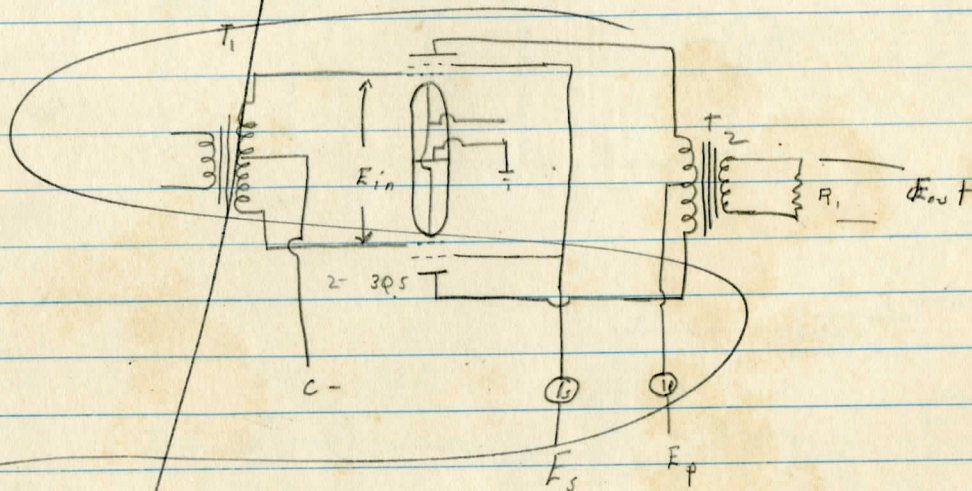


42
2

Audio &
General

7/1/51 Light Weight Audio Amp.

Test set-up of 3 @ 5's



$T_1 = \text{Class B audio input}$

$T_2 =$ Pwr trans with turns ratio of
~~100:5.5~~ 236:2.4 — 100:1.017

$$\frac{100}{.001}$$

Eid

Kost

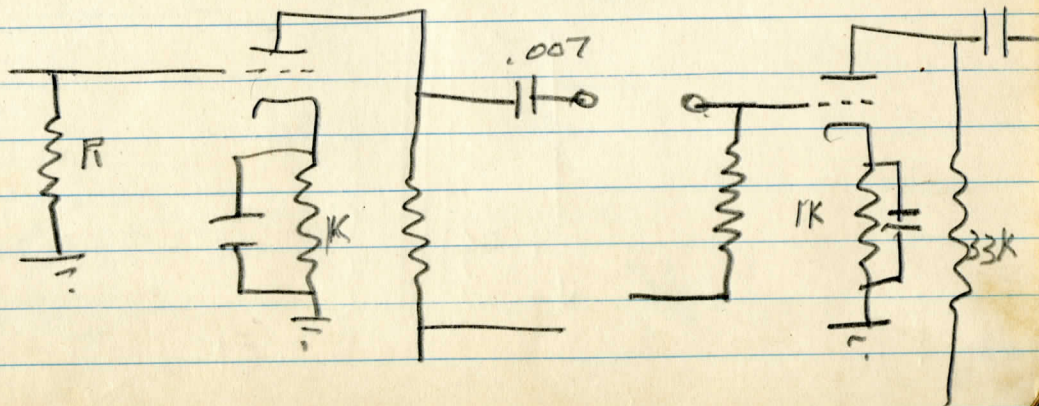
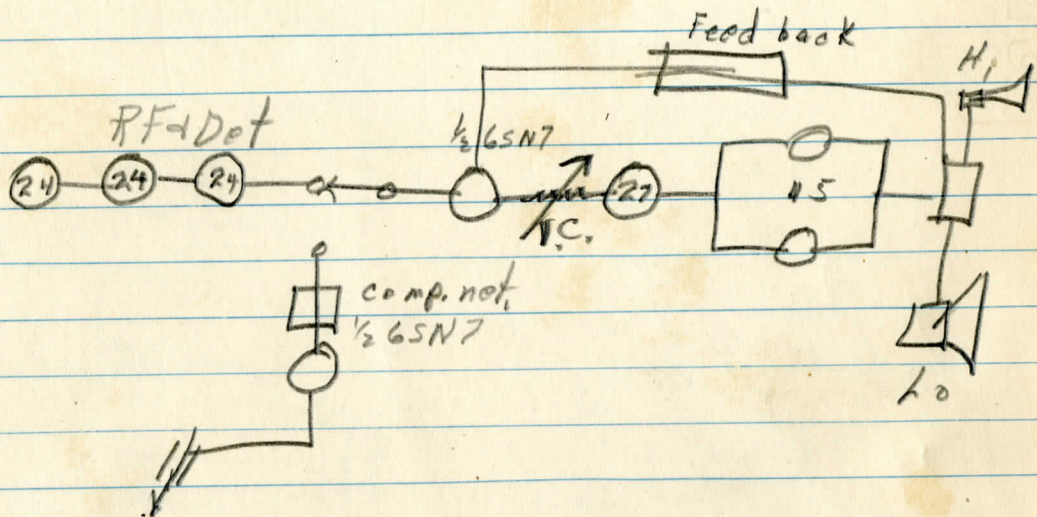
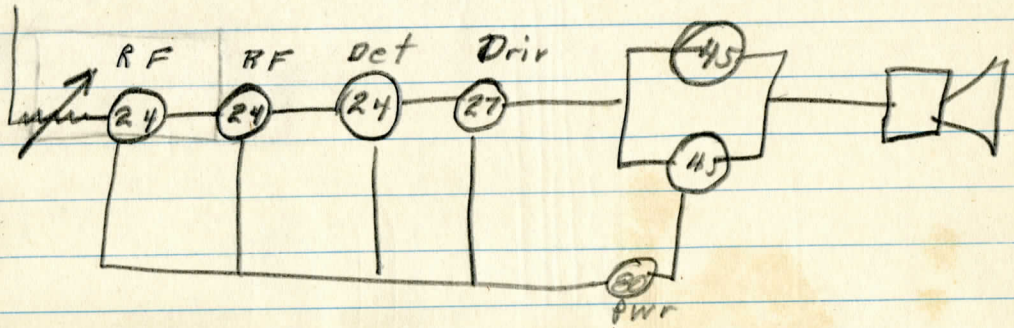
C. -

$$F_5$$
$$F_p$$

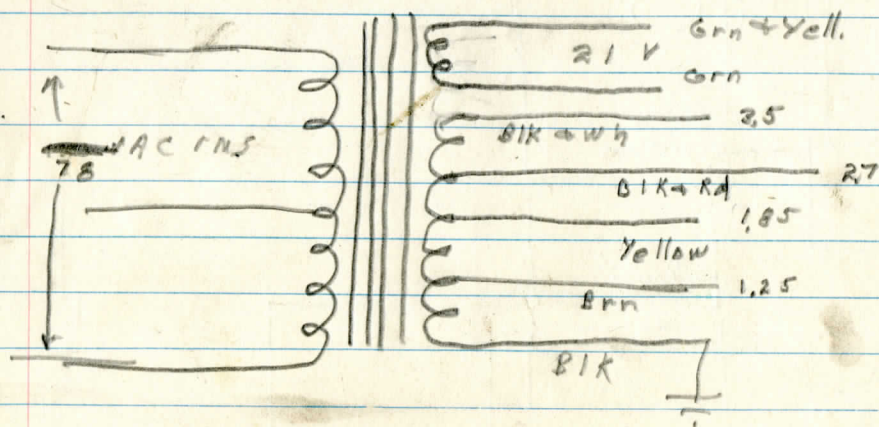
15

1 p

Conversion of Philco



O.P. Transformer Data

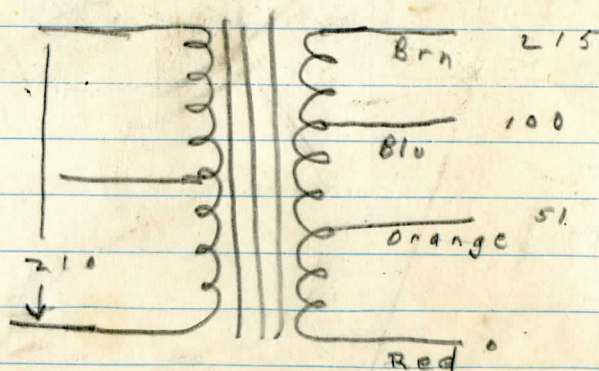


81

Load Res = 3200 Ω

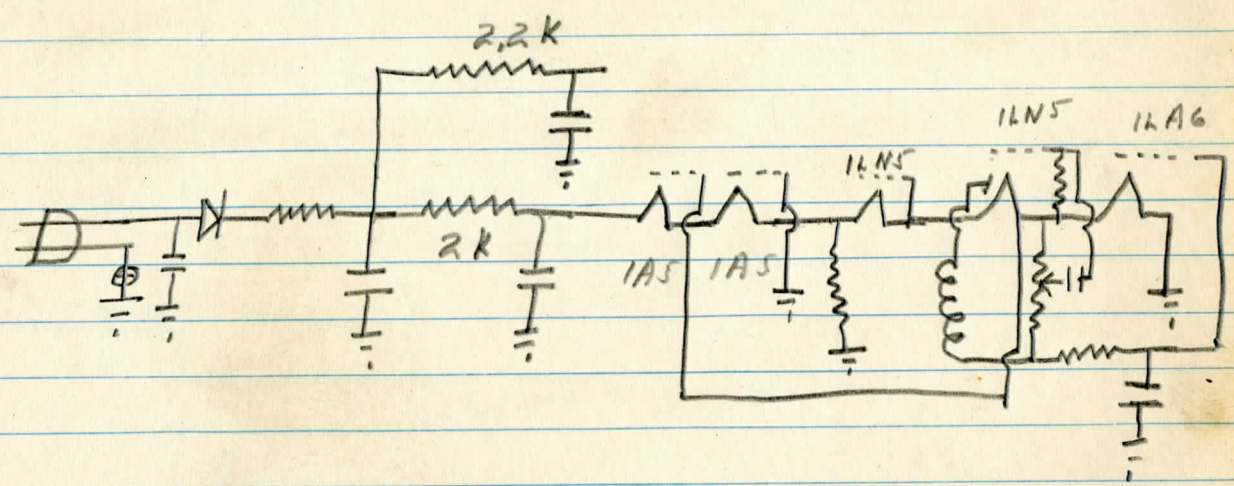
$$\begin{array}{r} 20 \overline{) 78} \\ \underline{60} \\ 180 \end{array} \quad \begin{array}{r} 39 \\ \sqrt{3200} \\ \underline{10} \\ 78 \\ \underline{X} \end{array} \quad \begin{array}{r} 17 \\ \sqrt{320} \\ \underline{1} \\ 220 \\ \underline{46} \\ 17 \overline{) 78} \\ \underline{68} \\ 100 \end{array}$$

Input trans



7/21/51

conversion of Philco 46-



$$\begin{array}{r} .0015 \\ 30 \\ \hline .0450 \\ .05 \overline{) 1.50} \end{array}$$

458

$$\begin{array}{r} 6.23 \\ 1.65 \\ \hline 7.88 \end{array}$$

$$\begin{array}{r} 30 \\ .015 \\ .05 \\ \hline .005 \\ .015 \\ .005 \\ 30 \\ \hline .0012 \\ .0036 \\ .0012 \\ 30 \\ \hline .0360 \end{array}$$

$$\begin{array}{r} 1.65 \\ 4.58 \\ \hline 6.23 \end{array}$$

7.51

30

30

30

30

30

30

30

30

5 ma.

5 ma

1.5 ma

1.2 ma.

7.88

6.23

4.58

3.04

1.54

.0012

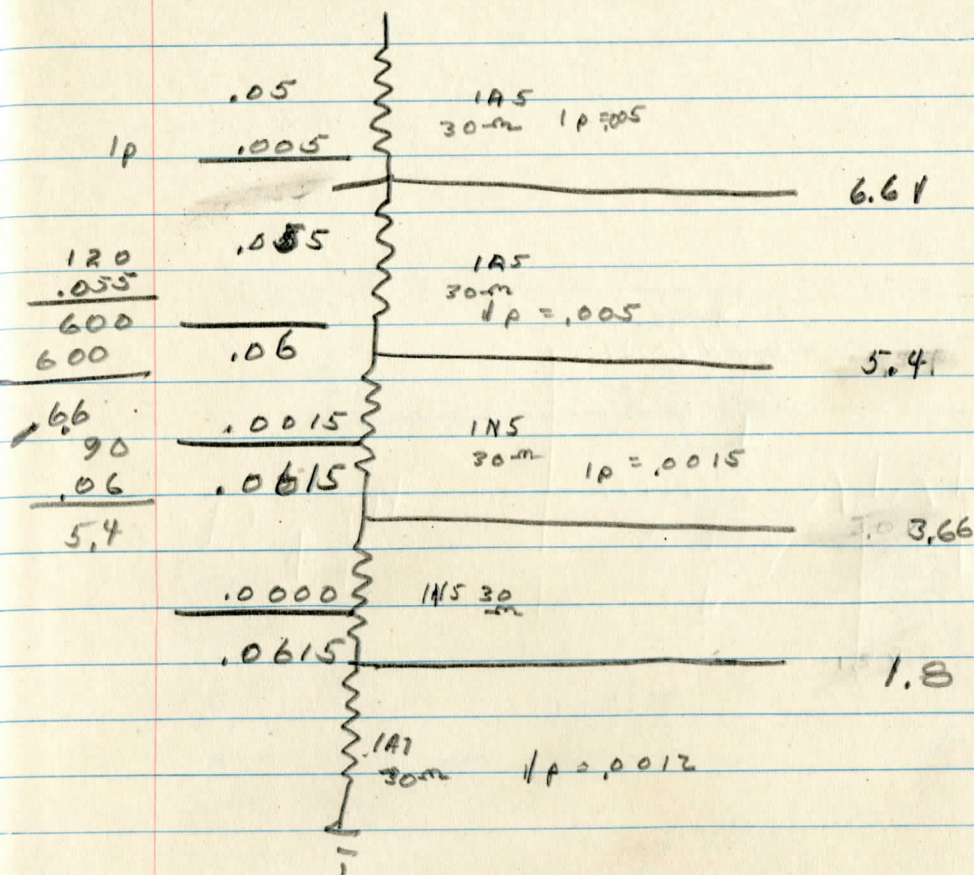
6.08

1 = E

E = IR

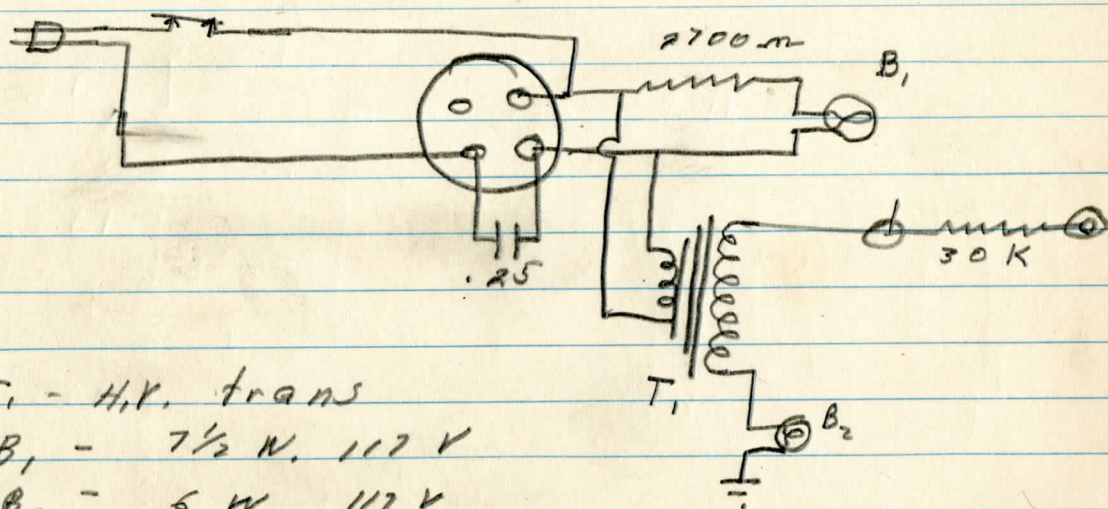
1.54

.0012



Electric Fencer International #106

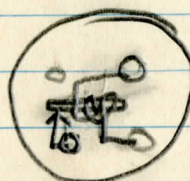
9/20/51



T_1 - H.V. trans

B_1 - $7\frac{1}{2} W$ 117 V

B_2 - 5 W 117 V



4.00	
6.00	
2.00	
1.20	

Program

A. Signal Interception

1. Initial signal to Noise Ratio
2. Interceptors
3. Matching
4. Transmission

B. Amplification

1. Matching (4)
2. S.N. ratio
3. Bandwidth
- 4.

C. Transmission

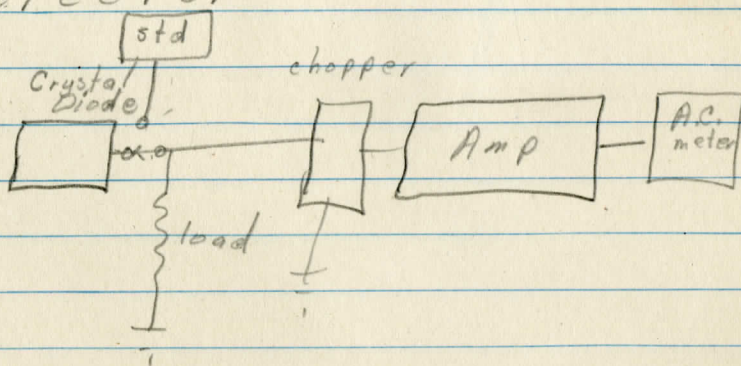
I. Matching

1. Calculation of Inductance
2. Empirical determination of Optimum

Q, M, bandwidth, etc.

A. Gen, det, chopper, Amp (might try mod signal + elim chopp)
A. Oscillator - bridge - detector

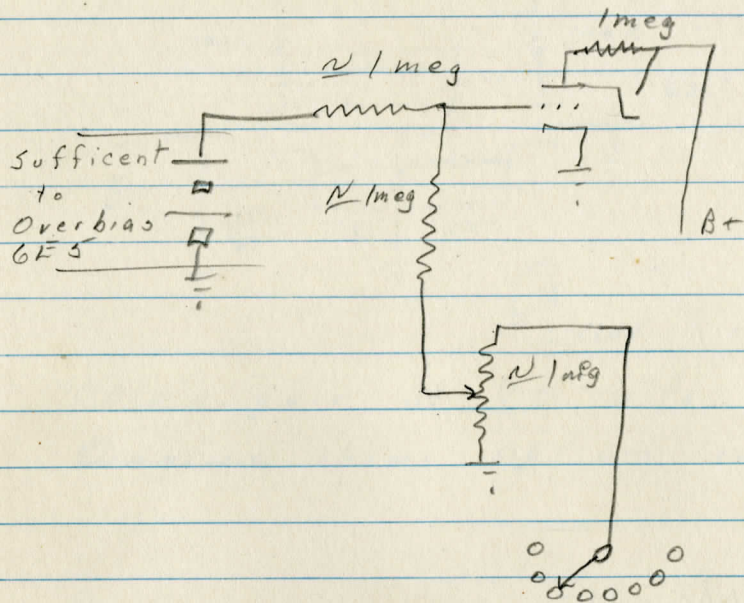
Detector



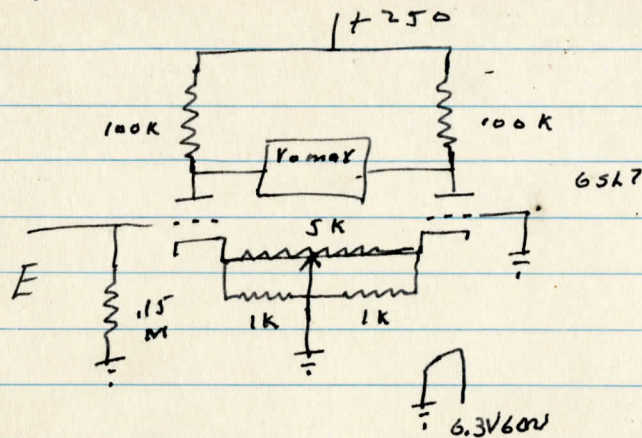
Results

B, I, β , A - Using ~~non~~ modulated R.F., Det,
+ A.F. Amp it is possible to obtain
Relative Measurements but difficult to
obtain ^{calibrated} ~~absolute~~ measurements.

Volt Meter for Pwr Panel



V.t.V.M. twin triode



Obtain gain of 20 with this ckt,
Diagram shows optimum values

$$\frac{100000}{150000} = 0.666$$

$$\frac{10^4}{10^4} = 10^2$$

$$\frac{250}{250} = 1$$

