l. Adjust TVG-2 & CRO controls to give desired vertical deflection. Remember to keep TVG-2 output as low as possible so as not to overload the Video amplifiers.

m. With blanking switch in double pattern position adjust the phasing control to make the pattern a single trace or as nearly as possible, then if a single pattern is desired with a baseline throw the blanking switch to blanking position.

n. Compare the pattern on the CRO with the pattern given by the set manufacturer, if the system has been properly aligned the pattern should resemble that of Figure 9A (The reverse switch may be used to reverse the pattern to conform with the manufacturer's pattern and the sweep dial may be changed to center the pattern on the CRO.)

o. Turn the Marker switch to variable position and set the Marker dial to 22.3 and adjust the marker output to show a marker pip on the response curve. Keep the marker output as low as possible so as not to distort the curve. This marker pip should appear on the curve as in Figure 9A.

p. Turn the marker dial to 25.75 and the marker pip should appear at approximately 50% of the amplitude of the pattern on the slope of the pattern.

q. The other points of adjustment effecting the curve may be seen by adjusting the marker dial to the various frequencies which were used in the above alignment procedure.

r. Slight re-adjustment of the system may be made at each point to produce a satisfactory response curve.

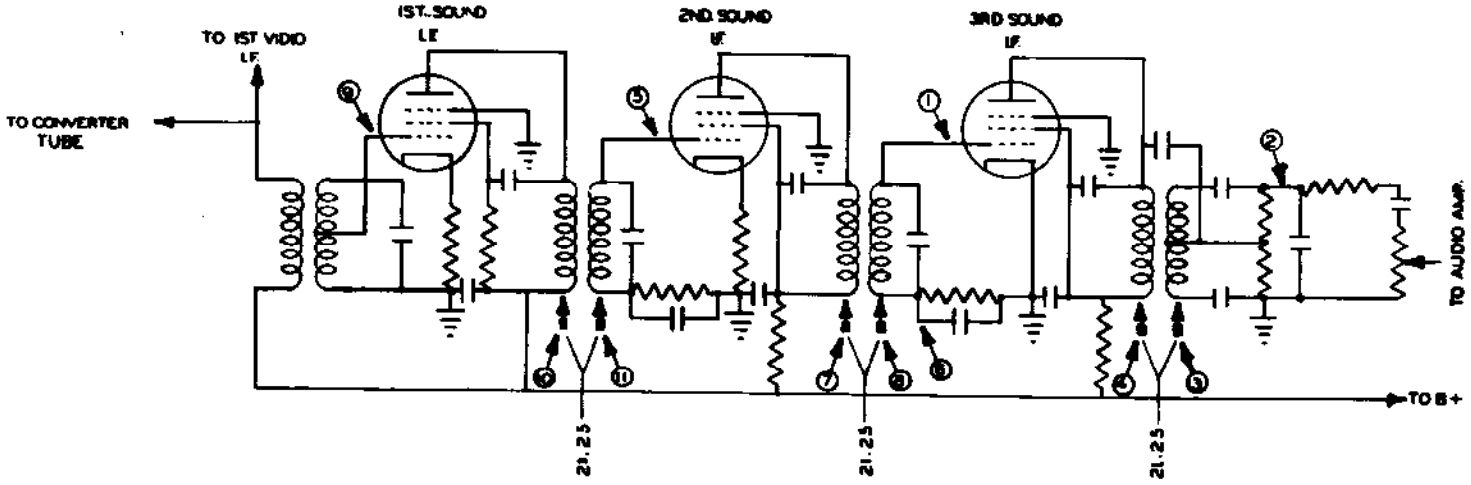

Figure 10. Typical Sound I. F. System

4. Alignment of Sound Discriminator.

a. Connect TVG-2 output high side to the grid of the 3rd IF tube (Point 1 of Figure 10) through a .01 mfd. condenser, and the low side to "ground."