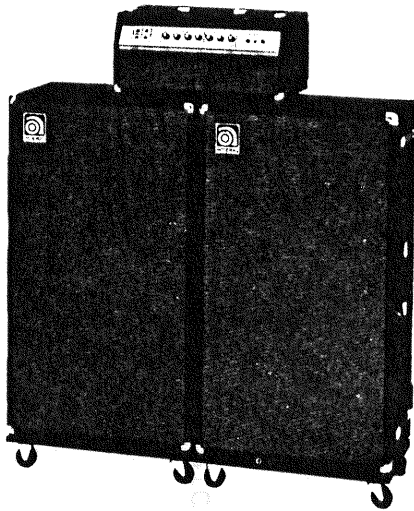


# SVT



#### Amplifier Dimension and Shipping Weights:

##### Amplifier Cabinet:

23½" wide, 14" deep, 11" tall.  
Shipping Weight — 85 pounds.

##### Speaker Cabinets:

25½" wide, 16" deep, 48" tall.  
Shipping weight — (2) 210 pounds.  
Covers optional.

#### Amplifier Performance:

300 watts RMS (over 700 watts peak music power.)

#### Amplifier Front Panel:

Channel 1: Bright and Normal input jacks, Volume, Treble, Bass, Selective Midrange cut or boost, Ultra Hi, 3-way Ultra Lo and Midrange Frequency Select.

Channel 2: Bright and Normal input jacks, Volume, Treble, Bass, Ultra Hi and Ultra Lo.

Power on-off, Polarity switch and indicator light.

#### Amplifier Rear Panel:

Standby switch, fuse post, speaker jack, (4 ohm) extension speaker jack, (4 ohm) and extension amplifier jack for tandem operation or recording.

#### SVT Speaker System:

Each SVT speaker enclosure has 8-10" speakers in 4 separate compartments. A total of sixteen speakers in two enclosures.

The Ampeg SVT was designed for the musician who needs concert hall levels of sound and power with consistent quality and reliability. The SVT offers unheard of power in a tube amplifier, coupled with a unique speaker complement. Big and brawny, the SVT must be seen and heard to be believed!

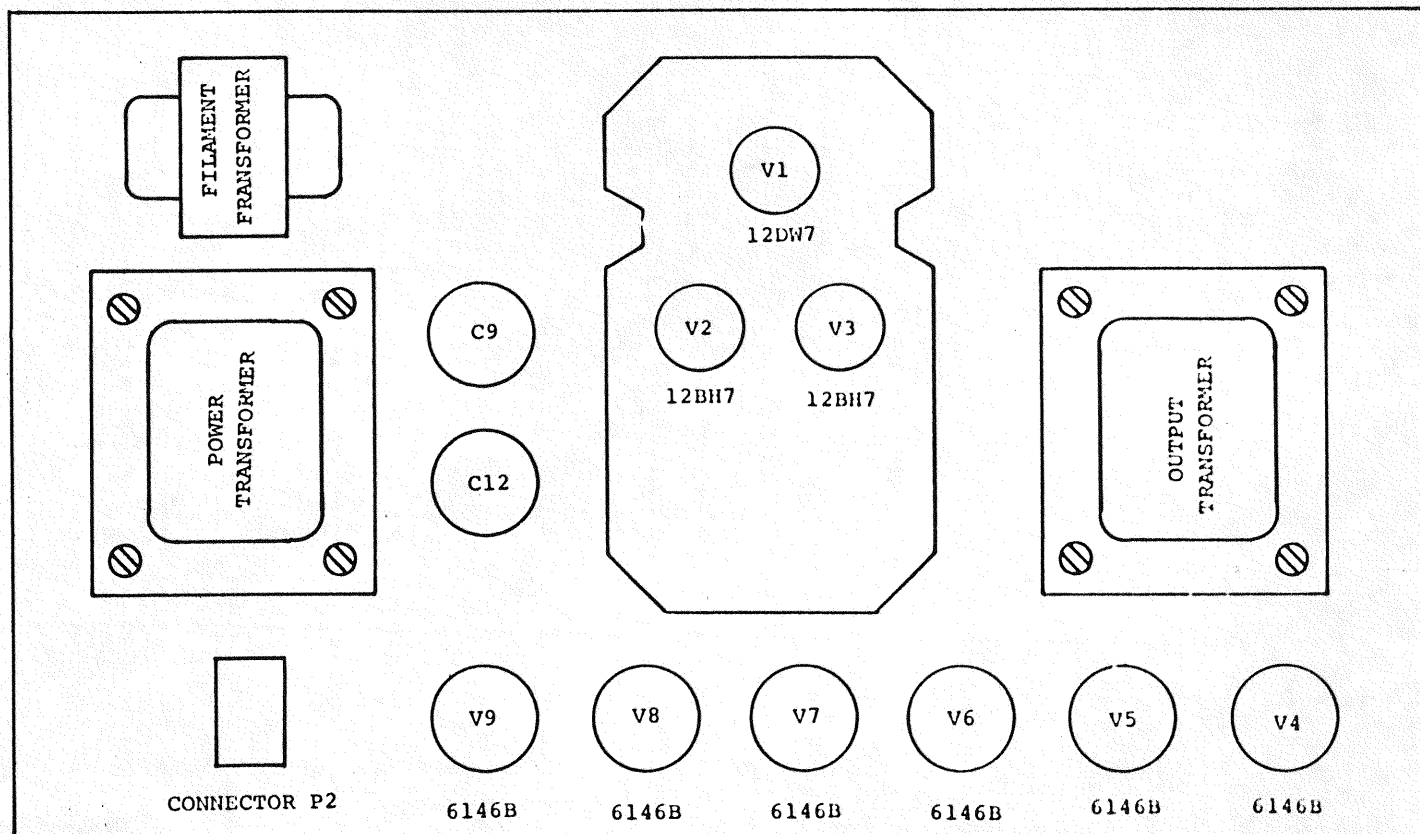
TRADE NAME	Model No. SVT
MANUFACTURER	AMPEG CO., Industrial Park, Linden, N. J.
TYPE SET	Audio Amplifier - Two Channels
TUBES	(2) 12AX7, (2) 12BH7, (3) 12DW7, (1) 6C4, (6) 6146B/8298A or (6) 6550.
SOLID STATE COMPONENTS	(14) Silicon Diodes
POWER SUPPLY	120v A. C. 50/60 Hz, Rating 6 Amps.
POWER OUTPUT	300 Watts RMS 700 Watts Peak Music Power

## SVT SERVICING AIDS

- A. **BLOWS FUSES** - (1) Standby Switch Off: a) Bad filament Transformer. b) Shorted A.C. wiring. c) Shorted Tube Socket Pins. (2) Standby Switch On: a) Shorted A.C. wiring after Standby Switch. b) Defective Power Transformer. c) Defective D3-D14 Diodes. d) Failure of negative bias circuit. (See that you read -47 volts at Pin #5 of 6146 Tube.) e) Defective 6146 Tube or Tubes. f) Defective Output Transformer. g) Defective Filters - C10, C12.
- B. **LOSS OF POWER** - (1) Weak Tubes. (2) Check all 10 ohms/5 watt Plate Resistors if any of these have open circuited, replace the associated 6146 Output Tubes. (3) Check all 22 ohms/1 watt grid Resistors. (4) Check the two 1 ohm/1 watt Cathode Resistors. (5) Defective D1 - D2. (6) Misadjustment of bias and or balance Controls. (7) Bad Plate Cap Connectors.
- C. **OSCILLATION WITH CONTROLS ADVANCED** (on early versions). See that the shielded cable is grounded at the P.C. Board rather than at the Input Jack Channel #2 assembly.
- D. **CHECK THE TROUBLESHOOTING CHART PART #4010086 FOR MORE HINTS**

**CAUTION:** WHEN SERVICING SPEAKER CABLE BE CAREFUL OF THE 120V A.C. ACROSS PINS 2 AND 3 OF THE CONNECTOR. THIS FEATURE IS A SAFETY AMPLIFIER INTERLOCK.

## POWER AMPLIFIER CHASSIS LAYOUT



## DISASSEMBLY OF SVT HEAD CABINET

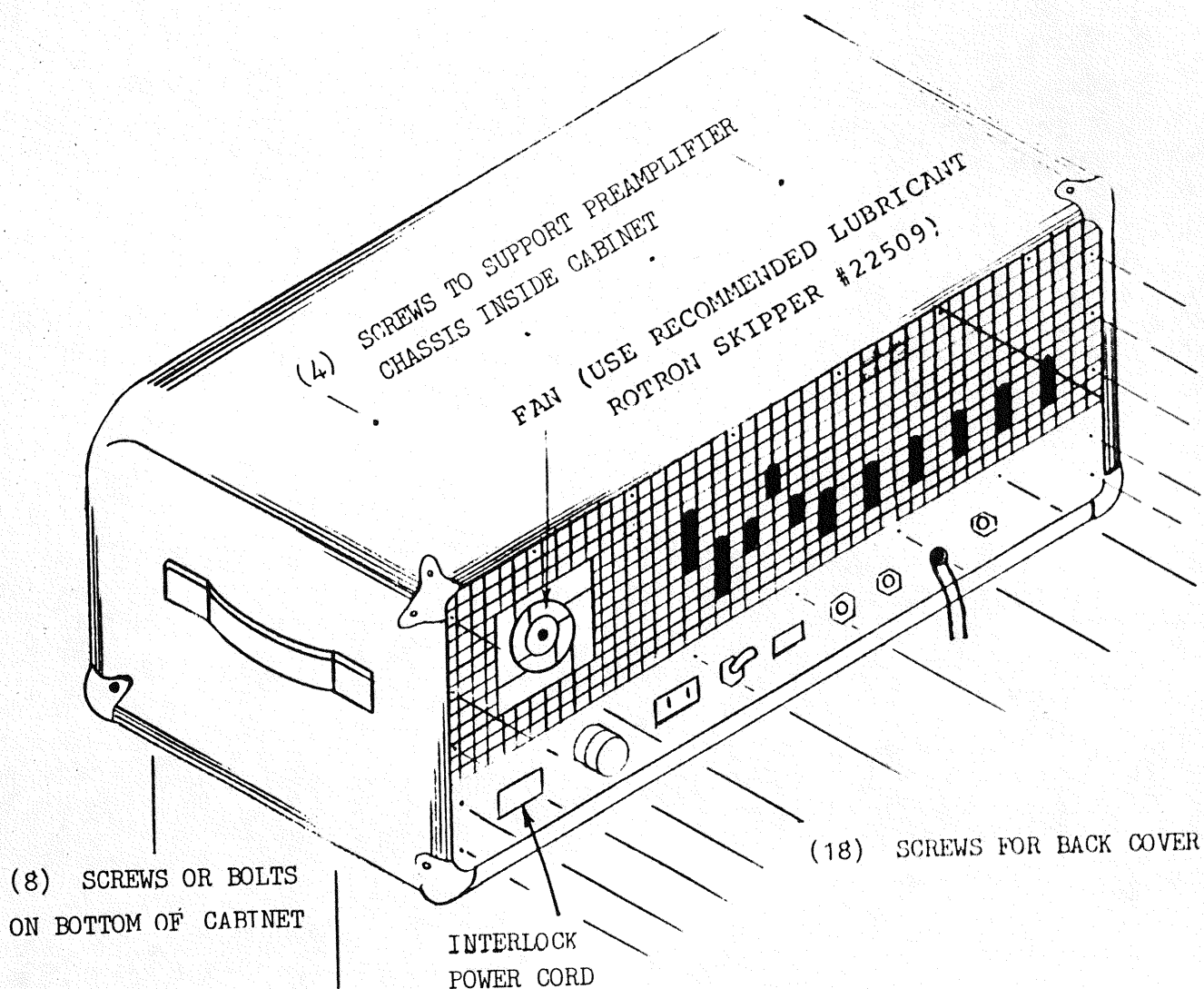
**BACK PANEL** a. Release perforated back panel by means of 18 screws. Then pull near the A.C. Power Cord until the Interlock is released.  
b. Un-plug the fan before completely removing the back cover.

**POWER CHASSIS** a. Turn chassis on its side. b. Remove 8 screws or bolts from the bottom of the cabinet. c. Remove pre-amp wire harness by disconnecting plastic plug. d. Return cabinet to its normal position and remove power chassis.

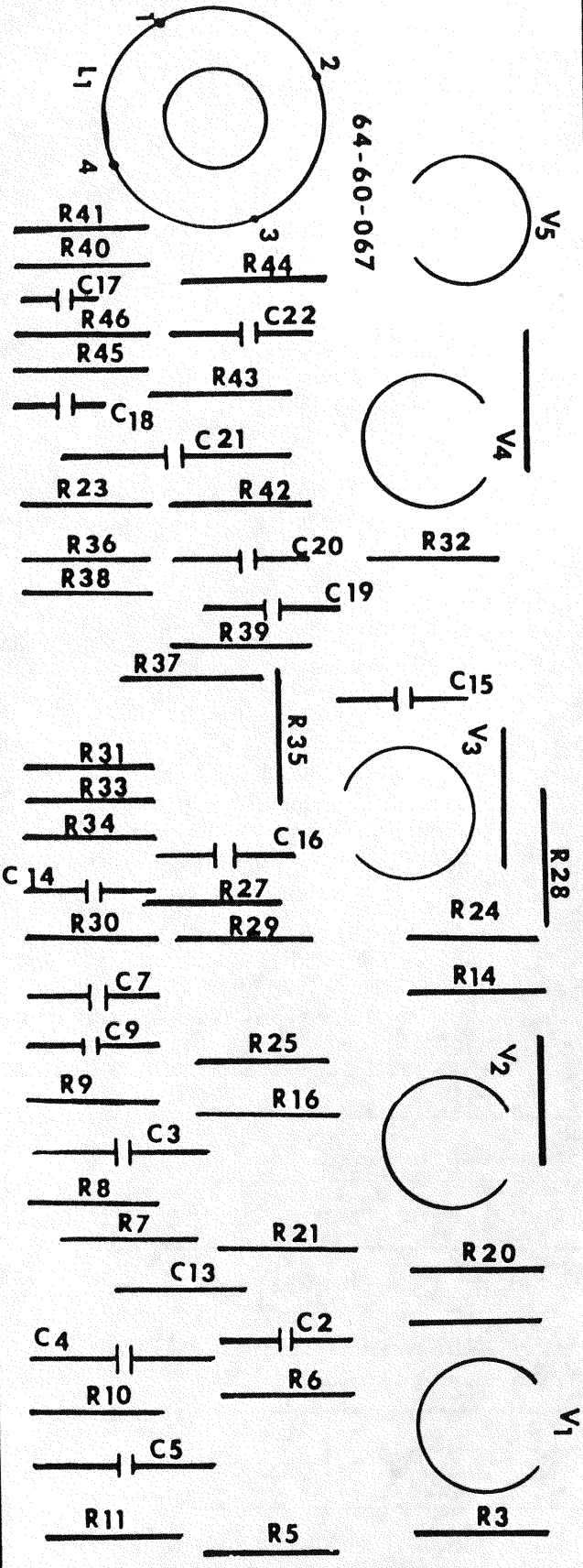
**PRE-AMP** a. Remove the 4 screws from the inside of head cabinet.  
b. Push pre-amp forward from inside of head cabinet.

**BAFFLE**

1. On older models the baffle is removable only by un-screwing the nuts from the single screws on either side of the baffle. The baffle is then removable if a slight tap is given from the inside to release the plastic head lock.
2. On new models the baffle is removable without removing the back panel. Use a long rod and tap the baffle free from the headlock retainers. Gain access from the rear of the cabinet by using the space available through the cooling fan blades. The removal of the baffle will enable the bias to be adjusted without the necessity of disassembling the entire head cabinet.



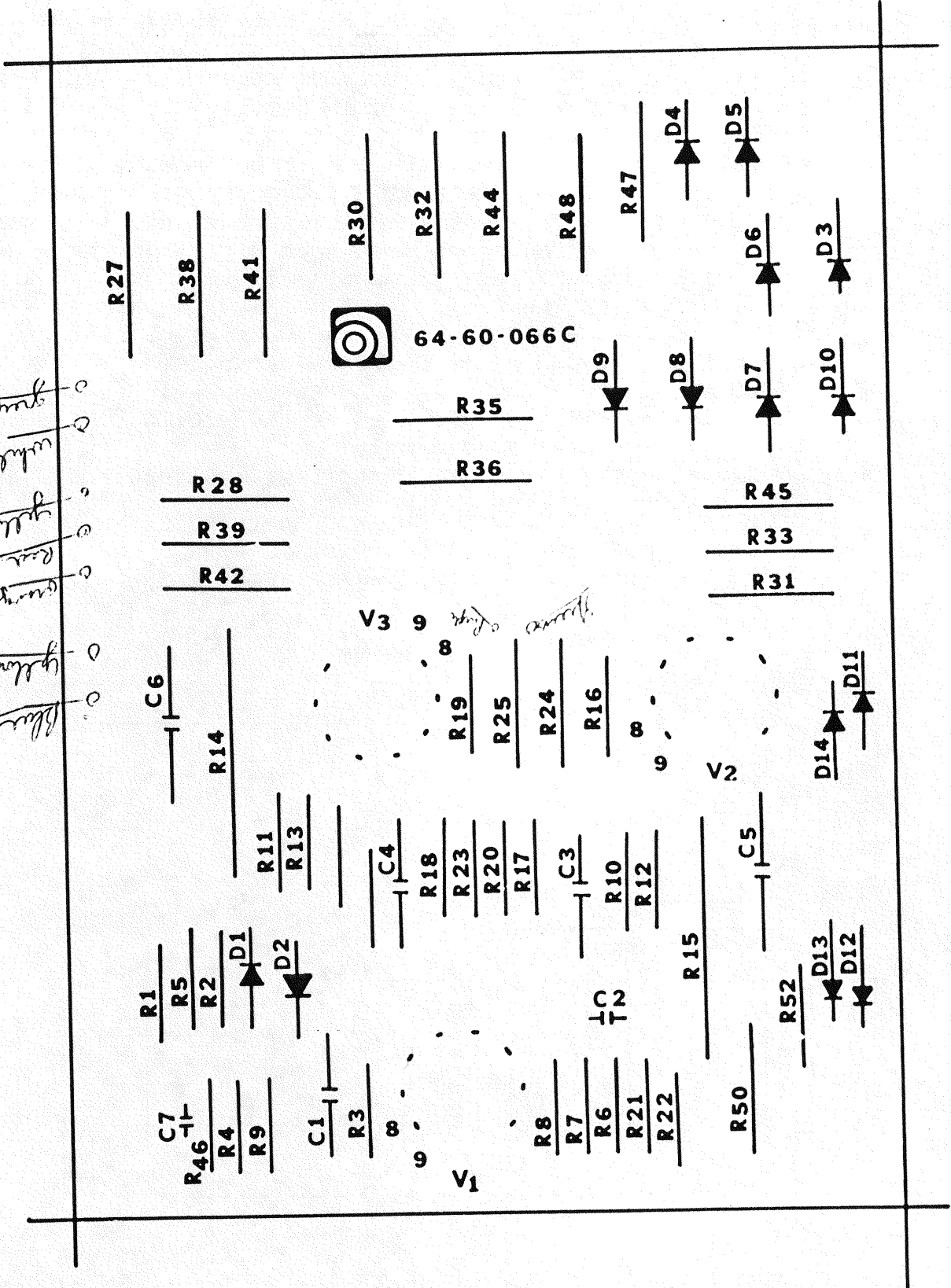
64-60-067



PICTORIAL VIEW OF PREAMP P.C. BD.  
COMPONENT SIDE

PICTORIAL VIEW OF POWER AMP P.C. BD.  
COMPONENT SIDE

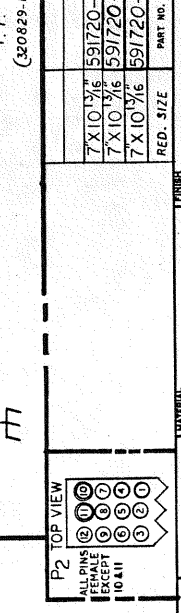
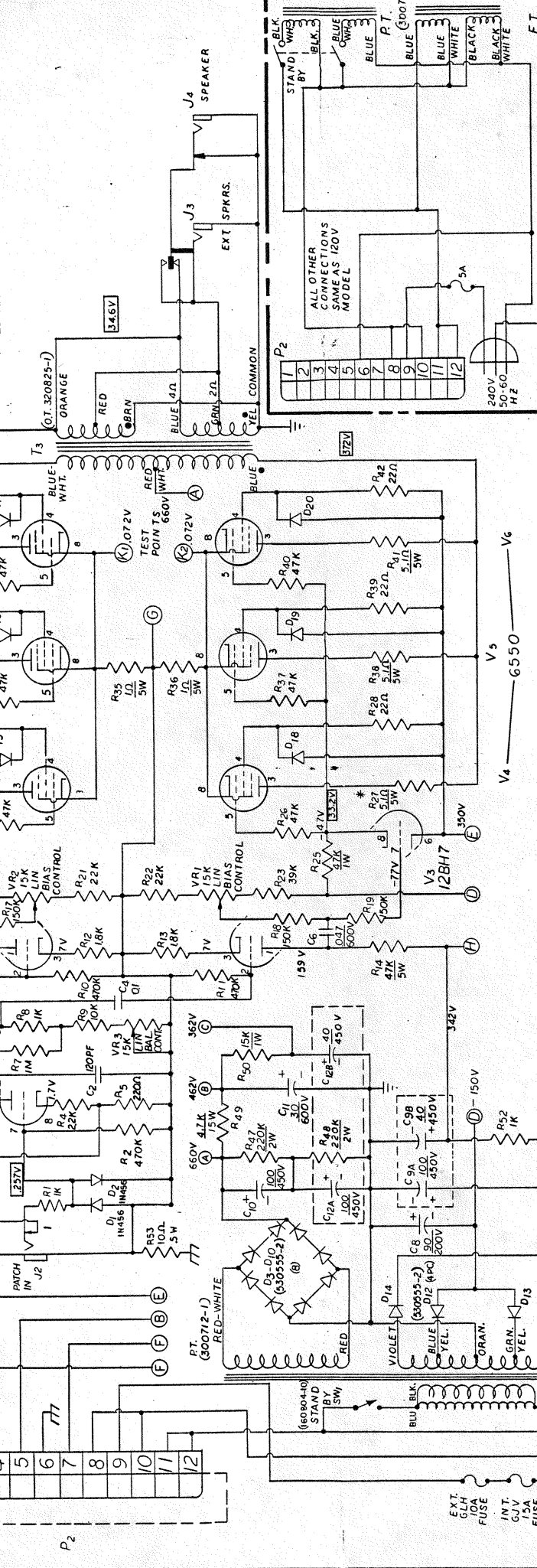
*Blue*      *Yellow*      *Green*      *Red*      *Yellow*      *White*      *Gold*





**CALIBRATION PROCEDURE**

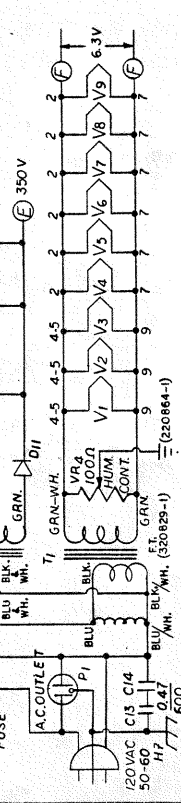
- CONNECT A 4 OHM LOAD RESISTOR \* TO I4.
- OUTPUT STAGE BIAS CURRENT ADJUSTMENT. (THE BIAS CAN BE ADJUSTED BY REMOVING THE HEAD CABINET Baffle. USE A LONG ROD AND TAP THE Baffle FROM THE HEAD ON ONE SIDE AVAILABLE THROUGH THE COOLING FAN BLADES.)
- ADJUST VR1 FOR ZERO VOLTAGE ON THE VOLT METER BETWEEN K1 AND K2.
- ADJUST VR2 FOR ZERO ±.01 VOLTS BETWEEN K1 AND K2.
- HARMONIC DISTORTION METER METHOD. DRIVE AMPLIFIER WITH SIGNAL FROM CALIBRATION SIGNAL SOURCE AT 100 HZ AND CONNECT DISTORTION METER BETWEEN K1 AND K2.
- VOLT METER METHOD. ADJUST OUTPUT AS IN STEP 3-A AND CONNECT D.C. VOLT METER BETWEEN THE POINTS K1 & K2. ADJUST VR3 FOR ZERO ±.01 VOLTS.
- THE LOAD RESISTOR SHOULD BE ABLE TO DISSIPATE THE FULL POWER OF THE AMPLIFIER, ON 50 WATT.



**NOTES:**

- ALL RESISTORS 1/2W 10% UNLESS OTHERWISE SPECIFIED.
- ALL CAPACITORS IN MFD. & 400V UNLESS OTHERWISE SPECIFIED.
- D.C. VOLTAGE READINGS WITH NO SIGNAL APPLIED USING AN ELECTRONIC VOLT
- NUMBERS IN PARENTHESES REFER TO MFR'S PART NO.
- A.C. VOLTAGE ARE INDICATED WITHIN BOXES.
- CIRCUIT OF CHASSIS MAY VARY SLIGHTLY FROM THAT SHOWN HERE DUE TO NORMAL PRODUCTION CHANGES.

**NOTE:** DC VOLTAGES FOR V1 ARE APPROXIMATE AND MAY VARY WITH APPLICATION.



TOLERANCES UNLESS OTHERWISE SPECIFIED		RESISTORS		CAPACITORS		DIMENSIONS	
VALUES	± TOL	VALUES	± TOL	VALUES	± TOL	VALUES	± TOL
R	± 10%	100	± 10%	100	± 10%	100	± 10%
R	± 5%	100	± 5%	100	± 5%	100	± 5%
R	± 2%	100	± 2%	100	± 2%	100	± 2%
R	± 1%	100	± 1%	100	± 1%	100	± 1%
R	± 0.5%	100	± 0.5%	100	± 0.5%	100	± 0.5%
R	± 0.2%	100	± 0.2%	100	± 0.2%	100	± 0.2%
R	± 0.1%	100	± 0.1%	100	± 0.1%	100	± 0.1%
R	± 0.05%	100	± 0.05%	100	± 0.05%	100	± 0.05%
R	± 0.02%	100	± 0.02%	100	± 0.02%	100	± 0.02%
R	± 0.01%	100	± 0.01%	100	± 0.01%	100	± 0.01%
R	± 0.005%	100	± 0.005%	100	± 0.005%	100	± 0.005%
R	± 0.002%	100	± 0.002%	100	± 0.002%	100	± 0.002%
R	± 0.001%	100	± 0.001%	100	± 0.001%	100	± 0.001%
R	± 0.0005%	100	± 0.0005%	100	± 0.0005%	100	± 0.0005%
R	± 0.0002%	100	± 0.0002%	100	± 0.0002%	100	± 0.0002%
R	± 0.0001%	100	± 0.0001%	100	± 0.0001%	100	± 0.0001%
R	± 0.00005%	100	± 0.00005%	100	± 0.00005%	100	± 0.00005%
R	± 0.00002%	100	± 0.00002%	100	± 0.00002%	100	± 0.00002%
R	± 0.00001%	100	± 0.00001%	100	± 0.00001%	100	± 0.00001%

**THE AMPEG COMPANY**  
 DIVISION OF THE MAGNAVOX COMPANY  
 1200 N. W. 10th St., Ft. Lauderdale, Fla. 33304  
 POWER AMP SCHEMATIC  
 SVT-9 V9  
 DATE: 11-7-73  
 DRAWN BY: J. H. H. / J. H. H.  
 CHECKED BY: J. H. H. / J. H. H.  
 APPROVED BY: J. H. H. / J. H. H.  
 PART NO. 591720-1

**REVISIONS**

NO.	DESCRIPTION	DATE
1	REVISED TO 591720-1	11-7-73
2	REVISED TO 591720-2	11-7-73
3	REVISED TO 591720-3	11-7-73
4	REVISED TO 591720-4	11-7-73
5	REVISED TO 591720-5	11-7-73
6	REVISED TO 591720-6	11-7-73
7	REVISED TO 591720-7	11-7-73
8	REVISED TO 591720-8	11-7-73
9	REVISED TO 591720-9	11-7-73
10	REVISED TO 591720-10	11-7-73
11	REVISED TO 591720-11	11-7-73
12	REVISED TO 591720-12	11-7-73

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