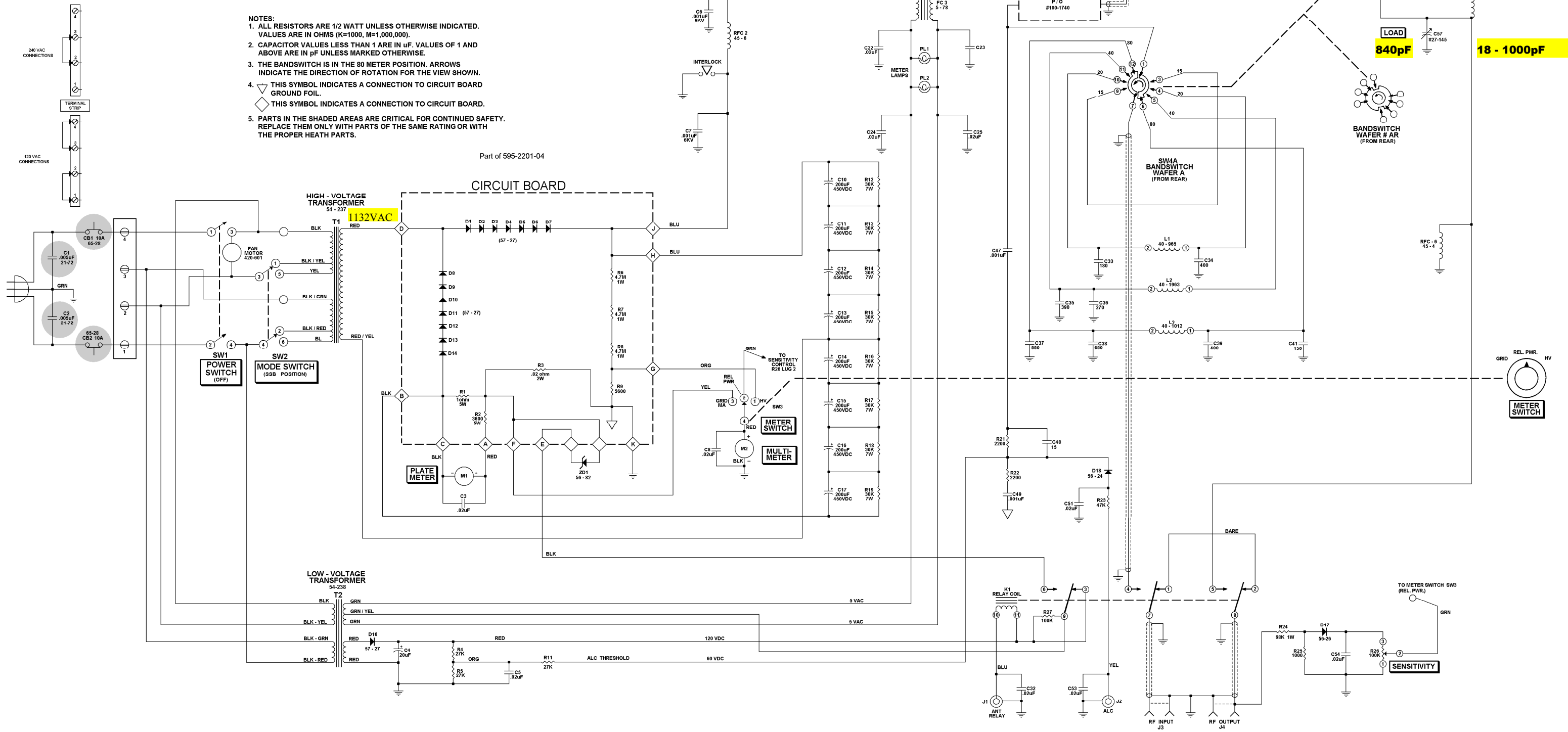
**Warning:** Lethally high voltages are present inside the amplifier unit. Never remove either top or bottom cover when power line is connected. DO NOT attempt to operate unit when covers are removed.

**Disclaimer:** Although the greatest care has been taken while compiling these documents, we cannot guarantee that the information is 100% correct. Copyright © 2004 B. Beilin

- NOTES:**
1. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE INDICATED. VALUES ARE IN OHMS (K=1000, M=1,000,000).
  2. CAPACITOR VALUES LESS THAN 1 ARE IN  $\mu$ F. VALUES OF 1 AND ABOVE ARE IN pF UNLESS MARKED OTHERWISE.
  3. THE BANDSWITCH IS IN THE 80 METER POSITION. ARROWS INDICATE THE DIRECTION OF ROTATION FOR THE VIEW SHOWN.
  4.  $\nabla$  THIS SYMBOL INDICATES A CONNECTION TO CIRCUIT BOARD GROUND FOIL.
  5.  $\diamond$  THIS SYMBOL INDICATES A CONNECTION TO CIRCUIT BOARD.
  6. PARTS IN THE SHADED AREAS ARE CRITICAL FOR CONTINUED SAFETY. REPLACE THEM ONLY WITH PARTS OF THE SAME RATING OR WITH THE PROPER HEATH PARTS.

Part of 595-2201-04

CIRCUIT BOARD



18 - 1000pF

LOAD 840pF

TUNE 250pF

REL. PWR. HV

SENSITIVITY

SW4 BANDSWITCH (FRONT)

BANDSWITCH WAFER # AR (FROM REAR)

SW4A BANDSWITCH WAFER A (FROM REAR)

ANT RELAY

TO METER SWITCH SW3 (REL. PWR.)

BARE

RF INPUT J3

RF OUTPUT J4

D17 56-26

R25 100K

R24 68K 1W

R26 100K

C54 .02uF

D18 56-24

R27 100K

K1 RELAY COIL

BLU

C32 .02uF

C53 .02uF

J2 ALC

C48 .001uF

R22 2200

C49 .001uF

R21 2200

C39 400

L2 40-1612

C38 400

C37 390

C36 400

C35 390

C34 400

L1 40-965

C33 180

C32 .01uF

C31 11A

C29 .001uF 6KV

C28 115

C27 115

20 40 15

80 20 40 15

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