

RCA  
MODELS 21T176, 21T177, 21T178, 21T179

RCA Victor 21T178

TRADE NAME RCA Victor Models 21T176, 21T177, 21T178, 21T179, (Chassis KCS68C, CB)  
 MANUFACTURER RCA Victor Div., Radio Corp. of America, Camden, N. J.  
 TYPE SET Television Receiver  
 TUBES Twenty Five

POWER SUPPLY 110-120 Volts AC - 60 Cycle  
 TUNING RANGE—Channels 2 thru 13

RATING 2.7 Amp.

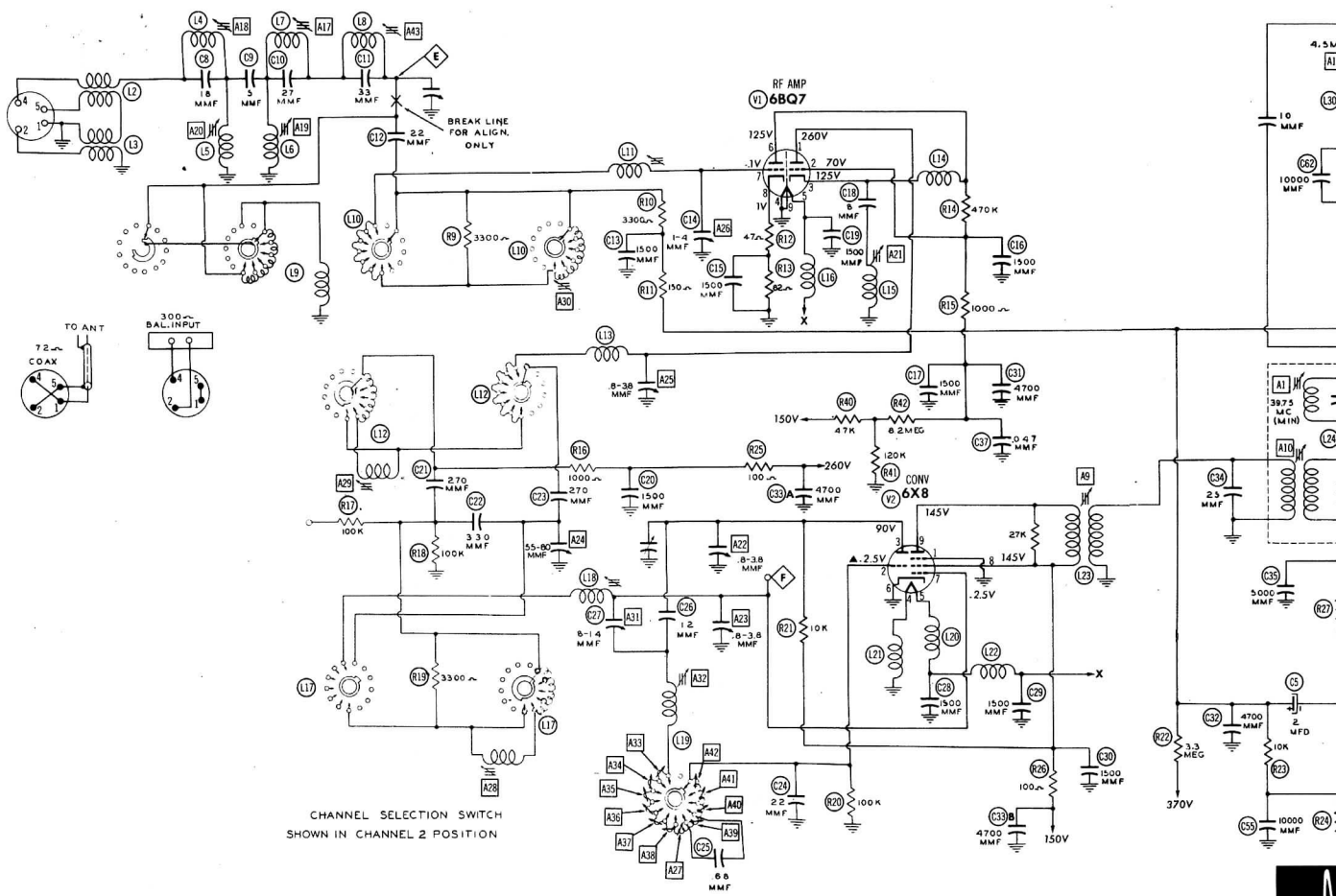
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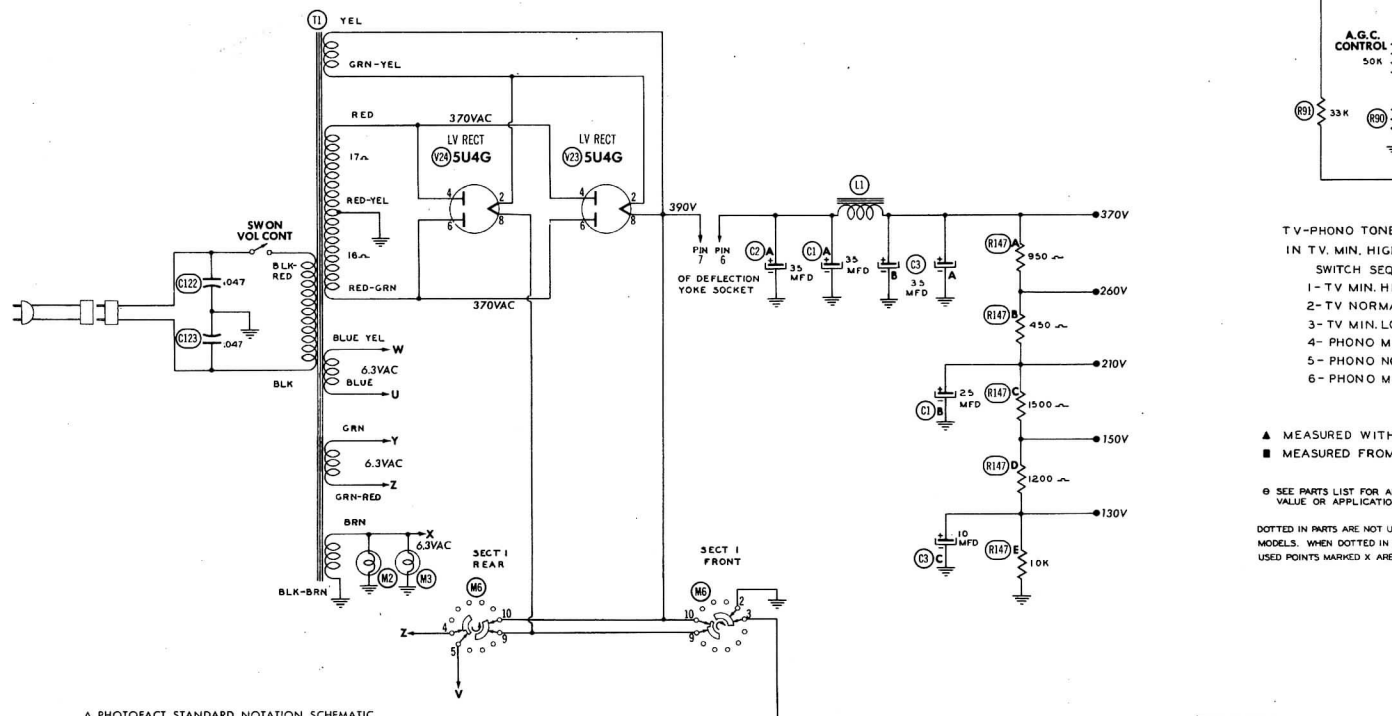
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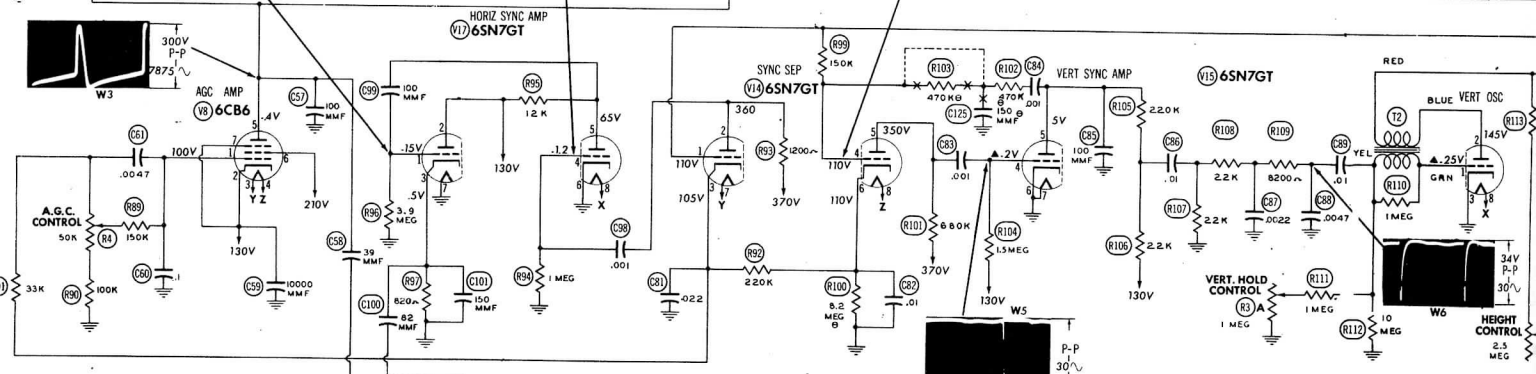
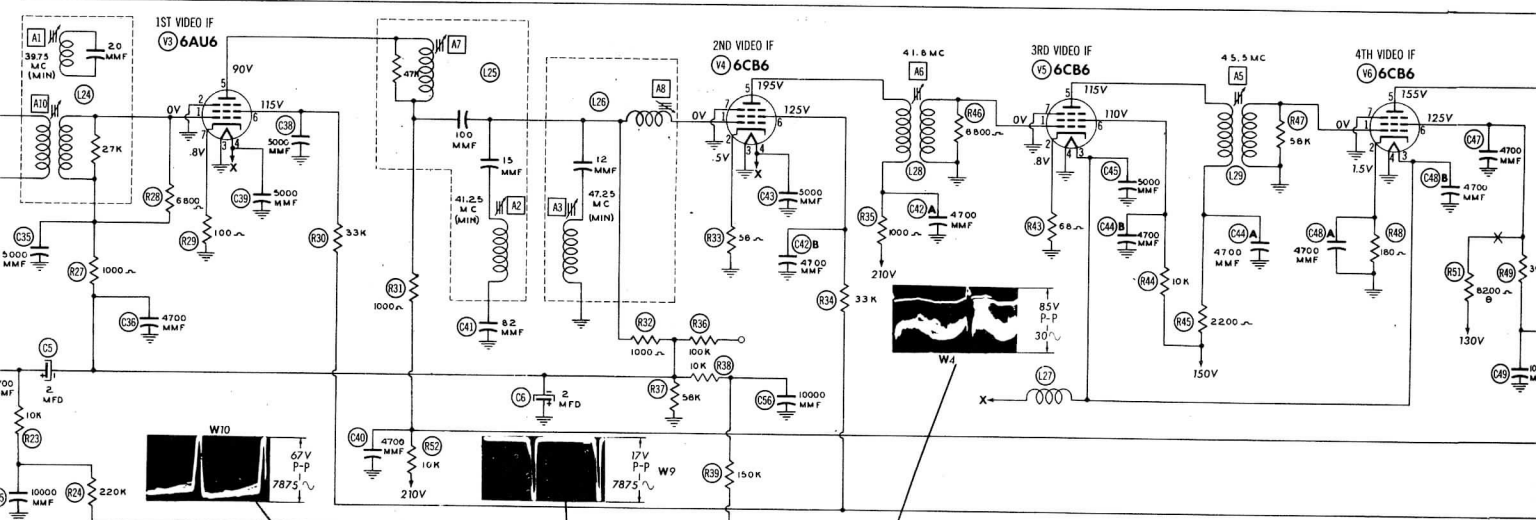
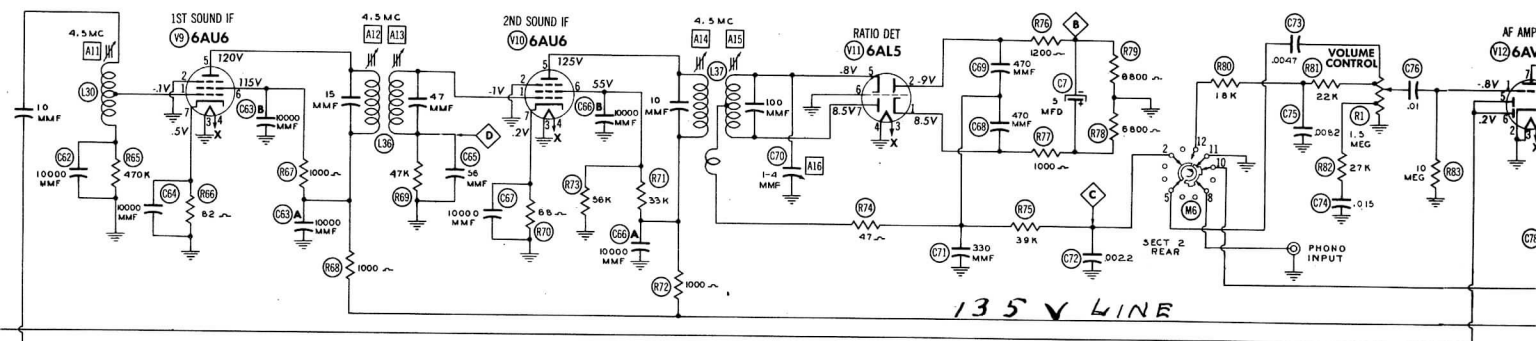
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THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE



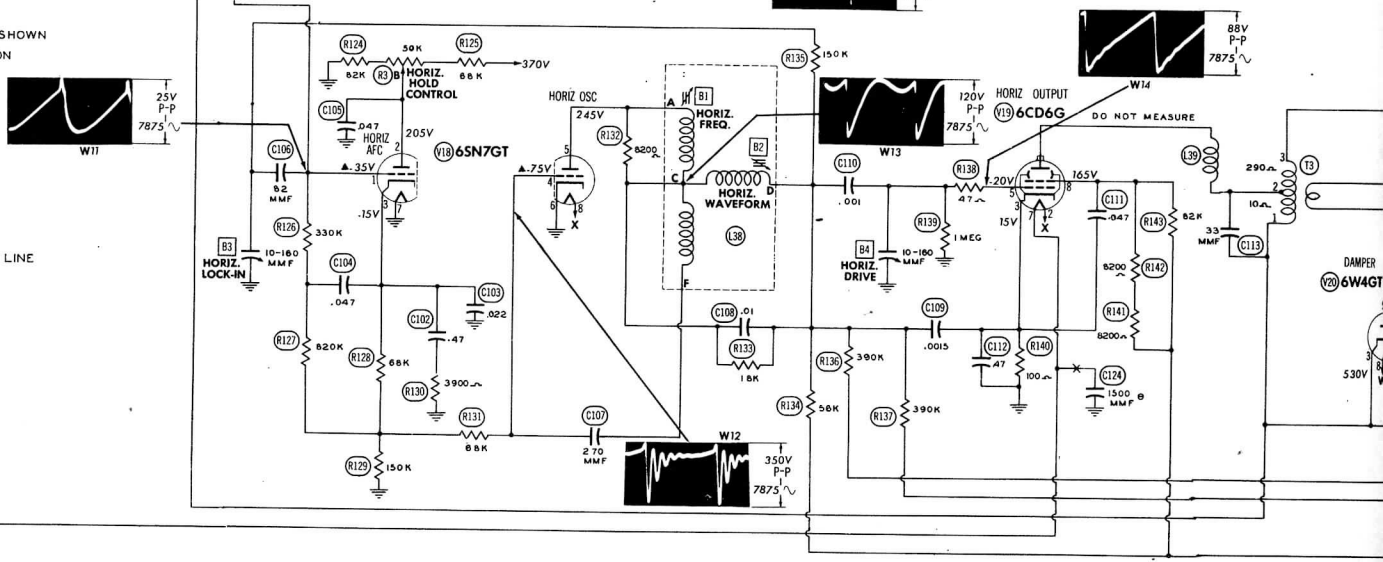
A PHOTOFAC STANDARD NOTATION SCHEMATIC  
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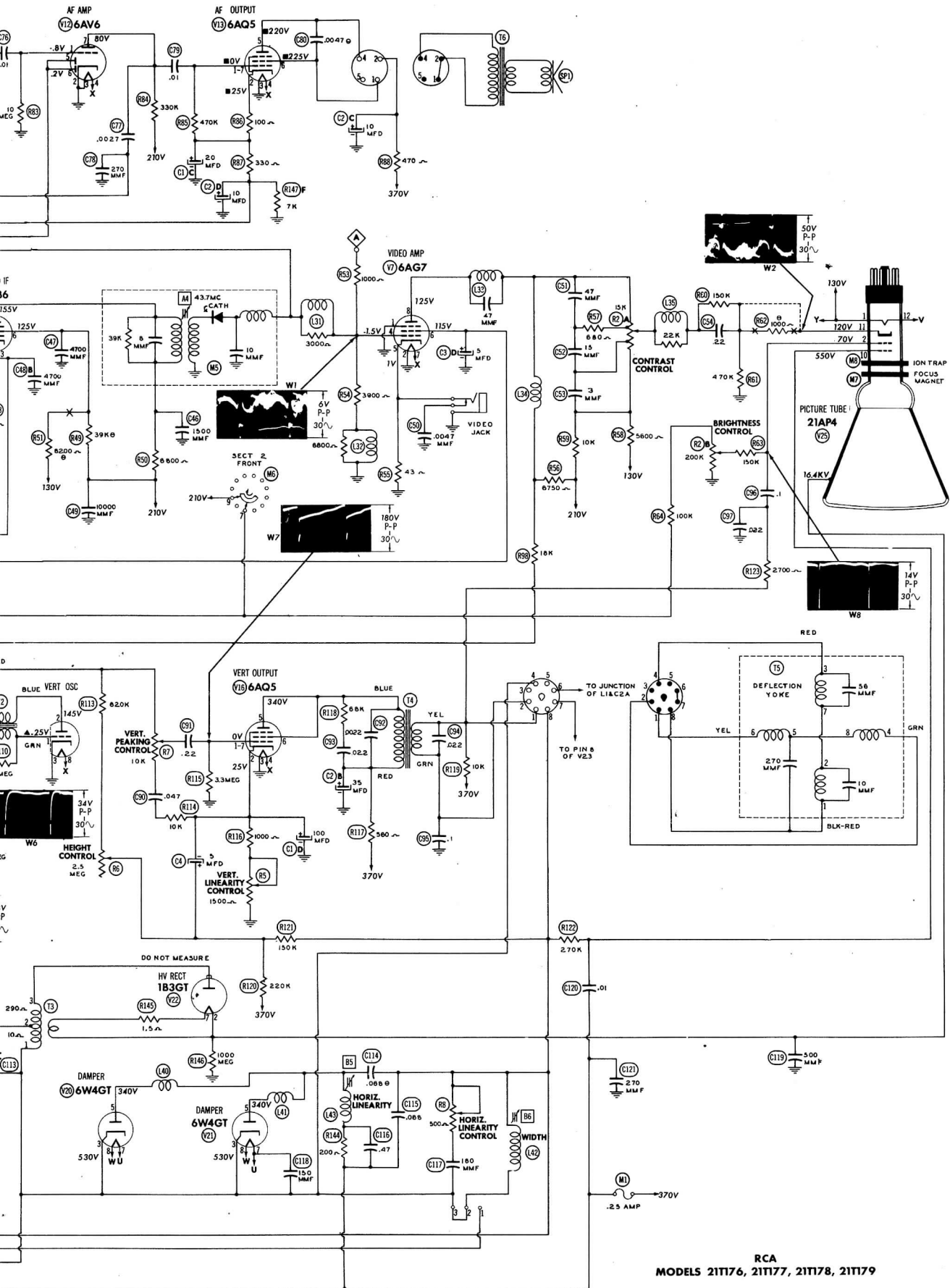
PHONO TONE SWITCH SHOWN  
 TV. MIN. HIGHS POSITION  
 SWITCH SEQUENCE  
 1- TV MIN. HIGHS  
 2- TV NORMAL  
 3- TV MIN. LOWS  
 4- PHONO MIN. HIGHS  
 5- PHONO NORMAL  
 6- PHONO MIN. LOWS

MEASURED WITH VTVM  
 MEASURED FROM 130 VOLT LINE

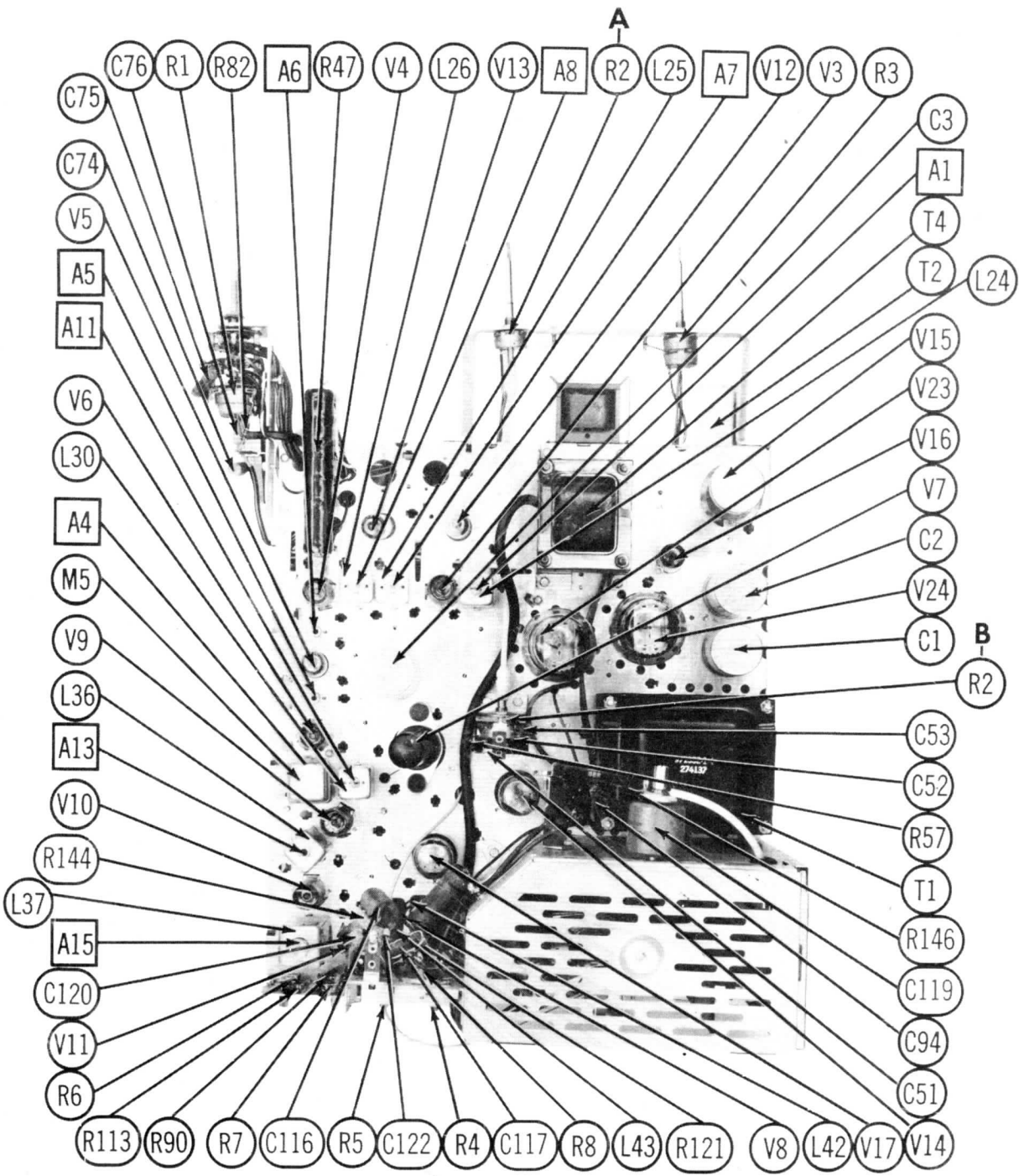
PARTS LIST FOR ALTERNATE  
 OR APPLICATION  
 PARTS NOT USED IN ALL  
 WHEN DOTTED IN PARTS ARE  
 MARKED X ARE BROKEN.



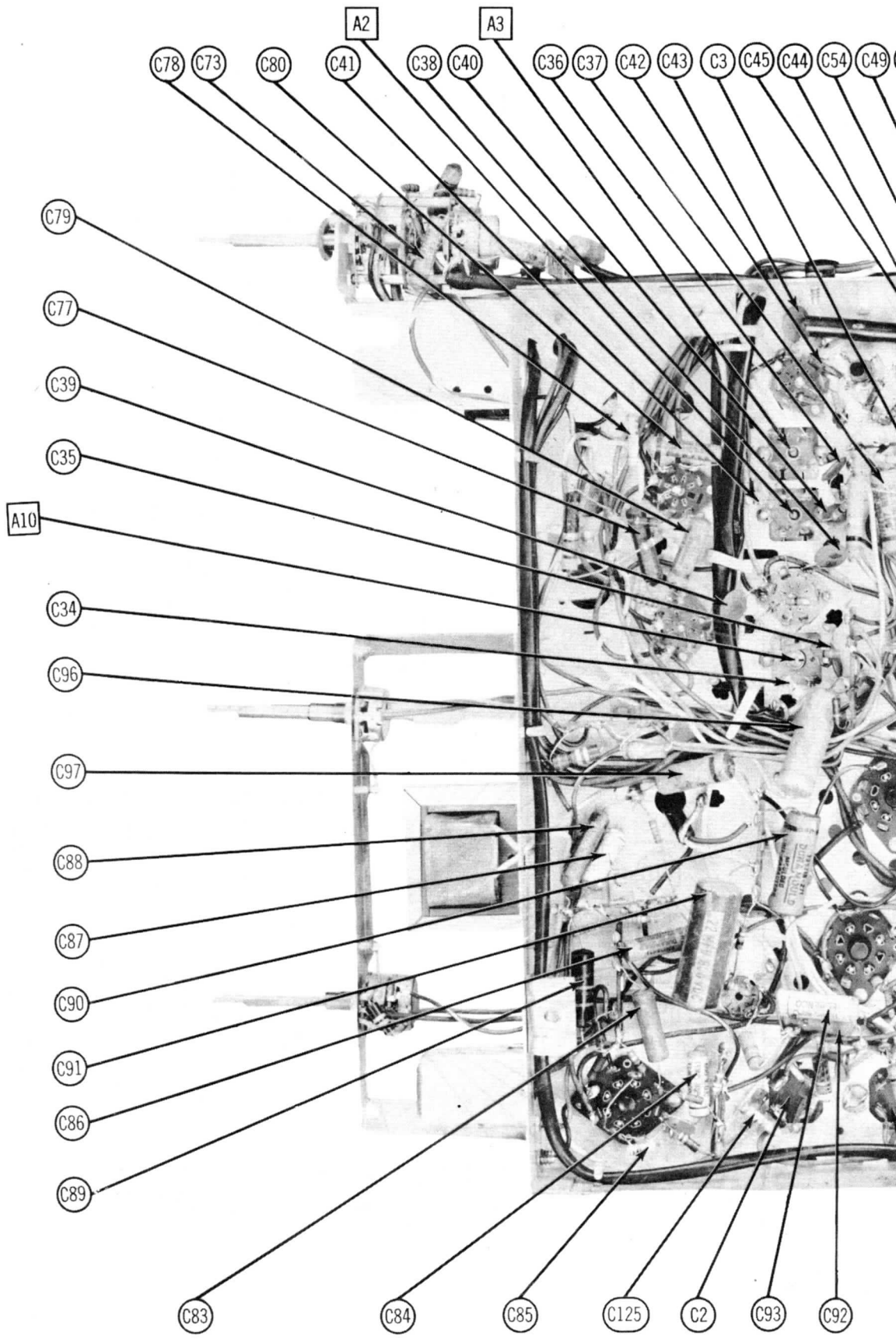
DAMPER  
 6W4GT



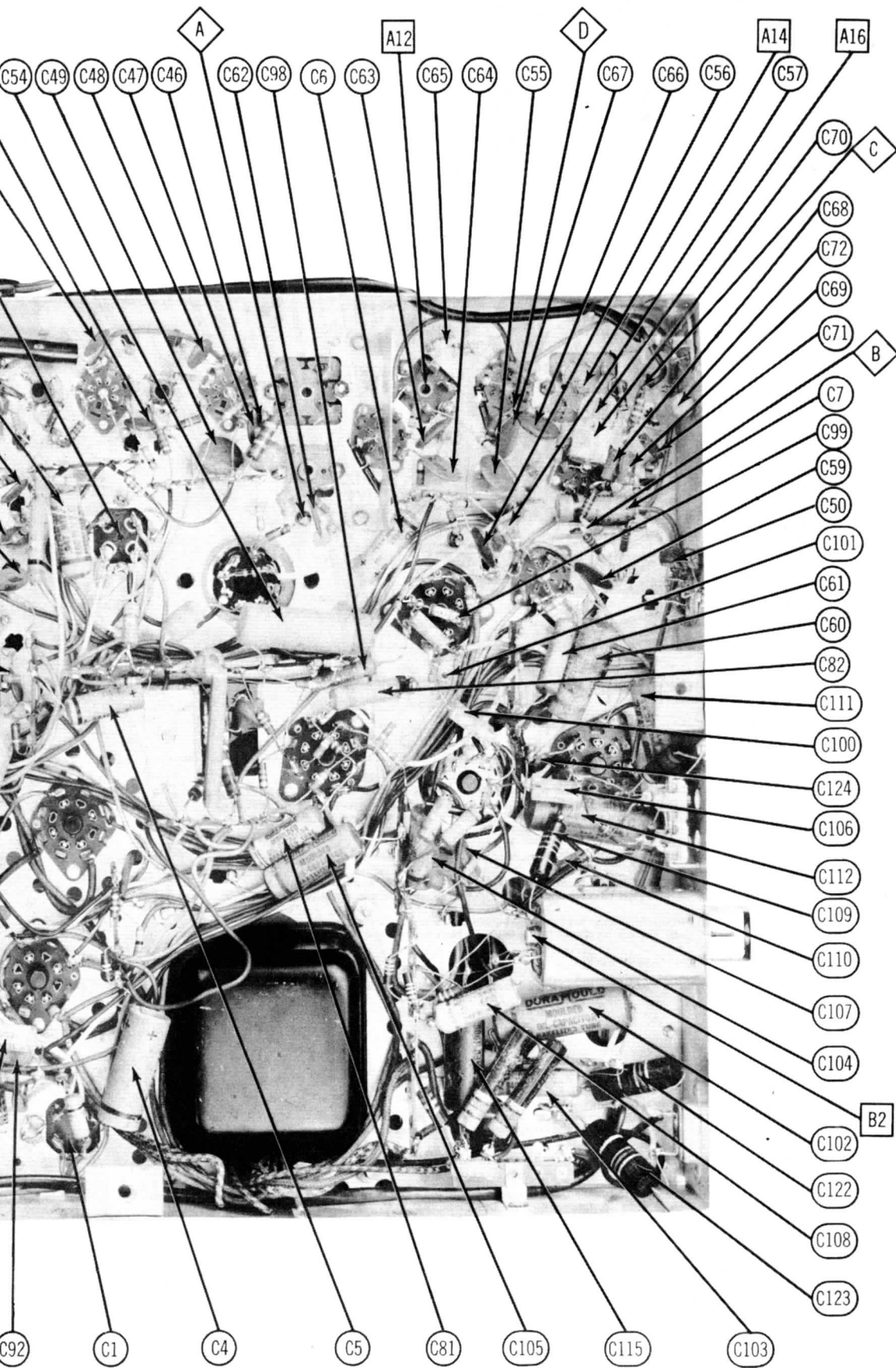
RCA MODELS 21T176, 21T177, 21T178, 21T179



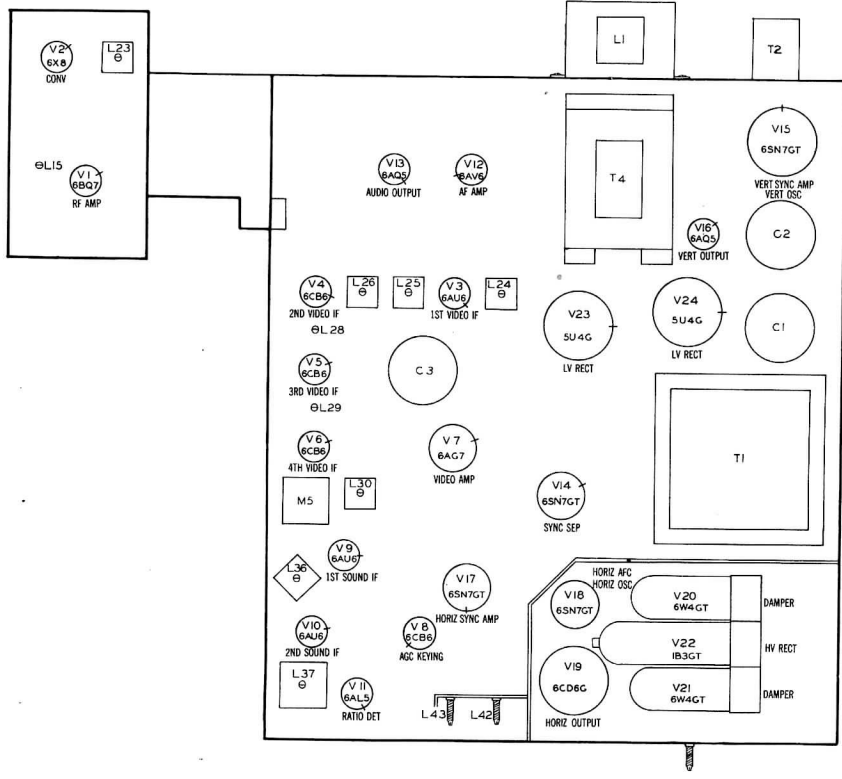
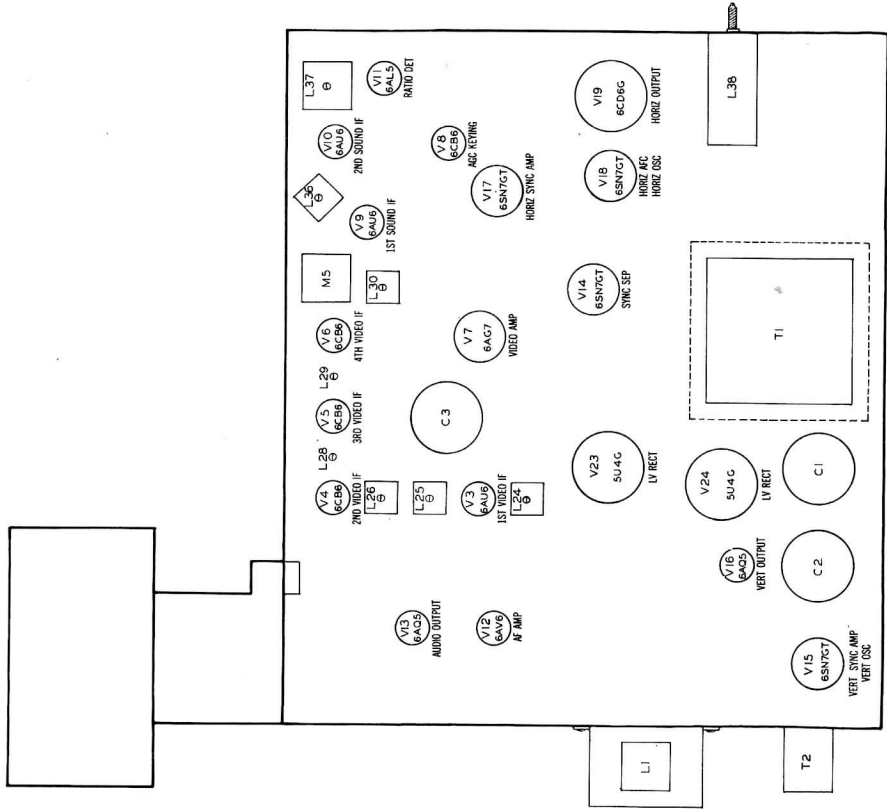
CHASSIS TOP VIEW



CHASSIS BOTTOM VIEW-CAPACITOR



FOR AND ALIGNMENT IDENTIFICATION



TUBE PLACEMENT CHART



# ALIGNMENT INSTRUCTIONS

## ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The high voltage shock hazard may be eliminated by removing the horizontal oscillator tube, (V18), from its socket.

### VIDEO IF ALIGNMENT

Connect the ends of a 1000Ω potentiometer across a 7.5 Volt battery capable of withstanding considerable current drain. Connect the positive end of the battery to chassis. Connect the center arm of the potentiometer to the junction of R95 & R96. Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Direct	High side to terminal "A" of L24. Low side to chassis.	Not Used	39.75MC	4	Use VTVM DC probe to point $\diamond$ . Common to chassis.	A1	Set bias pot. to -1Volt. Adjust for MINIMUM deflection. Attenuate signal gen. to maintain -1Volt reading.
2. "	"	"	41.25MC	"	"	A2	"
3. "	"	"	47.25MC	"	"	A3	"
4. "	"	"	43.7MC	"	"	A4	Adjust for maximum deflection. Attenuate signal gen. to maintain 1 volt reading.
5. "	"	"	45.5MC	"	"	A5	"
6. "	"	"	41.8MC	"	"	A6	"
7. .005MFD	High side to pin 1 (grid) of 6AU6, (V3). Low side to chassis.	44MC (10MC Swp)	42.25MC 45MC 45.75MC 46.5MC	Any channel which causes no interference.	Vert. Amp. to point $\diamond$ . Low side to chassis.	A7, A8	Connect 330Ω resistor across R37, R38 and terminals "A" and "F" of M6. Adjust for response curve similar to fig. 1. Attenuate sweep gen. to maintain .5 volt peak to peak response.
8. Direct	High side to point F. Low side to chassis.	"	42.25MC 44.5MC	"	Vert. Amp. thru detector probe, (fig. 2) to pin 5 of 6AU6 (V3). Low side to chassis.	A9, A10	Leave 330Ω resistors connected. Connect a 180Ω resistor between pin 5 of V3 and junction of R29 and C40. Adjust for response similar to fig. 3.
9. "	"	"	42.25MC 45MC 45.75MC	"	Vert. Amp. to point $\diamond$ . Low side to chassis.		Remove all damping resistors. Set IF bias to -6 volts. Check for response curve similar to fig. 4. If necessary retouch A4 and A5 for proper response. Retouch A6 only if absolutely necessary. Incorrect adjustment of A6 will interfere with trap action.

### SOUND IF ALIGNMENT

Connect the oscilloscope across the speaker voice coil to use as an output indicator. Turn the trimmer A16 for minimum capacity.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
10. .005MFD	High side to pin 1 (grid) of 6AU6, (V10). Low side to chassis.	4.5MC (400% AM mod)	Any	DC probe to point $\diamond$ . Common to chassis.	A14	Adjust for maximum deflection on VTVM. Adjust signal gen. to obtain 10 volt reading.
11. "	"	"	"	"	A15	Adjust for MINIMUM 400% indication on scope. Repeat steps 10 and 11.
12. "	"	"	"	DC probe to point $\diamond$ . Common to chassis.	A16	Check the voltage at point $\diamond$ . If the voltage exceeds $\pm 1.5$ volts, adjust A16 for zero voltage on VTVM between positive and negative peaks. Repeat adjustment of A15 and A16 until VTVM reads less than $\pm 1.5$ volts with A15 adjusted for MINIMUM 400% indication on scope.
13. "	High side to point A. Low side to chassis.	4.5MC (1MC Swp)	"	USE SCOPE Vert. Amp. thru 10KΩ to point $\diamond$ . Low side to chassis.	A17, A18 A19	Adjust for maximum amplitude and symmetry as per Fig. 5.

### ANTENNA MATCHING UNIT ALIGNMENT

This unit has been properly aligned at the factory and is very stable. Alignment should not be attempted unless it has been definitely established that it is out of alignment and proper equipment is available to align it. The required equipment consists of a sweep generator capable of at least 1 volt output, and an oscilloscope with a sensitivity of at least .02 Volts per inch. Misalignment of this unit can cause serious attenuation of the signal especially on channel 2. Adjustment of the FM trap, (A43), however will not effect the alignment. In the event of replacement of the antenna matching unit, the entire tuner should be realigned. Disconnect the FM trap, L8, from the channel selector switch. The free end of L8 is alignment Point  $\diamond$ , as shown on the schematic.

14. See Fig. 6	Across antenna terminals	Not used	45.75MC (400% AM Mod.)	Any	Vert. amp. thru detector probe to Point $\diamond$ . Low side to chassis.	A17	Adjust for MINIMUM 400% indication or scope.
15. "	"	"	41.25MC (400% mod.)	"	"	A18	Adjust for MINIMUM 400% indication or scope.
16. "	"	50MC (10MC swp.)	50MC 52MC 53MC	"	"	A19, A20	Connect a 300Ω resistor from Point $\diamond$ to chassis. Adjust for response curve similar to Fig. 7. A19 controls the placement of the shoulder. A20 is adjusted to give maximum amplitude of .53MC marker consistent with curve shape shown in Fig. 7. Repeat steps 14, 15 & 16 until no further improvement can be made.

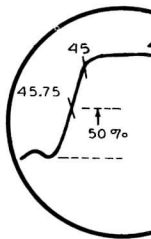


FIG. 1

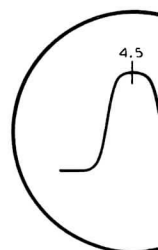


FIG. 2

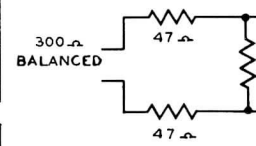
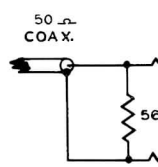
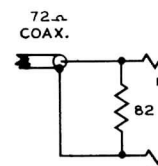


FIG. 6

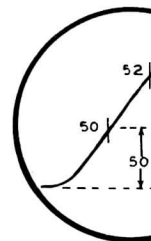


FIG. 7



FIG. 8

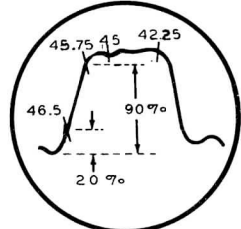


FIG. 1

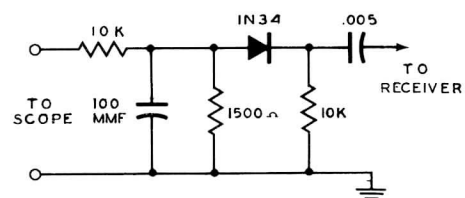


FIG. 2

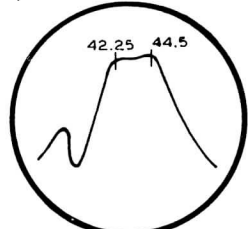


FIG. 3

# INSTRUCTIONS

# ALIGNMENT IN

**BEFORE ATTEMPTING ALIGNMENT**

Remove the oscillator tube, (V18), from its socket.

Do not attempt alignment of this unit if it is found to be of withstanding considerable current drain. Connect the positive end of the sweep generator to the junction of R95 & R96. Connect the horizontal input of the oscilloscope for horizontal deflection.

ADJUST	REMARKS
A1	Set bias pot. to -1Volt. Adjust for MINIMUM deflection. Attenuate signal gen. to maintain -1Volt reading.
A2	"
A3	"
A4	Adjust for maximum deflection. Attenuate signal gen. to maintain 1 volt reading.
A5	"
A6	"
A7, A8	Connect 330Ω resistor across R37, R38 and terminals 'A' and 'F' of M6. Adjust for response curve similar to fig. 1. Attenuate sweep gen. to maintain .5 volt peak to peak response.
A9, A10	Leave 330Ω resistors connected. Connect a 180Ω resistor between pin 5 of V3 and junction of R29 and C40. Adjust for response similar to fig. 3.
A11, A12	Remove all damping resistors. Set IF bias to -6 volts. Check for response curve similar to fig. 4. If necessary retouch A4 and A5 for proper response. Retouch A6 only if absolutely necessary. Incorrect adjustment of A6 will interfere with trap action.

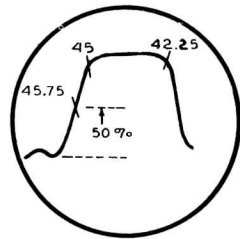


FIG. 4

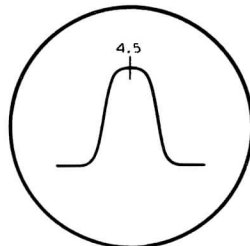


FIG. 5

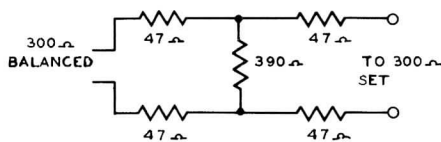
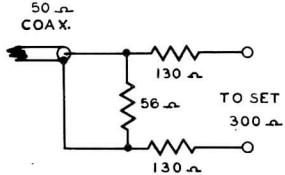
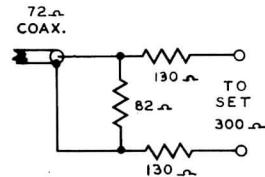


FIG. 6

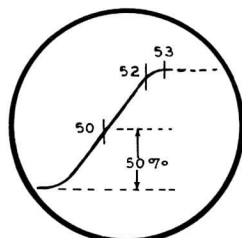


FIG. 7

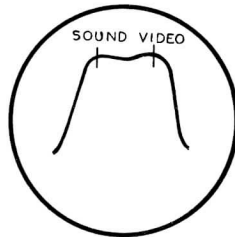


FIG. 8

ADJUST	REMARKS
A14	Adjust for maximum deflection on VTVM. Adjust signal gen. to obtain 10 volt reading.
A15	Adjust for MINIMUM 400% indication on scope. Repeat steps 10 and 11.
A16	Check the voltage at point X. If the voltage exceeds ± 1.5 volts, adjust A16 for zero voltage on VTVM between positive and negative peaks. Repeat adjustment of A15 and A16 until VTVM reads less than ± 1.5 volts with A15 adjusted for MINIMUM 400% indication on scope.
A17, A18, A19	Adjust for maximum amplitude and symmetry as per Fig. 5.

**ALIGNMENT**

Alignment should not be attempted unless it has been definitely established that the required equipment consists of a sweep generator capable of at least 100 cycles per inch. Misalignment of this unit can cause serious attenuation of the signal and will not effect the alignment.

Point X is alignment point, as shown on the schematic.

A17	Adjust for MINIMUM 400% indication on scope.
A18	Adjust for MINIMUM 400% indication on scope.
A19, A20	Connect a 300Ω resistor from Point X to chassis. Adjust for response curve similar to Fig. 7. A19 controls the placement of the shoulder. A20 is adjusted to give maximum amplitude of .53MC marker consistent with curve shape shown in Fig. 7. Repeat steps 14, 15 & 16 until no further improvement can be made.

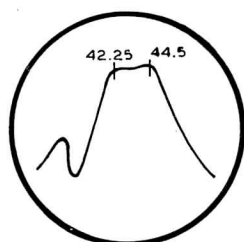
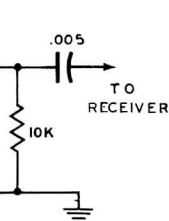


FIG. 3

If the tuner is operating and requires only touch up alignment the completely realigned pre-set all adjustments to the approximate of Pre-set A26 so the screw head is approximately 3/8 inch above the top of the antenna matching unit. Do not change any adjustments on the antenna matching unit. Disconnect the coax link from terminal 'A' of L24. Connect a 390Ω resistor across the terminals of L24. Connect a clip lead from the tuner AGC terminal, (terminal 3) to the junction of R95 & R96. During step 17 the signal generator is connected to the RF Amp. grid and the tube replaced in its socket. Connect the generator to the antenna matching unit. Set the fine tuning control 30 degrees clockwise from the mechanical zero position. Connect the generator to the antenna matching unit. Connect the synchronized sweep voltage from the signal generator to the antenna matching unit.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL
17. 1500MMF	High side to pin 7, (grid) of 6BQ7, (V1). Low side to chassis.	Not used	43.5MC (400% mod)	2
18. See fig. 6	Across antenna terminal	Not used	227MC (unmod)	8
19. "	"	183MC (10MC Swp)	181.25MC 185.75MC	"
20. "	"	Not used	129MC	6
21. "	"	85MC (10MC Swp)	83.25MC 87.75MC	"
22. "	"	Not used	Not used	"
23. "	"	85MC (10MC Swp)	83.25MC 87.75MC	"
24.	Repeat step 18.			
25.	Repeat step 19.			
26.	Repeat step 23, If necessary repeat steps 16, 17, and 20 until no further improvement can be made.			
27. See Fig. 6	Across antenna terminal.	Not used	257MC	13
28. "	"	213MC (10MC swp.) 207MC (10MC swp.) 201MC (10MC swp.) 195MC (10MC swp.) 189MC (10MC swp.) 183MC (10MC swp.) 177MC (10MC swp.)	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.75MC 179.75MC	13 12 11 10 9 8 7
29.	Repeat Step 20			
30.	Repeat Step 19			
31. See Fig. 6	Across antenna terminal.	85MC (10MC swp.) 79MC (10MC swp.) 69MC (10MC swp.) 63MC (10MC swp.) 57MC (10MC swp.)	83.25MC 87.75MC 77.25MC 81.75MC 67.25MC 71.75MC 81.25MC 85.75MC 55.25MC 59.75MC	6 5 4 3 2
32. See Fig. 6	Across antenna terminal.	Not used	257MC	13
33. "	"	"	251MC 245MC 239MC 233MC 227MC 221MC 129MC 123MC 113MC 107MC 101MC	12 11 10 9 8 7 6 5 4 3 2

Remove 390Ω Resistor and reconnect link from tuner. Rereck step 17.

FM TRAP

If interference from an FM station is encountered adjust the FM trap in the area, they should be checked to make sure the trap is not shorted.

# ALIGNMENT INSTRUCTIONS (CONT.)

## RF ALIGNMENT

If the tuner is operating and requires only touch up alignment the following pre-setting adjustments should not be performed. If the tuner is to be completely realigned pre-set all adjustments to the approximate center of their range with the following exceptions. Pre-set A26 so the screw head is approximately 3/8 inch above the chassis. Turn A9 fully counter-clockwise. Set A23 one quarter turn from tight. Do not change any adjustments on the antenna matching unit. Disconnect the coax link from terminal "A" of L24. Connect a 39Ω carbon resistor across the open end of the link. Connect a clip lead from the tuner AGC terminal, (terminal 3) to chassis. During step 17 the signal generator is connected to the RF Amp. grid by means of a piece of small diameter wire slipped over Pin 7 of the tube, and the tube replaced in its socket. Connect the generator to the free end of the wire. Set the fine tuning control 30 degrees clockwise from the mechanical center of its range. Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
17.	1500MMF High side to pin 7, (grid) of 6BQ7, (V1). Low side to chassis.	Not used	43.5MC (400% mod)	2	Vert. Amp. to point $\text{E}$ . Low side to chassis.	A21	Adjust for MINIMUM 400% indication on scope. Remove the wire from pin 7 of V1.
18.	See Fig. 6 Across antenna terminal	Not used	227MC (unmod)	8	Vert. Amp. thru detector probe to terminal 2 on tuner terminal strip.	A22	Adjust for zero beat indication on scope.
19.	"	183MC (10MC Swp)	181.25MC 185.75MC	"	Vert. Amp. to point $\text{E}$ . Low side to chassis.	A23, A24 A25, A26	Adjust for response curve similar to fig. 8.
20.	"	Not used	129MC	6	Vert. Amp. thru detector probe to terminal 2 of tuner terminal strip.	A27	Adjust for zero beat indication on scope.
21.	"	85MC (10MC Swp)	83.25MC 87.75MC	"	Vert. Amp. to point $\text{E}$ . Low side to chassis.	A28, A29 A30	Adjust for response curve similar to fig. 8.
22.	"	Not used	Not used	"	USE VTVM DC probe to point $\text{E}$ . Common to chassis.	A31	If 3.5 volt reading cannot be obtained adjust for maximum voltage which should exceed -2.5 volts.
23.	"	85MC (10MC Swp)	83.25MC 87.75MC	"	Vert. Amp. to point $\text{E}$ . Low side to chassis.		Check for response curve similar to fig. 8. If necessary retouch A28, A29 and A30 for proper response.
24.	Repeat step 18.						
25.	Repeat step 19.						
26.	Repeat step 23, If necessary repeat steps 16, 17, and 20 until no further adjustments are required.						
27.	See Fig. 6 Across antenna terminal.	Not used	257MC	13	Vert. amp. thru detector probe to terminal 2 of tuner terminal strip. Low side to chassis.	A32	Adjust for zero beat indication on scope, then overshoot the adjustment by turning the screw in the same direction, a little further than necessary to obtain zero beat. Adjust A22 to reset oscillator to proper frequency.
28.	"	213MC (10MC swp.) 207MC (10MC swp.) 201MC (10MC swp.) 195MC (10MC swp.) 189MC (10MC swp.) 183MC (10MC swp.) 177MC (10MC swp.)	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.75MC 175.25MC 179.75MC	13 12 11 10 9 8 7	Vert. amp. to Point $\text{E}$ . Low side to chassis.		Check all high band channels for response curve similar to Fig. 8. If markers fall below 80% on any channel, switch to channel 8 and retouch A23, A24, A25 and A26 (see step 17) Check the channel 8 oscillator frequency, (step 16). If necessary overshoot the adjustment of A22 and correct it by adjusting A32.
29.	Repeat Step 20						
30.	Repeat Step 19						
31.	See Fig. 6 Across antenna terminal.	85MC (10MC swp.) 79MC (10MC swp.) 69MC (10MC swp.) 63MC (10MC swp.) 57MC (10MC swp.)	83.25MC 87.75MC 77.25MC 81.75MC 87.25MC 71.75MC 61.25MC 85.75MC 55.25MC 59.75MC	6 5 4 3 2	Vert. Amp. to Point $\text{E}$ . Low side to chassis.		Check the response curve shape on all low channels. Also check the oscillator injection voltage at Point $\text{E}$ , which should be between -2.5 and -5.5 volts. If channels 2, 3 and 4 show a similar tilt, overshoot the adjustment of A25 on channel 2 and correct it by adjusting A30 on channel 6 for maximum amplitude between the markers. Also recheck channels 7 thru 13.
32.	See Fig. 6 Across antenna terminal.	Not used	257MC	13	Vert. amp. thru detector probe to terminal 2 on tuner terminal strip. Low side to chassis.		Check the channel 13 oscillator frequency, if necessary adjust A22 to correct it.
33.	"	"	251MC 245MC 239MC 233MC 227MC 221MC 129MC 123MC 113MC 107MC 101MC	12 11 10 9 8 7 6 5 4 3 2	"	A33 A34 A35 A36 A37 A38 A27 A39 A40 A41 A42	Adjust for zero beat indication on scope. It should be possible to obtain zero beat on all channels with the fine tuning control 30 deg. clockwise of mechanical center.
Remove 39Ω Resistor and reconnect link from tuner. Recheck step 9 of Video IF Alignment and readjust A9.							
FM TRAP ADJUSTMENT							
If interference from an FM station is encountered adjust the FM trap A43 to eliminate or minimize the interference. If channels 5 or 6 are active in the area, they should be checked to make sure the trap is not interfering with them.							

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MODELS 21T176, 21T177, 21T178, 21T179

# RESISTANCE MEASUREMENTS

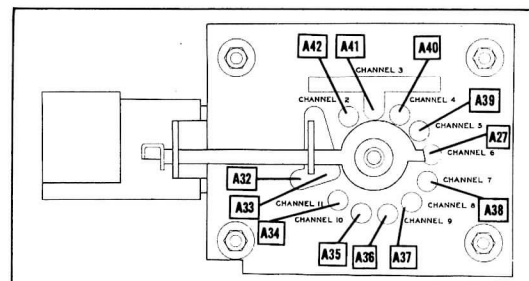
RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6BQ7	†2KΩ	8.2Meg	8.8Meg	0Ω	.1Ω	8.7Meg	170KΩ	130Ω	0Ω
V 2	6X8	0Ω	100KΩ	†13KΩ	.1Ω	.2Ω	0Ω	100KΩ	†2.9KΩ	†2.9KΩ
V 3	6AU6	57KΩ	0Ω	0Ω	.1Ω	†11KΩ	†34KΩ	100Ω		
V 4	6CB6	57KΩ	56Ω	0Ω	.1Ω	†2.3KΩ	†34KΩ	0Ω		
V 5	6CB6	.3Ω	68Ω	.1Ω	0Ω	†5KΩ	†13KΩ	0Ω		
V 6	6CB6	.3Ω	180Ω	.1Ω	0Ω	†8.1KΩ	†11KΩ	0Ω		
V 7	6AG7	0Ω	0Ω	0Ω	3.9KΩ	43Ω	†11KΩ	.1Ω	†8KΩ	
V 8	6CB6	290KΩ	†3.8KΩ	†0Ω	†.2Ω	160KΩ	†1.3KΩ	†3.8KΩ		
V 9	6AU6	470KΩ	0Ω	0Ω	.1Ω	‡1KΩ	‡2KΩ	82Ω		
V 10	6AU6	47KΩ	0Ω	0Ω	.1Ω	‡1KΩ	‡24KΩ	68Ω		
V 11	6AL5	7.8KΩ	8KΩ	.1Ω	0Ω	Inf.	0Ω	Inf.		
V 12	6AV6	10Meg	0Ω	0Ω	.1Ω	170KΩ	170KΩ	†330KΩ		
V 13	6AQ5	‡470KΩ	‡430Ω	0Ω	.1Ω	†880Ω	†510Ω	‡470KΩ		
V 14	6SN7GT	†26KΩ	†1.2KΩ	180KΩ	†175KΩ	†680KΩ	400KΩ	†0Ω	†.2Ω	
V 15	6SN7GT	1.5Meg	†1.8Meg	0Ω	†1.5Meg	†250KΩ	0Ω	0Ω	.1Ω	
V 16	6AQ5	3.3Meg	1.3KΩ	0Ω	.1Ω	†1.2KΩ	†1.2KΩ	3.3Meg		
V 17	6SN7GT	3.9Meg	†3.8KΩ	820Ω	1Meg	†15KΩ	0Ω	0Ω	.1Ω	
V 18	6SN7GT	1.3Meg	†50KΩ	218KΩ	218KΩ	†56KΩ	0Ω	0Ω	.1Ω	
V 19	6CD6G	Inf.	.1Ω	100Ω	Inf.	1Meg	100Ω	0Ω	†12KΩ	TOP CAP #12Ω
V 20	6W4GT	Inf.	Inf.	200KΩ	Inf.	†240Ω	Inf.	♦.1Ω	♦0Ω	
V 21	6W4GT	Inf.	200KΩ	200KΩ	Inf.	†240Ω	Inf.	♦.1Ω	♦0Ω	
V 22	1B3GT	PINS 1 THROUGH 8 HAVE INF RESISTANCE								TOP CAP #300Ω
V 23	5U4G	Inf.	11KΩ	Inf.	17Ω	Inf.	16Ω	Inf.	11KΩ	
V 24	5U4G	Inf.	11KΩ	Inf.	17Ω	Inf.	16Ω	Inf.	11KΩ	
V 25	21AP4	†0Ω	PIN 2 200KΩ	PIN 10 ‡270KΩ	PIN 11 120KΩ	PIN 12 †.2Ω				

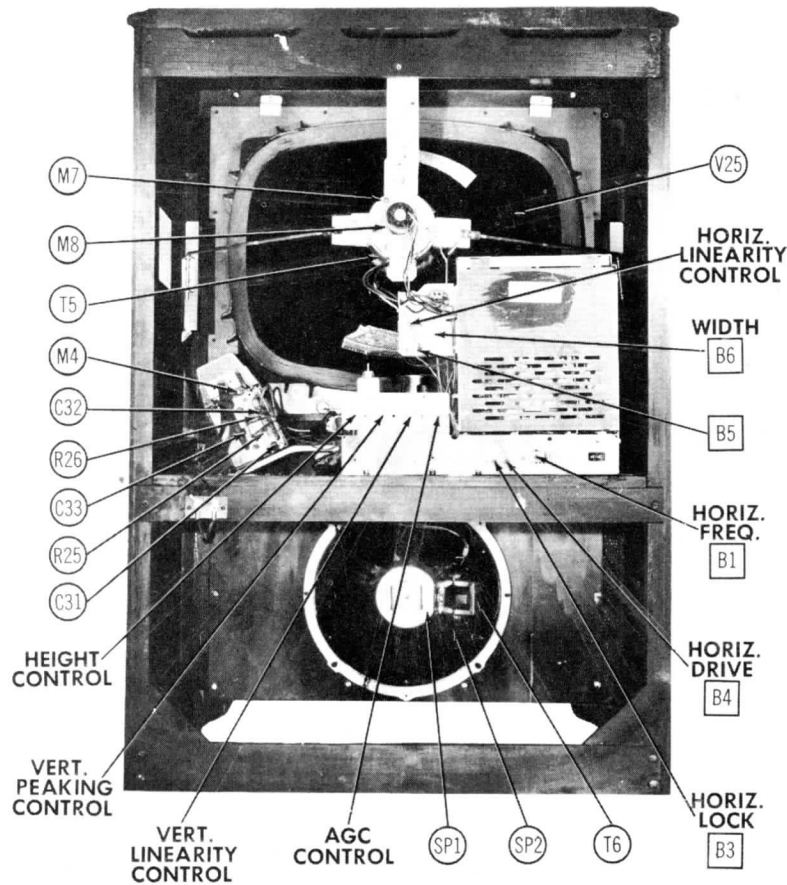
ALL MEASUREMENTS TAKEN IN TV POSITION  
 ALL CONTROLS SET FOR NORMAL OPERATION  
 † MEASURED FROM PIN 8 OF V23 & V24  
 ‡ MEASURED FROM 130VDC LINE  
 ♦ MEASURED FROM PIN 8 OF V21  
 ‡ MEASURED FROM 135VDC LINE  
 # MEASURED FROM PIN 3 OF V20 & V21

## DISASSEMBLY INSTRUCTIONS

1. Remove 8 push on type control knobs.
  2. Remove 3 wood screws from back cover. Remove cover.
  3. Disconnect built-in antenna.
  4. Disconnect speaker.
  5. Remove clip on jewel light.
  6. Disconnect H. V. lead.
  7. Disconnect picture tube socket.
  8. Disconnect yoke plug from H. V. unit.
  9. Remove 6 chassis bolts. Remove chassis.
  10. Remove speaker mounting nuts. Remove speaker.
- Note: For picture tube removal, it is necessary to remove the chassis as outlined above.



OSCILLATOR ALIGNMENT POINTS



## CABINET-REAR VIEW HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably a test pattern.

If the picture cannot be synchronized with the horizontal hold control, turn the hold control to the center of its range and adjust the horizontal frequency slug, (B1). If adjustment of B1 will not synchronize the picture, turn the waveform slug, (B2), several turns out counter-clockwise and readjust B1. Examine the width and horizontal linearity of the picture. If they are not approximately correct adjust the horizontal drive, width, and linearity as outlined under HORIZ. DRIVE, WIDTH, AND LINEARITY ADJUSTMENT.

Connect the low capacity probe of an oscilloscope to terminal C of L38.

Adjust the waveform slug, (B2), until the broad and narrow peaks of the waveform on the scope are of equal height as shown in figure 9. If necessary during adjustment of B2, readjust B1 to keep the picture synchronized.

Turn the horizontal hold control to fully counter-clockwise, and momentarily interrupt the signal by switching to another channel and back again.

If the picture is not out of synchronization turn B1 slightly and repeat the signal interruption until the picture is out of synchronization and shows several bars sloping downward to the left.

Slowly turn the hold control clockwise and carefully note the least number of sloping bars present before the picture pulls into synchronization.

If more than 3 bars are present adjust the locking range trimmer, (B3), slightly clockwise, if less than 2 bars are present adjust B3 slightly counter-clockwise.

Repeat the check and adjustment of B3 until 2 to 3 bars are present at the pull-in point.

Turn the horizontal hold control to fully clockwise.

Adjust B1 until one bar, sloping downward to the right, appears in the picture. Then back off until the bar just moves off the picture leaving the picture in synchronization.

### HORIZONTAL DRIVE, WIDTH, AND LINEARITY ADJUSTMENTS

Pre-set the adjustments as follows.

Place the width link in the minimum width position, (top).

Pre-set the width slug, (B6), to approximately mid-position.

Pre-set the horizontal linearity slug, (B5), near minimum inductance, (counter-clockwise).

Pre-set the horizontal linearity control near minimum resistance, (clockwise).

Pre-set the horizontal drive trimmer, (B4), to minimum capacity, (counter-clockwise)

Turn the set on and tune in a TV station, preferably a test pattern. Allow a few minutes for set to warm up.

If the raster is cramped or shows a bright vertical bar in the picture adjust B4 clockwise just enough to remove this condition.

Adjust B5 clockwise until the picture of best linearity and maximum deflection, or the best compromise, are obtained and then one quarter turn more.

Retouch B4 if necessary to obtain best results.

Check the horizontal linearity at various settings of the brightness control. There should be no compression of the right side of the picture, and no appreciable change in linearity especially at the extreme left side of the picture.

If objectional changes do occur, turn B5 slightly clockwise and repeat the check.

Adjust the width slug, (B6), until the picture is slightly wider than necessary to fill the mask horizontally. In the event of low line voltage, it may be necessary to move the width link to the lower position to obtain proper width. In this position the width coil, (B6) is inoperative.

If the left side of the picture appears stretched, adjust the horizontal linearity control counter-clockwise. If the left side of the picture appears cramped turn the linearity control clockwise. Whenever possible it is desirable to correct the linearity with the linearity control rather than the drive trimmer (B4).

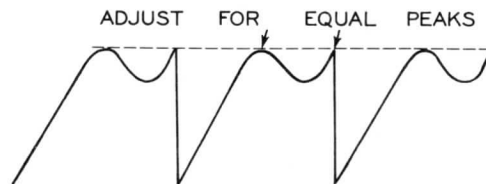
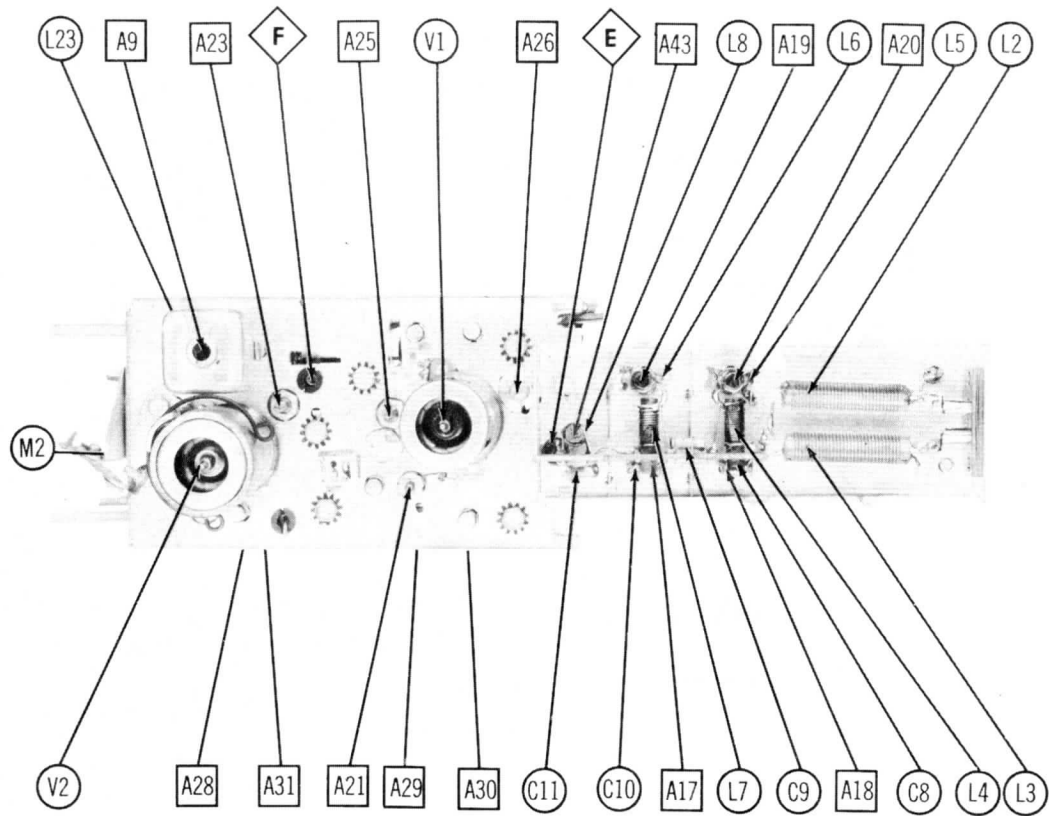
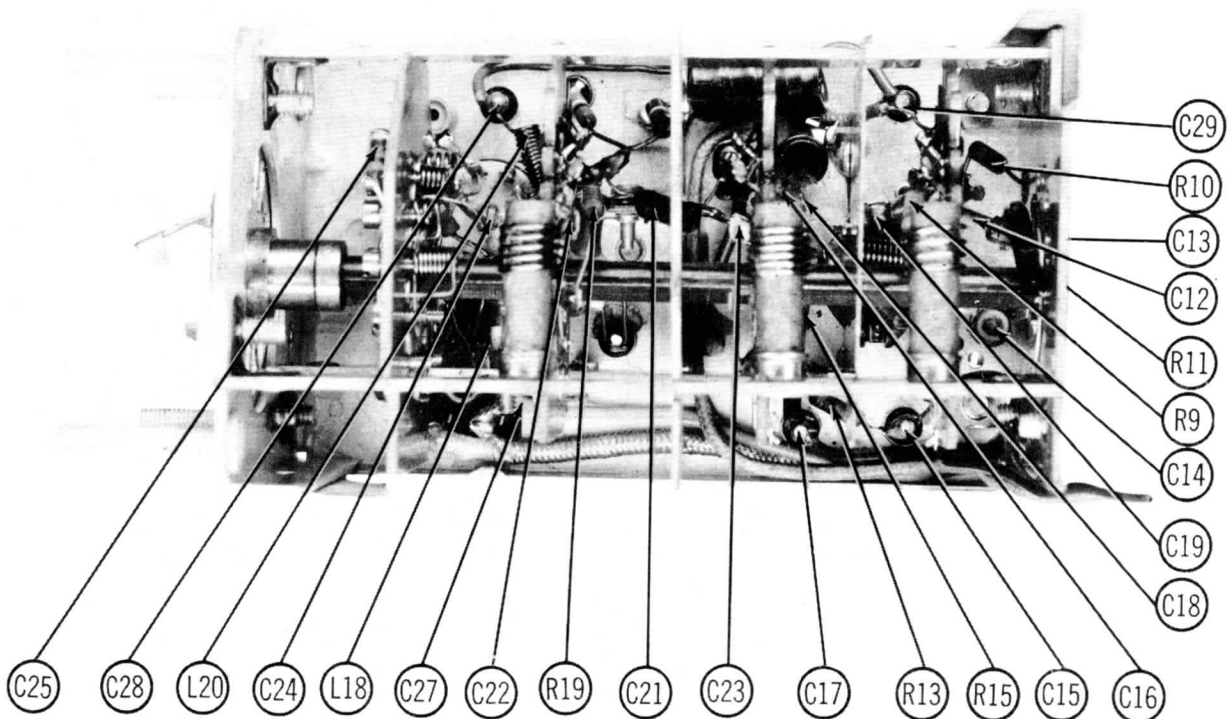


FIG. 9



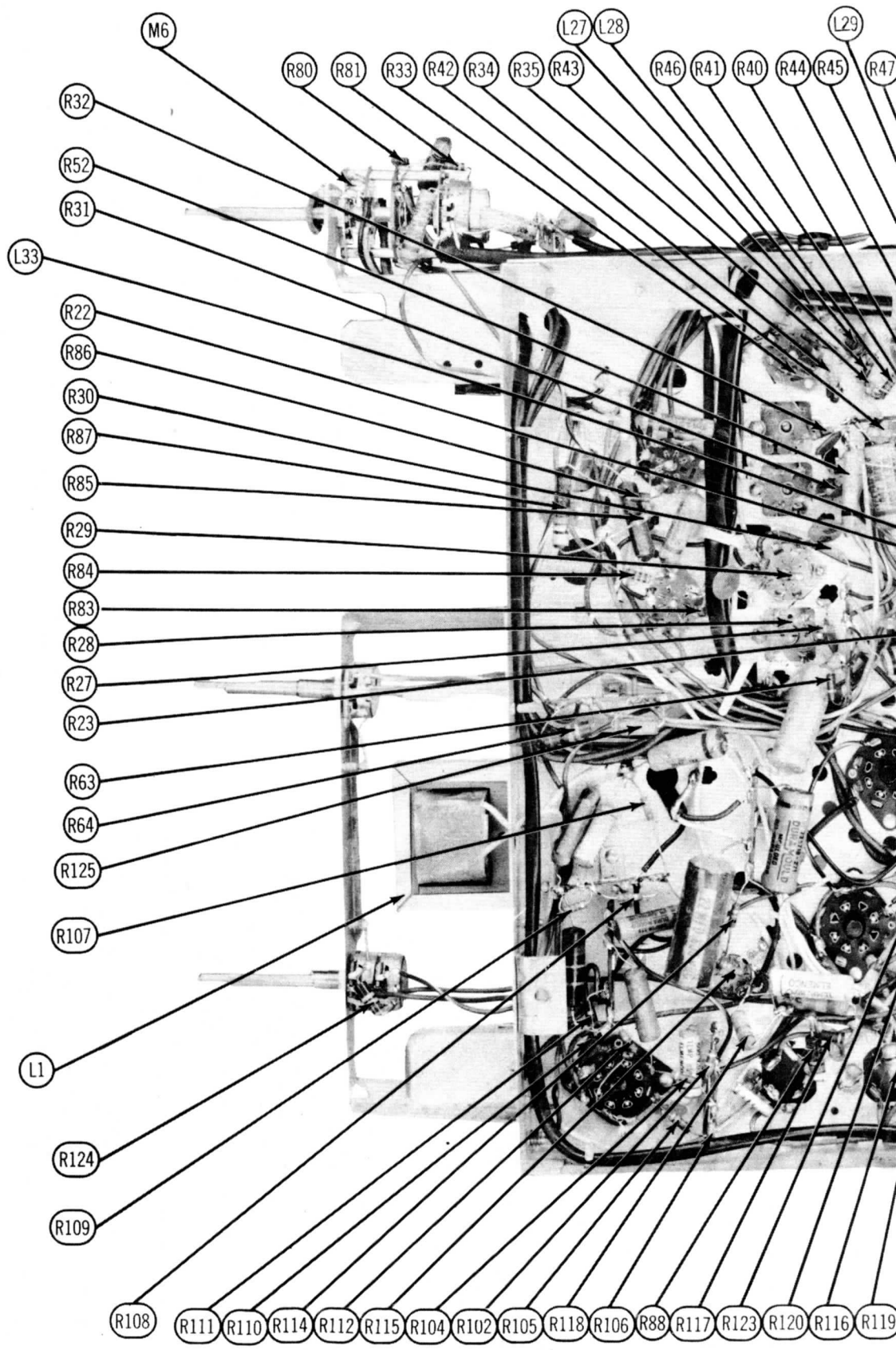
RF TUNER - TOP VIEW



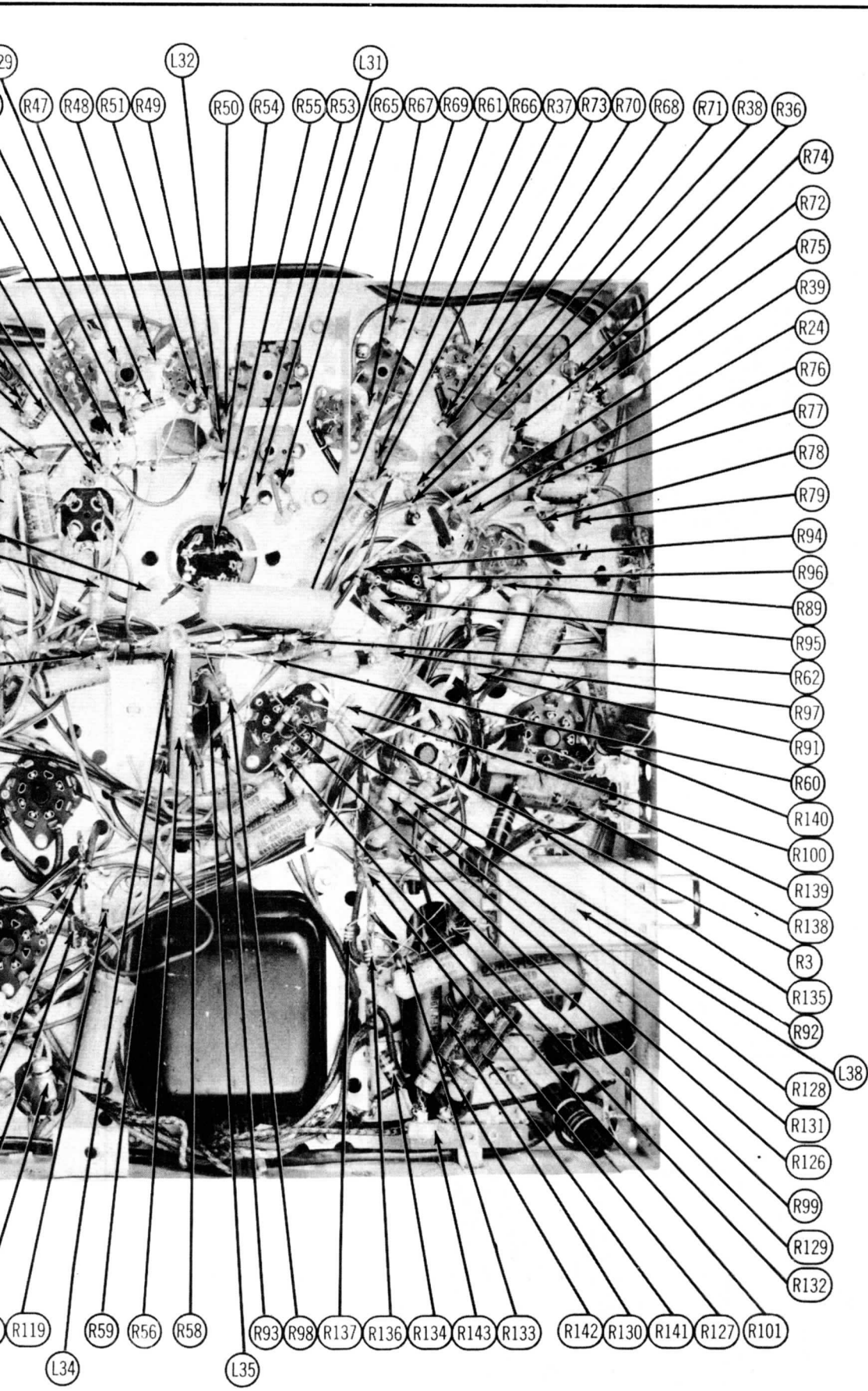
RF TUNER - BOTTOM VIEW

MODELS 21T176, 21T177, 21T178, 21T179

RCA



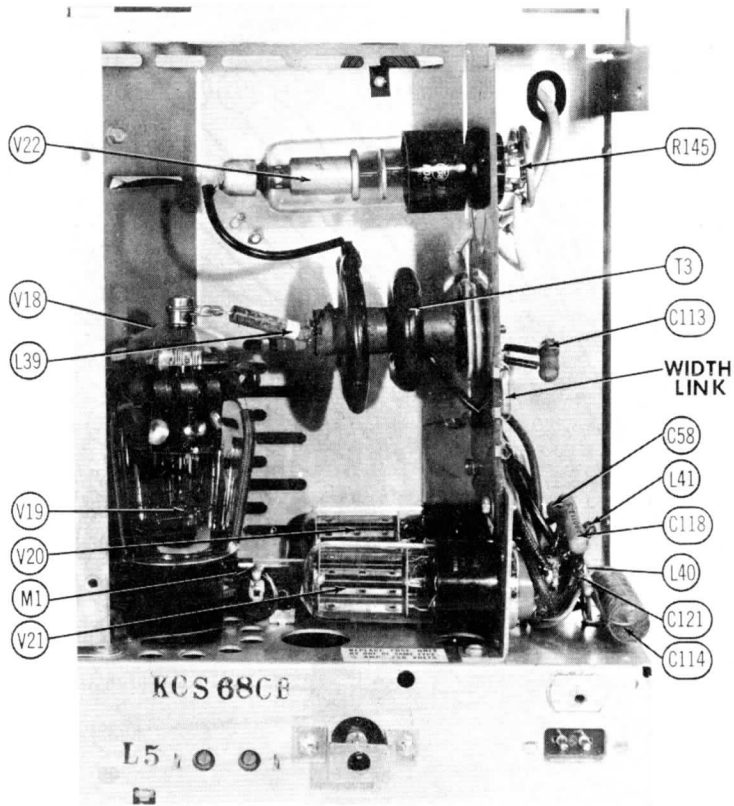
CHASSIS BOTTOM VIEW-RESISTOR



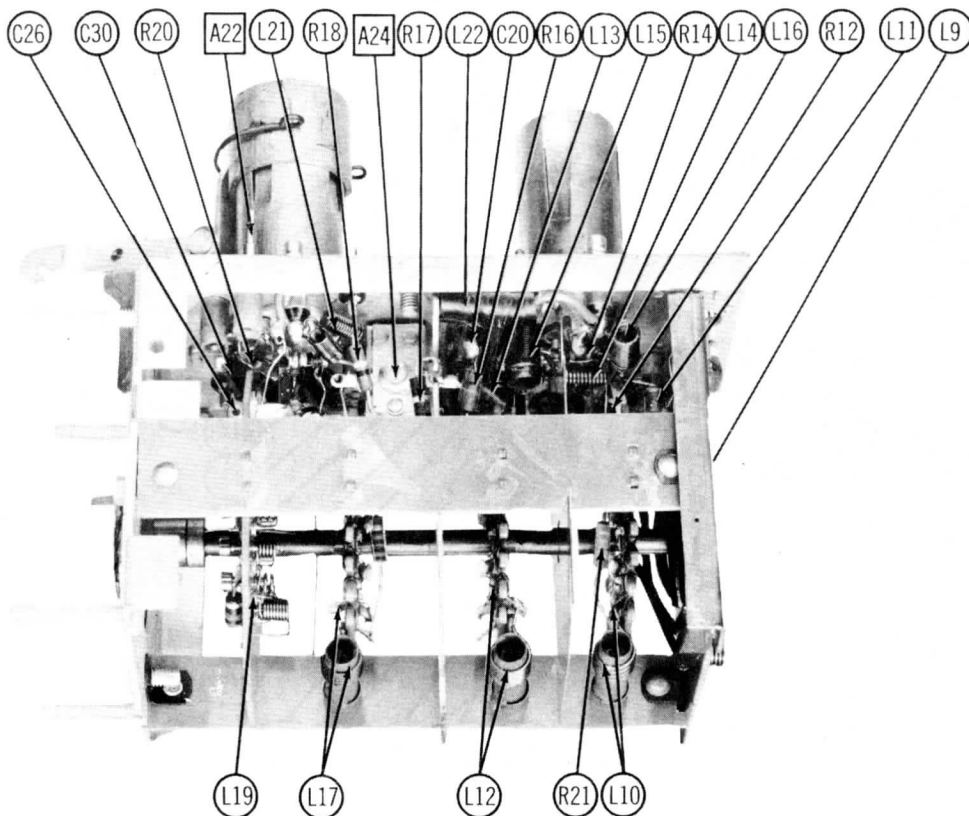
RCA  
 MODELS 21T176, 21T177, 21T178, 21T179

RESISTOR AND INDUCTOR IDENTIFICATION





HIGH VOLTAGE SUPPLY



RF TUNER-RIGHT SIDE

# PARTS LIST AND DESCRIPTIONS

## TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		RCA PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6BQ7	6BQ7	9AJ	
V2	Converter	6X8	6X8	9AK	
V3	1st. Video IF Amp.	6AU6	6AU6	7BK	
V4	2nd. Video IF Amp.	6CB6	6CB6	7CM	
V5	3rd. Video IF Amp.	6CB6	6CB6	7CM	
V6	4th. Video IF Amp.	6CB6	6CB6	7CM	
V7	Video Amp.	6AG7	6AG7	8Y	
V8	AGC Amp.	6CB6	6CB6	7CM	
V9	1st. Sound IF Amp.	6AU6	6AU6	7BK	
V10	2nd. Sound IF Amp.	6AU6	6AU6	7BK	
V11	Ratio Det.	6AL5	6AL5	6BT	
V12	AF Amp.	6AV6	6AV6	7BT	
V13	AF Output	6AQ5	6AQ5	7BZ	
V14	Sync. Sep.	6SN7GT	6SN7GT	8BD	
V15	Vert. Sync. Amp.				
	Vert. Osc.	6SN7GT	6SN7GT	8BD	
V16	Vert. Output	6AQ5	6AQ5	7BZ	
V17	Horiz. Sync. Amp.	6SN7GT	6SN6GT	8BD	
V18	Horiz. AFC-Horiz. Osc.	6SN7GT	6SN7GT	8BD	
V19	Horiz. Output	6CD6G	6CD6G	5BT	
V20	Damper	6W4GT	6W4GT	4CG	
V21	Damper	6W4GT	6W4GT	4CG	
V22	H. V. Rect.	1B3GT	1B3GT	3C	
V23	L. V. Rect.	5U4G	5U4G	5T	
V24	L. V. Rect.	5U4G	5U4G	5T	
V25	Pic. Tube	21AP4	21AP4	12D	

### CATHODE-RAY TUBE

ITEM No.	REPLACEMENT DATA			RTMA BASE TYPE	NOTES
	RCA PART No.	SYLVANIA PART No.	THOMAS PART No.		
V25	21AP4			12D	

### CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING		REPLACEMENT DATA						IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	RCA PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C1A	35	450	76486	AFH4-82		UPT433			Filter
B	25	450							Decoupling
C	20	200							Audio Output Cathode
D	100	50							Vert. Output Cathode
C2A	35	450	76485	AFH4-16		UPT434		TVL-3785	Filter
B	35	450		PRS250/4				TVA-1504	Vert. Output Dec.
C	10	450							Output Dec.
D	10	200							Decoupling
C3A	35	450	75510	AFH4-16		UPT420		TVL-3785	Filter
B	35	450						TVA-1702	Filter
C	10	450							Decoupling
D	5	450							Video Amp. Screen
C4	5	450	28417	PRS450/4		BR445		TVA-1702	Vert. Osc. Dec.
C5	2	50	73747	PRS150/4		BBR2-50		TVA-1301	AGC Filter
C6	2	50	73747	PRS150/4		BBR2-50		TVA-1301	AGC Filter
C7	5	50	74521	PRS150/4		BR550		TVA-1303	Stabilizing Cap.
C8	18		54207		TCZ-18		NPOK-180		Fixed Trimmer
C9	5		9305L	SI5NP0	TCZ-4, 7		NPOK-050		RF Coupling
C10	27		72570		TCZ-27		NPOK-270		Fixed Trimmer
C11	33		38868	SI33	D6-330		GPIK-330		Fixed Trimmer
C12	22		76557		TCZ-22		NPOK-220	5GA-Q33	Fixed Trimmer
C13	1500		74748	BPD-0015	DD-152		801-0015	5HK-D15	RF Coupling
C14	1-4		76532		829-4				AGC Filter
C15	1500		75166	SI1500	D6-152		GP2L-152	501C1	Variable Trimmer
C16	1500		73748	BPD-0015	DD-152		801-0015	5HK-D15	RF Amp. Cathode
C17	1500		75166	SI1500	D6-152		GP2L-152	501C1	RF Bypass
C18	8		70597				NPOK-080		Fixed Trimmer
C19	1500		73748	BPD-0015	DD-152		801-0015	5HK-D15	RF Amp. Fil.
C20	1500		75166	SI1500	D6-152		GP2L-152	501C1	RF Bypass
C21	270		75199	SI270	D6-271		GP2K-271	5GA-T27	RF Coupling
C22	330		76552	SI330	D6-331		GP2K-331	5GA-T33	RF Coupling
C23	270		75199	SI270	D6-271		GP2K-271	5GA-T27	RF Coupling
C24	22		76558	SI22N080			N080-331-220		Osc. Grid. Cap.
C25	.68		71088		TCZ-.68		NPOK-R68		Fixed Trimmer
C26	12		76550				N080-331-120		Osc. Feedback
C27	8-1, 4		76545		829-3				Variable Trimmer
C28	1500		75166	SI1500	D6-152		GP2L-152	501C1	Conv. Fil.
C29	1500		75610	SI1500	D6-152		GP2L-152	501C1	Fil. Bypass
C30	1500		75610	SI1500	D6-152		GP2L-152	5HK-D15	RF Bypass
C31	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	RF Bypass
C32	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	AGC Filter
C33A	4700		76470	BPD-2X005	DD-2-502	ID5D5	811-005	5HK-2D47	RF Bypass
B	4700					ID5D5	811-005		RF Bypass
C34	27		72570	SI27	D6-270		GPIK-270		Fixed Trimmer
C35	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	AGC Filter
C36	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	AGC Filter
C37	.047	400	73553	P488-047	DF-503	PTE4S5		4TM-S47	RF Bypass
C38	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	1st Video IF Screen
C39	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	1st Video IF Fil.
C40	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	RF Bypass
C41	82		71514		TCN-82		N750L-820		Fixed Trimmer
C42A	4700		76470	BPD-2X005	DD-2-502	ID5D5	811-005	5HK-2D47	2nd Video IF Plate
B	4700					ID5D5	811-005		2nd Video IF Screen
C43	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	2nd Video IF Fil.
C44A	4700		76470	BPD-2X005	DD-2-502	ID5D5	811-005	5HK-2D47	3rd Video IF Plate
B	4700					ID5D5	811-005		3rd Video IF Screen
C45	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	3rd Video IF Fil.
C46	1500		75166	SI1500	D6-152	1W5D15	GP2L-152	501C1	4th Video IF Plate
C47	4700		73473	BPD-005	DD-502	ID5D5	811-005	5HK-D47	4th Video IF Screen
C48A	4700		76470	BPD-2X005	DD-2-502	ID5D5	811-005	5HK-2D47	4th Video IF Cathode
B	4700					ID5D5	811-005		4th Video IF Fil.
C49	10000		73960	BPD-01	DD-103	ID3S1	821-01	5HK-S1	RF Bypass

MODELS 21T76, 21T77, 21T78, 21T79

RCA

CAPACITORS (CONT.)

Table with columns: ITEM No., RATING (CAP, VOLT), REPLACEMENT DATA (RCA PART No., AEROVOX, CENTRALAB, CORNELL-DUBILIER, ERIE, SPRAGUE), IDENTIFICATION CODES AND INSTALLATION NOTES. Includes rows C50 to C125.

\* Not used in all models.
† Some models use 0033MFD in this application (Part No. 73795).
‡ Some models use 082 MFD in this application (Part No. 76683).

CONTROLS

Table with columns: ITEM No., RATING (RESISTANCE, WATTS), REPLACEMENT DATA (RCA PART No., IRC PART No., CLAROSTAT PART No., CENTRALAB PART No.), INSTALLATION NOTES. Includes rows R1 to R8.

\* Additional parts to be used with Concentrikrit.
Note 1: Tone switch attached to front of volume control.

Table with columns: ITEM No., RATING (RESISTANCE, WATTS), REPLACEMENT DATA (RCA PART No., IRC PART No.), INSTALLATION NOTES. Includes rows R9 to R117.



# DESCRIPTIONS (Continued)

## RESISTORS

# RESISTORS (CONT.)

IDENTIFICATION CODES	
ALL RESISTORS ± 10% UNLESS OTHERWISE SPECIFIED	
Antenna Coil Shunt	
AGC Network	
AGC Network	
RF Amplifier Cathode	
RF Amplifier Cathode	
RF Amplifier Grid	
RF Amplifier Decoupling	
RF Amplifier Decoupling	
Isolation	
Mixer Grid	
RF Coil Shunt	
Oscillator Grid	
Oscillator Plate	
AGC Network	
AGC Network	
AGC Network	
Decoupling	
Decoupling	
AGC Network	
IF Coil Shunt	
1st. Video IF Cathode	
1st. Video IF Screen	
1st. Video IF Plate	
2nd. Video IF Grid	
2nd. Video IF Cathode	
2nd. Video IF Screen	
2nd. Video IF Plate Decoupling	
Isolation	
AGC Network	
AGC Network	
AGC Network	
Voltage Divider	
Voltage Divider	
Voltage Divider	
3rd. Video IF Cathode	
3rd. Video IF Screen	
3rd. Video IF Plate Decoupling	
IF Coil Shunt	
IF Coil Shunt	
4th. Video IF Cathode	
4th. Video IF Screen - See Note 1	
4th. Video IF Plate Decoupling	
Voltage Divider - See Note 2	
Voltage Divider	
Isolation	
Video Amplifier Grid	
Video Amplifier Cathode	
Video Amplifier Plate Wire-Wound	
Contrast Network	
Contrast Network	
Voltage Divider	
Voltage Divider	
Picture Tube Cathode	
Picture Tube Cathode See Note 2	
Voltage Divider	
Voltage Divider	
1st. Sound IF Grid	
1st. Sound IF Cathode	
1st. Sound IF Screen	
1st. Sound IF Decoupling	
2nd. Sound IF Grid	
2nd. Sound IF Cathode	
2nd. Sound IF Screen	
2nd. Sound IF Decoupling	
Bleeder	
Balancing	
De-emphasis	
Balancing	
Balancing	
Ratio Detector Diode Load	
Ratio Detector Diode Load	
Tone Compensation	
Tone Compensation.	
Tone Compensation	
Audio Amplifier Grid	
Audio Amplifier Plate	
Audio Output Grid	
Audio Output Cathode	
Audio Output Cathode Wire-Wound	
Audio Output Decoupling Wire-Wound	
AGC Amplifier Grid	
Voltage Divider	
Voltage Divider	
Horizontal Sync. Separator Cathode	
Horizontal Sync. Separator Plate	
Horizontal Sync. Amplifier Grid	
Horizontal Sync. Amplifier Plate	
Horizontal Sync. Amplifier Grid	
Horizontal Sync. Amplifier Cathode	
Isolation	
Isolation	
Sync. Separator Cathode See Note 3	
Sync. Separator Plate	
Sync. Peaking See Note 4	
Sync. Peaking See Note 2	
Vertical Sync. Amplifier Grid	
Vertical Sync. Amplifier Plate	
Vertical Sync. Amplifier Plate	
Integrator Network	
Integrator Network	
Integrator Network	
Vertical Osc. Trans. Shunt	
Vertical Osc. Grid	
Vertical Osc. Grid	
Vertical Osc. Plate	
Vertical Peaking	
Vertical Output Grid	
Vertical Output Cathode	
Vertical Output Decoupling	

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES	
	RESISTANCE	WATTS	RCA PART No.	IRC PART No.		
R118	68KΩ	5%	1	512368	BTA-68K 5%	Vertical Peaking
R119	10KΩ		1	503310	BTS-10K	Voltage Divider
R120	220KΩ		1	503422	BTS-220K	Voltage Divider
R121	150KΩ		1	503415	BTS-150K	Voltage Divider
R122	270KΩ		1	503427	BTS-270K	Voltage Divider
R123	2700Ω		1	503227	BTA-82K	Vertical Integrator
R124	82KΩ		1	513382	BTA-82K	Voltage Divider
R125	68KΩ		1	513368	BTA-68K	Voltage Divider
R126	330KΩ		1	503433	BTS-330K	Horizontal Control Grid
R127	820KΩ		1	503482	BTS-820K	Horizontal Control Grid
R128	68KΩ		1	513368	BTA-68K	Horizontal Control Cathode
R129	150KΩ	5%	1	512415	BTA-150K 5%	Horizontal Control Cathode
R150	3900Ω		2	503239	BTS-3900	Horizontal AFC Filter
R131	68KΩ	5%	1	512368	BTS-68K 5%	Horizontal Oscillator Grid
R132	8200Ω	5%	2	502282	BTS-8200 5%	Horizontal Oscillator Trans. Shunt
R133	18KΩ		1	503318	BTS-18K	Horizontal Oscillator Trans. Shunt
R134	56KΩ	5%	1	512356	BTA-56K 5%	Horizontal Oscillator Plate
R135	150KΩ		1	503415	BTS-150K	Horizontal AFC Feedback
R136	390KΩ		1	503439	BTS-390K	Voltage Divider
R137	390KΩ		1	503439	BTS-390K	Voltage Divider
R138	47Ω	20%	1	504047		Parasitic Suppressor
R139	1Meg		1	503510	BTS-1Meg	Horizontal Output Grid
R140	100Ω		2	523110		Horizontal Output Cathode
R141	8200Ω		2	76504	BTB-8200	Horizontal Output Screen Wire-Wound
R142	8200Ω		2	76504	BTB-8200	Horizontal Output Screen Wire-Wound
R143	82KΩ		1	513382	BTA-82K	Horizontal Output Screen
R144	200Ω		5	76682	1 3/4A-200	Horizontal Linearity Wire-Wound
R145	1.5Ω	5%	2	76648		H. V. Rectifier Filament Wire-Wound
R146	1000Meg		2	76648		H. V. Filter
R147	950Ω		16		2D-1000	Voltage Divider Wire-Wound
B	450Ω		6		1 3/4A-450	Voltage Divider Wire-Wound
C	1500Ω		5	76499	1 3/4A-1500	Voltage Divider Wire-Wound
D	1290Ω		1		1 3/4A-1200	Voltage Divider Wire-Wound
E	10KΩ		5		1 3/4A-10K	Voltage Divider Wire-Wound
F	7KΩ		5		1 3/4A-7K	Voltage Divider Wire-Wound

Note 1: Some Models may use a 33KΩ Resistor in this application  
 Note 2: Not used in all Models  
 Note 3: Some Models may use a 5.6Meg Resistor in this application  
 Note 4: Some Models may use a 1Meg Resistor in this application

## TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	RCA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T1	117VAC Ⓢ2.7A	700VCT .290ADC	5.0VAC Ⓢ6.0A	6.3VAC Ⓢ9.5A SEC. 5 6.3VAC Ⓢ2.4A	76495			

## TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE PRI.	SEC.	RCA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
T2	165Ω 300Ω tapped Ⓢ10Ω	1310Ω 0Ω	74144 76501	A-8122	A-4000 ① HVO-8	TBO-2	Vert. Blocking Osc. Horiz. Output Trans.
T4	650Ω 30Ω	.5Ω	76494 76653	A-8140 ①	P-3080 ① MDF-30		Vert. Output Trans. Hor. Deflection Coils Vert. Deflection Coils

① Drill new mounting holes.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		RCA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T6	7KΩ	3.4Ω	370Ω	.4Ω	75520	A-3878 ①	A-3020	RO-13 ①	① Drill one new mounting hole.

## SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	RCA PART No.	VIKING PART No.	QUAM PART No.	
SP1	P. M.	3.4Ω	76389	12J12	12A31	
SP2	CONE DIA.	V. C. DIA.				
	11 5/8 in.	1 in.				

## FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 cps)	RCA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.290A	39Ω	.8H	76498	C-2326 ①	C-2996 ①	TR-3300 ①	① Drill one new mounting hole.

RCA MODELS 21T176, 21T177, 21T178, 21T179

## PARTS LIST AND DESCRIPTIONS (Continued)

### COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
		PRI.	SEC.	RCA PART No.	MERIT PART No.	IRC PART No.	
L2	Ant. Coil	.6Ω	.6Ω	73591			} Antenna Matching Trans. Complete, Part #76536
L3	Ant. Coil	.6Ω	.6Ω	73591			
L4	IF Trap	0Ω		76542			
L5	Ant. Shunt	0Ω		76538			
L6	Ant. Shunt	0Ω		76537			
L7	IF Trap	0Ω		76541			
L8	FM Trap	0Ω		76540			
L9	Ant. Coils	0Ω		76554			
L10	RF Grid Coils	0Ω		76556			
L11	RF Grid Coil	0Ω		76561			
L12	RF Plate Coils	0Ω		76553			
L13	RF Plate Coil	0Ω		76529			
L14	RF Coupling Coil	0Ω		76562			
L15	Video Trap	0Ω		76535			
L16	Fil. Choke	0Ω		73477			
L17	Mixer Grid Coils	0Ω		76551			
L18	Mixer Grid Coil	0Ω		76560			
L19	Osc. Coils	0Ω		76546			
L20	Fil. Choke	0Ω		76563			
L21	Fil. Choke	0Ω		76564			
L22	Fil. Choke	0Ω					
L23	Conv. Plate	.3Ω	.1Ω	76528			
L24	1st. Video IF	0Ω	.2Ω	76432			
L25	2nd Video IF Primary	.1Ω		76434			
L26	2nd Video IF Secondary	.1Ω		76435			
L27	Fil. Choke	0Ω		73477			
L28	3rd Video IF	.2Ω	.2Ω	76433			
L29	4th Video IF	.2Ω	.2Ω	76433			
L30	Sound Take-Off	6.2Ω		76437			
L31	Peaking Coil	3.6Ω		76646			
L32	Peaking Coil	12Ω		76509			
L33	4.5MC Trap	3Ω			TV-151		
L34	Peaking Coil	12Ω		71526	TV-185		
L35	Peaking Coil	7.3Ω		76647	TV-182		
L36	Sound IF Ratio Det.	5.4Ω	3.2Ω	76438	TV-108		
L37	Trans.	4.2Ω	.2Ω	76439	TV-110		
L38	Horiz. Osc.	70Ω	44Ω	76440			
L39	Anti-Ringing Coil	2.8Ω		76510		CL-1 4.7Microhenries	
L40	Anti-Ringing Coil	.72Ω		76640		CL-1 1.5Microhenries	
L41	Anti-Ringing Coil	.72Ω		76640		CL-1 1.5 Microhenries	
L42	Width Coil	120Ω		76484			
L43	Horiz. Lin.	12Ω		76483	MWC-2		

### FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				REMARKS
			RCA PART No.		LITTELFUSE PART No.		
			FUSE	HOLDER	FUSE	HOLDER	
M1	3AG	1/4A	73600			318.250	

### DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					RCA PART No.	Type No.	
M2	Bayonet	7.5	.2	White	11765	Type No. 51	
M3	Bayonet	7.5	.2	White	11765	Type No. 51	

### MISCELLANEOUS

ITEM No.	PART NAME	RCA PART No.	NOTES
M4	RF Tuner		} Det. Assy. Complete PT. #76436
M5	5th Video IF Resistor		
	Capacitor		
M6	Capacitor	76675	
	Crystal		
M7	RF Choke		
	Switch	76493	
M8	Focus Magnet	76652	
	Ion Trap	76141	
B3, B4	Trimmer	52217	
	Knob	76595	
	Knob	76625	
	Knob	76596	
	Knob	76593	
	Knob	76624	
	Knob	76594	
	Knob	76591	
	Knob	76623	
	Knob	76592	
	Knob	74963	
	Knob	74001	
	Knob	75464	
	Knob	76597	
	Knob	76626	
	Knob	76598	