

Panoramic PCA-2 Schematics

There are at least three known schematic drawing versions for the Panoramic PCA-2 Panadaptor plus another for the version sold by Hallicrafters as the SP-44.

Panoramic Dwg # P3-5220

Uses 902 CRT, power transformer with two separate HV windings, center frequency control in 6AC7 cathode circuit.

Panoramic Dwg # P3-5240 - issues as part of a manual revision including the CRT type change.

Uses 2AP1 CRT, power transformer with two separate HV windings, center frequency control still in 6AC7 cathode circuit, but R41 deleted.

Panoramic Dwg # unk

Uses 2AP1 CRT, power transformer with one HV winding, having an extra tap and voltage doubler circuit for the negative HV supply, center frequency control sets grid bias (divided from regulated screen supply) for 6AC7 which has a fixed cathode resistor.

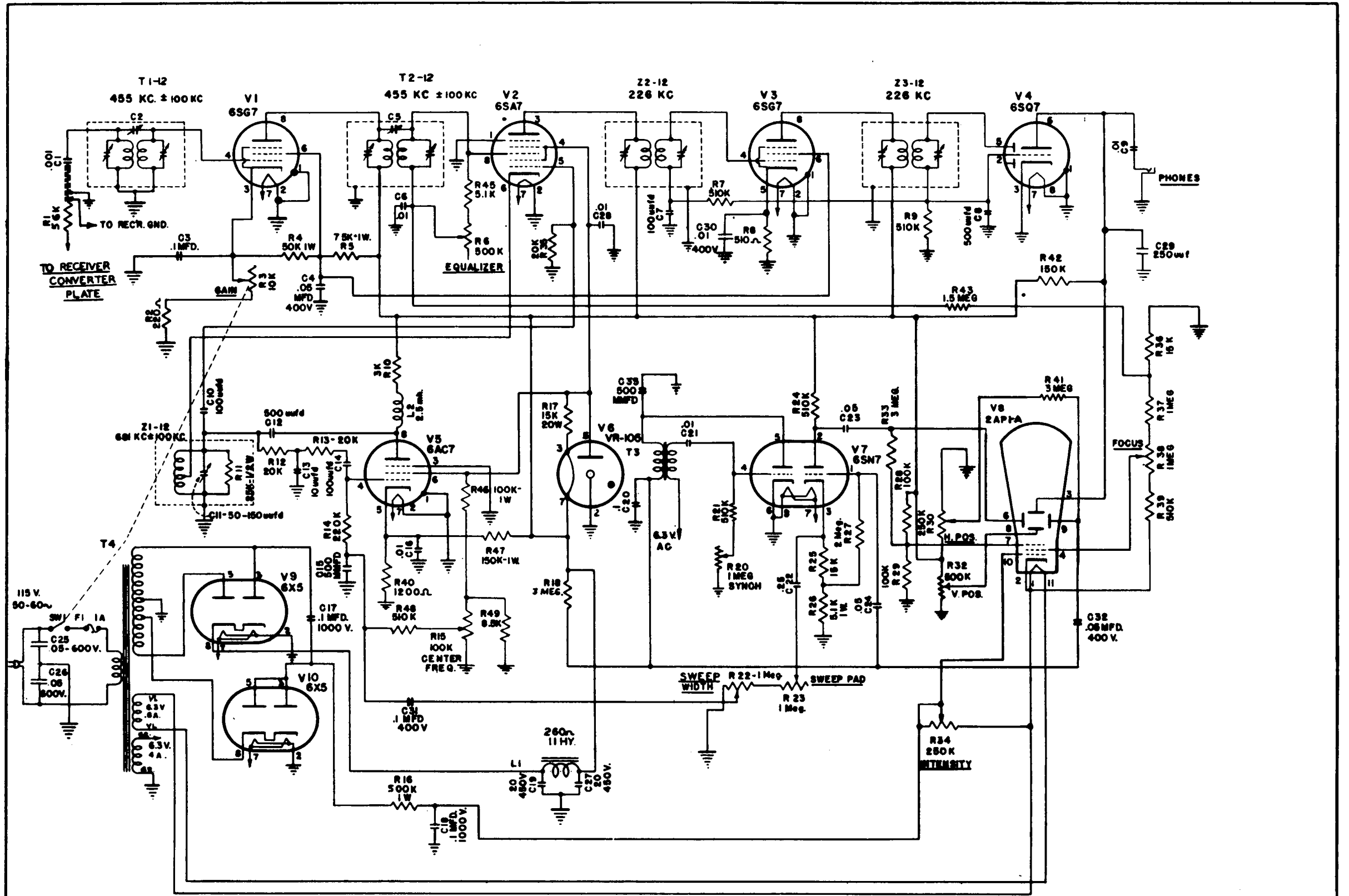
(This schematic from BAMA manual file, pca-2.pdf)

Hallicrafters Drawing 89C243A (for SP-44)

This drawing, from a Hallicrafters SP-44 Service Bulletin, was clearly prepared by a lazy draftsman, who added a Hallicrafters drawing number but did not bother to change the caption, identifying the drawing as a PCA-2. This version has minor component value changes and mixed details from the Panoramic drawings above.

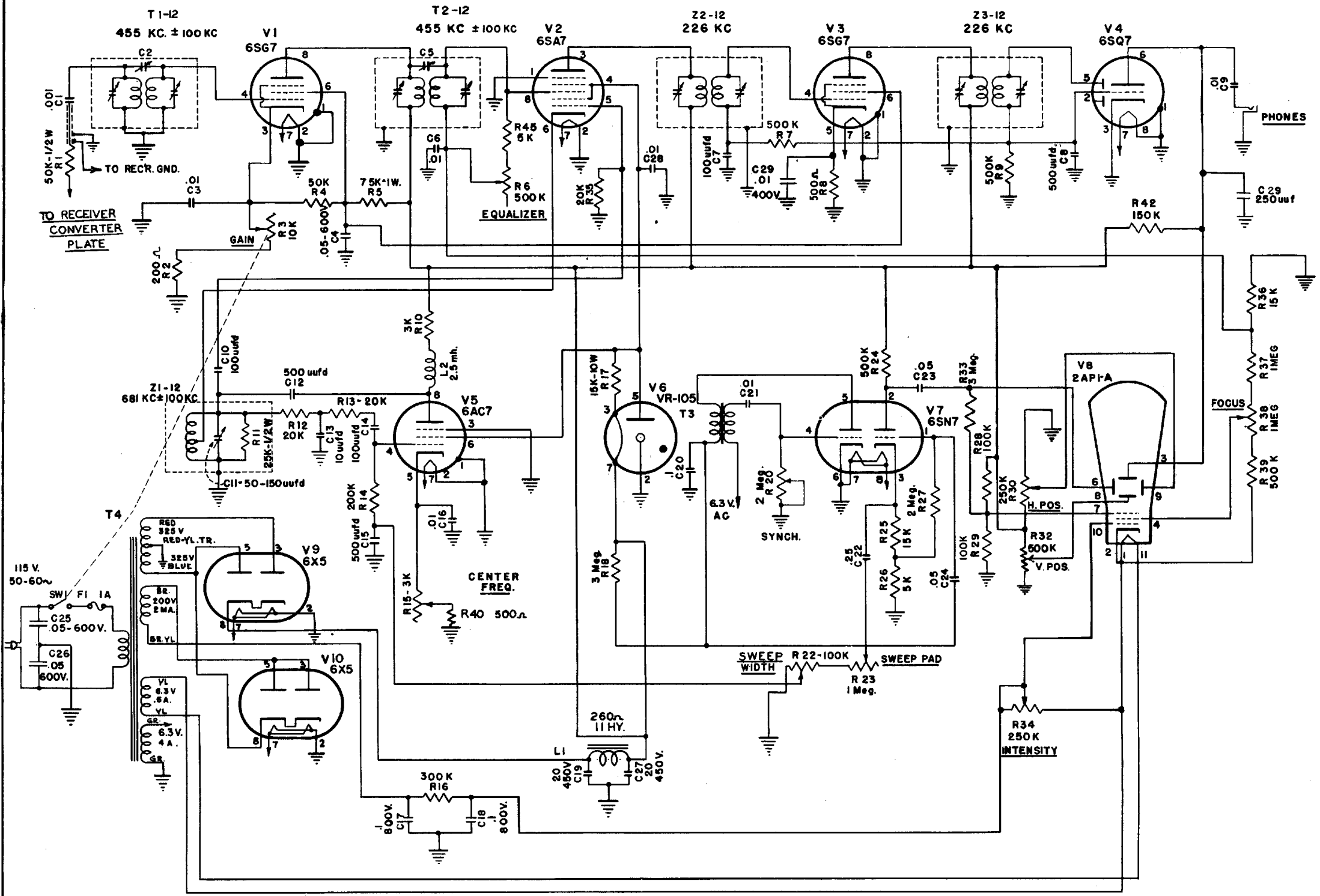
Also note that the Ryder's data for the SP-44 includes some recommended shielding additions to the SP-44, which may also be applicable to the PCA-2. (Rider's Vol.18, Hallicrafters Change pages 18-3, 18-4).

--Chuck McGregor N7RHU



- NOTES.
1. ALL CONDENSER VALUES ARE IN μfd s EXCEPT AS NOTED.
 2. RESISTOR VALUES DESIGNATED "K" ARE IN THOUSANDS (OHMS).
 3. C19 AND C27 CAN BE $2 \times 15 \text{ MFD} - 450 \text{ V}$.
 4. ALL FIXED RESISTORS ARE 1/2 WATT EXCEPT WHERE OTHERWISE NOTED.

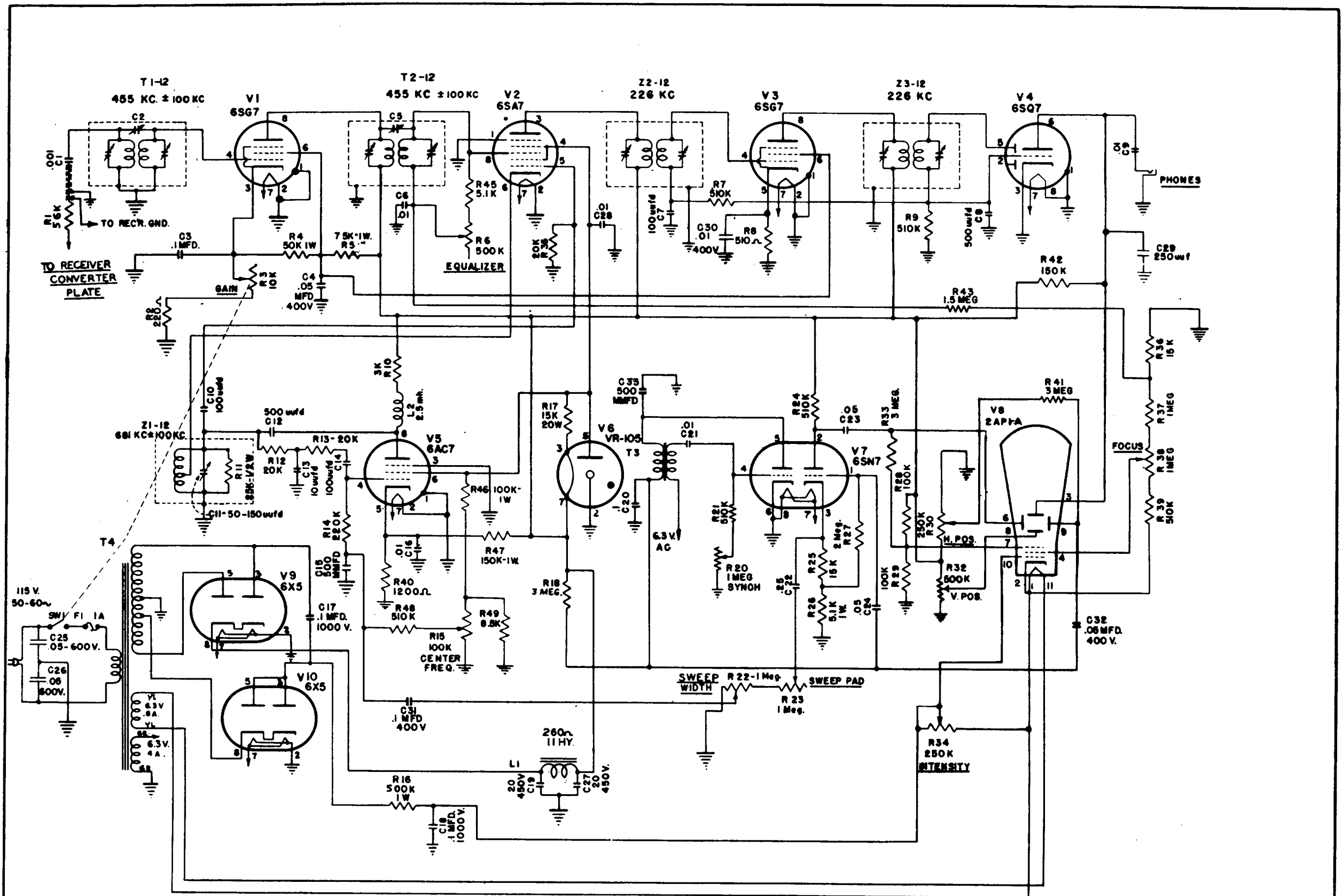
Figure 36. Circuit Diagram, PANADAPTOR Model PCA-2, Type T-200



NOTES.
 1. ALL CONDENSER VALUES ARE IN ufdS EXCEPT AS NOTED.
 2. RESISTOR VALUES DESIGNATED "K" ARE IN THOUSANDS (OHMS).
 3. C19 AND C27 CAN BE 2x 15 MFD - 450 V.

USED ON			
PANORAMIC RADIO CORP. NEW YORK CITY			
MODEL	T 200	TYPE	PGA-2
			STOCK NUMBER
DRAWN BY	A.E.H. 1-4-46	CHECKED BY	B.S. 1-4-46
		APPROVED BY	J.R.C. 1-5-46
CIRCUIT DIAGRAM			
PANADAPTOR			
SCALE:	DRAWING NUMBER	P3-5240	

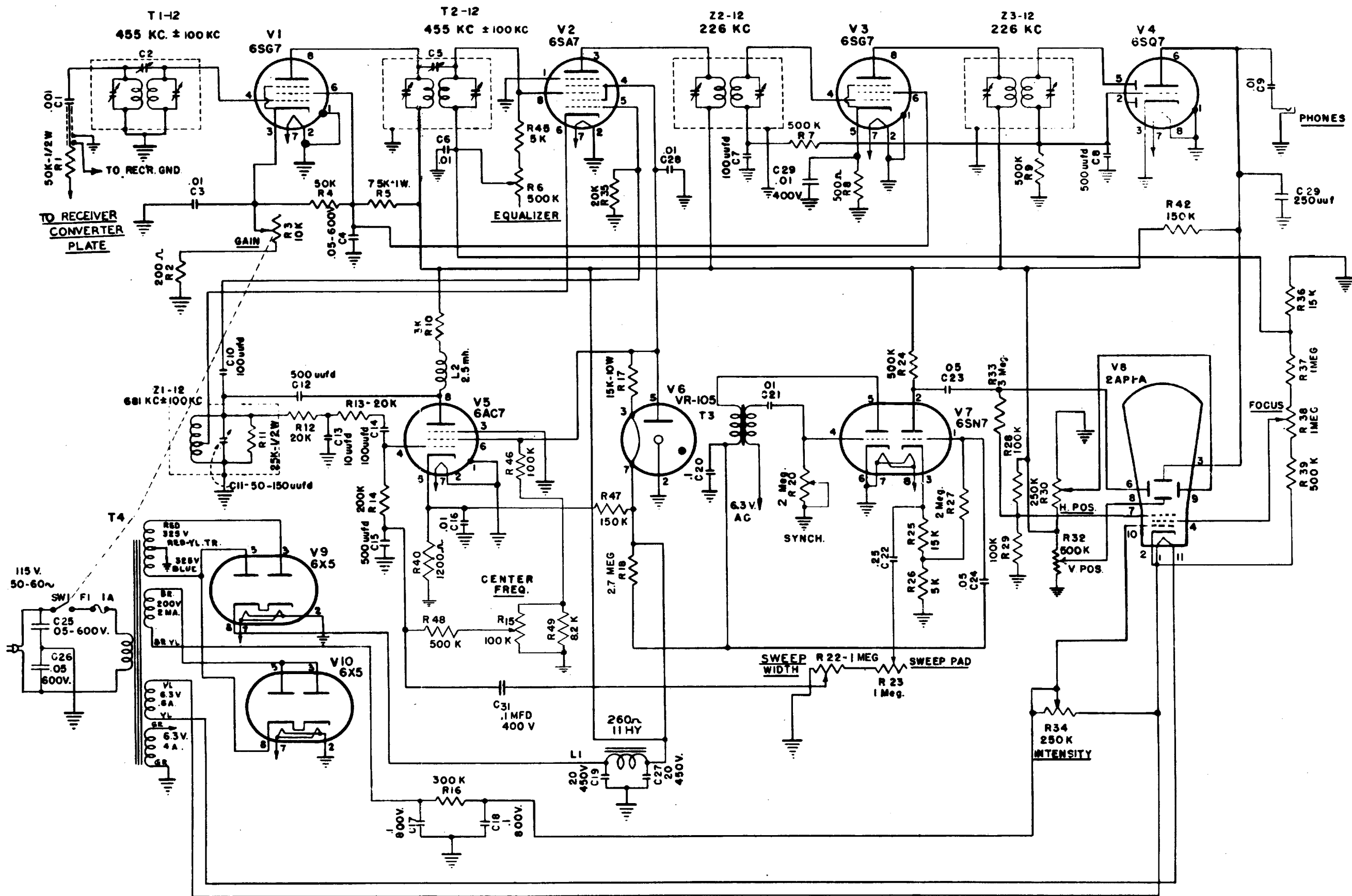
Figure 36. Circuit Diagram, PANADAPTOR Model PCA-2, Type T-200



NOTES.

1. ALL CONDENSER VALUES ARE IN ufd. EXCEPT AS NOTED.
2. RESISTOR VALUES DESIGNATED "K" ARE IN THOUSANDS (OHMS).
3. C19 AND C27 CAN BE 2 x 15 MFD - 450 V.
4. ALL FIXED RESISTORS ARE 1/2 WATT EXCEPT WHERE OTHERWISE NOTED

Figure 36. Circuit Diagram, PANADAPTOR Model PCA-2, Type T-200



- NOTES
1. ALL CONDENSER VALUES ARE IN μfd , EXCEPT AS NOTED.
 2. RESISTOR VALUES DESIGNATED "K" ARE IN THOUSANDS (OHMS).
 3. C19 AND C27 CAN BE 2.15 MFD - 450 V.

Fig. 4. Circuit Diagram, PANADAPTOR Model PCA-2, Type T-200

From Riders' Vol 18, Change pages

Halicrafters SP-44 AND SX-42

These models appear on *pages 17-1 to 17-5 and 17-6 to 17-16 respectively of Rider's Volume XVII*. When the SX-42 is used with the SP-44 Pana-daptor on the low-frequency band, it appears to motor boat. To correct this condition, do the following.

The connecting cable between the SP-44 and the SX-42 is shielded and the shield is connected to the SX-42 ground. Disconnect the shield from the SX-42 ground and place a 50- μ f capacitor between the shield and the SX-42 chassis. Be sure that the SX-42 chassis is well grounded. A shielded antenna lead, or a balanced antenna, on the SX-42 may also help.

The following modifications should be made on the SP-44 unit. A strip of bonding braid, $\frac{3}{8}$ inch wide, may

be connected to the No. 1 grounded pin of the 6AC7 tube, going around the choke coil and connecting to the right side of the chassis. The braid should be insulated with a piece of spaghetti and should lie parallel to the front panel. Two pieces of braid $\frac{1}{4}$ inch wide, or a copper strap may also be used.

A piece of copper or steel sheet about $2\frac{1}{2}$ inches wide may be screwed or soldered across the bottom so that it is attached to both edges of the chassis. This plate should be centered over the bottom of the 6AC7 tube.