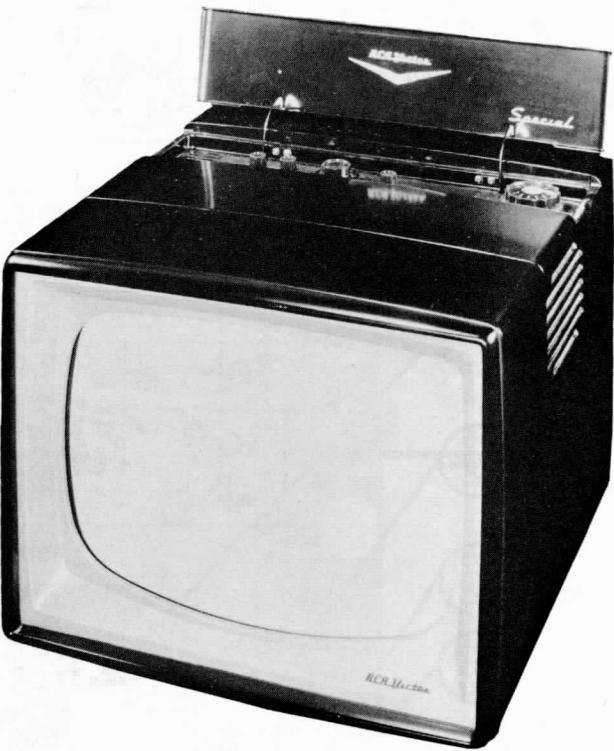




DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 7 push-on type control knobs from top panel of cabinet. (Also remove 2 metal screws holding plastic guard.)
2. Remove 5 clip springs from rear cover. Remove rear cover.
3. Remove picture tube socket, ion trap and centering magnet.
4. Disconnect speaker leads.
5. Remove 2 chassis bolts from bottom of cabinet and 2 hex nuts at the top holding chassis in cabinet.
6. Pull chassis part way out and remove HV lead, then remove chassis the rest of the way.



SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

Touch-up adjustments of the VHF tuner oscillator circuit may be accomplished by removing the channel selector and fine tuning knobs.

PICTURE TUBE SAFETY GLASS CLEANING

To clean safety glass remove clamp under the bottom edge of the front metal trim and let safety glass slide down and out bottom of cabinet. Use extreme caution when removing safety glass.

PICTURE TUBE REMOVAL

For picture tube removal it is necessary to remove chassis. (See disassembly instructions).

SERVICE ADJUSTMENT LOCATION

See tube placement chart on page 11.

SPECIAL ADJUSTMENTS

AGC Control Adjustment (Used in VHF-UHF Models only)

If receiver overloads on a strong signal, adjust the AGC control until picture shows no sign of overloading or unstable sync.

The normal setting of the AGC control is at its mid-range position.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The horizontal hold control (L54) is located on the control panel of the chassis and is used as a horizontal hold control. If horizontal sync cannot be brought in by adjusting the horizontal hold, set it at approximately its mid-range position, and synchronize the picture by adjusting the horizontal waveform slug (Bl).

SOUND IF DETECTOR BUZZ ADJUSTMENT

To eliminate sound IF detector buzz, adjust the ratio detector secondary (A49) located on top of chassis.

FUSES

One fuse is used for horizontal sweep circuit protection. (For location see tube placement chart).

CENTERING

Centering is accomplished mechanically by adjusting two magnetic rings around the neck of the picture tube, located flush against the deflection yoke. Rotate the two rings around the neck of the tube until the picture is properly centered.

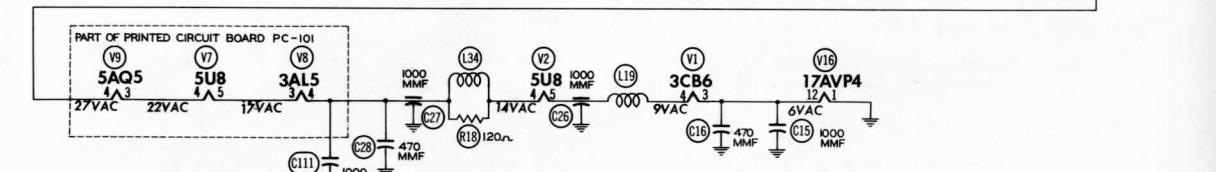
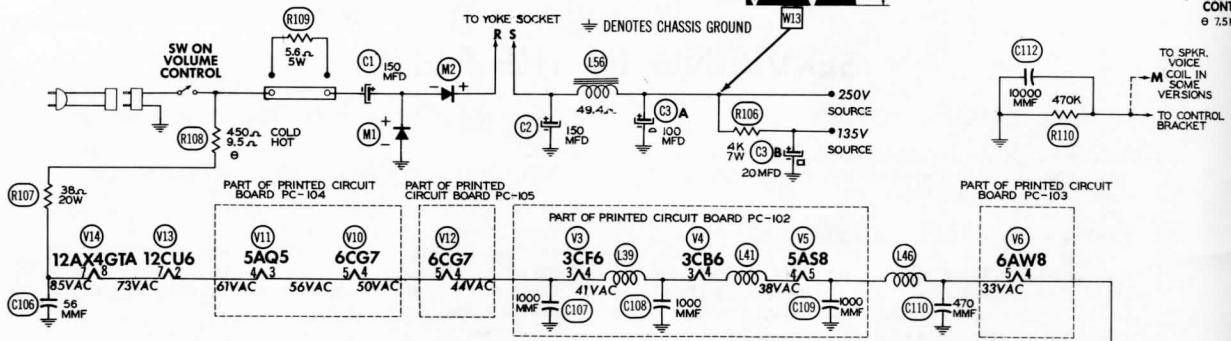
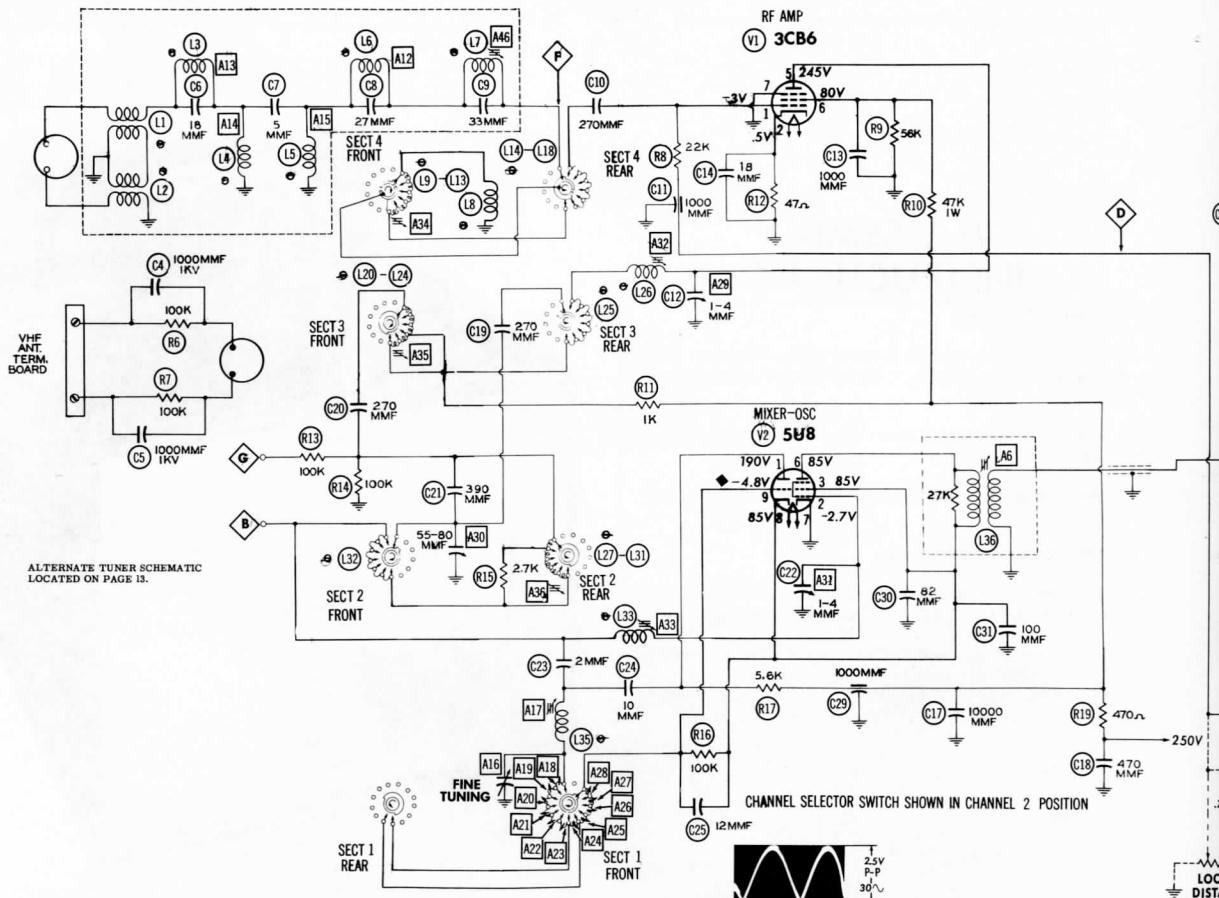
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G196

**RCA VICTOR MODELS 17-PT-6962,
U, 17-S-6022, U, 17-S-6025, U,
17-S-6027, U (Ch. KCS94, A)**



◆ MEASURED FROM PIN 8 OF V2.

■ MEASURED FROM PIN 7 OF V4.

◆ SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM. (SEE PARTS LIST)

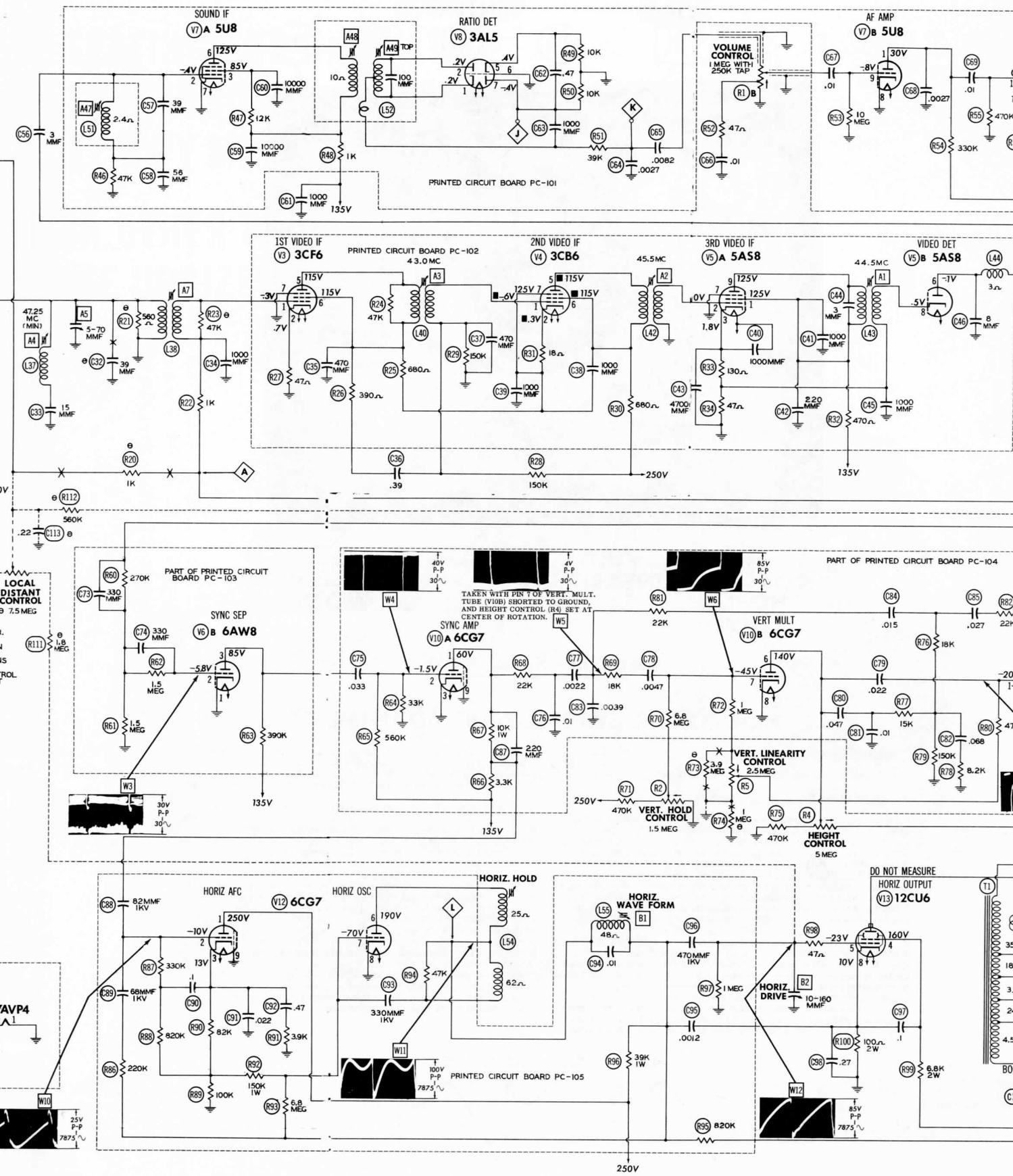
ARROW ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

WAVE FORMS TAKEN WITH CONTROLS SET TO PRODUCE 50 VOLTS PEAK-TO-PEAK SIGNAL AT PICTURE TUBE

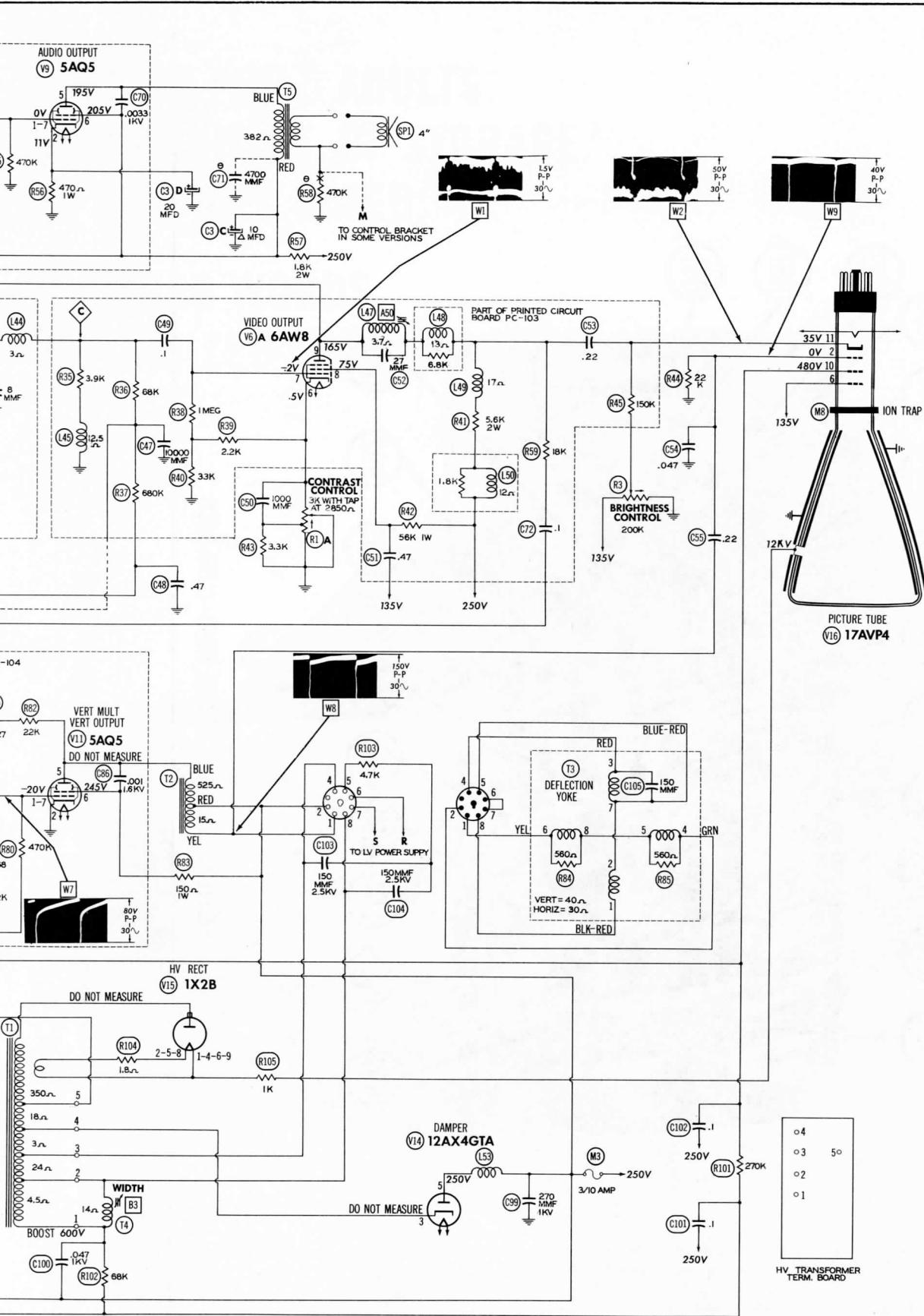
1. DC voltage measurements taken with vacuum tube voltmeter; AC voltage measured at 1,000 ohms per volt.
2. Pin numbers are counted in a clockwise direction on bottom of socket.

3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line voltage maintained at 117 volts for voltage readings.
5. All controls set for normal operation; no signal applied.

FILAMENT CONNECTIONS USED IN UHF-VHF MODELS



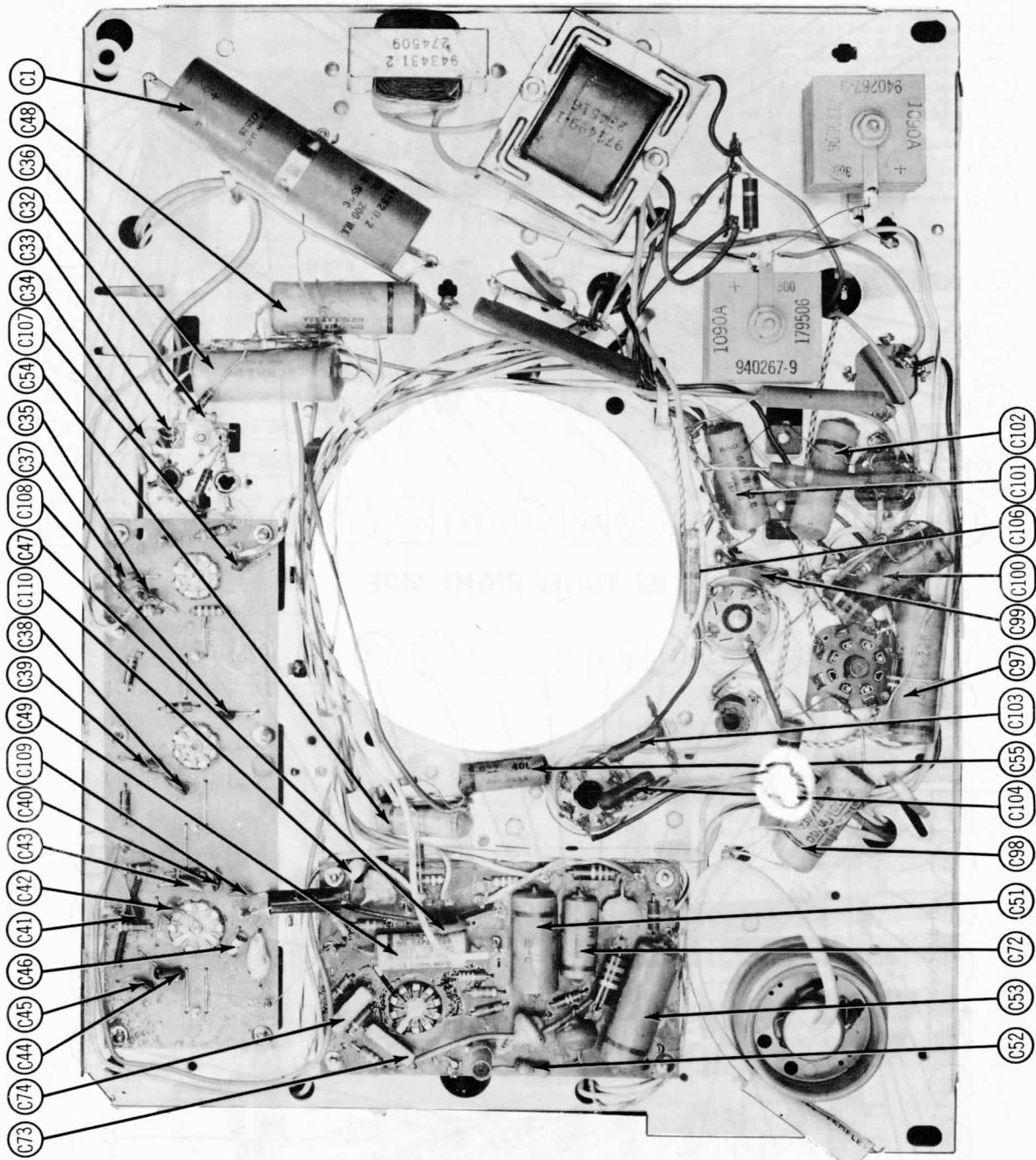
**RCA VICTOR MODELS 17-PT-6962, U, 17-S-6022, U,
17-S-6025, U, 17-S-6027, U (Ch. KCS94, A)**

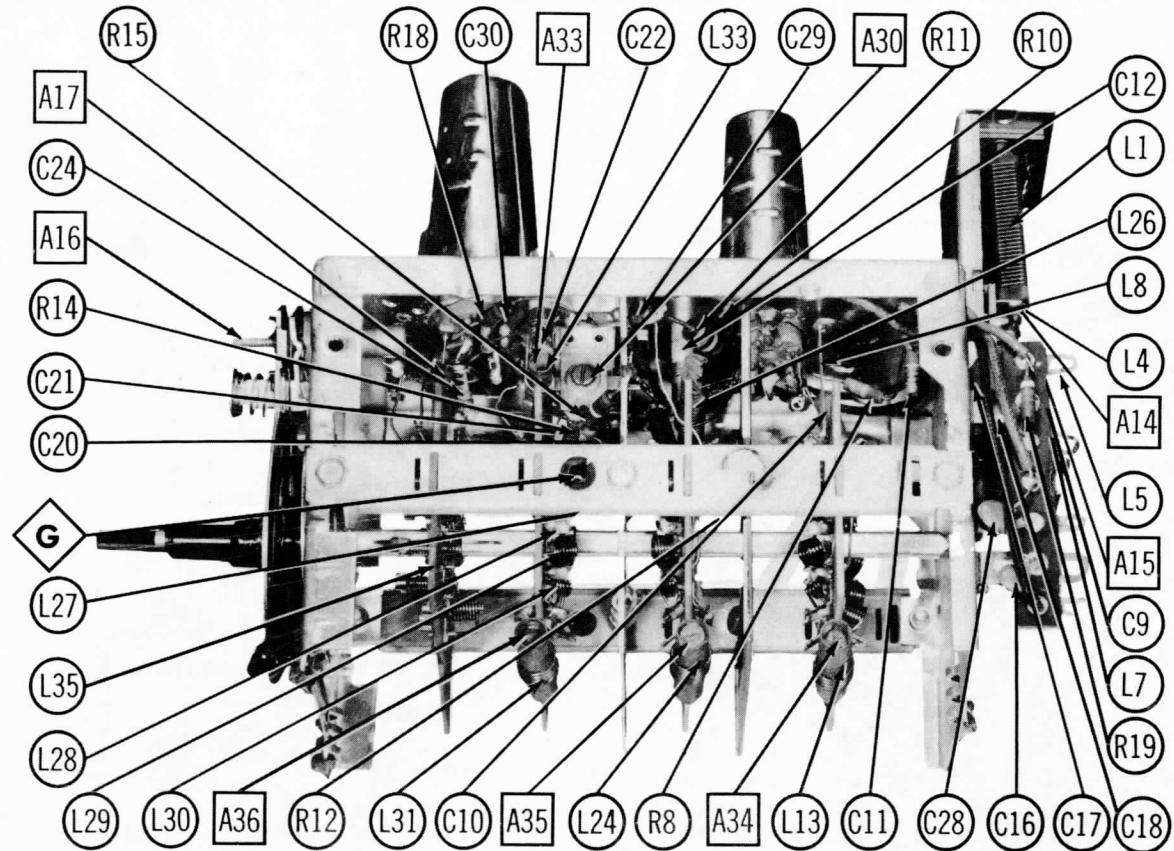


**RCA VICTOR MODELS 17-PT-6962,
U, 17-S-6022, U, 17-S-6025, U,
17-S-6027, U (Ch. KCS94, A)**

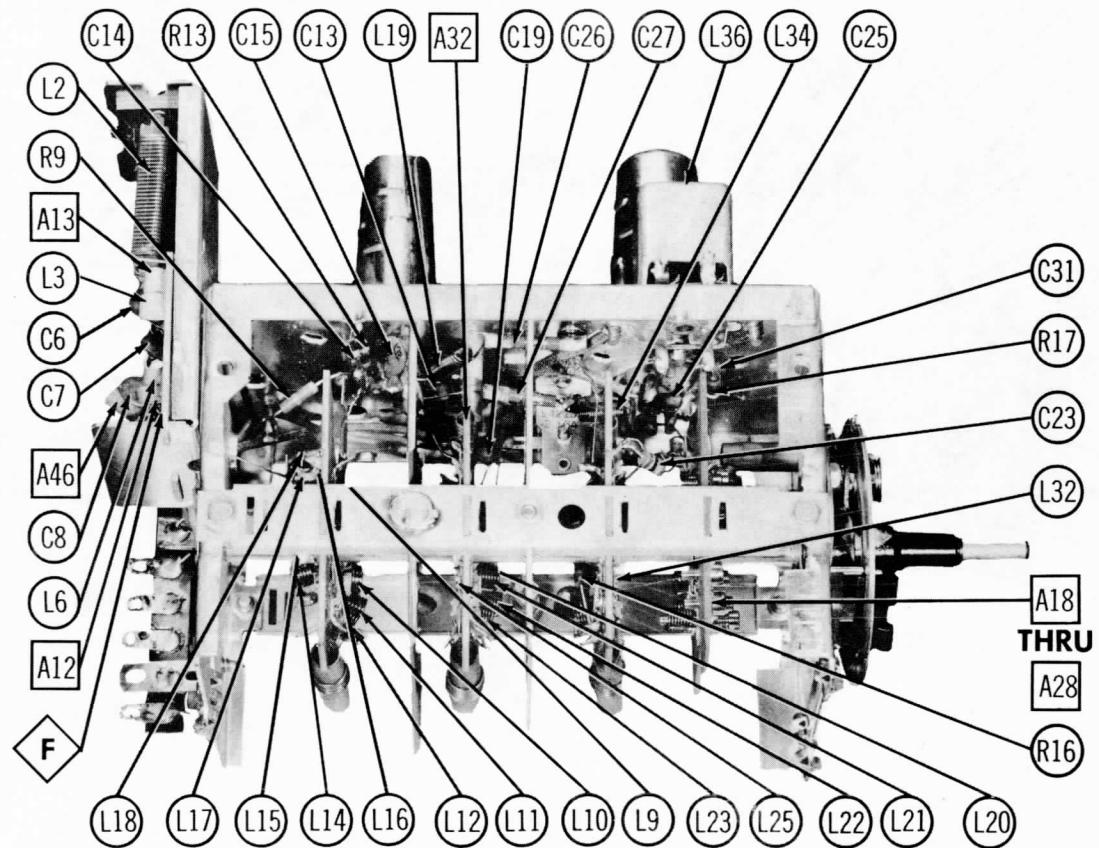
RCA VICTOR MODELS 17-PI-6962, U, 17-S-6022, U,
17-S-6025, U, 17-S-6027, U (Ch. KCS94, A)

CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION





RF TUNER-RIGHT SIDE



RF TUNER-LEFT SIDE

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use an isolation transformer to protect the test equipment.
M3 (Fuse) may be removed to prevent shock hazard during alignment. If not removed, the high voltage lead should be taped securely and kept away from the chassis.

VIDEO IF ALIGNMENT USING TUNER KRK32B

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .0015MFD	High side to point \triangle . Low side to chassis.	Not used	44.5MC	Any un-used channel	USE VTVM. DC probe to point \square . Common to chassis.	A1	Attenuate generator output to maintain not more than -3 volts on VTVM. Adjust for maximum deflection.
2. "	"	"	45.5MC	"	"	A2	"
3. "	"	"	43.0MC	"	"	A3	"
4. "	"	"	47.25MC	"	"	A4	Increase generator output to maintain -3 volts on VTVM. Adjust for MINIMUM deflection.
5. "	High side to point \triangle . Low side to tuner chassis.	44MC (10MC Swp)	42.5MC 45.75MC	4	Vert. Amp. of scope thru detector (Fig. 1) to pin 5 (plate) of 1st. Video IF Amp. tube (V3). Low side to chassis.	A5, A6, A7	Adjust bias to read -3.5 volts at point \triangle . Clip a carbon 330Ω resistor from pin 2 (grid) of 3rd. video IF amplifier (V5A) to chassis. Connect a 180Ω carbon resistor from plate to screen (pins 5 and 6) of 1st. video IF amplifier tube (V3). Preset A5 (trimmer) to minimum capacity. If a separate signal generator is used for marker couple it loosely to detector as in Fig. 1. Attenuate output of sweep generator to give 0.5 volts peak to peak on scope. Adjust A6 and A7 for maximum gain with 45.75MC marker at 75% of maximum response as in Fig. 2. Adjust A5 to place 42.5MC marker at 70% response on curve as in Fig. 2. Disconnect the 180Ω and 330Ω resistors. Remove scope and detector from pin 5 of V3.
6. "	"	"	42.5MC 45.0MC 45.75MC	4	Vert. Amp. to point \square . Low side to chassis.	A1, A2, A3	Attenuate output of sweep generator to obtain 3 to 5 volts peak to peak on scope. If a separate signal generator is used for a marker, couple it loosely to pin 1 (grid) of 1st. video IF amplifier tube (V3). Retouch A1, A2 and A3 if necessary to obtain response curve similar to Fig. 3.
7. "	"	"	41.25MC	"	"	A1, A3	Increase sweep generator output ten times and notice attenuation at 41.25MC. Adjust A1 and A3 to set 41.25MC marker at approximately 30 times down with response curve as shown in Fig. 3.
8. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	"	42.5MC 45.0MC 45.75MC	All VHF channels separately	"	A1, A2	Slightly readjust A1 and A2 to correct any overall tilt while switching from channel to channel as in Fig. 3. Couple marker generator loosely to first video IF Amp. tube grid. Continue alignment with step 13.

VIDEO IF ALIGNMENT USING KRK29K/36A TUNER UNIT

Same instructions as under "Video IF Alignment Using Tuner KRK32B"

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .0015MFD Ceramic Capacitor	High side to point \triangle . Low side to chassis.	Not used	44.5MC	Any un-used channel	USE VTVM. DC probe to point \square . Common to chassis.	A1	Attenuate generator output to maintain not more than -3 volts on VTVM. Adjust for maximum deflection.
2. "	"	"	45.5MC	"	"	A2	"
3. "	"	"	43.0MC	"	"	A3	"
4. "	"	"	47.25MC	"	"	A4	Increase generator output to maintain -3 volts on VTVM. Adjust for MINIMUM deflection.
5. "	High side to point \triangle . Low side to tuner chassis.	44MC (10MC Swp)	42.5MC 45.75MC	4	Vert. Amp. of scope thru detector (Fig. 1) to pin 5 (plate) of 1st. Video IF amp. tube (V3). Low side to chassis.	A5, A6, A7	Adjust bias to read -3.5 volts at point \triangle . Clip a carbon 330Ω resistor from pin 2 (grid) of 3rd. video IF amp. tube (V5A) to chassis. Connect a 180Ω carbon resistor from plate to screen (pins 5 and 6) of 1st. video IF amp. tube (V3). Preset A5 (trimmer) to minimum capacity. If a separate signal generator is used for marker couple it loosely to detector as in Fig. 1. Attenuate output of sweep generator to give 0.5 volts peak to peak on scope. Adjust A6 and A7 for maximum gain with 45.75MC marker at 75% of maximum response as in Fig. 2. Adjust A5 to place 42.5MC marker at 70% response on curve as in Fig. 2. Disconnect the 180Ω and 330Ω resistors. Remove scope and detector from pin 5 of V3.
6. "	"	"	42.5MC 45.0MC 45.75MC	4	Vert. Amp. to point \square . Low side to chassis.	A1, A2, A3	Attenuate output of sweep generator to obtain 3 to 5 volts peak to peak on scope. If a separate signal generator is used for a marker, couple it loosely to pin 1 (grid) of 1st. video IF amp. tube (V3). Retouch A1, A2 and A3 if necessary to obtain response curve similar to Fig. 3.

ALIGNMENT INSTRUMENTATION

VIDEO IF ALIGNMENT USING KRK29K/36A TUNER UNIT (CONT.)

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7. .0015MFD	High side to point \triangle . Low side to chassis.	44MC (10MC Swp)	41.25MC	4	Vert. Amp. to point \triangle . Low side to chassis.	A1, A3	Increase sweep generator output ten times and notice attenuation at 41.25MC. Adjust A1 and A3 to set 41.25MC marker at approximately 30 times down with response curve as shown in Fig. 3.
8. Two 130Ω Carbon Resistors	Across VHF antenna terminals with 130Ω in each lead.	"	42.5 MC 45.0 MC 45.75 MC	All VHF channels separately	"	A1, A2	SLIGHTLY readjust A1 and A2 to correct any overall tilt while switching from VHF channel to VHF channel (Fig. 3).
9. 10000Ω Carbon Resistor in series with .0015MFD ceramic capacitor	High side to front terminal of LN82 crystal holder. Low side to tuner case. Use very short leads.	797MC (10MC Swp)	45.75MC 42.5MC	Between channels 68 and 69.	Vert. Amp. thru detector (Fig. 1) to junction of 220Ω and .0015MFD (see remarks). Low side to chassis.	A8, A9	Set tuner to UHF position. Connect a 220Ω in series with a .0015MFD capacitor (ceramic) between pin 1 (plate) of 4BQ7A and chassis with the capacitor end connected to pin 1 of 4BQ7A and resistor end to chassis. If VHF generator is used as a marker, couple it loosely to detector (Fig. 1). Connect a second bias supply to point \triangle . Positive side to tuner case. Adjust for -3 volts at point \triangle . Attenuate sweep generator for 0.5 volts peak to peak on scope. Adjust A8 and A9 for maximum gain as in Fig. 4.
10. "	"	"	"	"	Vert. Amp. thru detector (Fig. 1) to point \triangle . Low side to chassis.	A10, A11	Tuner in UHF position. Loosely couple marker generator to detector (Fig. 1). If necessary, adjust A10 and A11 to place 45.75MC marker at peak of curve with MINIMUM tilt. Remove 220Ω resistor and .0015MFD capacitor from pin 1 of 4BQ7A tube. Remove detector and scope from point \triangle .
11. Two 130Ω Carbon Resistors	Across antenna (VHF) terminals with 130Ω in each lead.	44MC (10MC Swp)	42.5MC 45.0MC 45.75MC 46.5MC	Check all VHF channels	Vert. Amp. to point \triangle . Low side to chassis.	A1, A2	Couple marker generator loosely to first video IF amplifier grid. Check for response curve similar to Fig. 3 on all VHF channels. SLIGHTLY retouch A1 and A2 if necessary to correct for any overall tilt as in step 8.
12. 300Ω pad (Fig. 5)	Across UHF antenna terminals thru 300Ω pad (Fig. 5).	See freq. chart of all UHF channels	"	Check all UHF channels	"	A10, A11	Couple marker generator loosely to first video IF amplifier grid. Check for response curve similar to Fig. 3 on all UHF channels. If necessary, SLIGHTLY retouch A10 and A11 to correct for any overall tilt. Do not retouch A1, A2, A3, A6, A7, A8 or A9 in this step. Remove all test equipment. Disconnect both bias supplies.

KRK32B, KRK29K/36A ANTENNA MATCHING UNIT ALIGNMENT

The antenna matching unit has been properly aligned at the factory. The RF unit is aligned with a particular antenna matching unit in place. If a new antenna unit is installed, the RF unit should be realigned. Alignment should not be attempted without the proper alignment facilities. The FM trap adjustment (A46) which is located on the antenna matching unit may be adjusted without seriously affecting the RF alignment. Disconnect the lead from the FM trap (L7) to the channel selector switch. Use a short jumper to connect point \triangle on the matching unit through a .001MFD capacitor to pin 1 (grid) of second video IF amplifier tube (V4). Remove the first video IF amplifier tube (V3) from its socket. Cover of the matching unit must be in place during alignment. Connect the negative terminal of potentiometer arm of bias supply to point \triangle . Positive terminal to chassis. Set the potentiometer arm to obtain -5 volts at point \triangle on VTVM. Note: Adjustments A12 thru A15 are adjusted by expanding or compressing coil turns, except in antenna matching units in which C6, C7 and C8 are variable capacitors. C6 would be adjustment A13. C7 would be adjustment for A14 and A15. C8 would be adjustment A12. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
13. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	Not used	45.75MC (400% Mod)	Any	Vert. Amp. to point \triangle . Low side to chassis.	A12	Set scope gain to maximum and adjust for MINIMUM 400% indication on scope.
14. "	"	"	41.25MC (400% Mod)	"	"	A13	"
15. 300Ω Pad (Fig. 5)	Across antenna terminals thru 300Ω pad (Fig. 5).	50MC (20MC Swp)	50MC 52MC 53MC 60MC	"	Vert. Amp. thru detector probe (Fig. 1) to point \triangle . Low side to chassis.	A14, A15	Remove the .001MFD capacitor from point \triangle to pin 1 of V4. Connect a 300Ω, $\frac{1}{2}$ watt carbon resistor from point \triangle to chassis. Adjust A14 and A15 to obtain response curve similar to Fig. 6. Repeat steps 13, 14 and 15 until no further improvement is noted. Remove the 300Ω resistor and the detector probe between point \triangle and chassis. Replace V3 in its socket.

KRK32B TUNER ALIGNMENT

An RF unit which is operative and requires only minor touch up adjustments will require no presetting of adjustments. This unit is properly aligned at the factory and under normal use should not require alignment unless components are changed to effect alignment.

When complete alignment is necessary make the following pre-adjustments.

1. Turn A6 so that slug is all the way out.
2. Preset A16 all the way out.
3. Set channel 7 thru 13 slugs one turn from tight.
4. Disconnect the link from terminals of converter plate transformer (L36) and shunt the terminals of L36 with a 39Ω carbon resistor.

Tuner alignment as outlined below requires the use of a heterodyne frequency meter. The limits of oscillator injection voltage are 2 volts minimum and 5.5 volts maximum measured at point \triangle with a VTVM. Connect negative terminal of potentiometer arm of one of the bias supplies to point \triangle . Positive side to tuner chassis. Adjust for -3.5 volts bias at point \triangle . Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
16. Direct	RF input of heterodyne freq. meter to end of insulated wire inserted in hole provided for adjustment of A30. Be careful that the wire does not touch any of the tuned circuits as this may cause oscillator shift.	Not used	Set freq. meter to 227MC	8	Not used	A16	Turn fine tuning control to its mid-range position. Adjust A16 for audible beat on frequency meter.
17. If channel 8 oscillator frequency cannot be reached by adjustment of A16, switch to channel 13 and adjust A17 for channel 13 oscillator frequency. Switch to channel 12 and adjust A18 for channel 12 oscillator frequency. Continue to channel 8. Adjust proper oscillator trimmer to obtain oscillator frequency on each channel. Also on channel 8 adjust A16 for channel 8 oscillator frequency. Switch to channel 13 and adjust A17, then back to channel 8 and again adjust A16.							

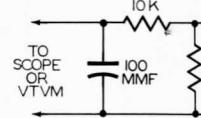


FIG. 1

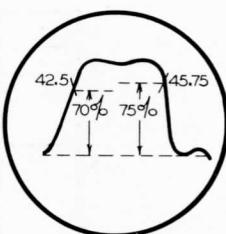


FIG. 2

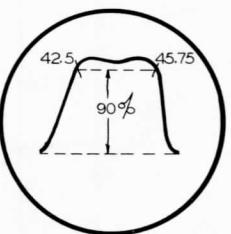


FIG. 4

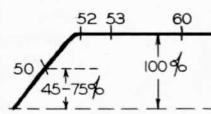


FIG. 6

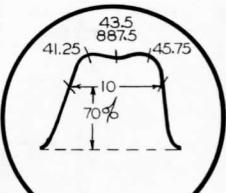


FIG. 8

ALIGNMENT INSTRUCTIONS (cont)

KRK32B

ER UNIT (CONT.)

ADJUST	REMARKS	
A1, A3	Increase sweep generator output ten times and notice attenuation at 41.25MC. Adjust A1 and A3 to set 41.25MC marker at approximately 30 times down with response curve as shown in Fig. 3.	
A1, A2	SLIGHTLY readjust A1 and A2 to correct any overall tilt while switching from VHF channel to VHF channel (Fig. 3).	
A8, A9	Set tuner to UHF position. Connect a 220Ω series with a .0015MFD capacitor (ceramic) between pin 1 (plate) of 4BQ7A and chassis with the capacitor end connected to pin 1 of 4BQ7A and resistor end to chassis. If VHF generator is used as a marker, couple it loosely to detector (Fig. 1). Connect a second bias supply to point (D). Positive side to tuner case. Adjust for -3 volts at point (D). Attenuate sweep generator for 0.5 volts peak to peak on scope. Adjust A8 and A9 for maximum gain as in Fig. 4.	
A10, A11	Tuner in UHF position. Loosely couple marker generator to detector (Fig. 1). If necessary, adjust A10 and A11 to place 45.75MC marker at peak of curve with MINIMUM tilt. Remove 220Ω resistor and .0015MFD capacitor from pin 1 of 4BQ7A tube. Remove detector and scope from point (E).	
A1, A2	Couple marker generator loosely to first video IF amplifier grid. Check for response curve similar to Fig. 3 on all VHF channels. SLIGHTLY retouch A1 and A2 if necessary to correct for any overall tilt as in step 8.	
A10, A11	Couple marker generator loosely to first video IF amplifier grid. Check for response curve similar to Fig. 3 on all UHF channels. If necessary, SLIGHTLY retouch A10 and A11 to correct for any overall tilt. Do not retouch A1, A2, A3, A6, A7, A8 or A9 in this step. Remove all test equipment. Disconnect both bias supplies.	
ING UNIT ALIGNMENT		
igned with a particular antenna matching unit should not be attempted without the proper matching unit may be adjusted without seriously selector switch. Use a short jumper to second video IF amplifier tube (V4). Remove be in place during alignment.		
ive terminal to chassis. Set the potentiometer by expanding or compressing coil turns, would be adjustment A13. C7 would be		
ut of the oscilloscope for horizontal deflection, e, usually 50 ohms.		
ECT PE	ADJUST	REMARKS
A12	Set scope gain to maximum and adjust for MINIMUM 400% indication on scope.	
A13	"	
A14, A15	Remove the .001MFD capacitor from point (F) to pin 1 of V4. Connect a 300Ω, $\frac{1}{2}$ watt carbon resistor from point (F) to chassis. Adjust A14 and A15 to obtain response curve similar to Fig. 6. Repeat steps 13, 14 and 15 until no further improvement is noted. Remove the 300Ω resistor and the detector probe between point (F) and chassis. Replace V3 in its socket.	
ALIGNMENT		
re no presetting of adjustments. Alignment unless components are changed to		
unt the terminals of L36 with a 39Ω carbon		
The limits of oscillator injection voltage are negative terminal of potentiometer arm of volts bias at point (D).		
ut of the oscilloscope for horizontal deflection, e, usually 50 ohms.		
ECT PE	ADJUST	REMARKS
A16	Turn fine tuning control to its mid-range position. Adjust A16 for audible beat on frequency meter.	
channel 13 and adjust A17 for channel 13 oscillator frequency. channel 8. Adjust proper oscillator trimmer to obtain oscillator frequency. Switch to channel 13 and adjust A17, then		

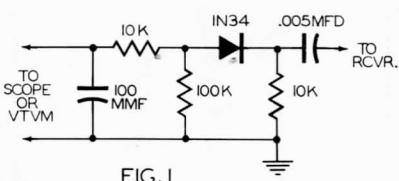


FIG. 1

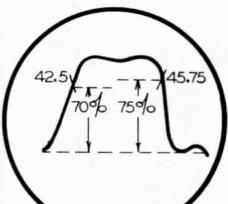


FIG. 2

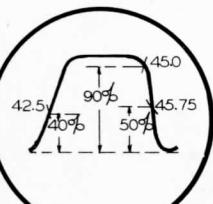


FIG. 3

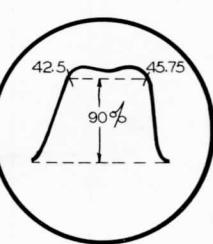


FIG. 4

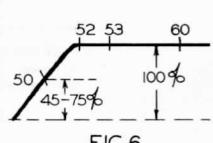


FIG. 6

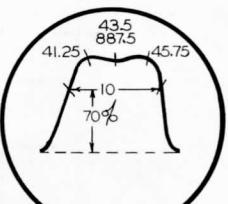


FIG. 8

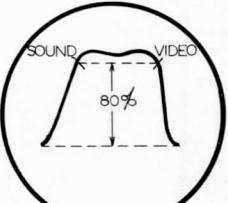


FIG. 7

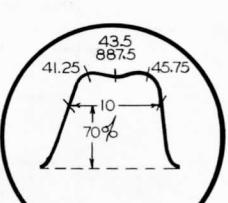
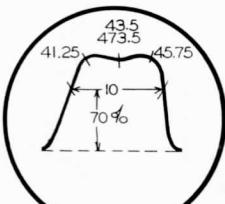
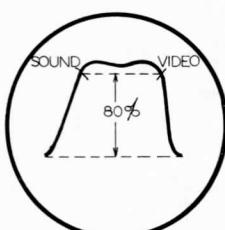
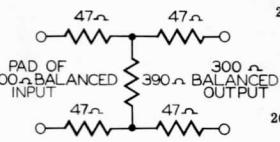
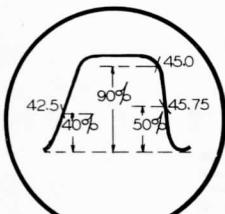
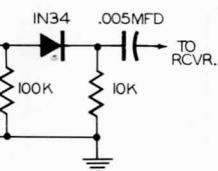


FIG. 9

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CH
Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	183MC (10MC Swp)	181.25MC 185.75MC	8
	Connect frequency meter as in step 16.	Not used	Freq. meter to 257MC	13
Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	213MC (10MC Swp)	211.25MC 215.75MC	"
	Connect the DC probe of a VTVM to point (G). Common to chassis channels 8 thru 13 if voltage is not within limits. Check V2 by repeat. If either is replaced, repeat oscillator tracking procedure for chan			
	Connect frequency meter as in step 16.	Not used	Freq. meter to 227MC	8
Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	183MC (10MC Swp)	181.25MC 185.75MC	"
	Connect frequency meter as in step 16.	Not used	Freq. meter to 129MC	6
Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	85MC (10MC Swp)	83.25MC 87.75MC	"
	"	85MC (10MC Swp)	87.75MC	"
	"	79MC (10MC Swp)	77.25MC	5
	"	69MC (10MC Swp)	67.25MC	4
	"	63MC (10MC Swp)	61.25MC	3
	"	57MC (10MC Swp)	55.25MC	2
	"	59.75MC		
	"	213MC (10MC Swp)	211.25MC	13
	"	207MC (10MC Swp)	205.25MC	12
	"	201MC (10MC Swp)	199.25MC	11
	"	195MC (10MC Swp)	193.25MC	10
	"	189MC (10MC Swp)	187.25MC	9
	"	183MC (10MC Swp)	181.25MC	8
	"	177MC (10MC Swp)	175.25MC	7
	Connect frequency meter as in step 16.	Not used	Freq. meter to 257MC	13
Direct	High side to point (F). Low side to chassis.	Not used	43.5MC (400Mod)	2
	"	Set freq. meter to 227MC		8
	Note: If channel 8 oscillator frequency cannot be reached by adjusting frequency. Switch to channel 12 and adjust A18 for channel trimmer to obtain oscillator frequency on each channel. Also, on channel 13 and adjust A17, then back to channel 8 and again adjust A39.			

INSTRUCTIONS (cont)



KRK32B TUNER ALIGNMENT (CONT.)

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
18. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	183MC (10MC Swp)	181.25MC 185.75MC	8	Vert. Amp. to point . Low side to chassis.	A29, A30, A31	Set scope to maximum gain for usable indication on scope. Adjust A29, A30 and A31 for response curve similar to Fig. 4. A29 affects bandpass. A31 affects the tilt. A30 affects the overall response bandwidth.
19.	Connect frequency meter as in step 16.	Not used	Freq. meter to 257MC	13	Not used	A17	Turn fine tuning control to its mid-range position. Adjust A17 for audible beat. Turn A17 an additional turn in the same direction and readjust A16 to again obtain an audible beat.
20. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	213MC (10MC Swp)	211.25MC 215.75MC	"	Vert. Amp. to point . Low side to chassis.	A32, A33	Adjust for proper response as shown in Fig. 4.
21.	Connect the DC probe of a VTVM to point . Common to chassis. Check oscillator injection voltage.	Check oscillator tracking on channels 8 thru 13 if voltage is not within limits. Check V2 by replacing 5U8 tube. If voltage is still off, replace oscillator coupling capacitor (C23). If either is replaced, repeat oscillator tracking procedure for channels 8 thru 13.					
22.	Connect frequency meter as in step 16.	Not used	Freq. meter to 227MC	8	Not used	A16	Check for audible beat on frequency meter. If necessary, adjust A16 for proper frequency.
23. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	183MC (10MC Swp)	181.25MC 185.75MC	"	Vert. Amp. to point . Low side to chassis.	A29, A30, A31	If necessary retouch A29, A30 and A31 to obtain response as in Fig. 4. If A31 required adjustment, turn off generator and switch back to channel 13 and check oscillator injection voltage as in step 21. If necessary repeat steps 20, 21 and 22 until proper response is obtained.
24.	Connect frequency meter as in step 16.	Not used	Freq. meter to 129MC	6	Not used	A24	Set fine tuning control to its mid-range position. Adjust A24 for audible beat on frequency meter.
25. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	85MC (10MC Swp)	83.25MC 87.75MC	"	Vert. Amp. to point . Low side to chassis.	A34, A35, A36	Adjust for response curve similar to Fig. 7. Check oscillator injection as in step 24. A34 affects maximum amplitude of curve midway between markers. A35 affects freq. bandpass. A36 affects tilt (providing A34 has been properly adjusted).
26.	"	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 61.25MC 65.75MC 55.25MC 59.75MC	"	"		Check for response similar to Fig. 7. Check oscillator injection voltages for each channel at point . If markers fall below 80% on any one channel, retouch A34, A35 and A36 to obtain response curves within proper limits.
27.	"	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	"		Check for response similar to Fig. 7. Check oscillator injection voltages for each channel at point . If markers fall below 80% on any one channel, retouch A29, A30 and A31 to obtain response curves within proper limits.
28.	Connect frequency meter as in step 16.	Not used	Freq. meter to 257MC	13 12 11 10 9 8 7 6 5 4 3 2	Not used	A17 A18 A19 A20 A21 A22 A23 A24 A25 A26 A27 A28	Adjust individual channel oscillator slug for audible beat on each channel. Recheck oscillator injection voltage on each channel at point to verify that the voltages are within limits, 2 volts MINIMUM and 5.5 volts maximum.

KRK29K/36A VHF TUNER ALIGNMENT

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
29. Direct	High side to point . Low side to chassis.	Not used	43.5MC (400°Mod)	2	Vert. Amp. to point . Low side to chassis.	A37	Short out tuner AGC at point . Adjust scope for maximum gain. Adjust A37 for MINIMUM 400% indication on scope. If necessary A37 may be adjusted in the field to provide additional rejection of a specific frequency. Exercise care so that A37 is not tuned into channel 2 reducing that channel's sensitivity. Remove short from tuner AGC at point .
30.	RF input of heterodyne frequency meter to end of insulated wire inserted in hole provided for adjustment of A30. Be careful that wire does not touch any of the tuned circuits as this may cause oscillator shift.	"	Set freq. meter to 227MC	8	Not used	A38, A39, A16	Preset A38 to read -3 volts at point . Turn fine tuning control fully clockwise. Adjust bias to read -4 volts at point . Adjust A39 for audible beat on frequency meter. Adjust A16 clockwise until beat note just begins to change, then turn one full turn in same direction. Return fine tuning control to its mid-range position.
31.	Note: If channel 8 oscillator frequency cannot be reached by adjustment of A39, switch to channel 13 and adjust A17 for channel 13 oscillator frequency. Switch to channel 12 and adjust A18 for channel 12 oscillator frequency. Continue to channel 8. Adjust proper oscillator trimmer to obtain oscillator frequency on each channel. Also, on channel 8 adjust A39 for channel 8 oscillator frequency. Switch back to channel 13 and adjust A17, then back to channel 8 and again adjust A39.						

RCA VICTOR MODELS 17-S-6025, U, 17-S-6027, U (Ch. KCS94, A), 17-S-6022, U

ALIGNMENT INSTRUCTIONS (cont)

KRK29K/36A VHF TUNER ALIGNMENT (CONT.)

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
32. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	183MC (10MC Swp)	181.25MC 185.75MC	8	Vert. Amp. to point  . Low side to chassis.	A29, A30, A31, A40	Set A6 fully counter clockwise. Set scope gain to maximum and attenuate generator output for minimum input signal that will produce usable pattern on scope. Adjust A4 for response similar to Fig. 4. Adjust A40 for maximum amplitude between markers. A28 affects bandpass. A31 affects tilt (when A40 is properly adjusted). A30 affects the response bandwidth.
33.	Connect the DC probe of a VTVM to point  . Common to chassis. Adjust A38 for negative 3 volts at point  . Repeat steps 31 and 32.						
34.	Connect frequency meter as in step 30.	Not used	Freq. meter to 257MC	13	Not used	A17	Rotate fine tuning control maximum clockwise. Adjust A17 for maximum audible beat on freq. meter. SLIGHTLY overshoot the adjustment an additional turn in the same direction, then adjust A16 to again obtain an audible beat.
35. Two 130Ω Carbon Resistors	Across VHF antenna terminals with 300Ω in each lead.	213MC (10MC Swp)	211.25MC 215.75MC	13	Vert. Amp. to point  . Low side to chassis.	A32, A33	Adjust for proper response as shown in Fig. 4. Turn off generator and check oscillator voltage at point  using VTVM as in step 33. If A38 required readjustment turn sweep generator back on and recheck channel 13 response. If necessary, retouch A32 and A33 for desired response.
36.	Connect frequency meter as in step 30.	Not used	Freq. meter to 227MC	8	Not used	A16	Check for audible beat on frequency meter. If necessary adjust A16 for proper oscillator frequency.
37. Two 130Ω Carbon Resistors	Across VHF antenna terminals with 130Ω in each lead.	183MC (10MC Swp)	181.25MC 185.75MC	"	Vert. Amp. to point  . Low side to chassis.	A29, A30, A31, A40	If necessary retouch A29, A30, A31 and A40 to obtain response similar to Fig. 4. If A31 required adjustment, turn off generator and switch to channel 13 and check oscillator injection voltage as in step 33. If necessary, repeat steps 35, 36 and 37 until proper response is obtained.
38.	Connect Frequency meter as in step 30.	Not used	Freq. meter to 129MC	6	Not used	A24	Set fine tuning control to its mid-range position. Adjust A24 for audible beat on frequency meter.
39. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	85MC (10MC Swp)	83.25MC 87.75MC	"	Vert. Amp. to point  . Low side to chassis.	A34,A35, A36	Adjust for response curve similar to Fig. 7. Check oscillator injection voltage as in step 33. Readjust A38 if necessary.
40.	If A38 required adjustment, switch receiver and generator to channel 8. Readjust A31 for response similar to Fig. 4. Recheck A16 and A39 for proper oscillator frequency as in step 30.						
41. Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	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 61.25MC 65.75MC 55.25MC 59.75MC	6 5 4 3 2	Vert. Amp. to point  . Low side to chassis.		Check for response similar to Fig. 7. Check oscillator injection voltage for each channel at point  . If markers fall below 80% on any one channel, retouch A35 and A36 to obtain response curves within proper limits.
42.	"	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	"		Check for response curve similar to Fig. 7. Check oscillator injection voltages for each channel at point  . If markers fall below 80% on any one channel retouch A29, A30 and A31 to obtain response curves within proper limits.
43.	Connect frequency meter as in step 30.	Not used	Freq. meter to 257MC 251MC 245MC 239MC 233MC 227MC 221MC 129MC 123MC 113MC 107MC 101MC	13 12 11 10 9 8 7 6 5 4 3 2	Not used	A17 A18 A19 A20 A21 A22 A23 A24 A25 A26 A27 A28	Adjust individual channel oscillator slug for audible beat on each channel. Recheck oscillator injection voltage on each channel at point  to verify that the voltages are within limits 2 volts MINIMUM and 5.5 volts maximum.

ALIGNMENT INSTRUCTIONS (cont)

KRK29K/36A TUNER UNIT UHF ALIGNMENT

Turn the change over switch to UHF position.

To make the RF adjustments for UHF tuner, the UHF tuner unit will have to be removed from the set. IF and oscillator adjustments may be aligned without removing UHF tuner.

It will be necessary to fabricate a test dial to fit over the split gear on the tuner shaft for accurate alignment.

Reference marks at 0°, 5° and 164° should be scribed on the test dial. Locate "0" degree reference point by placing a 1/16" shim between the stop pin on the tuner and the stop plate on the gear assembly with the capacitor plates fully meshed.

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SWEET GENERATOR COUPLING	SWEET GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
44. 300Ω pad (Fig. 5)	Across UHF antenna terminals thru 300Ω pad (Fig. 5).	887.5MC (20MC Swp)	887.5MC 41.25MC 43.5MC 45.75MC	83 (Rotate dial to 164°)	Vert. Amp. to point \triangle . Low side to chassis.	A41, A42, A43	Connect the high side of VHF generator thru a 1000Ω carbon resistor to rear terminal of LN82 crystal holder and insert markers for 41.25MC, 43.5MC and 45.75 MC. Adjust for response similar to Fig. 8. Adjust A41 and A42 for maximum over-coupled response curve centered at 887.5 MC. Adjust A43 until the 43.5MC marker coincides with the 887.5MC marker.
45. "	"	473.5MC (20MC Swp)	473.5MC 41.25MC 43.5MC 45.75MC	14 (Rotate dial to 5°)	"	A44, A45	Adjust A44 until 43.5MC marker coincides with 473.5MC marker and with the 41.25 MC marker and 45.75MC marker as shown in Fig. 9. Adjust A45 to bring the oscillator trimmer adjustment A44 within range.
46.	Repeat steps 44 and 45 until response curves as in Fig. 8 and Fig. 9 are obtained. With perfect tracking the three markers will ride on top of the response curve. They may ride down the curve as far as 70% without seriously affecting alignment. If they fall below 70% level, knifing of the RF plates is necessary to correct tracking. It is necessary to remove shield cover to knife RF plates. Always knife the plates while tuning in the lower frequency to avoid affecting the tracking above the point of knifing. A check of which section to knife may be made by touching the plates with the knifing tool while observing the response.						
47.	Connect the DC probe of a VTVM to point \triangle . Common to chassis. Set VTVM to 1.5 volts on DC scale. Tune over entire UHF range. Readings between .03 and .35 volts should be obtained. Voltages outside these limits are an indication low B+ voltage, low or high crystal impedance or an oscillator tube operating outside its allowable limits. Connect the DC probe of VTVM to point \square , which is tuner bias terminal. Common to chassis. VTVM should read .5 and 2.5 volts. Readings outside of these limits will cause crystal currents outside allowable limits and in such cases replacement of the oscillator tube should follow. If the oscillator tube is replaced, recalibration of the high and low frequency end of the bands is required as outlined above.						

FM TRAP ADJUSTMENT

Tune in a local TV station in which interference is noticed. Adjust A46 for minimum interference in picture.

SOUND IF ALIGNMENT

Ground pin 2 (grid) of 3rd video IF amplifier tube (V5A) to chassis.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
48. .01MFD	High side to pin 7 (grid) of video output tube (V6A). Low side to chassis.	4.5MC (Unmod)	Any unused channel	DC probe to point \square . Common to chassis.	A49	Adjust for maximum deflection. Peak with core at chassis end.
49. "	"	"	"	"	A47, A48	Adjust for maximum deflection. Peak A48 with core at end of coil away from chassis.
50. "	"	"	"	"	A49	Adjust for zero reading. A positive and negative reading will be obtained on either side of correct setting. Remove ground from pin 2 of V5A.

4.5MC TRAP ALIGNMENT

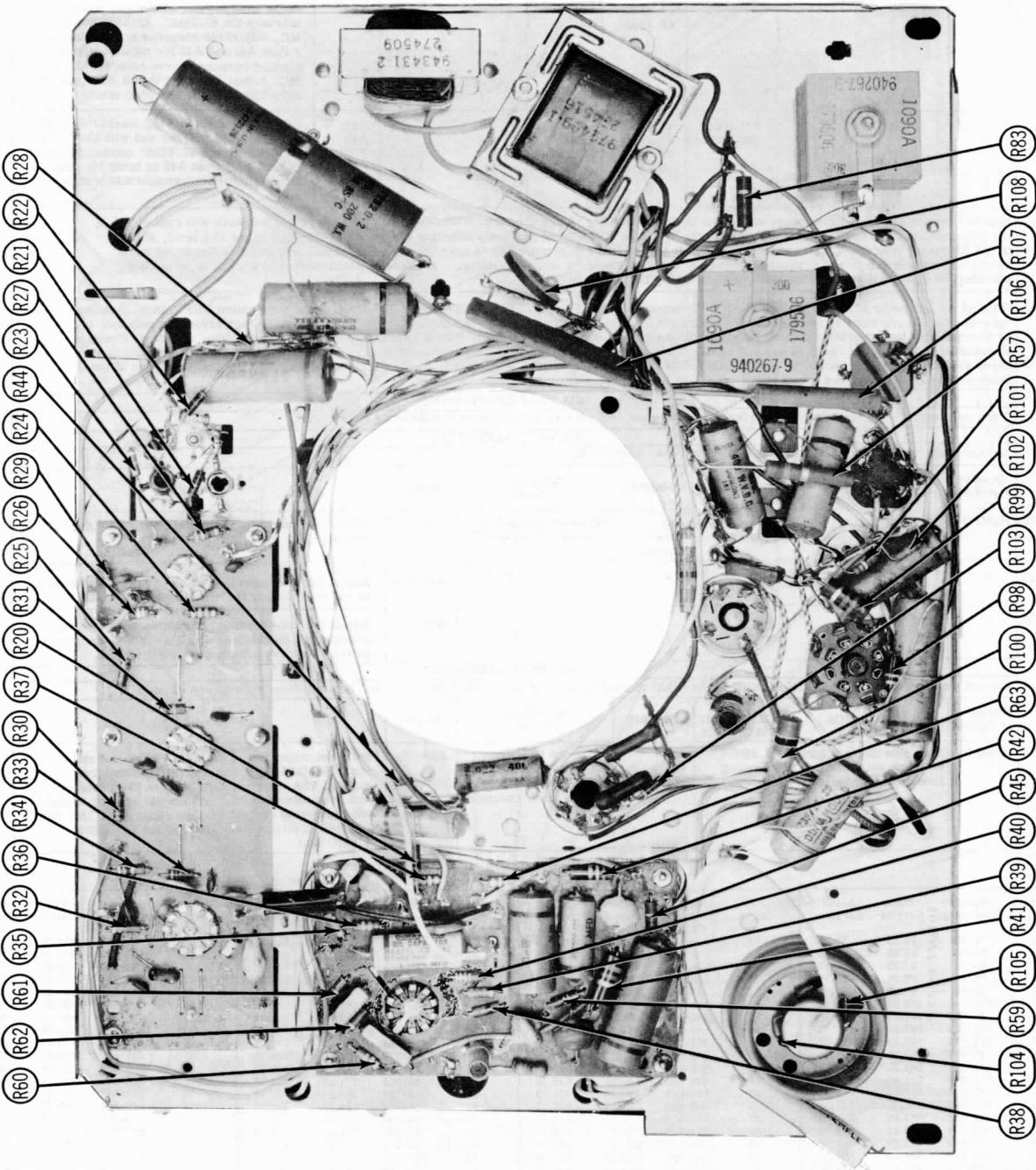
Ground pin 2 (grid) of 3rd video IF amplifier tube (V5A) to chassis when properly adjusted, core will be away from chassis end of coil.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
51. .01MFD	High side to pin 7 (grid) of video output tube (V6A). Low side to chassis.	4.5MC (Unmod)	Any unused chassis.	DC probe thru detector (Fig. 1) to pin 11 (cathode) of picture tube. Common to chassis.	A50	Increase output for .5 volts on VTVM. Adjust for MINIMUM deflection. Remove ground from pin 2 of V5A. Tune in a TV station. Set contrast and brightness control for a normal picture. Rotate the fine tuning control over its range. If 4.5MC beat is noted in picture, retouch A50 for MINIMUM 4.5MC beat.

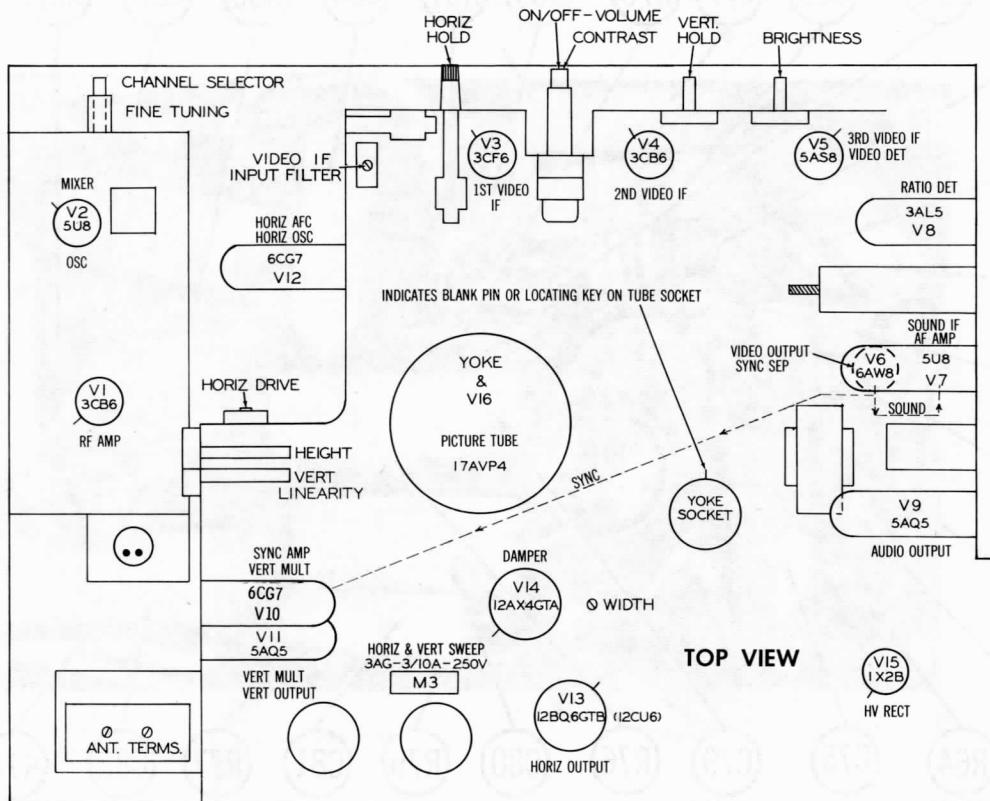
TELEVISION CHANNEL FREQUENCIES

Channel No.	Frequency Band (Mc)	Video Carrier	Sound Carrier	Channel No.	Frequency Band (Mc)	Video Carrier	Sound Carrier	Channel No.	Frequency Band (Mc)	Video Carrier	Sound Carrier	Channel No.	Frequency Band (Mc)	Video Carrier	Sound Carrier
2	54-60	55.25	59.75	23	524-530	525.25	529.75	44	650-656	651.25	655.75	64	770-776	771.25	775.75
3	60-66	61.25	65.75	24	530-536	531.25	535.75	45	656-662	657.25	661.75	65	776-782	777.25	781.75
4	66-72	67.25	71.75	25	536-542	537.25	541.75	46	662-668	663.25	667.75	66	782-788	783.25	787.75
5	76-82	77.25	81.75	26	542-548	543.25	547.75	47	668-674	669.25	673.75	67	788-794	789.25	793.75
6	82-88	83.25	87.75	27	548-554	549.25	553.75	48	674-680	675.25	679.75	68	794-800	795.25	799.75
7	174-180	175.25	179.75	28	554-560	555.25	559.75	49	680-686	681.25	685.75	69	800-806	801.25	805.75
8	180-186	181.25	185.75	29	560-566	561.25	565.75	50	686-692	687.25	691.75	70	806-812	807.25	811.75
9	186-192	187.25	191.75	30	566-572	567.25	571.75	51	692-698	693.25	697.75	71	812-818	813.25	817.75
10	192-198	193.25	197.75	31	572-578	573.25	577.75	52	698-704	699.25	703.75	72	818-824	819.25	823.75
11	198-204	199.25	203.75	32	578-584	579.25	583.75	53	704-710	705.25	709.75	73	824-830	825.25	829.75
12	204-210	205.25	209.75	33	584-590	585.25	598.75	54	710-716	711.25	715.75	74	830-836	831.25	835.75
13	210-216	211.25	215.75	34	590-596	591.25	595.75	55	716-722	717.25	721.75	75	836-842	837.25	841.75
14	470-476	471.25	475.75	35	596-602	597.25	601.75	56	722-728	723.25	727.75	76	842-848	843.25	847.75
15	476-482	477.25	481.75	36	602-608	603.25	607.75	57	728-734	729.25	733.75	77	848-854	849.25	853.75
16	482-488	483.25	487.75	37	608-614	609.25	613.75	58	734-740	735.25	739.75	78	854-860	855.25	859.75
17	488-494	489.25	493.75	38	614-620	615.25	619.75	59	740-746	741.25	745.75	79	860-866	861.25	865.75
18	494-500	495.25	499.75	39	620-626	621.25	625.75	60	746-752	747.25	751.75	80	866-872	867.25	871.75
19	500-506	501.25	505.75	40	626-632	627.25	631.75	61	752-758	759.25	767.75	81	872-878	873.25	877.75
20	506-512	507.25	511.75	41	632-638	633.25	637.75	62	758-764	759.25	763.75	82	878-884	879.25	883.75
21	512-518	513.25	517.75	42	638-644	639.25	643.75	63	764-770	765.25	769.75	83	884-890	885.25	889.75
22	518-524	519.25	523.75	43	644-650	645.25	649.75								

CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION



TUBE PLACEMENT CHART



TUBE FAILURE CHECK CHART

The following chart lists tubes whose failures are most likely to produce the indicated symptoms.
Refer to tube placement chart for location and type of tube.

POWER SUPPLY FAILURE

No raster, no sound - Selenium Rectifiers (M1 & M2)

LOSS OF PICTURE OR SOUND

No pic, no sound, has raster - V2, V3, V4, V5, V6
No pic, no sound, has snow - V1, V2, V3
No pic, has sound, has raster - V6, V16
Has pic, no sound - V7, V8, V9

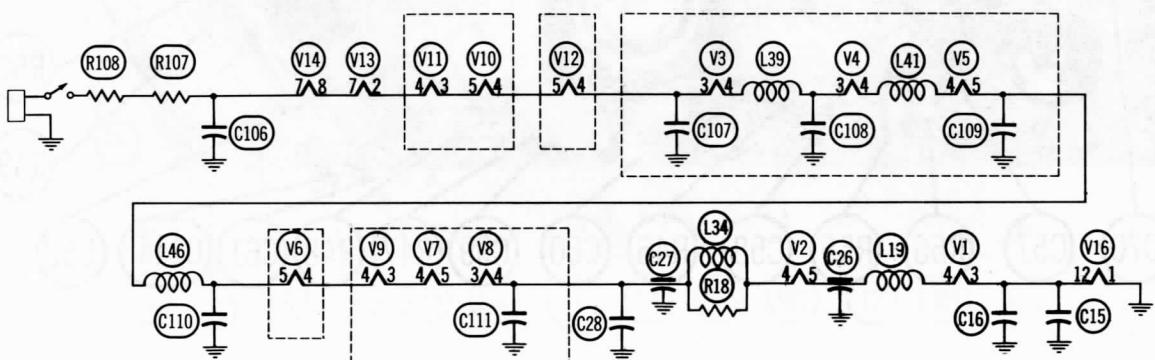
SYNC FAILURE

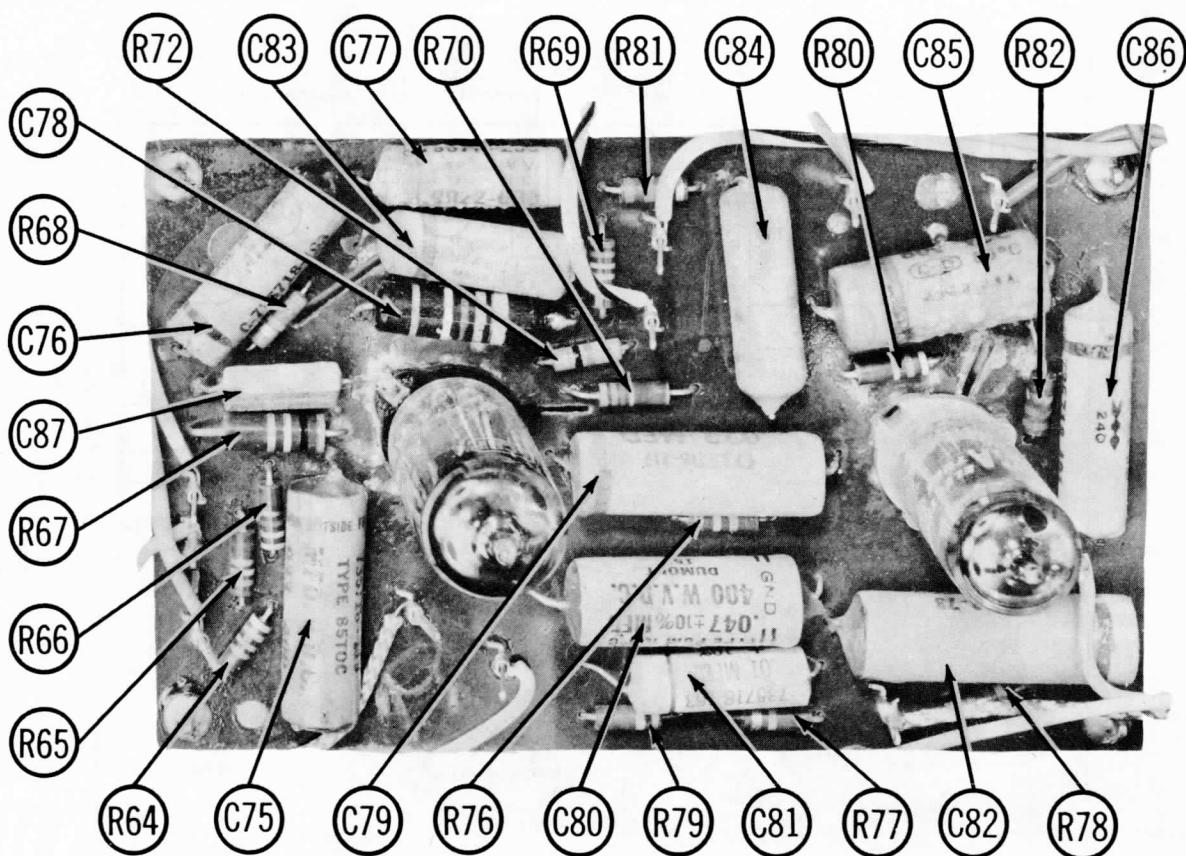
No vert, sync - V10, V11
No horiz, sync - V10, V12
No vert, or horiz, sync - V6, V10

SWEEP FAILURE

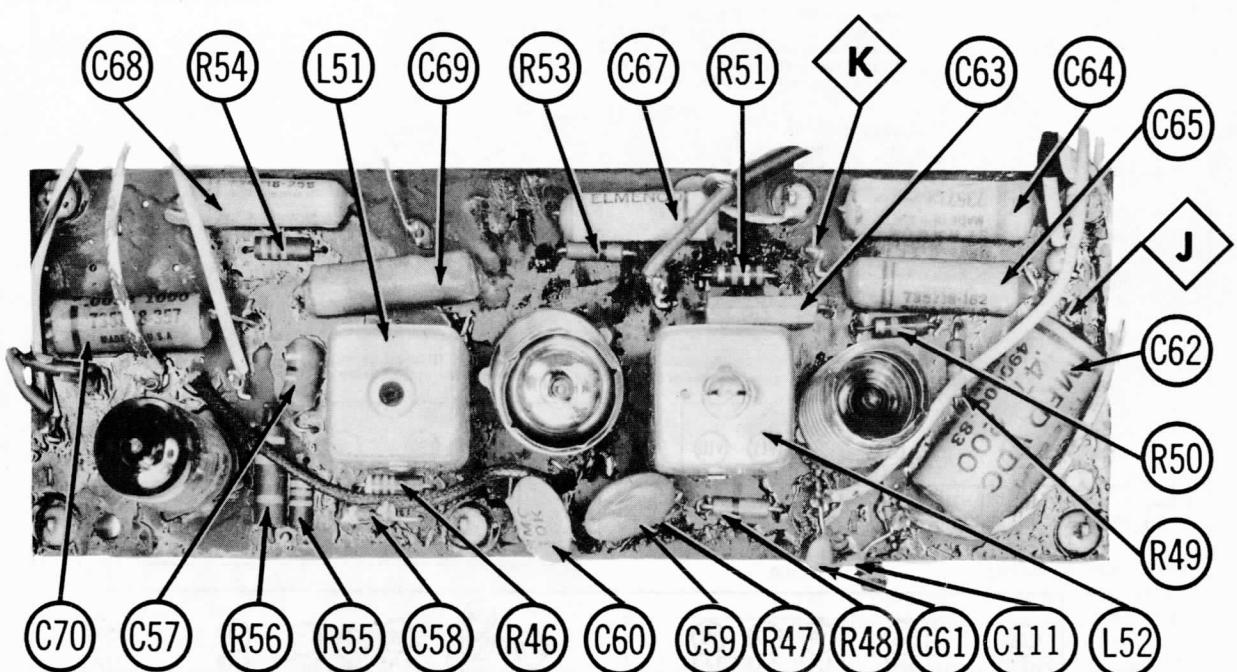
No raster, has sound - V12, V13, V14, V15, V16, Fuse (M1)
No vertical deflection - V10, V11
Poor vert. linearity or foldover - V10, V11
Poor horiz. linearity or foldover - V12, V13, V14
Narrow picture - V12, V13, V14, V15, M1, M2
Vert. off freq. - V10, V11
Horiz. off freq. - V10, V12

NOTE: Since this receiver employs tubes used in a series-parallel filament network, an open filament in any tube in series may cause the set to be inoperative. (See circuit below).





VERTICAL & SYNC UNIT SUB-CHASSIS



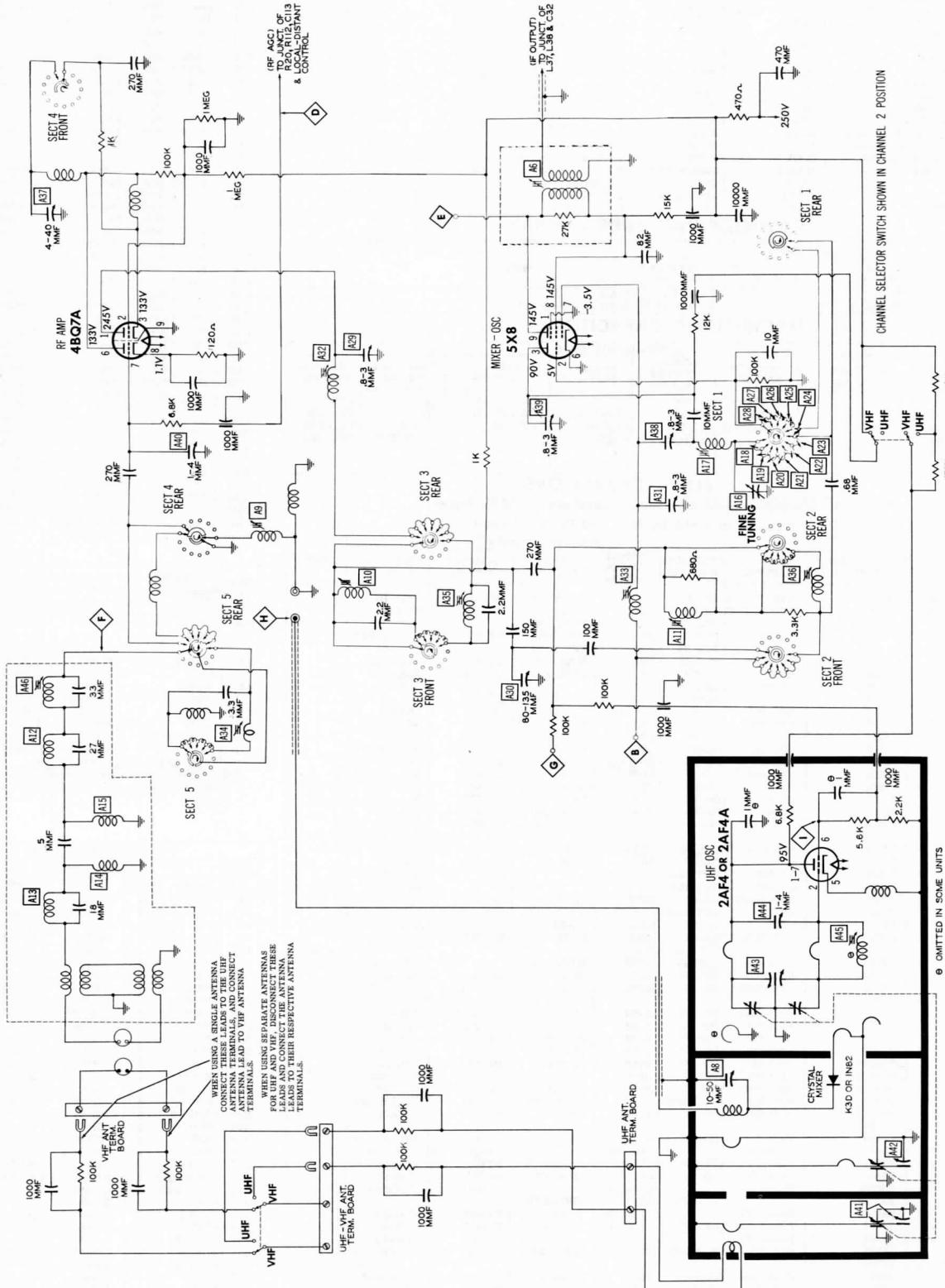
SOUND IF SUB-CHASSIS

RCA VICTOR MODELS 17-S-6025, U, 17-S-6027, U (Ch. KCS94, A)

UHF-VHF TUNER SCHEMATIC

UHF TUNER KRK 36A, AND VHF TUNER KRK 29K USED WITH CHASSIS KCS 94A

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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PARTS LIST AND

I AM
CAPACI

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	REPLACEMENT DATA		NOTES
		RCA Victor PART No.	STANDARD REPLACEMENT	
V1	RF Amplifier	3CB6	3CB6	
V2	Mixer-Oscillator	5U8	5U8	
V3	1st. Video IF Amplifier	3CF6	3CF6	
V4	2nd. Video IF Amplifier	3CB6	3CB6	
V5	3rd. Video IF Amplifier-			
	Video Detector	5AS8	5AS8	
V6	Video Output-			
	Sync Separator	6AW8	6AW8	
V7	Sound IF Amplifier-			
	AF Amplifier	5U8	5U8	
V8	Ratio Detector	3AL5	3AL5	
V9	Audio Output	5AQ5	5AQ5	
V10	Sync Amplifier-Vert. Mult.	6CG7	6CG7	
V11	Vert. Mult.-Vert. Output	5AQ5	5AQ5	
V12	Horiz. AFC-Horiz. Osc.	6CG7	6CG7	
V13	Horiz. Output	12BQ6GTB/ 12CU6	12BQ6GTB/ 12CU6	
V14	Damper	12AX4GTA	12AX4GTA	
V15	HV Rectifier	1X2B	1X2B	

CATHODE-RAY TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	RCA Victor PART No.	CBS PART No.	GENERAL ELECTRIC PART No.	SYLVANIA PART No.	
V16	17AVP4	17AVP4 17AVP4A (1)		17AVP4 17AVP4A(2)	(1) Aluminized (2) Silver screen "85"

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	RCA Victor PART No.	AEROVOX PART No.	CORNELL- DUBLIBUR PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1	150	200		AFH1S-37-25	XA007		TD-150-300	S-160	R2165
C2	150	350		E4A315	B033		TM-150-450	D-177	TVL-2635
C3A	▲100	350		AFH4-56-60	C152	FP227.6	TM-4122	Q-410	TVL-4632
B	■20	350	100044		BR2035	FP389.1		MTD-3520	TVA-1604
C	▲10	350				TC36			
D	20	50							

FIXED CAPACITORS

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

ITEM No.	RATING		REPLACEMENT DATA								NOTES
	CAP.	VOLT	RCA Victor PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.		
C4	1000	1000	100124	HVD-15-1000	DD-102	VD1	IR5KV-102	DC3021	10GA-D1		
C5	1000	1000	100124	HVD-15-1000	DD-102	VD1	IR5KV-102	DC3021	10GA-D1		
C6	18			TCZ-18	Z022	NPOK-180					
C7	5			TCZ-5	Z011	NPOA-050					
C8	27			TCZ-27	Z027	NPOL-270					
C9	33			TCZ-33	ZT18	NPOL-330					
C10	270		77838	NP0-SI33	TCZ-270	D6-271	TP41	GP2K-271	UC-5327	5TCC-B-V47	
C11	1000		77084	EF-001	MFT-1000						
C12	1-4		76532		829-4		3115-01-10	CT551			
C13	1000		77252	BPD-001	DD-102	K069	801-001	DC-521	5HK-D1		
C14	18		54207	NP0-SI20	TCZ-18	ZT12	NPOK-180		5TCC-Q2		
C15	1000		77252	BPD-001	DD-102	K069	801-001	DC-521	5HK-D1		
C16	470		77293	BPD-00047	DD-471	K060	831-471	UC-5347	5GA-T47		
C17	10000		73960	BPD-01	DD-103	K082	811-01	DC-511	5HK-S1		
C18	470		77293	BPD-00047	DD-471	K069	831-471	UC-5347	5GA-T47		
C19	270		77838	SI270	D6-271	TP41	GP2K-271	UC-5327	5GA-T27		
C20	270		77838	SI270	D6-271	TP41	GP2K-271	UC-5327	5GA-T27		
C21	390		75641	SI390	D6-391	TP44	GP2K-391	UC-5339	5GA-T39		
C22	1-4		76532		829-4		3115-01-10	CT551			
C23	2										
C24	10		77865	NP0-SI10	TCZ-10	TZ09	NP0A-100	ZT-541	5TCC-Q1		
C25	12		79710	SI12	D6-120	G019	GPIK-120	UC-5412	5GA-Q12		
C26	1000		77084	EF-001	MFT-1000						
C27	1000		77084	EF-001	MFT-1000						
C28	470		77293	BPD-00047	DD-471	K060	831-471	UC-5347	5GA-T47		
C29	1000		77084	EF-001	MFT-1000						
C30	82		78603	SI82	D6-820	G040	801-820		503C-D1		
C31	100		79735	BPD-0001	DD-101	G042	811-101	UC-531	5GA-Q82		
C32	39								5GA-T1		
C33	15		39044	N750-SI15	TCN-15	TN03	N750K-150		5TCU-Q15		
C34	1000		77252	BPD-001	DD-102	K069	801-001	DC-521	5HK-D1		
C35	470		78622	BPD-00047	DD-471	K060	831-471	UC-5347	5GA-T47		
C36	.39	200	79318								Note ..
C37	470		77293	BPD-00047	DD-471	K060	831-471	UC-5347	5GA-T47		
C38	1000		78623	BPD-001	DD-102	K069	801-001	DC-521	5HK-D1		
C39	1000		77252	BPD-001	DD-102	K069	801-001	DC-521	5HK-D1		
C40	1000		77252	BPD-001	DD-102	K069	801-001	DC-521	5HK-D1		
C41	1000		78623	BPD-001	DD-102	K069	801-001	DC-521	5HK-D1		
C42	220		100672	BPD-00022	DD-221	G051	811-221	UC-5322	5GA-T22		
C43	4700		73473	BPD-0047	DD-472	K079	811-0047	DC-525	5HK-D47		
C44	3		101200	NP0-SI3	TCZ-3R3	TZ06	NP0A-030	ZT-553	5TCB-V33		
C45	1000		78623	BPD-001	DD-102	K069	801-001	DC-521	5HK-D1		
C46	8		78228								
C47	10000		73960	BPD-01	DD-103	K082	811-01	DC-511	5HK-S1		
C48	.47	200	73787	P288N-47		CUB2P47		PT4047	2TM-P47		
C49	.1	200	73784	P288N-1	DF-104	CUB2P1		PT401	2TM-P1		
C50	1000	500	53300	BPD-001	DD-102	IW5D1	GP2L-102	MC255	1FM-21		
C51	.47	200	100299	P288N-47		CUB2P47		PT4047	2TM-P47		
C52	27		100352		TCZ-27	ZT16	NPOL-270				
C53	.22	600	100346	P688N-25		CUB6P25		PT6022	6TM-P25		
C54	.047	200	73558	P288N-047	DF-503	CUB2S47		PT4147	2TM-S47		
C55	.22	400	73562	P468N-22		CUB4P22		PT4022	4TM-P22		
C56	3		76507	NP0-SI3	TCZ-3R3	TZ06	NP0A-030	ZT-553	5TCB-V33		
C57	39		100350								
C58	56		79324	N750-SI156	TCN-56	TN16	N750K-560		5TCU-Q56		
C59	10000		73960	BPD-01	DD-103	K082	811-01	DC-511	5HK-S1		
C60	10000		73960	BPD-01	DD-103	K082	811-01	DC-511	5HK-S1		
C61	1000		77252	BPD-001	DD-102	K069	801-001	DC-521	5HK-DL		
C62	.47	200	79148	P288N-47		CUB2P47		PT4047	2TM-P47		
C63	1000	500	39652	SI1000	D6-102	IW5D1	GP2L-102	MC255	1FM-21		
C64	.0027	600		SI2700	D6-272	TP59	GP2-333-272	UC-5227	5GA-D27		
C65	.0082	400									
C66	.01	200	79316	BPD-01	DD-103	CUB4S1	GP3-333-103	PT411	4TM-S1		
C67	.01	200	79014	BPD-01	DD-103	CUB4S1	GP3-333-103	PT411	4TM-S1		
C68	.0027	600	73599	SI2700	D6-272	TP59	GP2-333-272	UC-5227	5GA-D27		
C69	.01	400		BPD-01	DD-103	CUB4S1	GP3-333-103	PT411	4TM-S1		
C70	.0033	1000		HVD-15-3300	DD-302	CUB16D33	IR5KV-332	PT16233	MB-D33		

ITEM No.	RATING		RCA Victor PART No.	AEROVOX PART No.	CENTRAL PART No.
	CAP.	VOLT			
C71	4700		73473	BPD-0047	DD-472
C72	.1	400	77423	P488N-1	DF-104
C73	330	500	39640	SI330	D6-331
C74	330	500	39640	SI330	D6-331
C75	.033	400	73552	BPD-03	DF-203
C76	.01	400	73561	BPD-01	DD-103
C77	.0022	600	73595	SI2200	D6-222
C78	.0047	600	73920	1464-0047	
C79	.022	600	73798	BPD-02	DD-203
C80	.047	400	73553	BPD-05	DF-503
C81	.01	400	73561		
C82	.068	400	79016		
C83	.0039	400	79018	1464-0039	
C84	.015	200	79530		
C85	.027	600	100303		
C86	.001	1600	73849	HVD-30-1000	DD30-1000
C87	220	500	39636	SI220	D6-221
C88	82	1000	76747		
C89	68	1000	76745	HVD-15-68	DD-680
C90	.1	400	73551	P488N-1	DF-104
C91	.022	400	79932	BPD-02	DD-203
C92	.47	200	100299	P288N-47	
C93	330	1000	76746		
C94	.01	600	73594		
C95	.0012	600	76995	1464-0012	
C96	470	1000		HVD-15-470	DD-471
C97	.1	600	73557	P688N-1	DF-104
C98	.27	200	73786		
C99	270	1000	79022	HVD-15-270	DD-271
C100	.047	1000	73597	P1088N-047	
C101	.1	400	73551	P488N-1	DF-104
C102	.1	400	73551	P488N-1	DF-104
C103	150	2500	100453	HVD-30-150	DD30-150
C104	150	2500	100453	HVD-30-150	DD30-150
C105	150			HVD-30-150	DD30-150
C106	56		71924	SI56	D6-560
C107	1000		77252	BPD-001	DD-102
C108	1000		77252	BPD-001	DD-102
C109	1000		77252	BPD-001	DD-102
C110	470		77293	BPD-00047	DD-471
C111	1000		77252	BPD-001	DD-102
C112	10000		100910	BPD-001	DD-102
C113	.22	200	78905	P288N-22	

Note 1. Not used in some versions.

Note 2. Used in chassis KCS94A.

ITEM No.	RATING		REPLACEMENT		
	RESIST- ANCE	WATTS	RCA VICTOR PART No.	CENTRALAB PART No.	CLAROSTAT PART No.
R1A B	3000Ω 1Meg	1/2W	100292		
R2A B	1.5Meg Shaft	1/2W	100831 Not Req.	AB-742 AK-3	A47-1.5Meg FS-3
R3A B	200KΩ Shaft	1/2W	100830 Not Req.	B-46 Not Req.	A47-200KΩ FS-3
R4A B	5Meg Shaft	1/2W	100832 Not Req.	AB-87 AK-4	A47-5Meg KSS-3
R5A B	2.5Meg Shaft	1/2W	100833 Not Req.	AB-83 AK-4	A47-2.5Meg KSS-3
	7.5Meg	1/2W	100292		

Note 1. This control used in Chassis KCS94A only.

Note 1. This control used in Chassis KCS94A only.
◆ Concentrikit Equivalent: K-6 Kit, Base Elements and Shafts

CONT

ITEM No.	RATING		REPLACEMENT DATA		NOTES
			RCA Victor PART No.	IRC PART No.	
R6	100KΩ		502410	BTS-100K	
R7	100KΩ		502410	BTS-100K	
R8	22KΩ		502322	BTS-22K	
R9	56KΩ		502356	BTS-56K	
R10	47KΩ		512347	BTA-1000	
R11	1000Ω		502210	BTS-1000	
R12	47Ω		502047	BTS-47	
R13	100KΩ		502410	BTS-100K	
R14	100KΩ		502410	BTS-100K	
R15	2700Ω		502227	BTS-2700	
R16	100KΩ		502410	BTS-100K	
R17	5600Ω		502256	BTS-5600	
R18	12Ω		502112	BTS-12Ω	
R19	47Ω		502147	BTS-47Ω	
R20	1000Ω		502210	BTS-1000	
R21	5600Ω 5%		502156	BTS-5600 5%	Note 2
R22	1000Ω		502210	BTS-1000	
R23	47KΩ 5%		502347	BTS-47K 5%	
R24	47KΩ		502347	BTS-47K	
R25	680Ω		502168	BTS-680	
R26	390Ω		30498	BTS-390	
R27	47Ω 5%		502047	BTS-47 5%	
R28	150KΩ 5%		502415	BTS-150K 5%	
R29	150KΩ 5%		502415	BTS-150K 5%	
R30	68Ω		502168	BTS-68Ω	
R31	18Ω 5%		502018	BTS-18 5%	
E32	47Ω		502147	BTS-47Ω	
R33	130Ω 5%		502113	BTS-130 5%	
R34	47Ω 5%		502047	BTS-47 5%	
R35	3900Ω 5%		502239	BTS-3900 5%	
R36	68KΩ		502368	BTS-68K	
R37	680KΩ		502468	BTS-680K	
R38	1M eg		502510	BTS-1Meg	
R39	2200Ω		502222	BTS-2200	
R40	33KΩ		502333	BTS-33K	
R41	5600Ω	2	522256	BTB-5600	
R42	56KΩ	1	512356	BTA-56K	
R43	3300Ω		502233	BTS-3300	
R44	22KΩ		502322	BTS-22K	
R45	150KΩ		502415	BTS-150K	
R46	47KΩ		502347	BTS-47K	
R47	12KΩ		502312	BTS-12K	

PARTS LIST AND DESCRIPTIONS

CAPACITORS (cont)

NOTES		

ITEM No.	SANGAMO PART No.	SPRAGUE PART No.
0-300	S-160	R2165
50-450	D-177	TVL-2635
Q-410	TVL-4632	
122	MTD-3520	TVA-1604

d. for Paper
capacitors.

ITEM No.	SPRAGUE PART No.	NOTES
DC3021	10GA-D1	
DC3021	10GA-D1	

ITEM No.	SPRAGUE PART No.	NOTES
ZT-555	5TCC-B-V47	
ZT-5433	5TCC-Q33	
UC-5327	5GA-T27	
	503C-D1	
CT551	5HK-D1	
DC-521	5TCC-Q2	
DC-521	5HK-D1	
UC-5347	5GA-T47	
DC-521	5HK-S1	
UC-5347	5GA-T47	
UC-5327	5GA-T27	
UC-5327	5GA-T27	
UC-5339	5GA-T39	
CT551		

ITEM No.	SPRAGUE PART No.	NOTES
DC3021	10GA-D1	
DC3021	10GA-D1	
ZT-555	5TCC-B-V47	
ZT-5433	5TCC-Q33	
UC-5327	5GA-T27	
	503C-D1	
CT551	5HK-D1	
DC-521	5TCC-Q2	
DC-521	5HK-D1	
UC-5347	5GA-T47	
DC-521	5HK-S1	
UC-5347	5GA-T47	
UC-5327	5GA-T27	
UC-5327	5GA-T27	
UC-5339	5GA-T39	
CT551		

Note 1. Not used in some versions.
Note 2. Used in chassis KCS94A.

ATA

MALLORY PART No.

SPRAGUE PART No.

NOTES

RCA VICTOR MODELS 17-PT-6962, U, 17-S-6022, U, 17-S-6025, U (Ch. KCS94, A)

DESCRIPTIONS ORS (cont)

REPLACEMENT DATA			
CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.
K079	81L-0047	DC-525	5HK-D47
CUB4P1		PT401	4TM-P1
5W5T33	GP2K-331	UC-5333	1FM-333
5W5T33	GP2K-331	UC-5333	1FM-333
CUB6S33		PT6133	6TM-S33
CUB4S1	GP3-333-103	PT411	4TM-S1
CUB6D22	GP2-333-222	PT6222	6TM-D22
IR5D47		MCB465	MS-247
CUB6S22	817-02	PT6122	6TM-S22
CUB4S47		PT4147	4TM-S47
IR5D39		MCB463	MS-239
CUB16DI	IR5KV-102	PT1621	MB-D1
5W5T22	GP2K-221	UC-5322	1FM-322
VQ68	IR5KV-680	MCL482	10GA-Q82
CUB4P1		MCL468	10GA-Q68
CUB4S22	817-02	PT401	4TM-P1
CUB2P47		PT4122	4TM-S22
		PT4047	2TM-P47
IR5D12	81L-122	MCK347	MS-212
VT47	IR5KV-471	PT601	10GA-T47
P688N-1			6TM-P1
VT27		MCK327	10GA-T27
CUB16S47		PT1647	MB-S47
CUB4P1		PT401	4TM-P1
CUB4P1		PT401	4TM-P1
V3T15	3KV-151		30GA-T15
V3T15	3KV-151		30GA-T15
V3T15	3KV-151		30GA-T15
TP31	GPIK-560	UC-5456	5GA-Q56
K069	801-001	DC-521	5HK-D1
K069	801-001	DC-521	5HK-D1
K069	801-001	DC-521	5HK-D1
K069	801-001	UC-5347	5GA-T47
K069	801-001	DC-521	5HK-D1
K069	801-001	DC-521	5HK-D1
CUB2P22		PT4022	2TM-P22

Note 2

RODS

DATA		
IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
QJ-862 +	UE413S	Contrast (Panel) Tap at 2850Ω Volume & Switch (Rear) Tap at 250KΩ
S QJ1-L38	TA155L	Vertical Hold
Not Req.	Not Req.	Attach to R2A.
QJ1-129	U-43	Brightness
Not Req.	Not Req.	Attach to R3A.
QJ1-141	TA55L	Height
Not Req.	Not Req.	Attach to R4A.
QJ1-239	TA255L	Vertical Linearity
Not Req.	Not Req.	Attach to R5A. Local Distant-See Note 1

B17-112X, P17-105 (Panel)
B13-137X, R1-118 (Rear)
76-1 (Switch)

ORS

ITEM No.	REPLACEMENT DATA		NOTES
	RCA Victor PART No.	IRC PART No.	
R48	1000Ω	502210	BTS-1000
R49	10KΩ 5%	502310	BTS-10K 5%
R50	10KΩ 5%	502310	BTS-10K 5%
R51	39KΩ	502339	BTS-39K
R52	47KΩ	502347	BTS-47K
R53	10Meg	502610	BTS-10Meg
R54	330KΩ	502433	BTS-330K
R55	470KΩ	502447	BTS-470K
R56	470Ω	512447	BTA-470
R57	1800Ω	522218	BTB-1800
R58	470KΩ	502447	BTS-470K
R59	18KΩ	502318	BTS-18K
R60	270KΩ	502427	BTS-270K
R61	1.5Meg	502515	BTS-1.5Meg
R62	1.5Meg	502515	BTS-1.5Meg
R63	390KΩ	502439	BTS-390K
R64	33KΩ	502333	BTS-33K
R65	560KΩ	502456	BTS-560K
R66	3300Ω 5%	502333	BTS-3300 5%
R67	10KΩ	512310	BTA-10K
R68	22KΩ	502322	BTS-22K
R69	18KΩ	502318	BTS-18K
R70	6.8Meg	502568	BTS-6.8Meg
R71	470KΩ	502447	BTS-470K
R72	1Meg	502510	BTS-1Meg
R73	3.9Meg	502539	BTS-3.9Meg
R74	1Meg	502510	BTS-1Meg
R75	470KΩ	502447	BTS-470K
R76	18KΩ 5%	502318	BTS-18K 5%
R77	15KΩ	502315	BTS-15K
R78	8200Ω	502282	BTS-8200
R79	150KΩ	502415	BTS-150K
R80	470KΩ	502447	BTS-470K
R81	22KΩ	502322	BTS-22K
R82	22KΩ	502322	BTS-22K
R83	150Ω	512115	BTA-150
R84	560Ω		
R85	560Ω		
R86	220KΩ	502422	BTS-820K
R87	330KΩ	502433	BTS-100K 5%
R88	820KΩ	502482	
R89	100KΩ 5%	502410	BTS-100K 5%

Note 1

Note 1

RESISTORS (cont)

ITEM No.	RATING		REPLACEMENT DATA	NOTES	ITEM No.	RATING		REPLACEMENT DATA	NOTES
	OHMS	WATT				RCA Victor PART No.	IRC PART No.		
R90	82KΩ	1/2W	502382	BTS-82K	R103	4700Ω	1/2W	502247	
R91	3900Ω	1/2W	502239		R104	1.8Ω 5%	1/2W	100305	
R92	150KΩ 5%	1/2W	512415	BTA-150K 5%	R105	1000Ω	1/2W	502210	
R93	6.8Meg	1/2W	502568		R106	4000Ω	1/2W	77668	
R94	47KΩ	1/2W	502347	BTS-47K	R107	38Ω	1/2W	100304	
R95	820KΩ	1/2W	502482	BTS-820K	R108	450Ω	1/2W	100118	
R96	39KΩ	1/2W	512336	BTS-39K					Note 4
R97	1Meg	1/2W	502510	BTS-1Meg					
R98	47Ω	1/2W	502047	Cold					
R99	6800Ω	1/2W	522268	9.5Ω Hot					
R100	100Ω	1/2W	74015	BW2-100	R109	5.6Ω	1/2W	100117	
R101	270KΩ	1/2W	502427	BTS-270K	R110	470KΩ	1/2W	502447	
R102	68KΩ	1/2W	502368	BTS-68K	R111	1.8Meg	1/2W	502518	
					R112	560KΩ	1/2W	502456	

Note 1. Not used in some versions.

Note 2. Some versions use a 1000Ω 1/2W resistor in this application (Mfg. Part No. 502210).

Note 3. Some versions use a 22KΩ 1/2W resistor in this application (Mfg. Part No. 502322).

Note 4. Temperature Compensating.

Note 5. Used in Chassis KCS94A only.

Note 6. Used in Chassis KCS94 only.

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							
		RCA Victor PART No.	Hallidson PART No.	Merit PART No.	RCA TYPE No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
T1	Horiz. Output Trans.	100828	FB419①	HVO-36 *①	X094 *①	A-8255 *①	FLY-16 *①	D-50 *①	
T2	Vert. Output Trans.	100834	Z1900②③	A-2823②	V307②	A-8145②	26573	A-108X②	
T3A	Yoke (90°) Horiz. (18.5MH)	100586④	DF607⑤	MDF-92⑤	Y90F19/43	DY-16A⑤	Y-41-1⑤		
T4	Vert. (38MH) Width Coll. (2.2-18MH)	79144	RF800⑥⑦	MWC-11	20IR16	WC-8	WC-18⑥	WC-12⑧	

- ① Drill new mounting hole(s).
- ② Connect as auto transformer.
- ③ Use 9 to 1 turns ratio.
- ④ Includes capacitor C105, resistors R84, R85, 8 contact plugs, RCA part #100477.
- ⑤ Connect horizontal damping network across terminals #3 and #7. Use original if necessary.
- ⑥ Enlarge mounting hole.
- ⑦ Connect to terminals coded #1 and #2.
- ⑧ Connect to terminals coded red and blue.

*HORIZONTAL OUTPUT TRANSFORMER CONNECTION DATA

Use Original Width Coil Unless Replacement Type Is Listed

	ORIGINAL TERMINAL CONNECTIONS	Hallidson Replacement Connections	Merit Replacement Connections	RCA Replacement Connections	Ram Replacement Connections	Stancor Replacement Connections	Thordarson Replacement Connections	Triad Replacement Connections
	5	9	9	9	5	9	9	9
	4	7	7	7	4	7	7	7
	3	5	5	5	4	5	5	5
	2	3	3	3	2	3	3	3
	1	1	1	1	1	1	1	1
Connect Width Coil Across	2 & 1	3 & 1	3 & 1	3 & 1	2 & 1	3 & 1	3 & 1	3 & 1

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA				NOTES
		RCA Victor PART No.	QUAM PART No.	RCA TYPE No.	NOTES	
SP1	4"	PM	3.5Ω	79696	4A07	223SI

ITEM No.	USE	DC RES.		RCA Victor PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	NOTES
		PRI.	SEC.					
L1	Ant. Match.	.6Ω	.3Ω	100454				Note 1
L2	Ant. Match.	.6Ω	.3Ω	100454				Note 1
L3	IF Trap	0Ω						Note 1
L4	Ant. Shunt	0Ω						Note 1
L5	Ant. Shunt	0Ω						Note 1
L6	IF Trap	0Ω						Note 1
L7	FM Trap	0Ω						Note 1
L8	RF Choke	0Ω						Note 2
L9	Ant. Coil	0Ω						Channel 2 - Note 2
L10	Ant. Coil	0Ω		79728				Channel 3 - Note 2
L11	Ant. Coil	0Ω		79716				Channel 4 - Note 2
L12	Ant. Coil	0Ω		79714				Channel 5 - Note 2
L13	Ant. Coil	0Ω		73461				Channel 6 - Note 2
L14	Ant. Coil	0Ω		79727				Channel 8 - Note 2
L15	Ant. Coil	0Ω		71469				Channel 9 - Note 2
L16	Ant. Coil	0Ω		79713				Channel 10 - Note 2
L17	Ant. Coil	0Ω		71472				Channel 11 - Note 2
L18	Ant. Coil	0Ω		79712				Channel 12 - Note 2
L19	Fil. Choke	0Ω		73477				
L20	RF Coil	0Ω		79731				
L21	RF Coil	0Ω		79727				
L22	RF Coil	0Ω		79717				
L23	RF Coil	0Ω						
L24	RF Coil	0Ω		73460				
L25	RF Coils	0Ω						
L								

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (cont)

ITEM No.	USE	DC RES.		REPLACEMENT DATA				NOTES
		PRI.	SEC.	RCA Victor PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L28	Mixer Grid Coil	0Ω		79715				Channel 3 - Note 4
L29	Mixer Grid Coil	0Ω		71469				Channel 4 - Note 4
L30	Mixer Grid Coil	0Ω		79729				Channel 5 - Note 4
L31	Mixer Grid Coil	0Ω						Channel 6 - Note 4
L32	Mixer Grid Coils	0Ω						Channels 7 thru 12 - Note 4
L33	Mixer Grid Coil	0Ω		73461				Channel 13 - Note 4
L34	Fil. Choke			79720				
L35	Osc. Coils	0Ω		79722				Note 5
L36	Conv. Plate	.2Ω	.1Ω	79734				Includes 27KΩ resistor
L37	47.25MC Trap							
L38	1st. Video IF	.1Ω		78204				
L39	Fil. Choke	.2Ω	.2Ω	78203	17-4523	TV-153 TV-130	6225 6219	
L40	2nd. Video IF	.9Ω	.9Ω					
L41	Fil. Choke	0Ω						
L42	3rd. Video IF	.9Ω	.9Ω					
L43	4th. Video IF	.8Ω	.8Ω					
L44	Series Peaking Coll	3Ω		100359	19-3036	TV-180	6176	36 Microhenries
L45	Shunt Peaking Coll	12.5Ω		100360	19-3300			
L46	Fil. Choke	0Ω		73477	19-3001	TV-189	6155 4604	300 Microhenries
L47	4.5MC Trap	3.7Ω		100358	20-1004	TV-151	1469	
L48	Series Peaking Coll	1Ω		100361	19-3300 *		6155 *	300 Microhenries, wound on 6.8KΩ resistor
L49	Shunt Peaking Coll	17Ω		100362	19-3500		6174	510 Microhenries
L50	Shunt Peaking Coll	1Ω		100363	19-3500 ■		6174 ■	510 Microhenries, wound on 1.8KΩ resistor
L51	Sound IF	2.4Ω		101220	17-1031		1470	
L52	Ratio Det.	10Ω	.8ΩCT	101219				
L53	RF Choke	.72Ω		76640	19-1001		4604	Tertiary winding -.6Ω 1.5 Microhenries

* Parallel with 6.8KΩ resistor.

■ Parallel with 1.8KΩ resistor.

Note 1. Part of complete assembly - includes L1 thru L7 and C6 thru C9. Complete assembly part #100454.

Note 2. Part of complete assembly - includes stator complete with rotor, L8 thru L18 and C10. Complete assembly part #79724.

Note 3. Part of complete assembly - includes stator complete with rotor, L20 thru L26, C19 and R12. Complete assembly part #79726.

Note 4. Part of complete assembly - includes stator complete with rotor, L27 thru L33, C20, C23, R14, R15 and R16. Complete assembly part #79723.

Note 5. Complete assembly - includes stator complete with rotor and coils.

TRANSFORMER (HORIZ. OSC.)

ITEM No.	DC RES.		REPLACEMENT DATA						NOTES	
	PRI.	SEC.	RCA Victor PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	RCA TYPE No.	Ram PART No.	Thordarson PART No.	
L54	87Ω		79966A							Tapped @ 62Ω - Horiz. Osc. Horiz. Waveform
L55	48Ω		100300							

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 C)	RCA Victor PART No.	Haldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
L56	.250ADC	49.4Ω	.89HY	100286	C5037 ①	C-2996 ①	C-2326 ①	26C44 ①	C-17X ①

① Drill one new mounting hole.

SELENIUM RECTIFIER

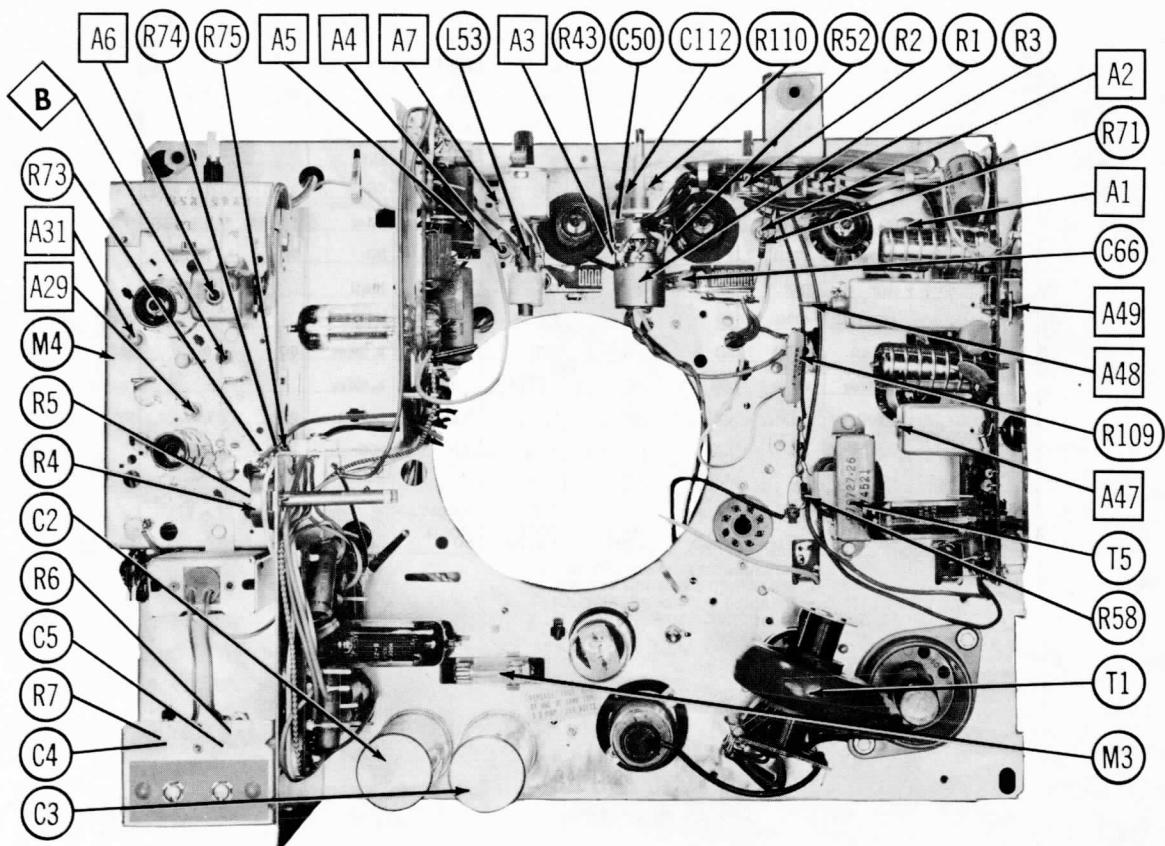
ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CURRENT	RCA Victor PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	MALLORY PART No.	RADIO RECEPTOR PART No.	SARKES TARZIAN PART No.	Thordarson PART No.	
M1	.250ADC	100035	I236A	MR300	6S300	6Q4	300		
M2	.250ADC	100035	I236A	MR300	6S300	6Q4	300		

FUSES

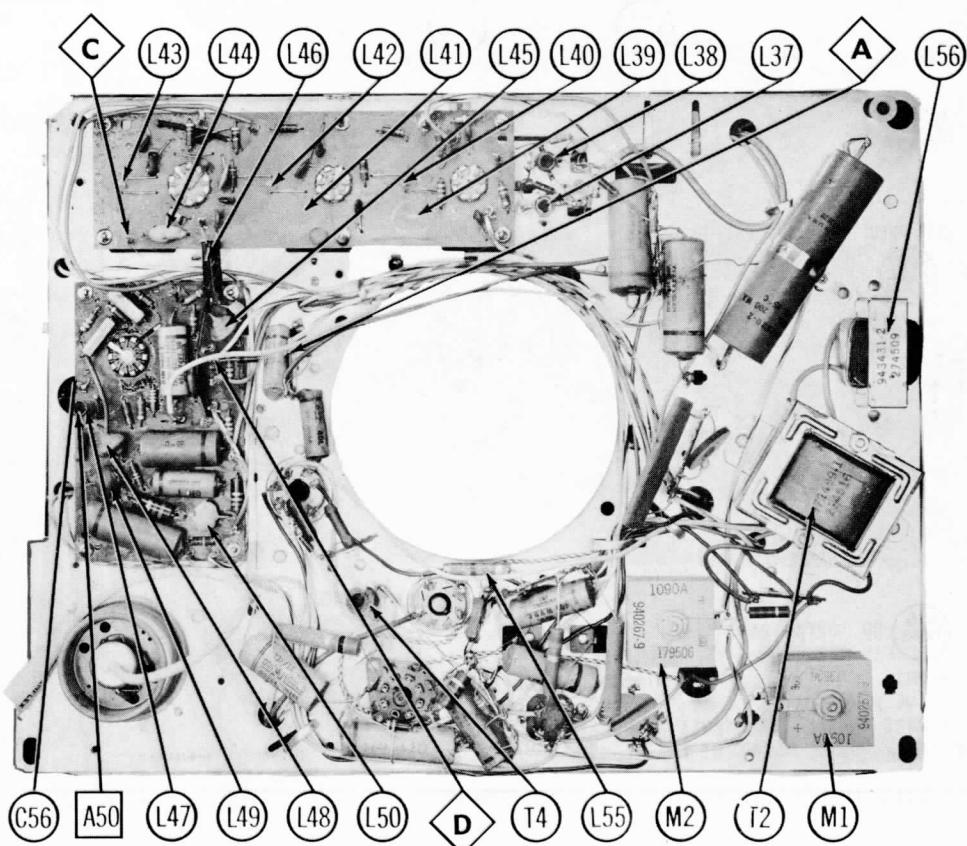
ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			RCA Victor PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M3	3AG	3/10A 250V	78214	78218	312.300 (3AG 3/10A)	357001	AGC 3/10	4405

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M4	Tuner	KRK32B	VHF - Chassis KCS94
	Tuner	KRK29K	VHF - Chassis KCS94A
M5	Tuner	KRK36A	UHF - Chassis KCS94A
M6	Switch	100619	VHF-UHF (Slide type) Chassis KCS94A
M7	Centering Device	100585	
M8	Ion Trap	76141	
A5	Trimmer Cap.	100835	Video IF Input Trimmer (5-70MMF)
B2	Trimmer Cap.	71807	Horiz. Drive (0-160MMF)
	Safety Glass	101026	



CHASSIS TOP VIEW



CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

RESISTANCE MEASUREMENTS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	3CB6	750KΩ	47Ω	2Ω	3Ω	† 1.5KΩ	† 30KΩ	0Ω		
V 2	5U8	† 6.1KΩ	100KΩ	INF	4Ω	3Ω	INF	0Ω	INF	INF
V 3	3CF6	750KΩ	47Ω	12Ω	11Ω	▲ 680Ω	▲ 680Ω	0Ω		
V 4	3CB6	90KΩ	▲ 18Ω	11Ω	10Ω	† 750Ω	† 150Ω	INF		
V 5	5AS8	† 4.5KΩ	.9Ω	180Ω	10Ω	9Ω	3.9KΩ	0Ω	47Ω	† 4.5KΩ
V 6	6AW8	0Ω	3Meg	† 390KΩ	7Ω	9Ω	33Ω	1Meg	† 56KΩ	† 5.6KΩ
V 7	5U8	† 330KΩ	47KΩ	† 17KΩ	6Ω	5Ω	† 5KΩ	0Ω	0Ω	10Meg
V 8	3AL5	INF	INF	5Ω	4Ω	10KΩ	0Ω	10KΩ		
V 9	5AQ5	470KΩ	470Ω	6Ω	7Ω	† 2.2KΩ	† 1.8KΩ	470KΩ		
V 10	6CG7	† 18KΩ	33KΩ	0Ω	14Ω	15Ω	▲ 1.8Meg	2.5Meg	0Ω	0Ω
V 11	5AQ5	2.5Meg	0Ω	15Ω	17Ω	† 580Ω	† 200Ω	2.5Meg		
V 12	6CG7	† 50Ω	1.3Meg	180KΩ	12Ω	14Ω	† 39KΩ	250KΩ	0Ω	0Ω
V 13	12BQ6GTB 12CU6	NC	17Ω	NC	† 6.8KΩ	1Meg	TP	20Ω	100Ω	TOP CAP ▲ 18Ω
V 14	12AX4GTA	NC	NC	850KΩ	NC	† 50Ω	NC	22Ω	20Ω	
V 15	IX2B	PINS	1 - 9	HAVE	INF	RESISTANCE				
V 16	17AVP4	0Ω	22KΩ	PIN 6 † 4KΩ	PIN 10 ▲ 350KΩ	PIN 11 † 200KΩ	PIN 12 2M			TOP CAP ▲ 370Ω

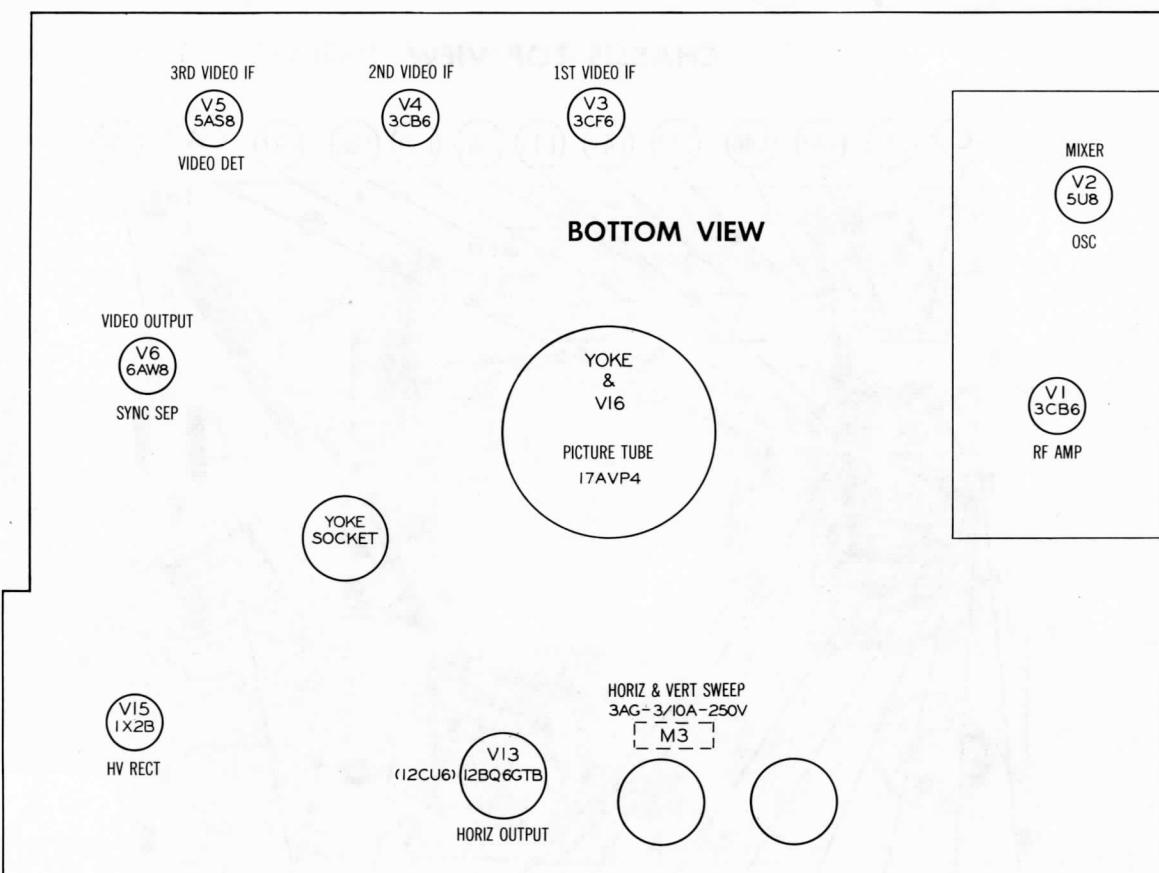
† MEASURED FROM OUTPUT OF M2.

▲ MEASURED FROM PIN 7 OF V4.

■ MEASURED FROM PIN 3 OF V14.

NC-NO CONNECTION.

TP-TIE POINT.



TUBE PLACEMENT CHART

HORIZ. OSCILLATOR SUB-CHASSIS

