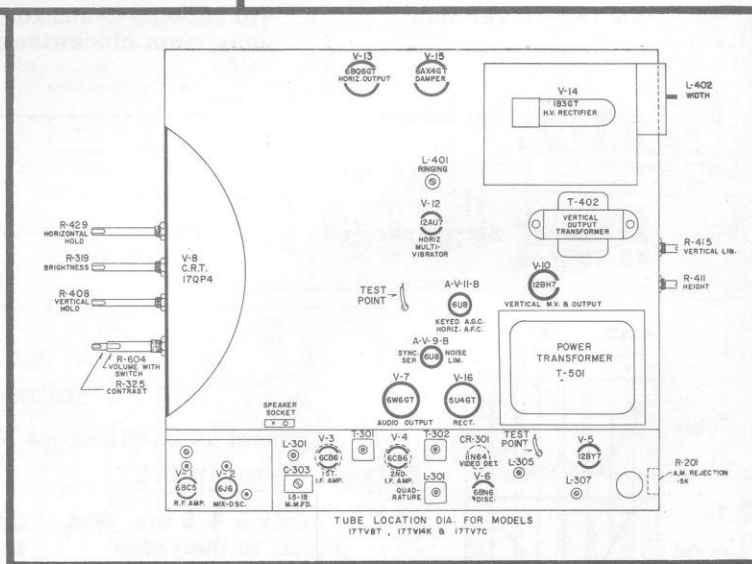
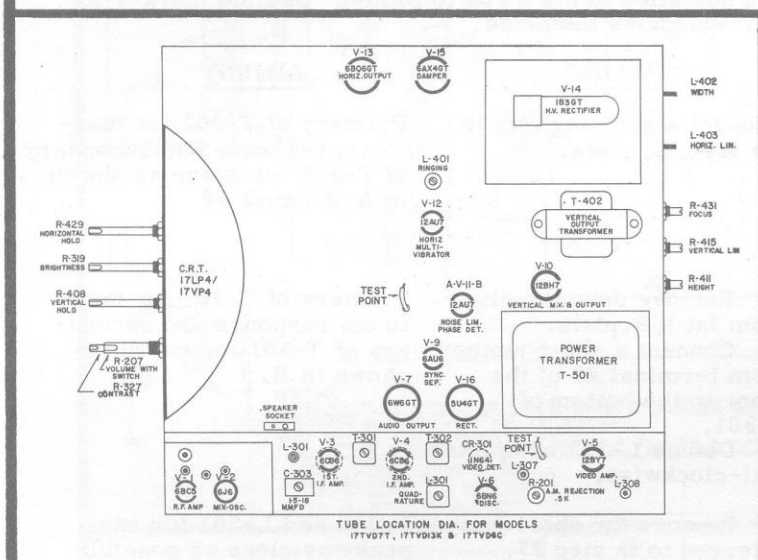


1953

WESTINGHOUSE TELEVISION

MODELS

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



FOR OTHER MISCELLANEOUS INFORMATION

REFER TO TELEVISION SERVICE MANUAL

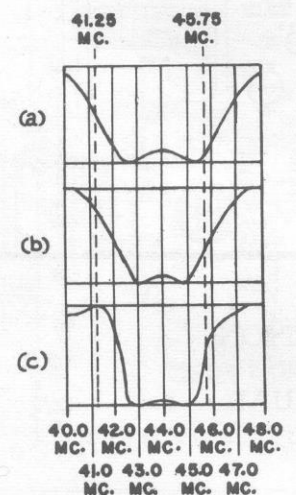
RS-307

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 1st 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 1st I.F. grid as above.	(a) Remove detuning clip from 1st 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 L-112 and L-301 for response as close as possible to the curve shown in C. (b) Rotate C-303 to the maximum clockwise position.	
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.



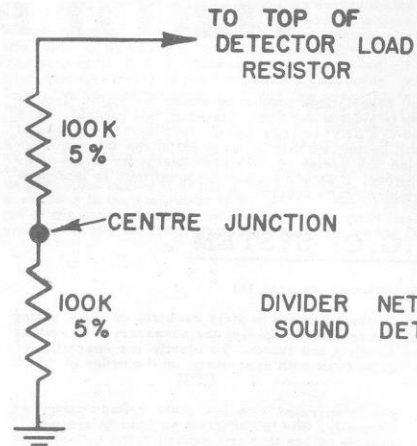
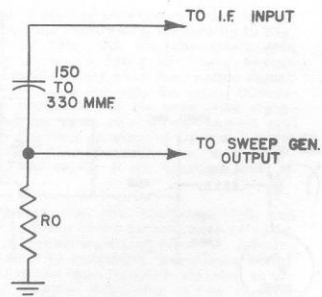
I-F RESPONSE CURVES

SOUND I.F. ALIGNMENT

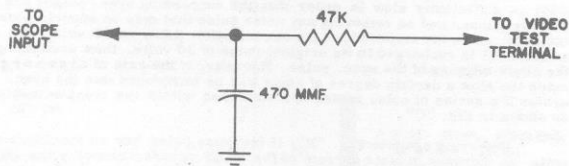
1 Connect an oscilloscope across the volume control.			
STEP	FREQUENCY	REMARKS	ADJUST
2	Apply a 4.5 mc. FM signal to the video test point. Use approximately 7.5 KC deviation.	Use a low level input signal.	L-307 for maximum output.
3	Same as above.	Use a high level input signal.	L-201 for maximum output.
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.

Z0	R0
50 Ω	47 Ω TO 56 Ω
72 Ω	68 Ω TO 82 Ω

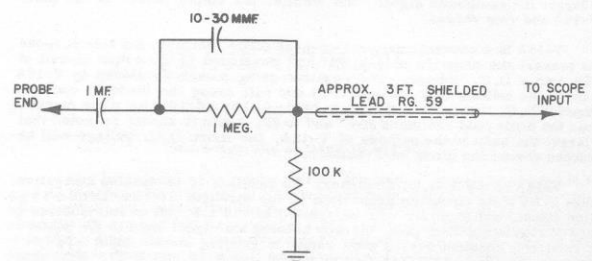
I.F. INPUT MATCHING UNIT



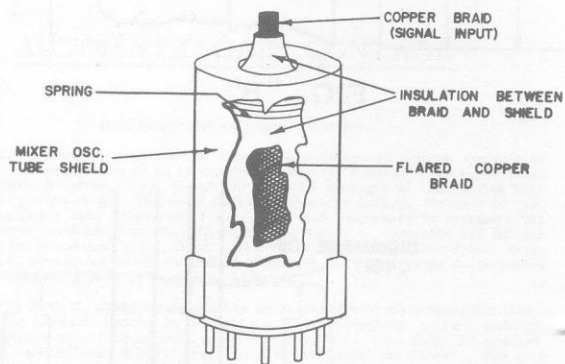
DIVIDER NETWORK FOR SOUND DET. ALIGNMENT



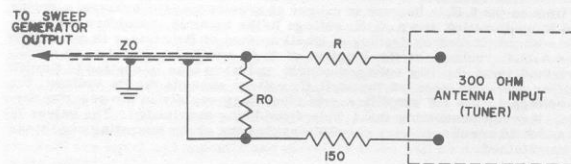
SCOPE DECOUPLING UNIT



PROBE FOR SCOPING WAVEFORMS

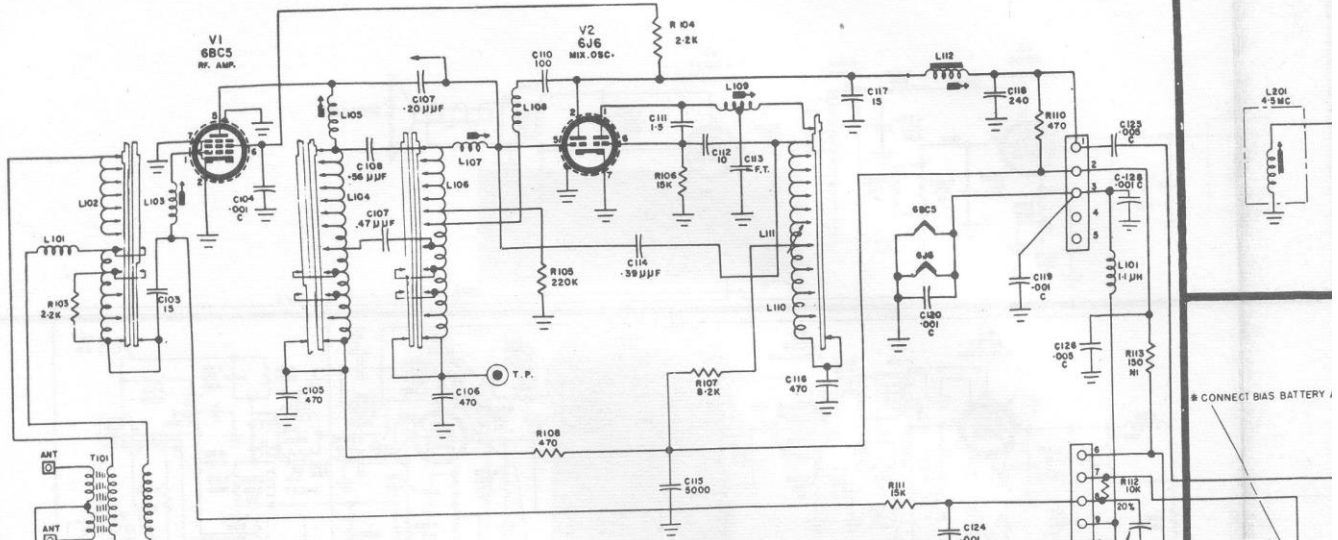


SPRAY COUPLING UNIT TO OSC.-MIXER TUBE

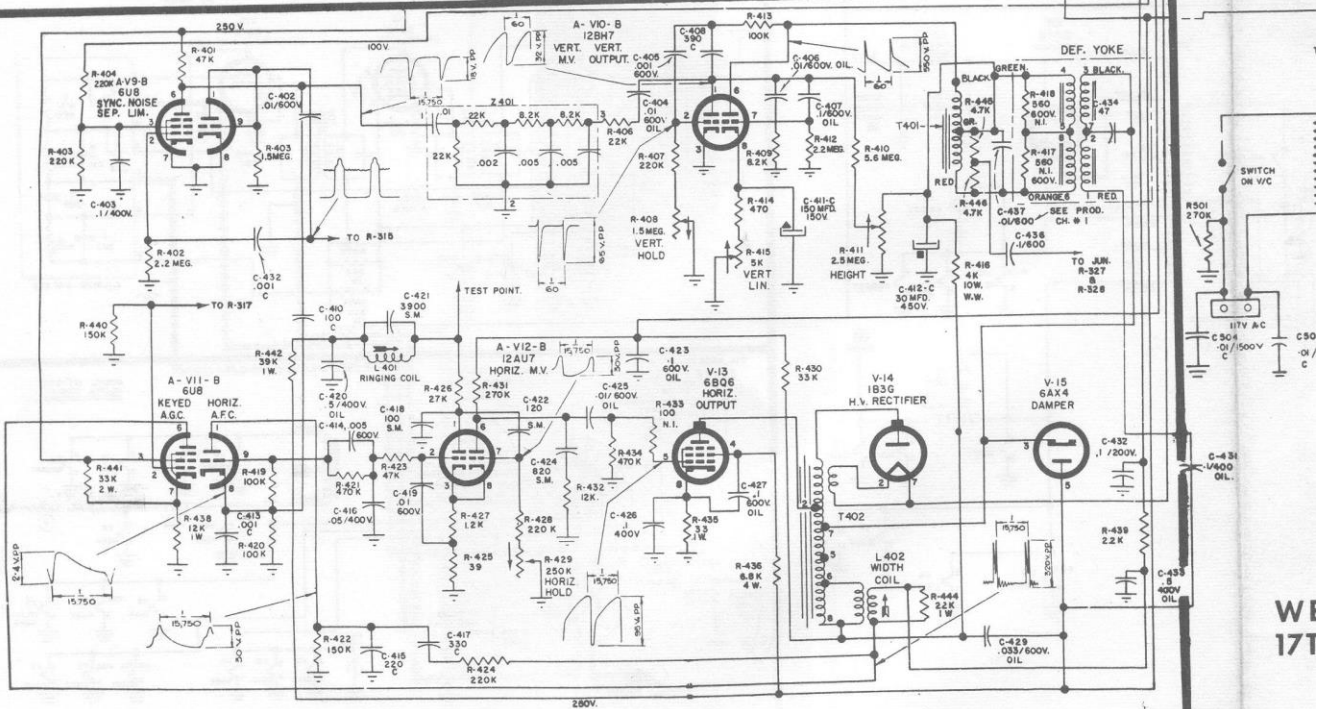


Z0	R0	R
50 Ω	56 Ω	120 Ω
72 Ω	82 Ω	110 Ω

ANTENNA INPUT MATCHING UNIT



IMPORTANT:
 SINCE MANY OF THE COMPONENTS ARE VERY CRITICAL, EXACT DUPLICATES MUST BE USED FOR REPLACEMENT PURPOSES. HOWEVER, ANY SUBSTITUTE SUPPLIED BY WESTINGHOUSE WILL ASSURE PERFORMANCE EQUAL TO OR BETTER THAN THE LISTED PART.
NOTE: SUFFIX "N" INDICATES NON-INDUCTIVE RESISTOR.
 ALL RESISTOR VALUES ARE IN OHMS, K=1000, TOLERANCE IS 10%, WATTAGE IS 1/2, UNLESS OTHERWISE STATED. CAPACITANCE VALUES LESS THAN 1 ARE IN μ F, ABOVE 1 ARE IN μ F, UNLESS OTHERWISE STATED.
 SUFFIX "C" INDICATES CERAMIC CAPACITOR.
 SUFFIX "M" INDICATES MOLDED MICA CAPACITORS.
 SUFFIX "WM" INDICATES WIRE WOUND RESISTORS.
 SUFFIX "SM" INDICATES SILVER MICA CAPACITOR.
 SUFFIX "M" INDICATES MOLDED CAPACITOR.
 INDICATES CLOCK-WISE ROTATION.



* REQUIRED FOR ALIGNMENT ONLY

EARLY PRODUCTION CHASSIS INCORPORATE THE FOLLOWING:

CHASSIS STAMPED "B" WILL INCORPORATE VERTICAL BLANKING, BUT HORIZONTAL BLANKING WILL BE DELETED.

No. 1.
RESISTOR R432 (2K) WAS CONNECTED IN SERIES WITH A 1K 1/2 W. RESISTOR TO CHASSIS GROUND. CAPACITOR C436 WAS CONNECTED TO THE JUNCTION OF THESE TWO RESISTORS RATHER THAN THE JUNCTION OF R445 AND R446.

No. 2.
RESISTOR R210 WAS RETURNED DIRECTLY TO THE JUNCTION OF R206 AND C412-B.

RESISTORS R211 AND R212 WERE NOT INCORPORATED.

SEE SERVICE LETTER OF MAY 20TH 1953

