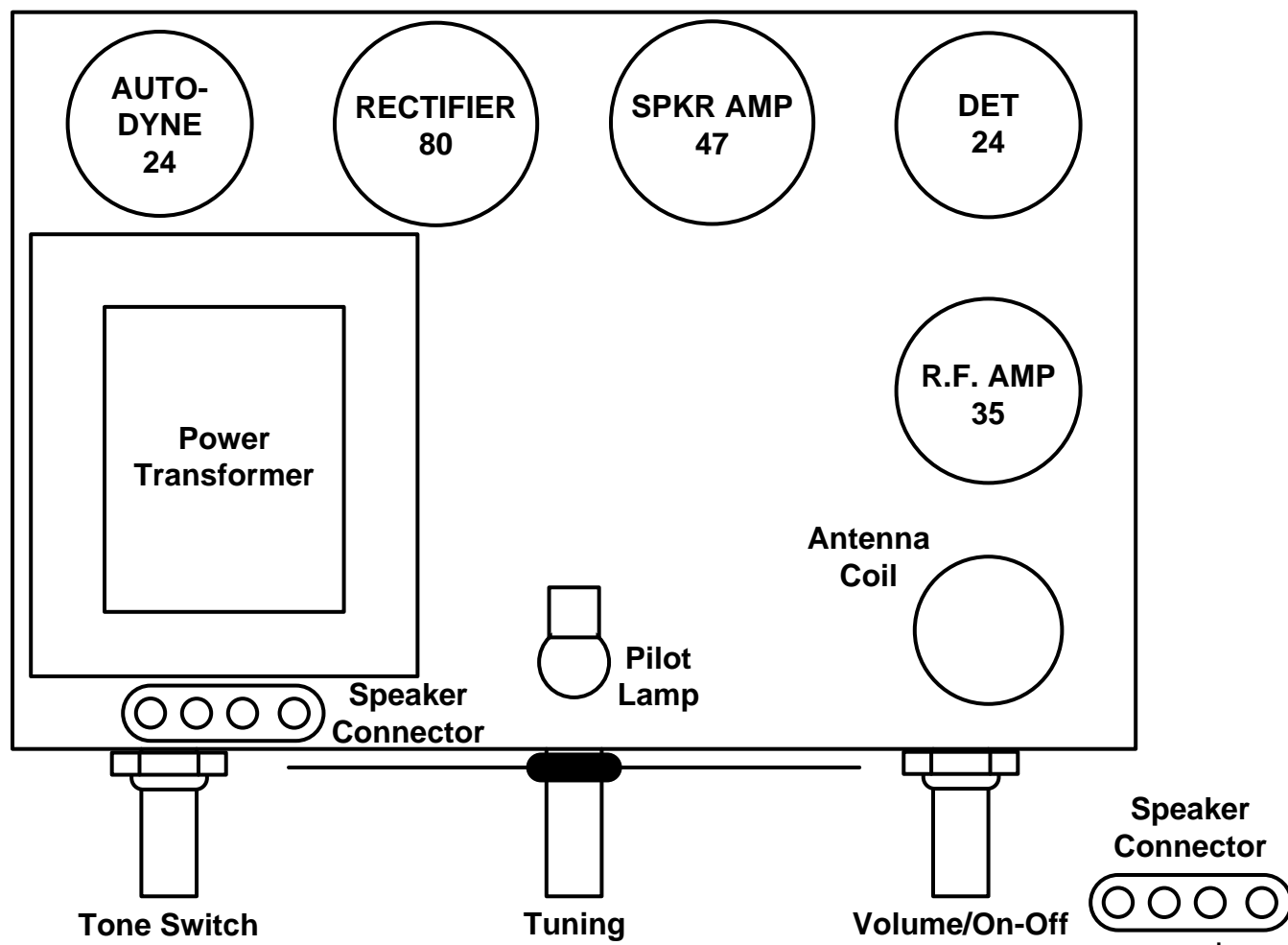
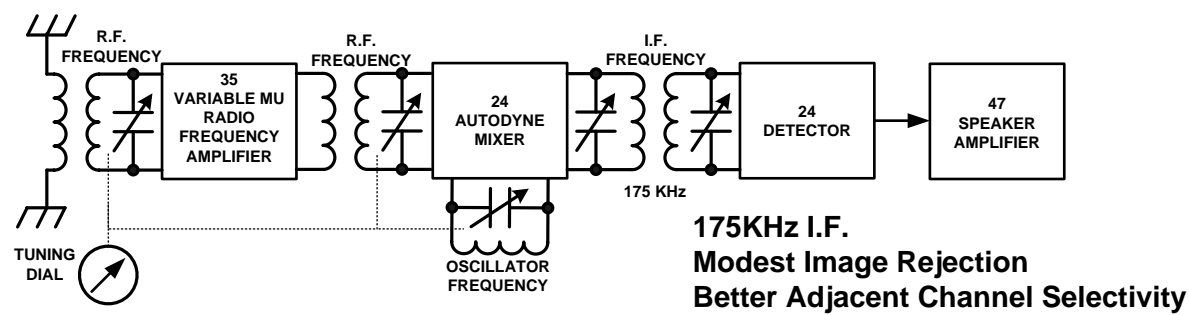


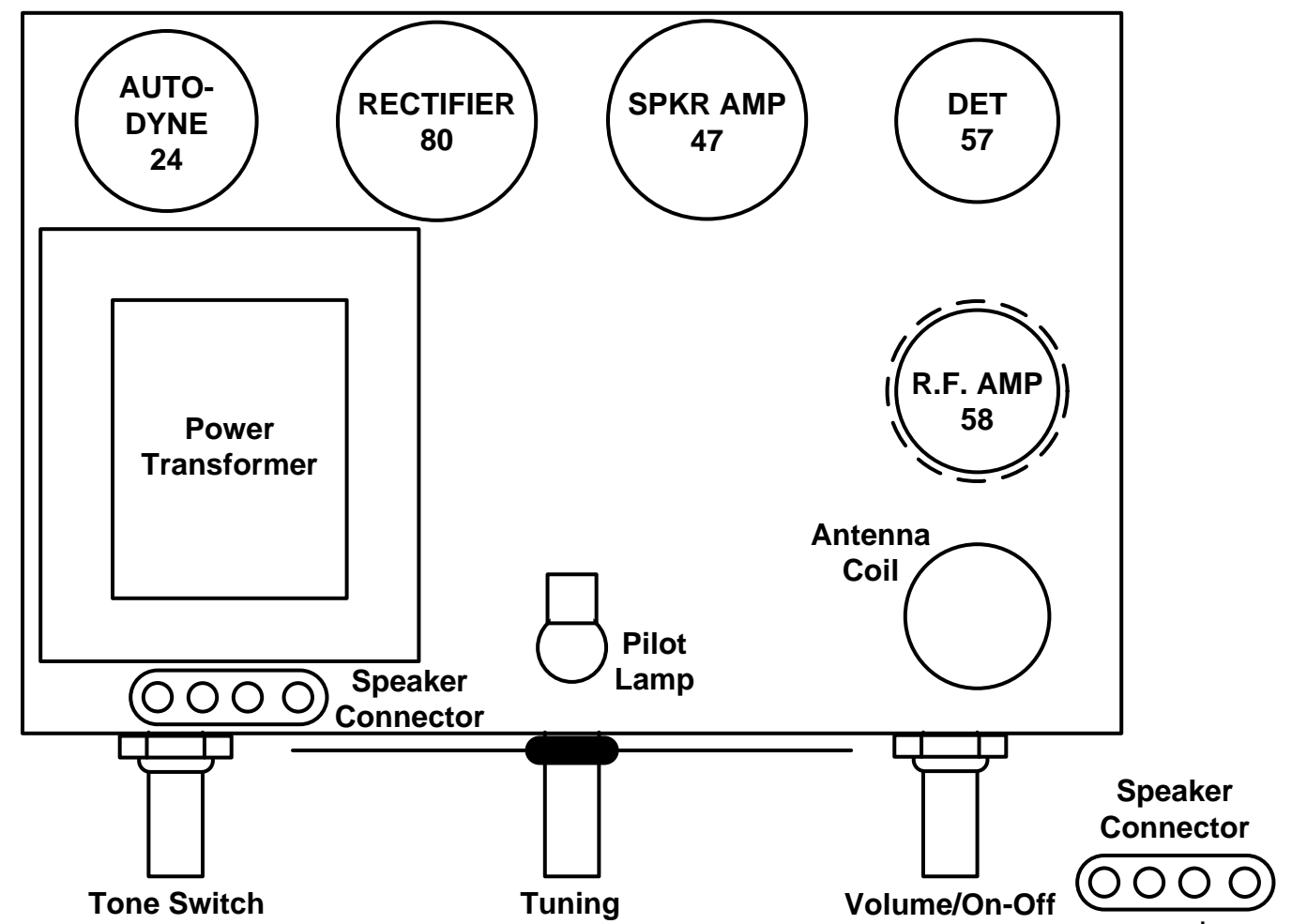
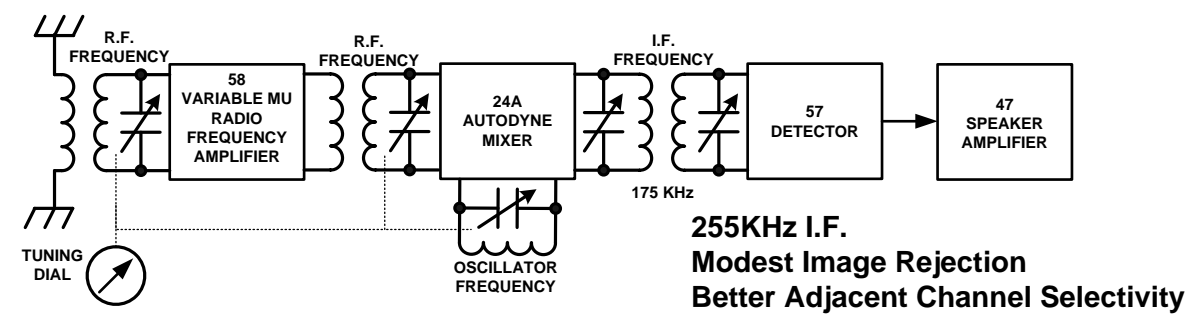
25, Early Version, Tone Switch



The Tuning Condenser is mounted below the Chassis
The Translucent *Logging Scale*, 0 to 100 is Backlighted Dial

Introduced 1 May 1932

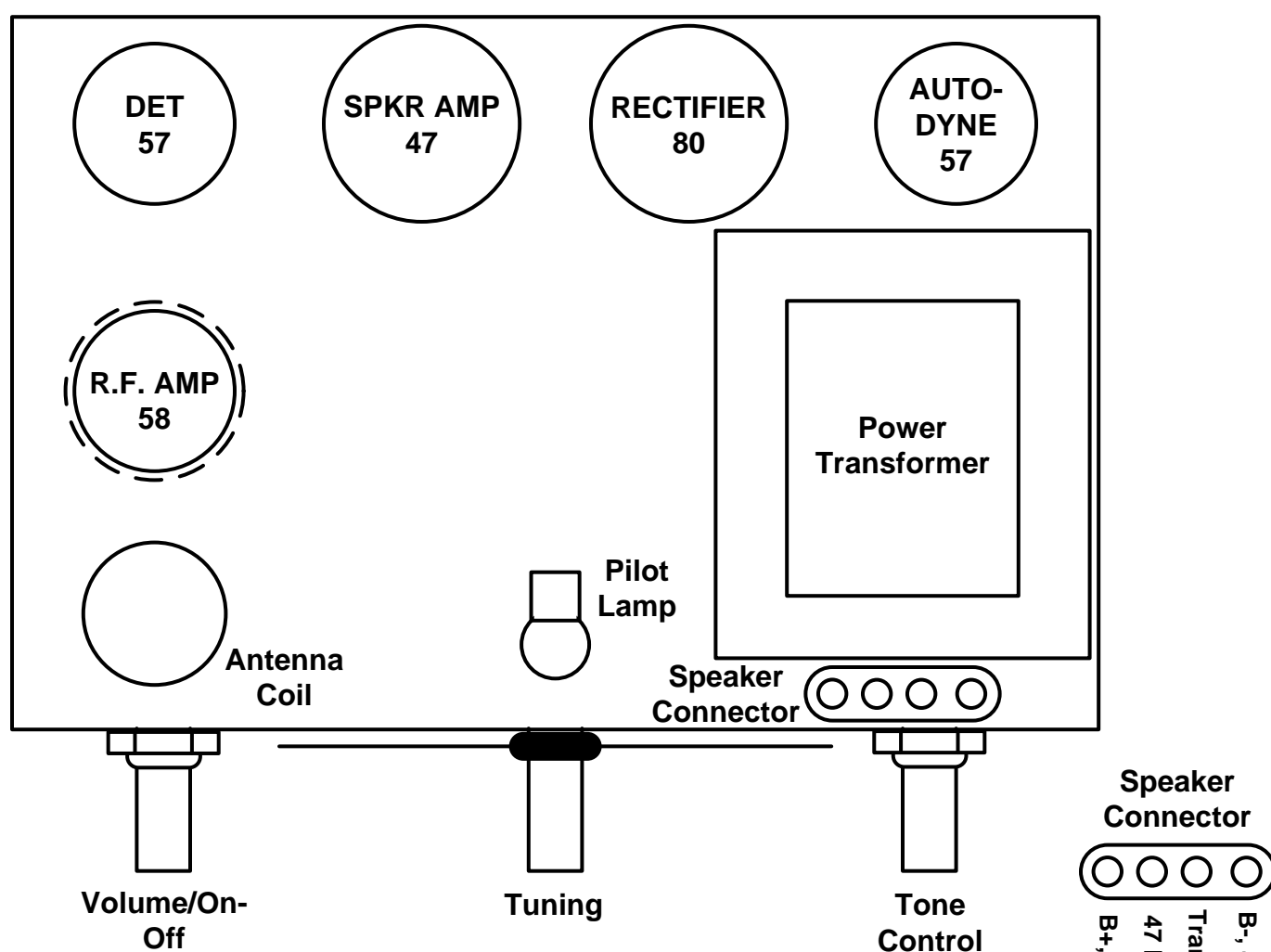
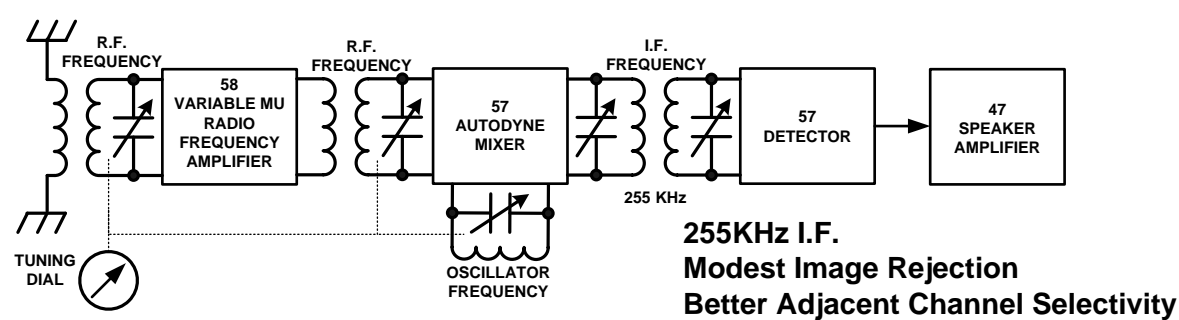
25A, 25U, Tone Switch



The Tuning Condenser is mounted below the Chassis
The Translucent *Logging Scale*, 0 to 100 is Backlighted Dial

Introduced 25 June 1932

25A or 25U, Tone Control

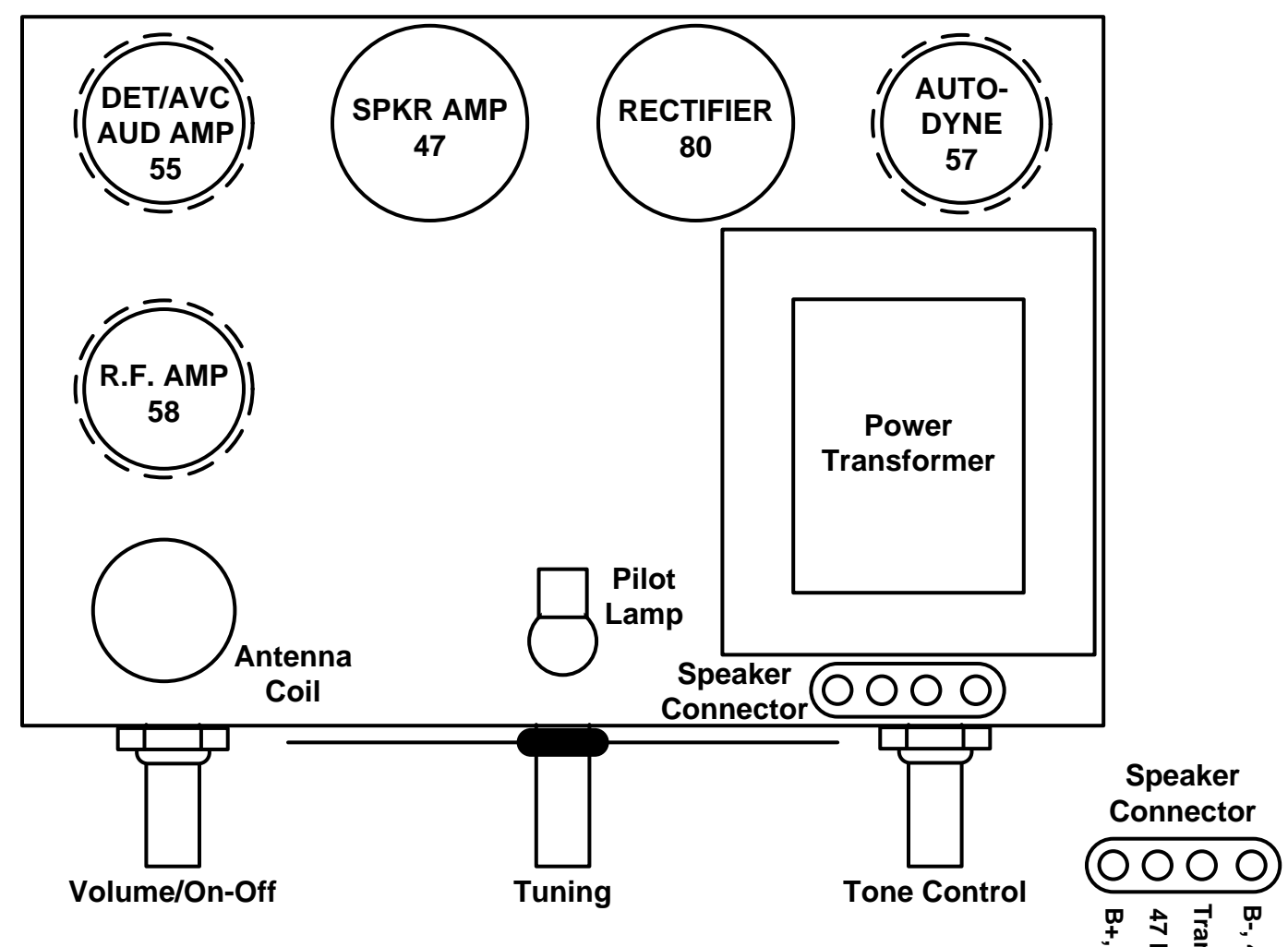
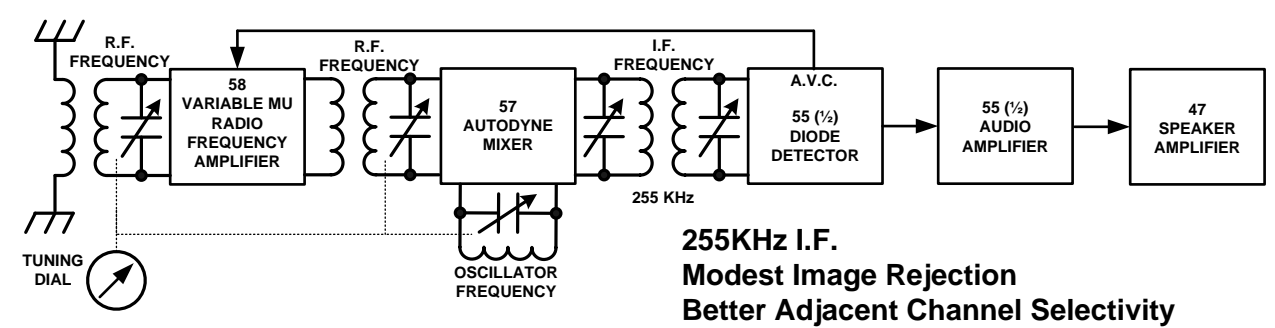


The Tuning Condenser is mounted below the Chassis
The Translucent *Logging Scale*, 0 to 100 is Backlighted Dial

Introduced August 1932

We have a Chassis with this Configuration Dated from August 1932
We have Schematic Card, with a Peter Pan Image, from 20 September 1932

25AV or 25U, Forth Version, Automatic Volume Control



The Tuning Condenser is mounted below the Chassis
The Translucent *Logging Scale*, 0 to 100 is Backlighted Dial

Introduced September 1932

We have Chassis stamped 932 & 1032
September & October of 1932

*** In the Last Sets built, this Shield is missing!

This Chassis, in a "Pandora" Chest Cabinet, and Peter Pan Tombstone Cabinet was advertised as part of the 1933 Lineup

SERVICE NOTES

JACKSON-BELL MODEL 25

CIRCUIT

The circuit of the 4-tube super-heterodyne employing one stage of T.R.F. autodyne oscillator detector, a second detector operating at 175 KC and the conventional resistance coupled audio fed into a 47 type out-put tube. Power supply is obtained from a full wave rectifier circuit.

OPERATION

To put set in operation, insert the proper tubes, as follows:- Looking at rear of set forward and left, place a type 51 or 35 tube, rear left type 24, next in order to the right, type 47, type 80 and type 24. Insert AC plug in circuit and turn on the set by means of switch on volume control, (small knob on lower right side of set.) The small knob on lower left side of set, turns the tone control off and on by means of a switch. The large knob in the center tunes the set from approximately 1700 to 500 KC.

TROUBLES

HUM

Hum may often be traced to defective tubes. After you have checked this and are sure all tubes are O.K. and in correct position, first check set for filter ground - then make sure bias on 247 tube is O.K. Check resistor in 47 grid circuit for open and short to chassis. Check coupling condenser as defective condenser will cause hum. Also, check 1 MFD and bias for open.

If trouble is not found in above tests, remove the 47 tube and if hum still exists, a faulty filter condenser will be found.

POOR QUALITY

Usually caused by $\frac{1}{2}$ meg. resistor in grid of 47 tube grounded to chassis, bad coupling condenser or resistor reversed in drop across speaker field. Be sure .25 meg. resistor is in ground end of drop.

All resistors should be checked for accuracy. If tone is too deep with tone control off, check same making sure it opens up in off position. Poor quality may also be traced to defective autodyne 24 tube.

HOWL

Make sure set is not pushed too far forward in cabinet or resonate howl will occur. Loosen bolts in bottom of cabinet and slide chassis as far back in cabinet as shafts will permit. If this does not cure trouble, remove chassis and loose bolts holding variable, making sure rubber supports holding same are intact and variable is floating in same.

If set has been realigned, be sure plates in variable are not too close, as howl will result.

ALIGNMENT AND BALANCE

MODEL 25

1st.

Make all adjustments with volume control at maximum. Before aligning set make sure all tubes are in correct position and primary on oscillator and R.F. coils are well down towards grid end of coil.

To align 175 KC alignment.

Put set in operation and set tuning condenser to full 100 degree position. Next, remove the screen grid cap from the autodyne oscillator and apply 175 modulated signal to this tube. (Looking at rear of set this tube is the fourth on the extreme right.) Next, remove license plate and adjust trimmers for maximum out-put.

2nd.

Broadcast Alignment.

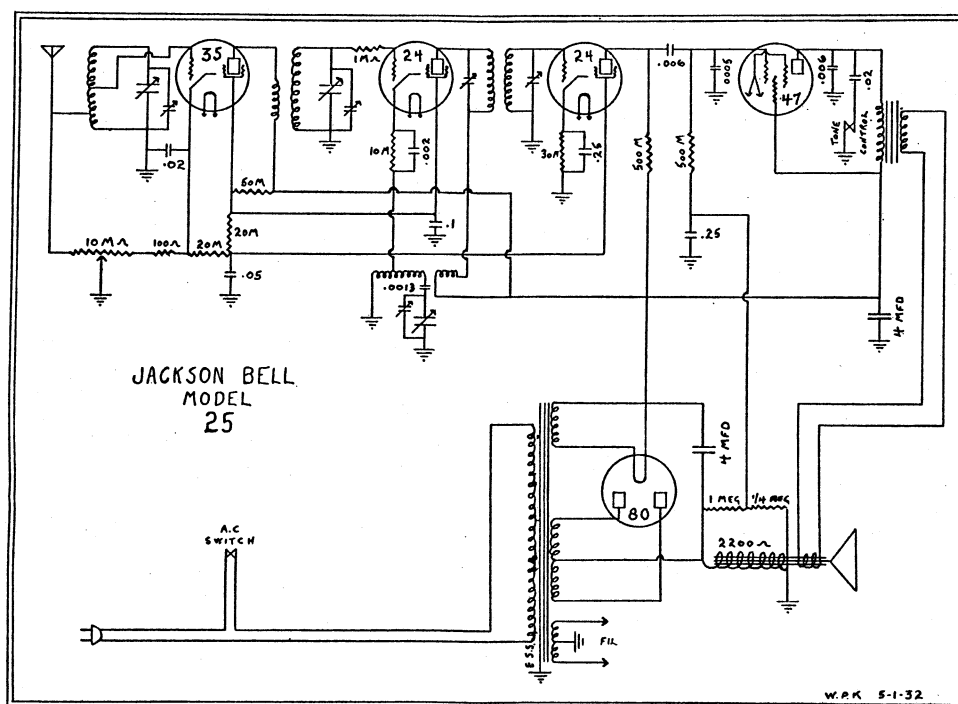
With external modulated signal generator set at approximately 1710 KC (Police frequency). The dial should be set at approximately 5 degrees past minimum. Adjust oscillator trimmer on variable and resonate the other 2 trimmers from maximum out-put at this position. Apply 855 KC modulated signal and align set at this point by bending plates of variable. Do not readjust trimmers. Repeat this operation at 600 KC.

3rd.

With set at 600 KC readjust trimmers on I.F. transformers, for maximum output. If set oscillates when properly aligned, shift external ground lead from center section of variable to point where oscillation ceases.

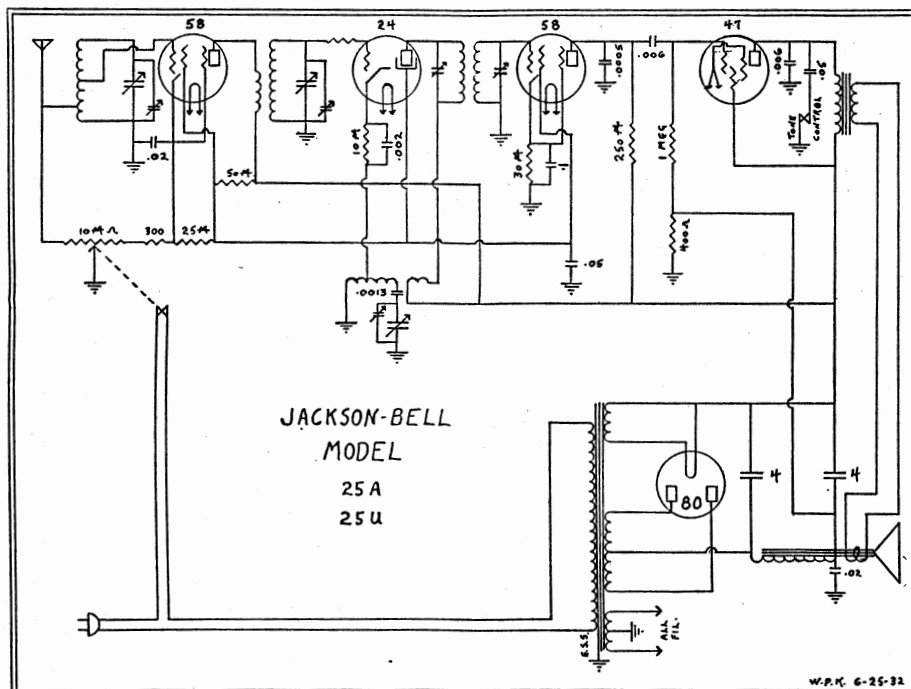
JACKSON-BELL COMPANY, LTD.

SCHEMATIC DIAGRAM



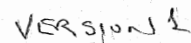
JACKSON BELL
MODEL 25
SUPER

SCHEMATIC DIAGRAM

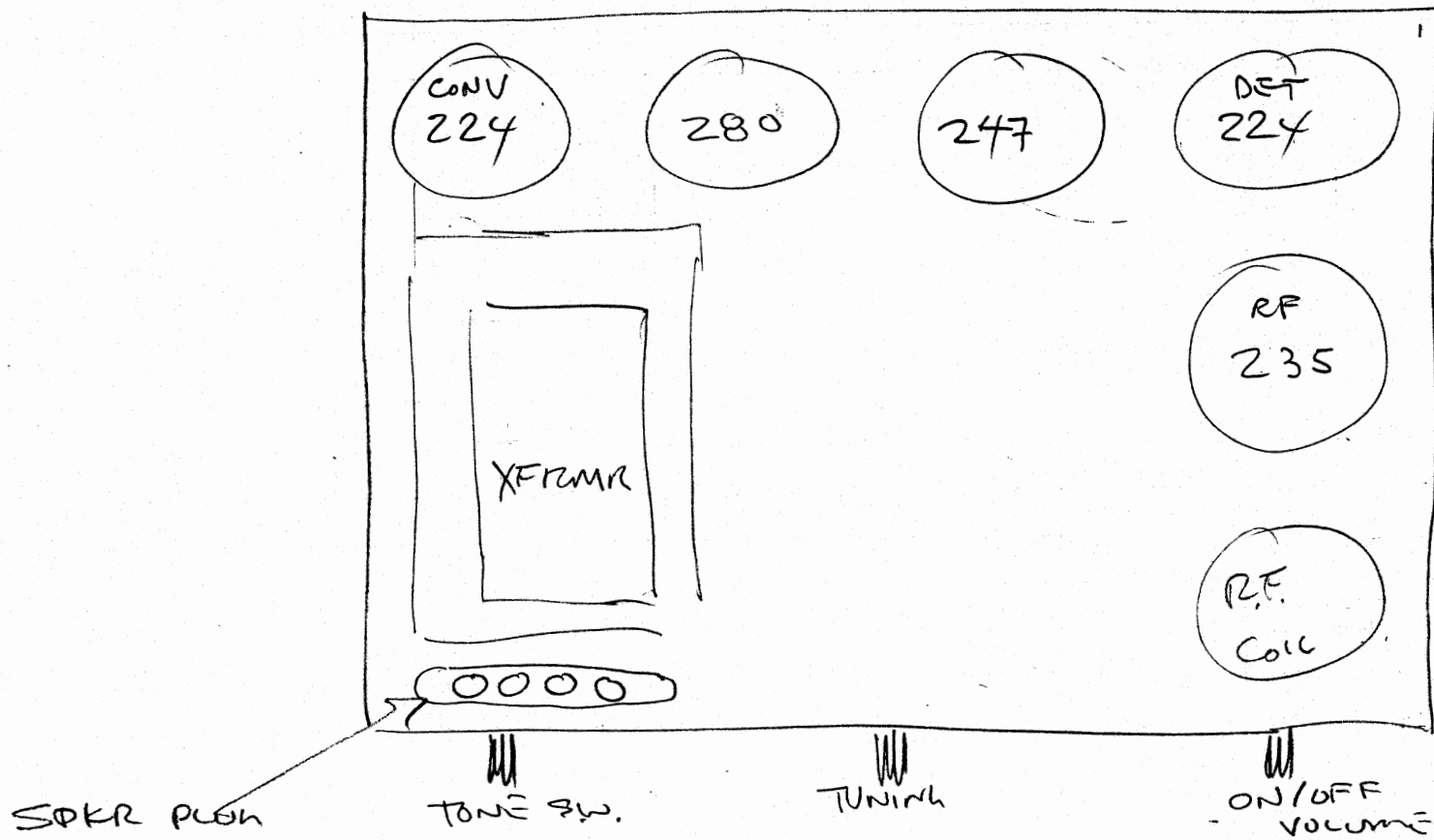


JACKSON BELL
MODEL 25A-25U
SUPER

175KC IF .0013 PAPER CAPACITOR



11

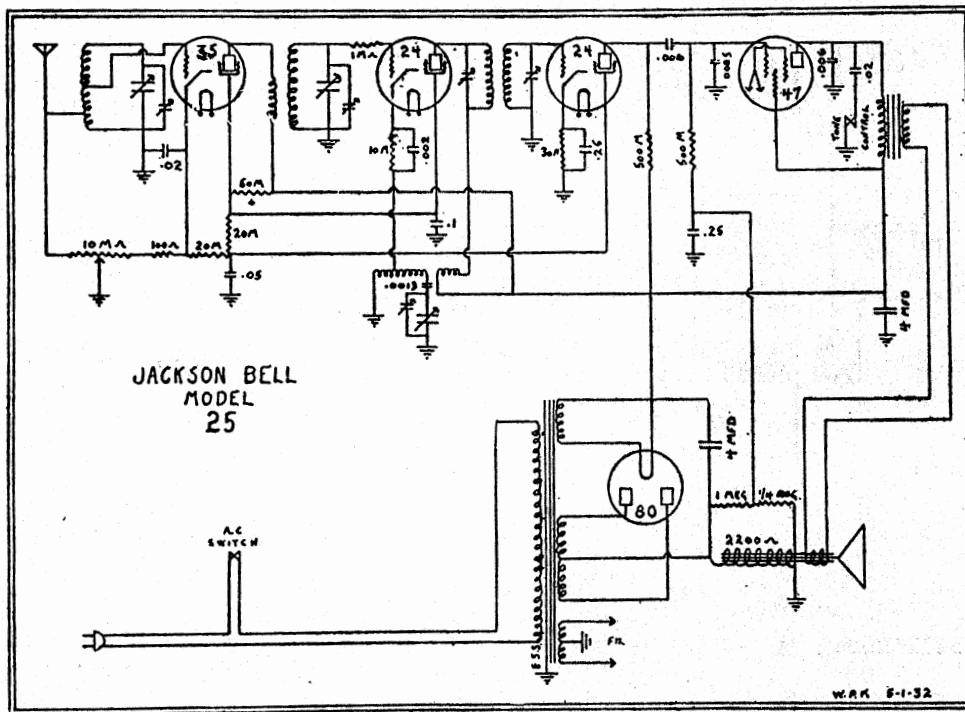


JB-25

MODEL 25
Schematic
Data

JACKSON-BELL CO., LTD.

R.F. AMP & NO I.F. AMP!

SCREEN VOLTAGE
ON DETECTOR
CHANGES WITH
VOLUME CONTROL!

1 MAY 32

Make all adjustments with volume control at maximum. Before aligning set make sure all tubes are in correct position and primary on oscillator and R.F. coils are well down towards grid end of coil.

TO ALIGN 175 KC ALIGNMENT.

Put set in operation and set tuning condenser to full 100 degree position. Next, remove the screen grid cap from the autodyne oscillator and apply 175 modulated signal to this tube. (Looking at rear of set this tube is the fourth on the extreme right.) Next, remove license plate and adjust trimmers for maximum out-put.

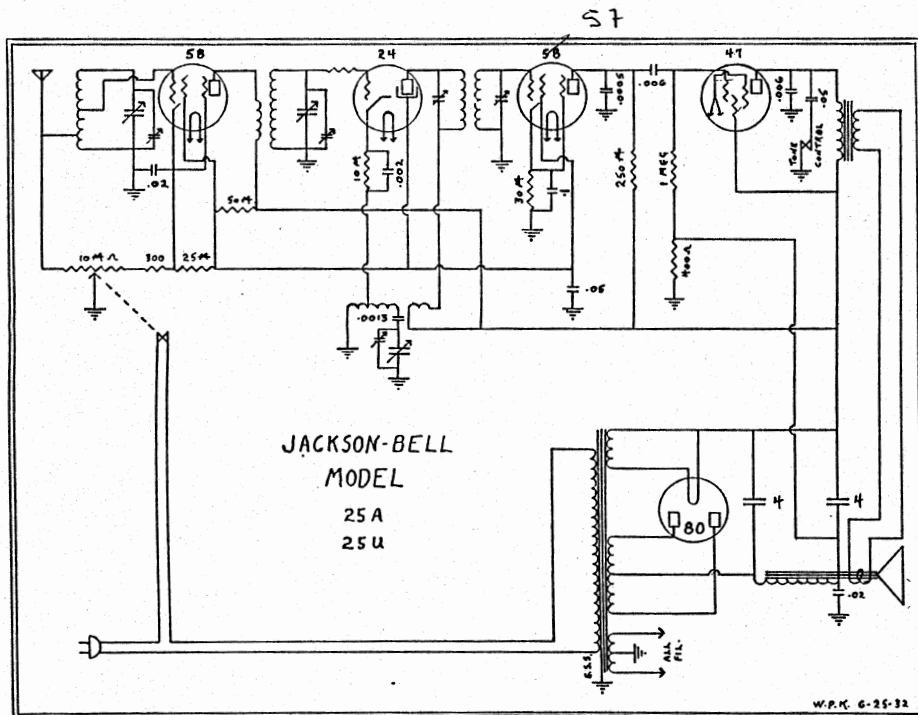
BROADCAST ALIGNMENT.

With external modulated signal generator set at approximately 1710 KC (Police frequency). The dial should be set at approximately 5 degrees past minimum. Adjust oscillator trimmer on variable and resonate the other 2 trimmers from maximum out-put at this position. Apply 855 KC modulated signal and align set at this point by bending plates of variable. Do not readjust trimmers. Repeat this operation at 600 KC.

With set at 600 KC readjust trimmers on I.F. transformers, for maximum output. If set oscillates when properly aligned, shift external ground lead from center section of variable to point where oscillation ceases.

CHANGING VOLUME CONTROL
DE TUNES RE COIL!

SCHEMATIC DIAGRAM



25 JUNE 1932

JACKSON BELL
MODEL 25A-25U
SUPER

VERSION 2
175KC IF!

SCHEMATIC DIAGRAM

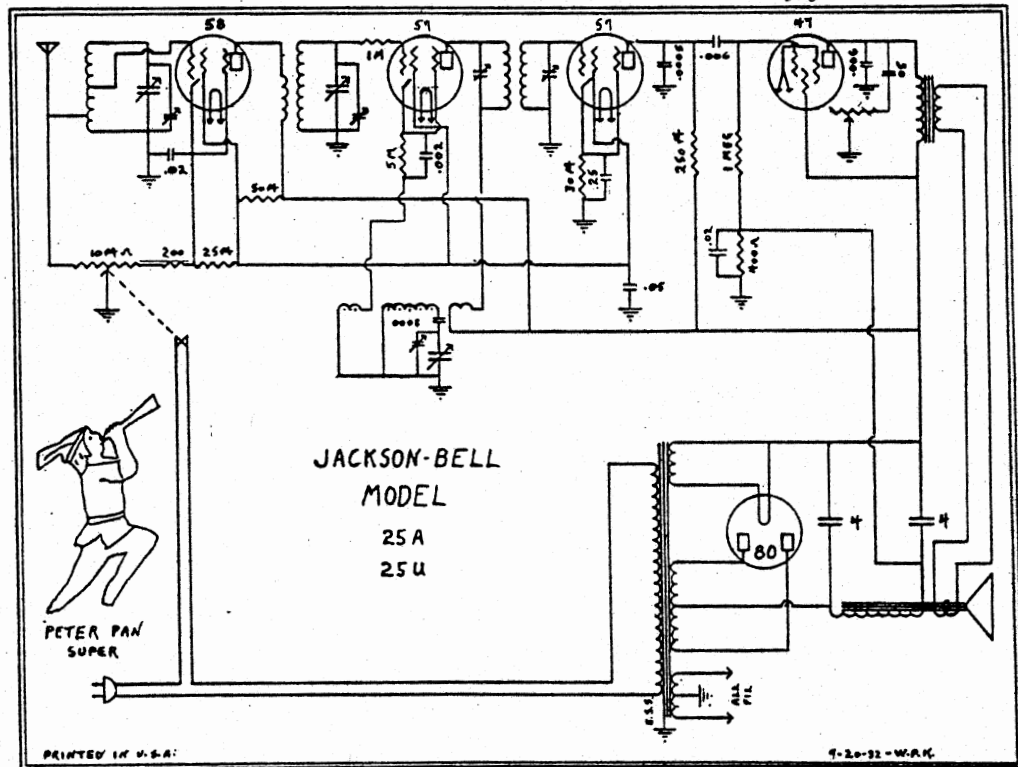
REVERSE CHASSIS ORIENTATION
FROM VERSIONS 1 & 2

0008 PAPER
CAPACITOR

NOTICE...
A 157 AS
AN "AUTODYNE"

PROBABLY THIS!

POT AS
TONE CONTROL



20 SEP 32

I HAVE THIS CHASSIS MARKED 8/32? ???
PERHAPS THERE WAS ANOTHER
VERSION - BETWEEN THESE?

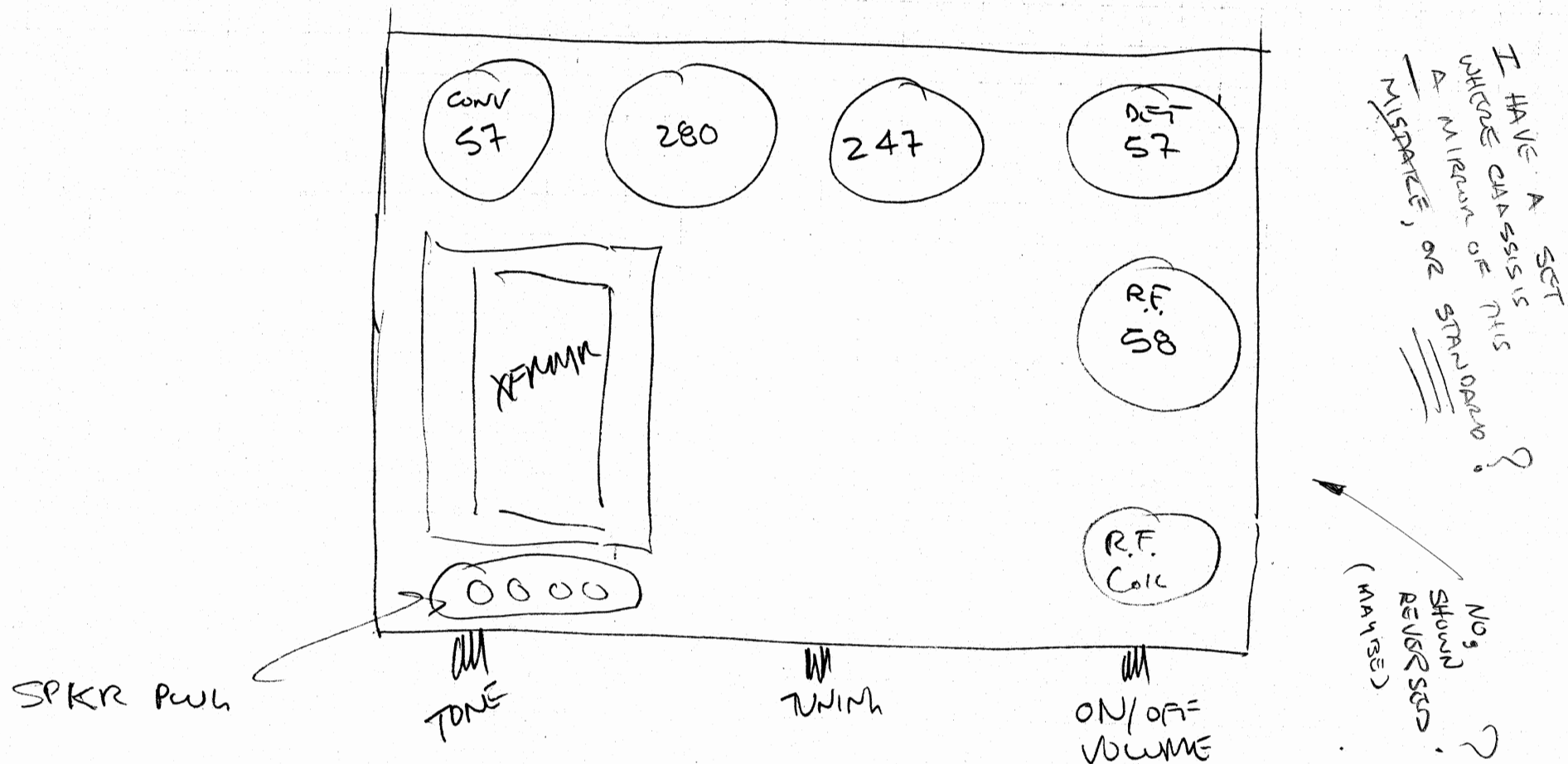
JACKSON BELL
MODEL 25A--25U

SUPER

PETER PAN

VERSION 3

Circa 1993 RAG



JB-25A

NOTICE A DIFFERENT
STYLE DRAWING !!!

↑
BOTTOM of
Circ. mems
A BY-PASS
CAP!

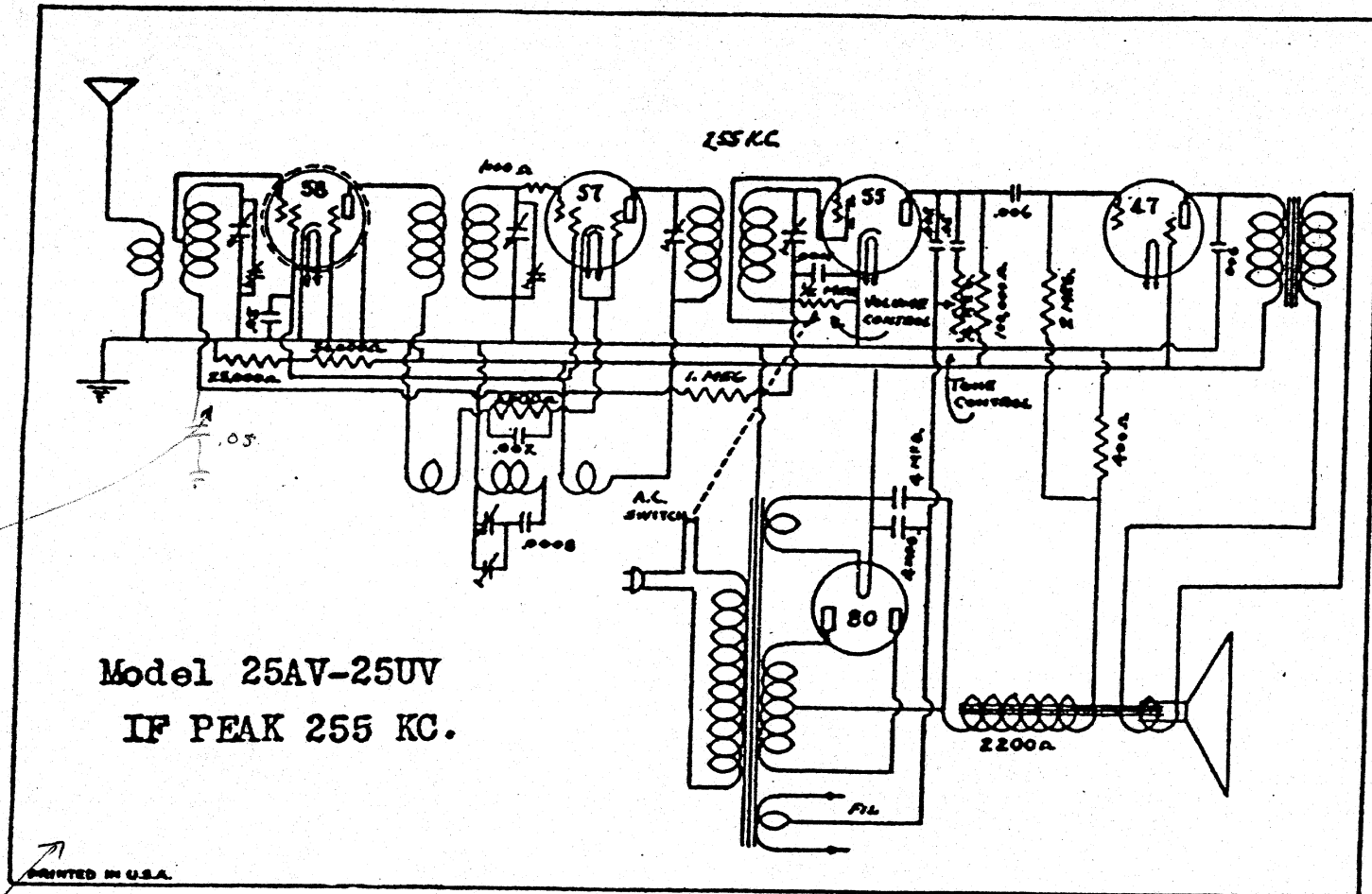
Version 4

JACKSON BELL
MODEL 25AV--25UV
SUPER *AVC*

CHASS SAME ORIENTATION
AS VERSION 3

.0008 PAPER
CAPACITOR

MISSING
BY-PASS
CAPACITOR



PETER PAN - SAME AS J-B-

NOTE TONE CONTROL
HAS BEEN MOUNTED
PROBABLY NOV '32, SEE AD'S
PETER PAN