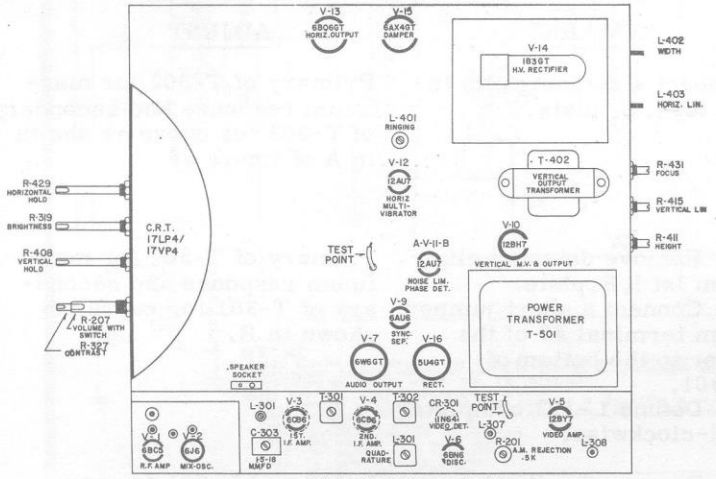
1953

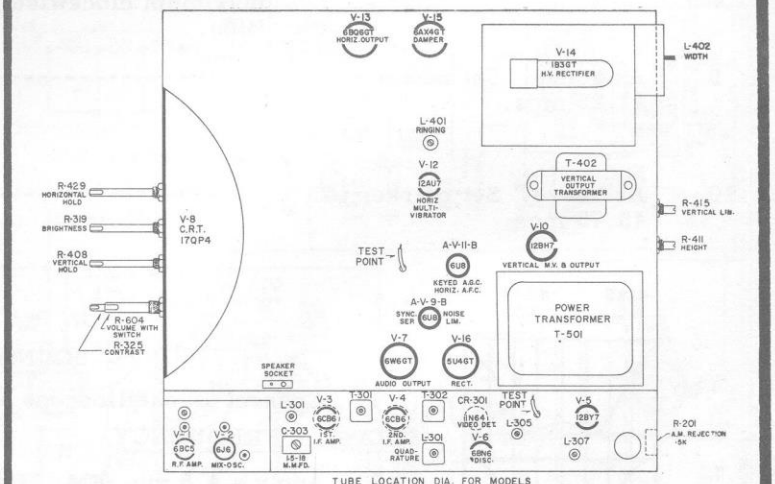
WESTINGHOUSE TELEVISION

MODELS

17TVD7T, 17TVD13K, 17TVD6C, 17TV8T, 17TV14K, 17TV7C



TUBE LOCATION DIA. FOR MODELS
17TVD7T, 17TVD13K & 17TVD6C



TUBE LOCATION DIA. FOR MODELS
17TV8T , 17TV14K & 17TV7C

FOR OTHER MISCELLANEOUS INFORMATION

REFER TO TELEVISION SERVICE MANUAL

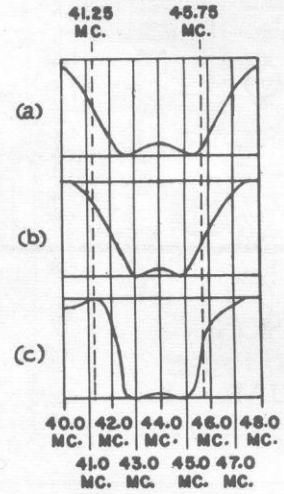
RS-307

RS-307 MODELS 17TVD7T TO 17TV7C

PICTURE I.F. ALIGNMENT

1 Remove V-1, the R.F. Amplifier tube from its socket.
2 Turn the channel selector to channel #13.
3 Connect a -3 volt bias battery to pin #7 of the tuner for models 17TVD7T, 17TVD13K and 17TVD6C. Use a -4.5 volts for the other models.
4 Connect the oscilloscope to the video test terminal through the usual decoupling network.
5 Couple the marker generator output to the sweep generator output so that the two signals are applied together to the points specified in the steps to follow. Use the marker to check the response curve at the frequencies indicated.

STEP	FREQUENCY	REMARKS	ADJUST
6	Set sweep generator to 44 mcs. with 10 mc. deviation. Couple sweep and marker generator to 2nd I.F. grid through the usual matching network.	Connect a detuning clip to the lst I.F. plate.	Primary of T-302 for maximum response and secondary of T-302 for curve as shown in A of figure #6.
7	Couple sweep and marker generator to lst I.F. grid as above.	(a) Remove detuning clip from lst I.F.plate. (b) Connect a short jumper from terminal #7 of the tuner to the bottom of L-301. (c) Detune L-112 completely anti-clockwise.	Primary of T-301 for maximum response and secondary of T-301 for curve as shown in B.
8	Spray couple the sweep and marker generator to V-2, the osc-mixer tube.	(a) Remove the short jumper referred to in step #7. (b) Rotate C-303 to the maximum clockwise position.	L-112 and L-301 for response as close as possible to the curve shown in C.
9	As above. Set marker to 41.25 mcs.	----------	C-303 to minimize response. Sound marker must not exceed 5% up on curve as shown in C.
10	As above. Set marker to 45.75 mcs.	----------	If necessary, readjust L-112 and L-301 so that the final response curve is as shown in C. Picture marker (45.75) will be approximately 50% up on curve.



I-F RESPONSE CURVES

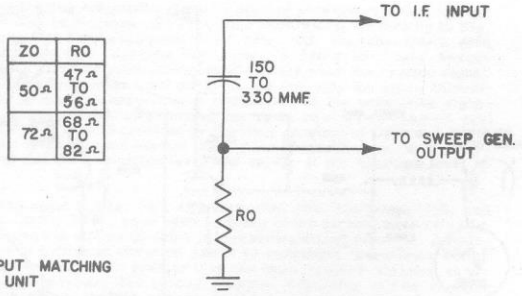
FIG. #6

SOUND I.F. ALIGNMENT

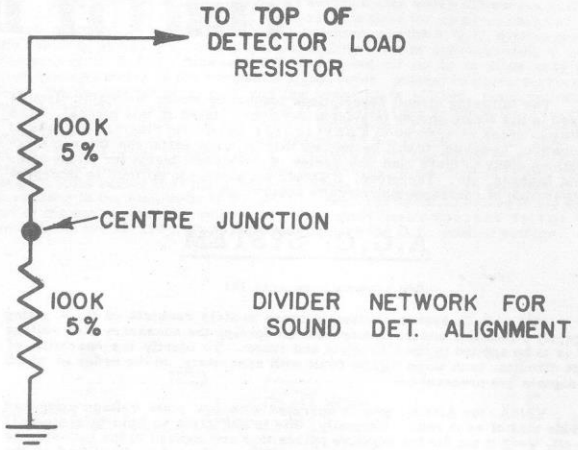
1 Connect an oscilloscope across the volume control.

STEP	FREQUENCY	REMARKS	ADJUST
2	Apply a 4.5 mc. FM signal to the video test point. Use approximately 7.5 KC deviation.	Use a low level input signal.	L-307 for maximum output.
3	Same as above.	Use a high level input signal.	L-201 for maximum output.
4	Apply a 4.5 mc. AM signal to the video test point (modulated).	Alternatingly increase and decrease the input signal level during this adjustment.	AM rejection control R-201 for minimum output. Check for equal peaks on both sides of this point.

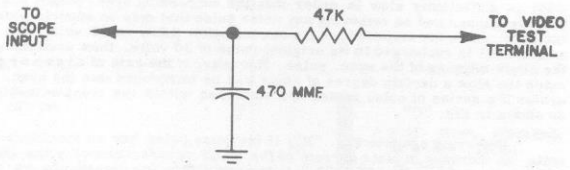
ZO	RO
50Ω	47Ω TO 56Ω
72Ω	68Ω TO 82Ω



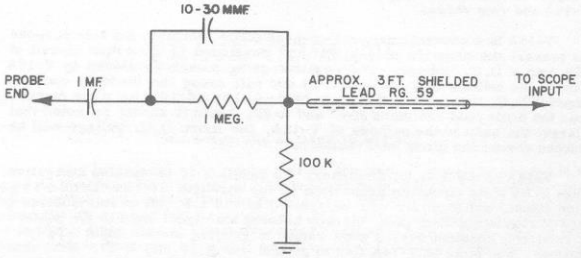
I.F. INPUT MATCHING UNIT



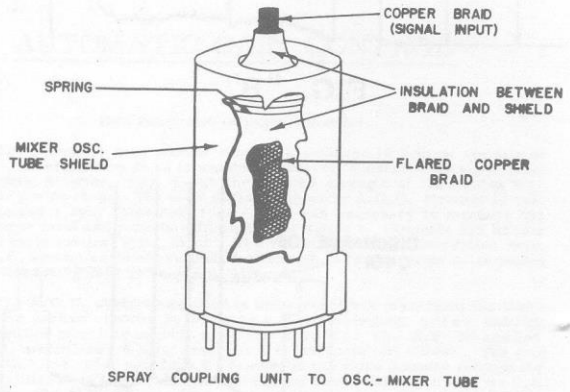
DIVIDER NETWORK FOR SOUND DET. ALIGNMENT



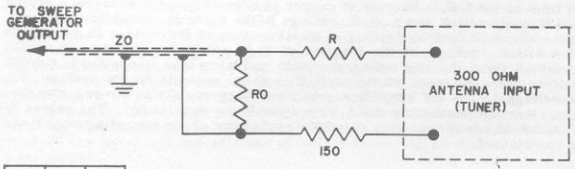
SCOPE DECOUPLING UNIT



PROBE FOR SCOPING WAVEFORMS

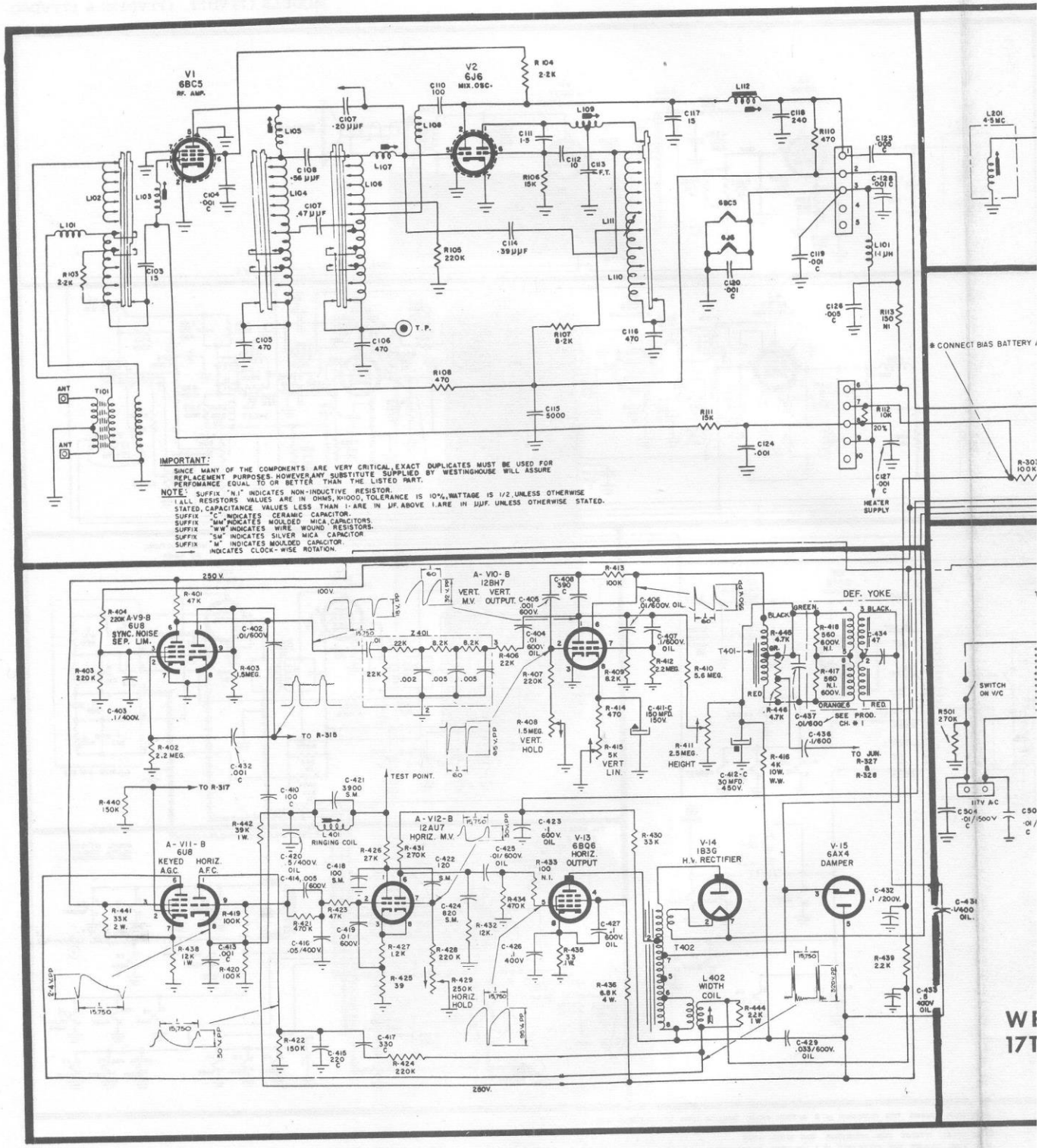


SPRAY COUPLING UNIT TO OSC.-MIXER TUBE

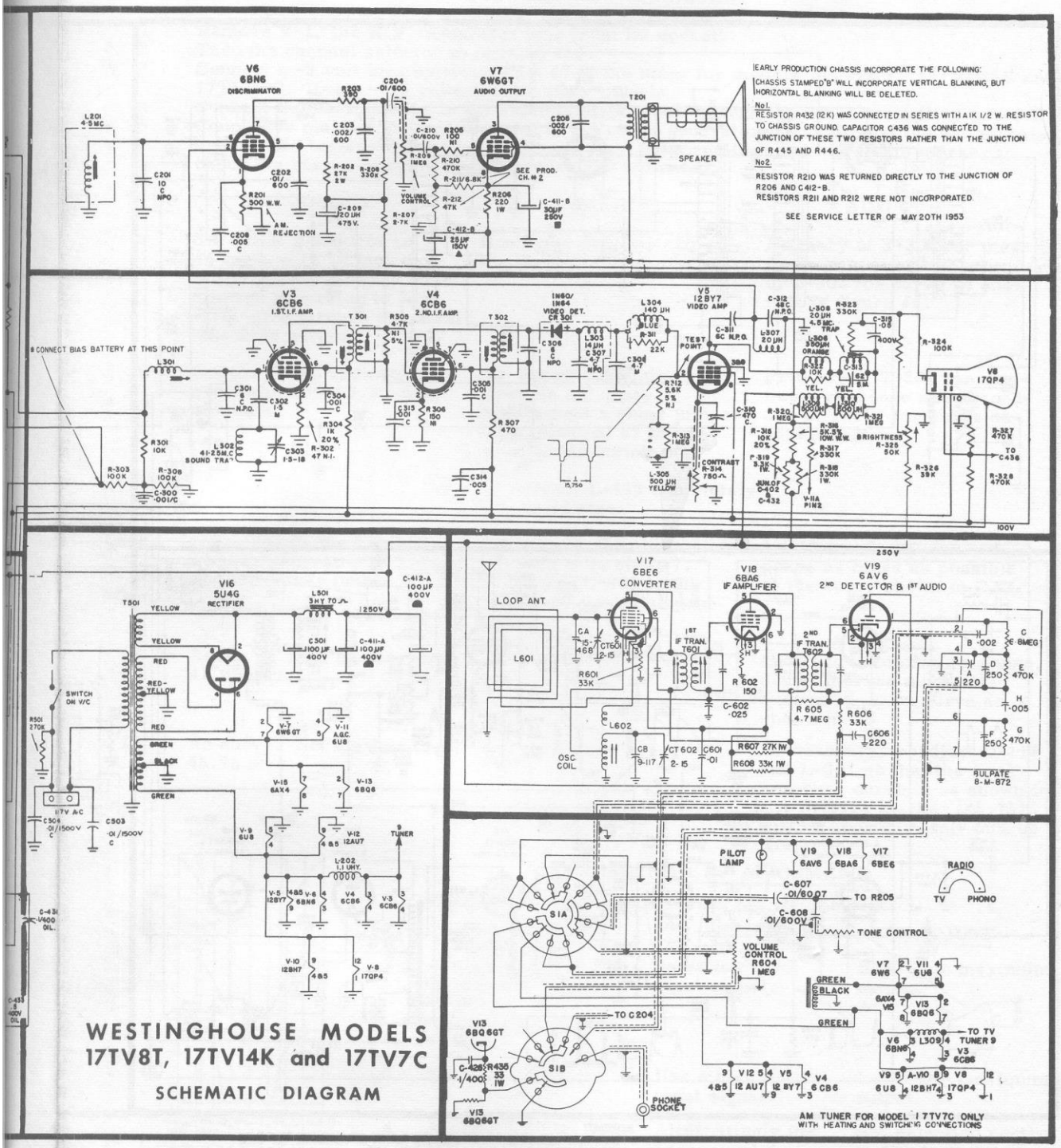


ZO	RO	R
50Ω	56Ω	120Ω
72Ω	82Ω	110Ω

ANTENNA INPUT MATCHING UNIT



* REQUIRED FOR ALIGNMENT ONLY



WESTINGHOUSE MODELS 17TV8T, 17TV14K and 17TV7C

SCHEMATIC DIAGRAM