

Film-Tech

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Ballantyne

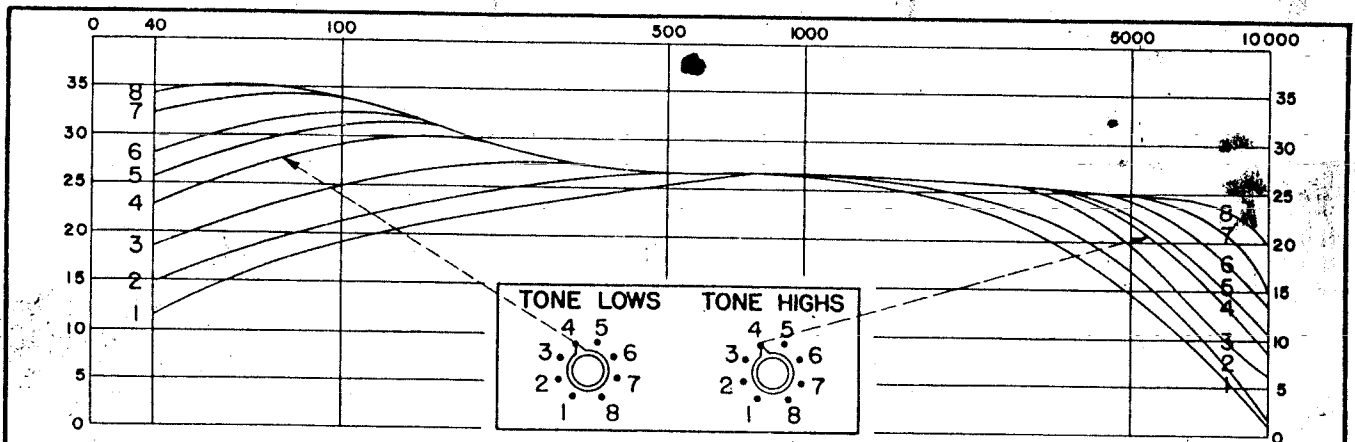
ROYAL SOUND MASTER

PD 50-55-56 INSTRUCTIONS AND SCHEMATICS

1. Voltage to both exciter lamps is controlled by tap switch 50-C-36. Taps are numbered 1,2,3, 4 and 5. #1 indicates lowest exciter lamp voltage. #5 highest.
2. Selector switch No. 50-A-36 controls voltage to the amplifier tubes. Number 1 position for AC line voltages of 115 volts to 125 volts, #2 for 105 to 115 volts, #3 for 105 volts and lower.
3. The photo electric cell balancing control affects voltage to both cells. When turned left it increases voltage to the left cell and decreases voltage to the right cell. When turned right it increases voltage to the right cell and decreases voltage of the left cell.
4. The overall gain should be adjusted so that a normal recording will operate at #10 to 12 on the volume control. An auxiliary volume selector terminal board will give an overall attenuation of approximately 12db. This terminal board No. 50-3-6 is located above photo electric cell balancing control. Three screw connections are marked 0-6-12. #6 is a loss of 6db, lowering amplifier gain by that amount. The proper terminal should be selected to give desired setting on volume control drum.
5. The PD-56 amplifier has an additional amplifier monitor stage built into the chassis. Ample volume may be obtained without disturbing auditorium line. The monitor volume control is located on the front plate of amplifier chassis.
6. 1 - 6SJ7, 1 - 6J5, 1 - 6SC7, 2 - 6L6G, 1 - 6F6GT, and 1 - 5U4G. The tube types as used are as nearly as possible, all "preferred" types, for continued peak performance. Only tubes of the highest quality should be used as replacements. Under emergency conditions GT series glass tubes may be substituted, providing tube shields are also used. Likewise GT or metals may be used in place of any of the "G" series glass tubes.

GT SERIES
(NOT RECOMMENDED)

THE BALLANTYNE CO. 1712 Jackson St. Omaha 2, Nebr.

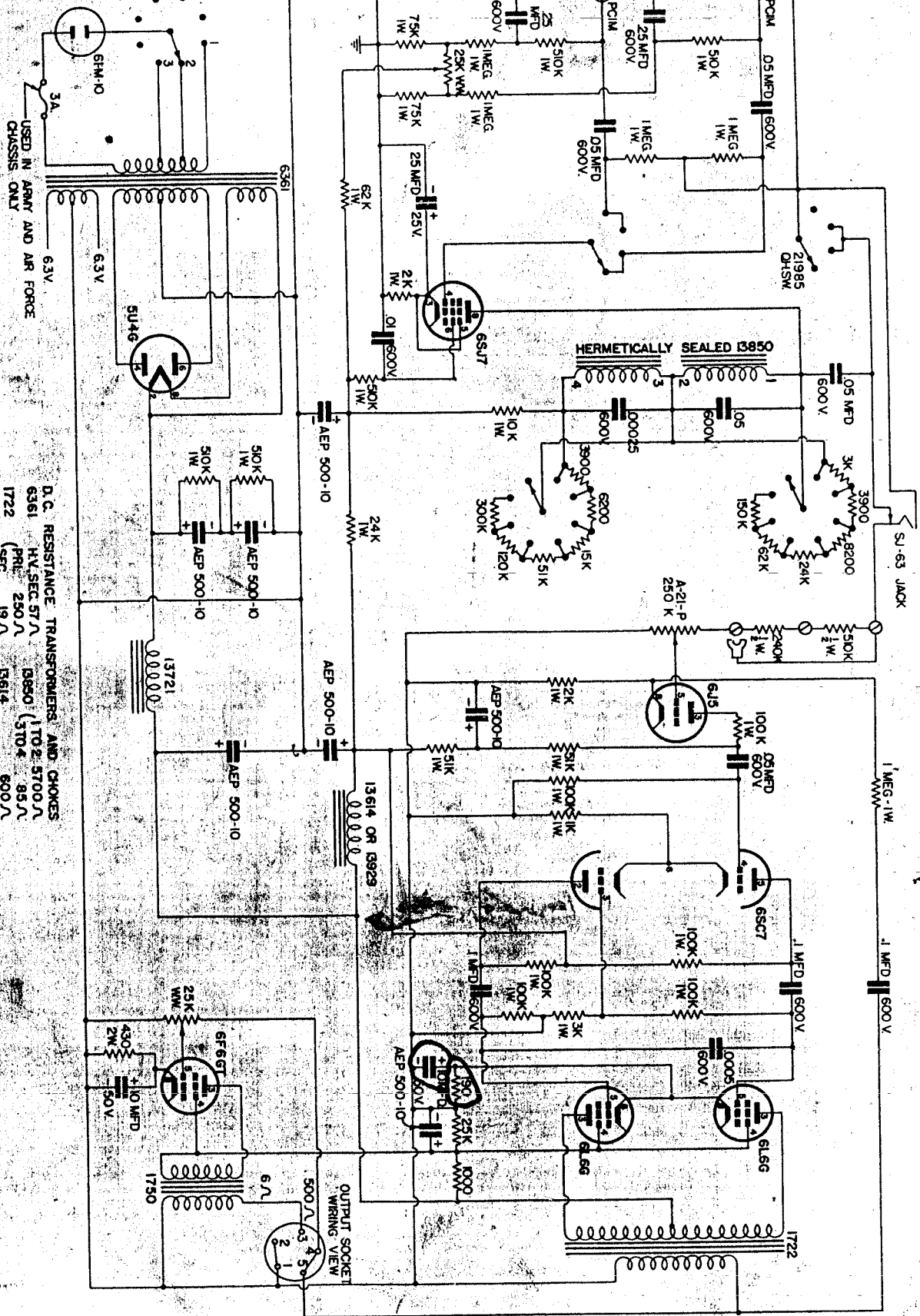


APPROXIMATE BASIC FREQUENCY RESPONSE

ROYAL SOUNDMASTER

PD 50-A AMPLIFIER

INPUT - ROYAL SOUNDMASTER STANDARD SOUNDHEAD RESEARCH COUNCIL OF THE ACADEMY OF MOTION PICTURE ARTS AND SCIENCES PRIMARY STANDARD FREQUENCY TEST REEL APFA-1 NO. P 334 A.
EXCITER LAMP - 10 VOLT 7 1/2 AMP OPERATED A.C. APPROXIMATELY 7 1/2 VOLTS.
OUTPUT - VOLUME CONTROL SETTING NO. 6 500 OHM LOAD RESISTOR 6 MILLIWATT REFERENCE.



D.C. RESISTANCE TRANSFORMERS AND CHOKES

6361	H.V. SEC. 57 Ω	6390	170Z, 5700 Ω
1722	PR. 250 Ω	6370	4 85 Ω
	SEC. 19 Ω	6364	800 Ω
		13721	100 Ω

PD 50-A AMPLIFIER

THE BALLANTYNE CO.
OMAHA, NEBRASKA, U.S.A. 2-51 M

