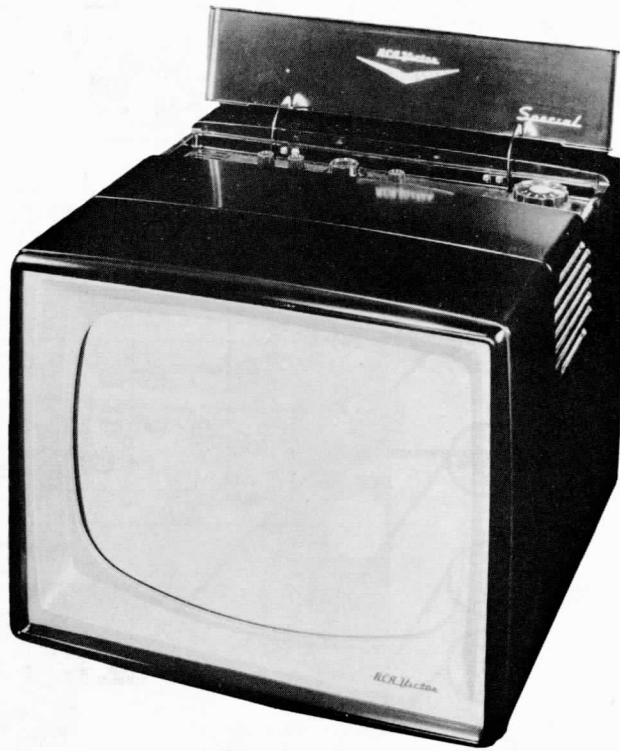




DISASSEMBLY INSTRUCTIONS

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.



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

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 (B1).

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).

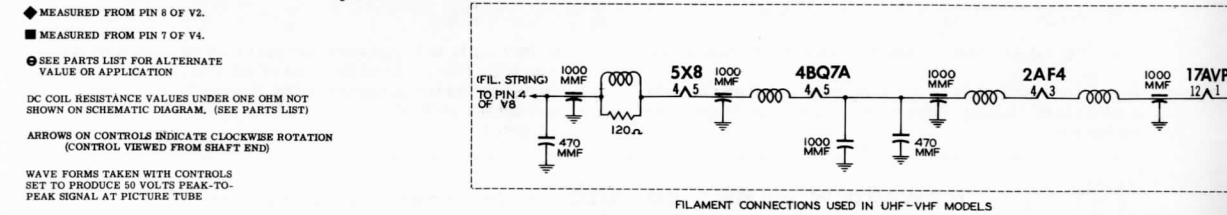
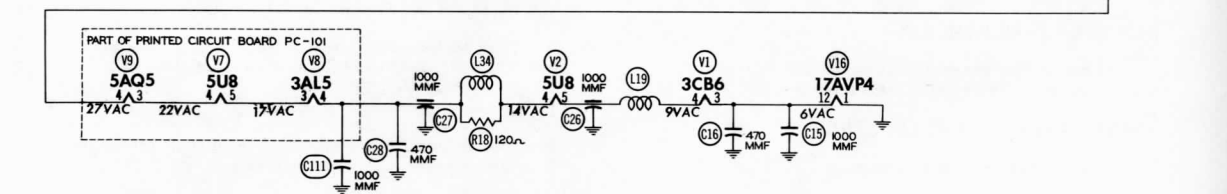
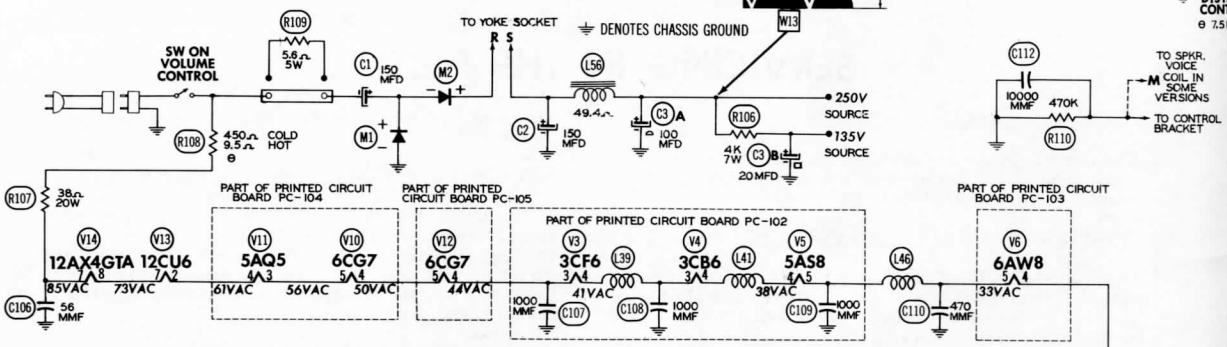
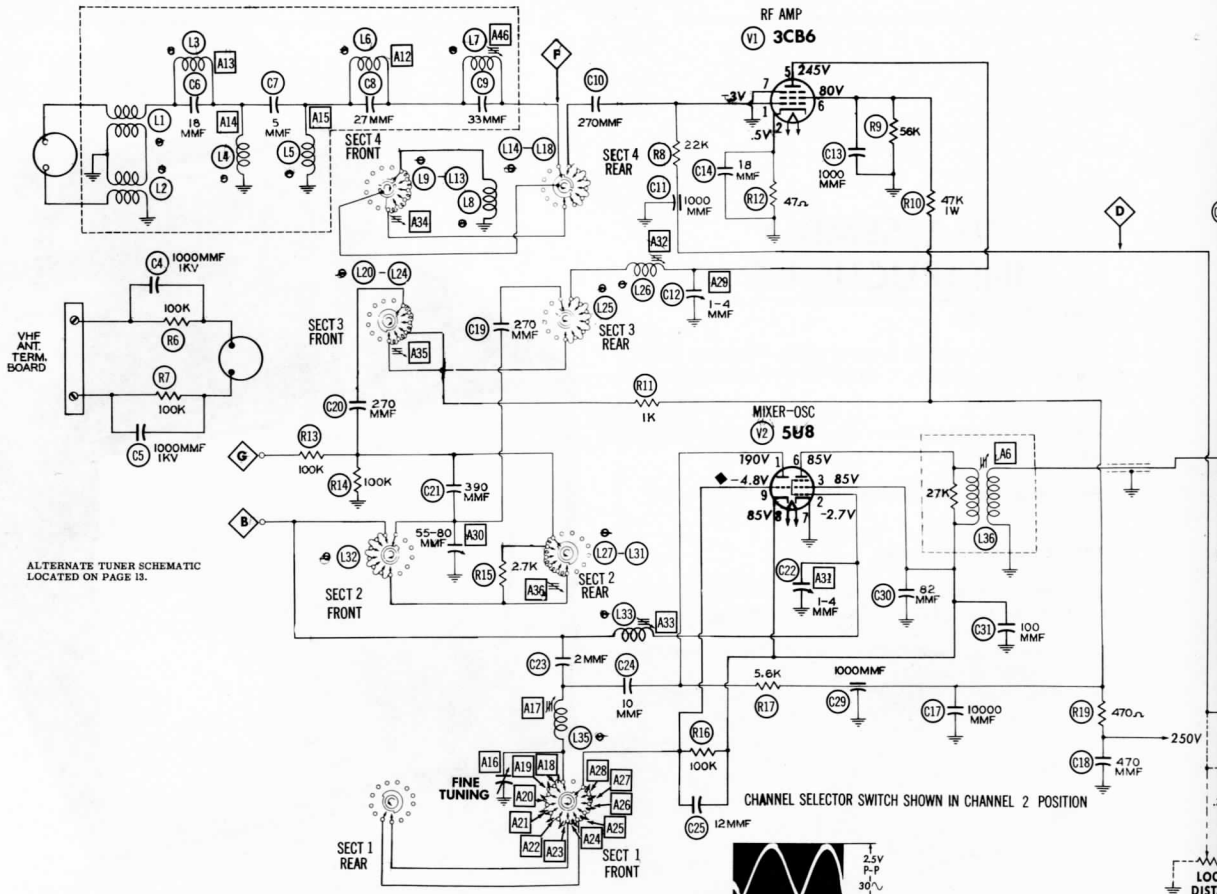
CENTERING

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.

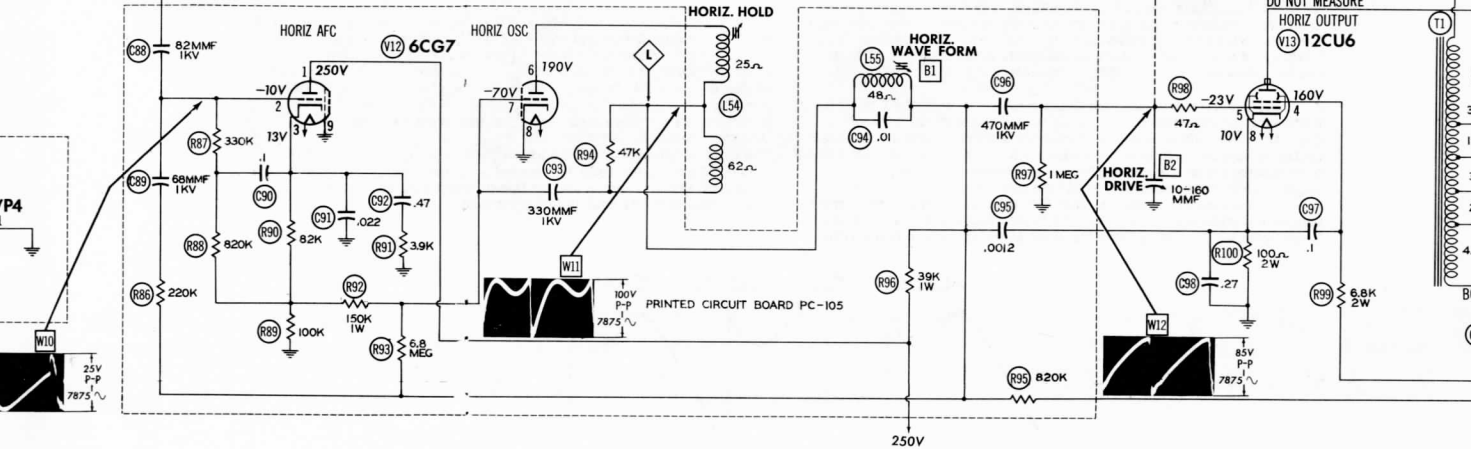
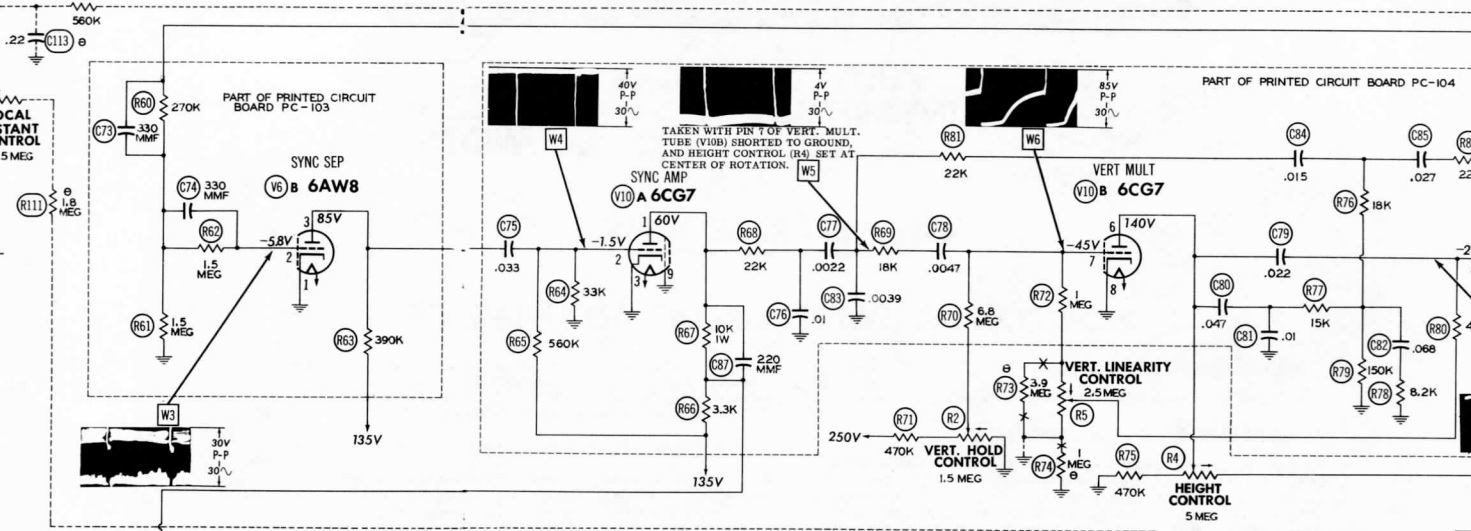
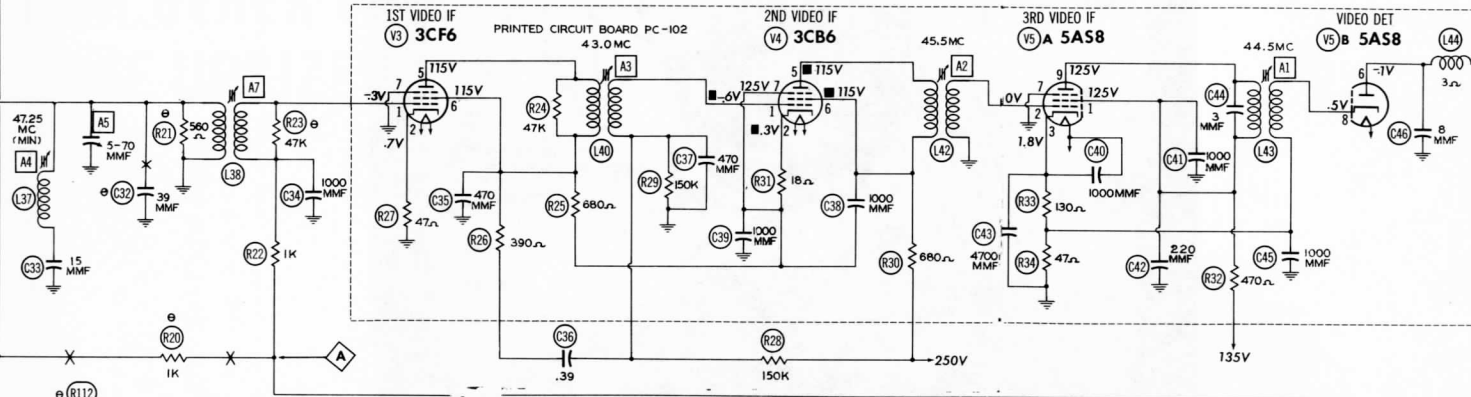
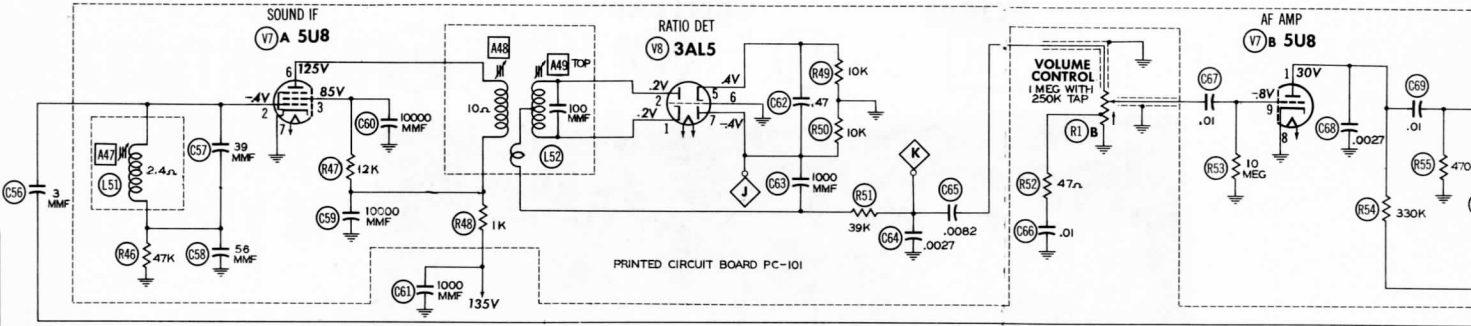
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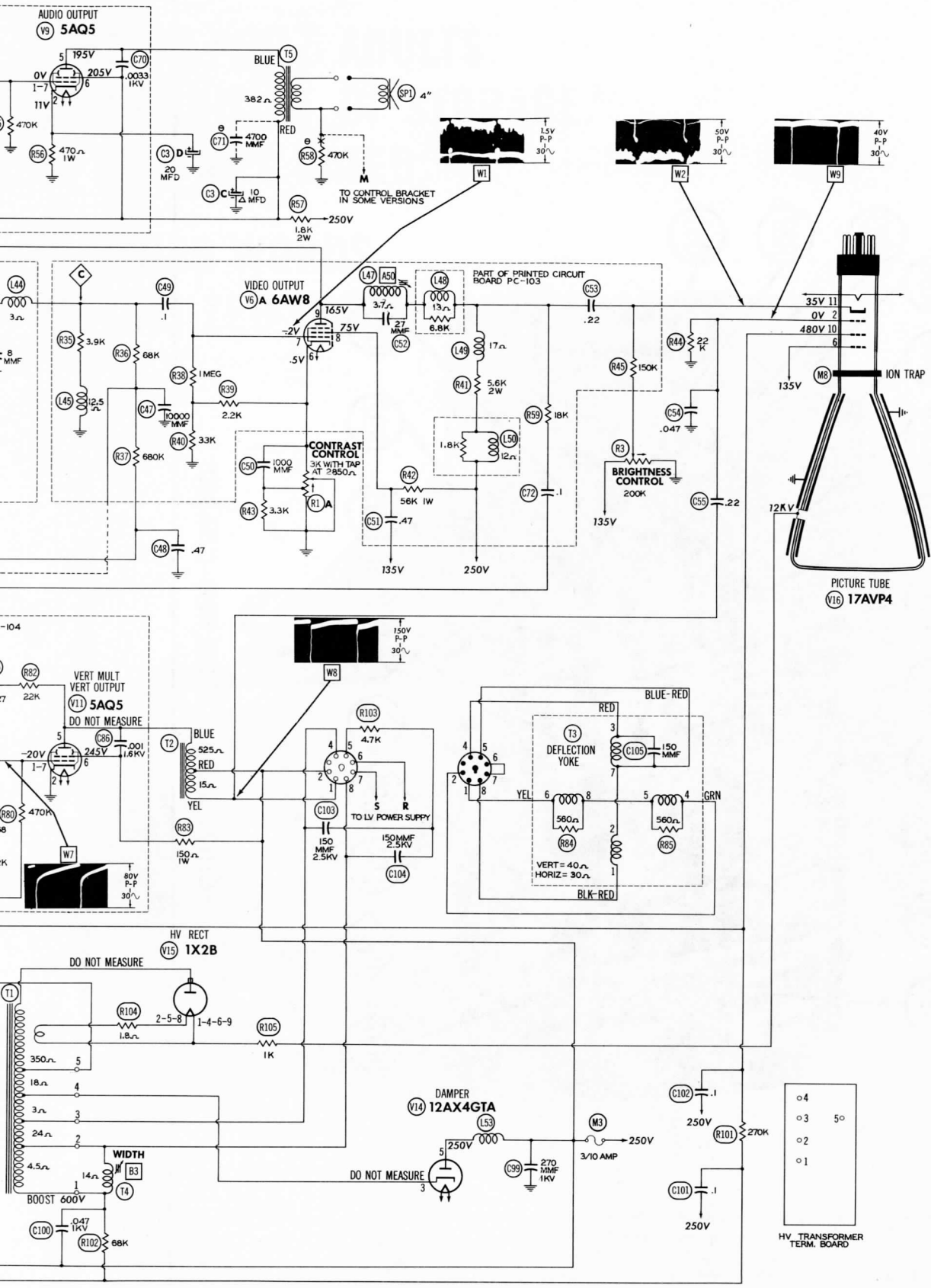
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- ◆ MEASURED FROM PIN 8 OF V2.
- MEASURED FROM PIN 7 OF V4.
- SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
- DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM. (SEE PARTS LIST)
- ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (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.

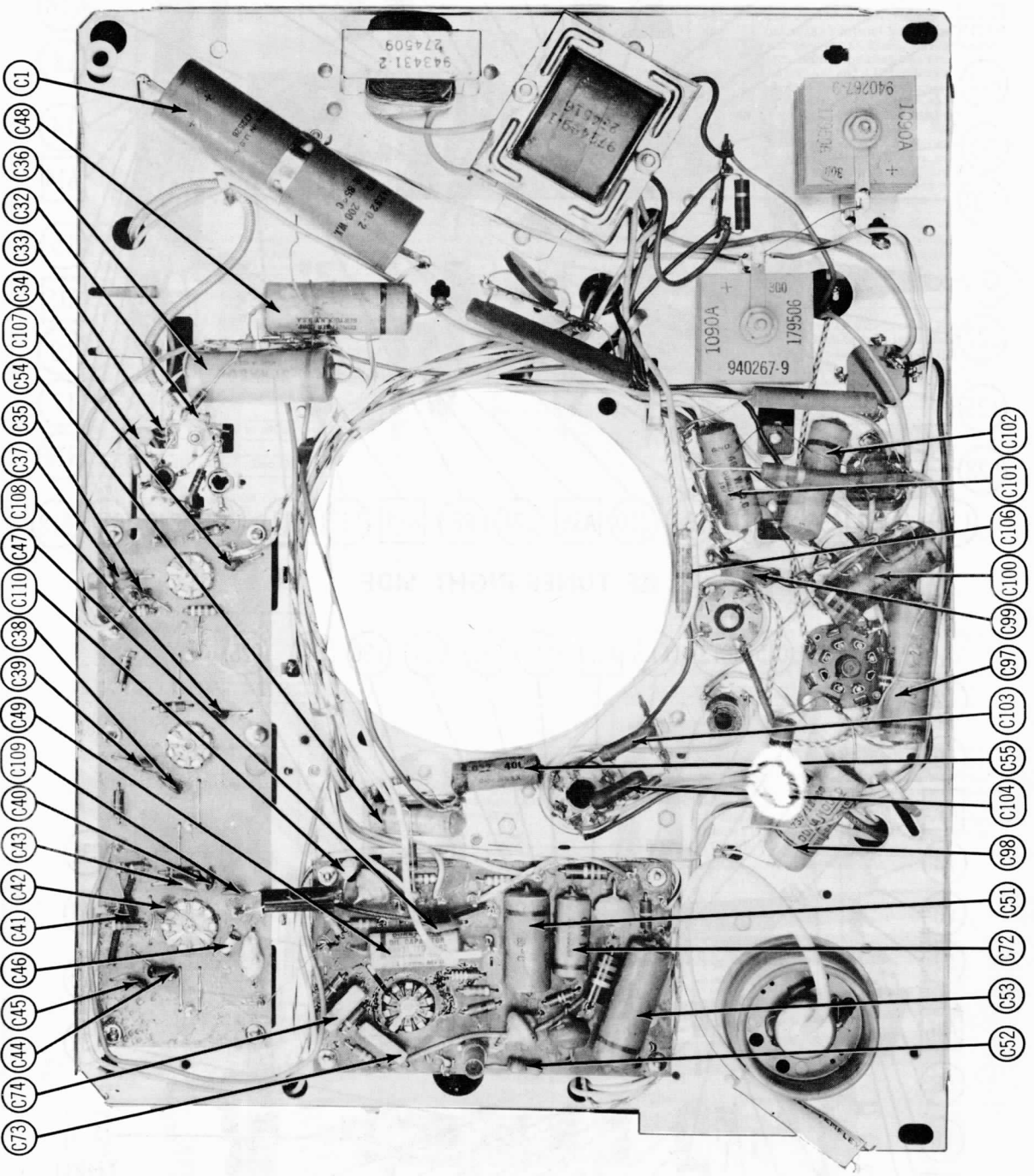


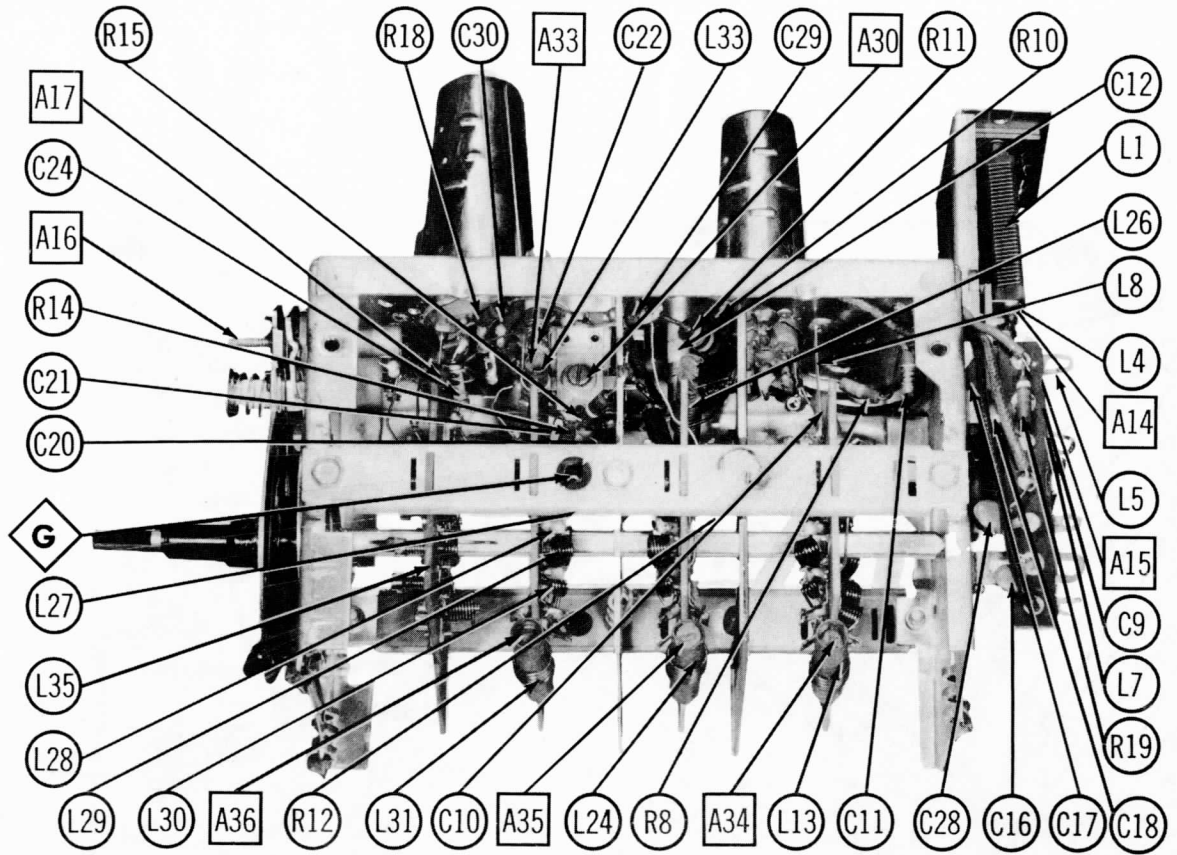


RCA VICTOR MODELS 17-PT-6962, U, 17-S-6022, U,
 17-S-6025, U, 17-S-6027, U (Ch. KCS94, A)

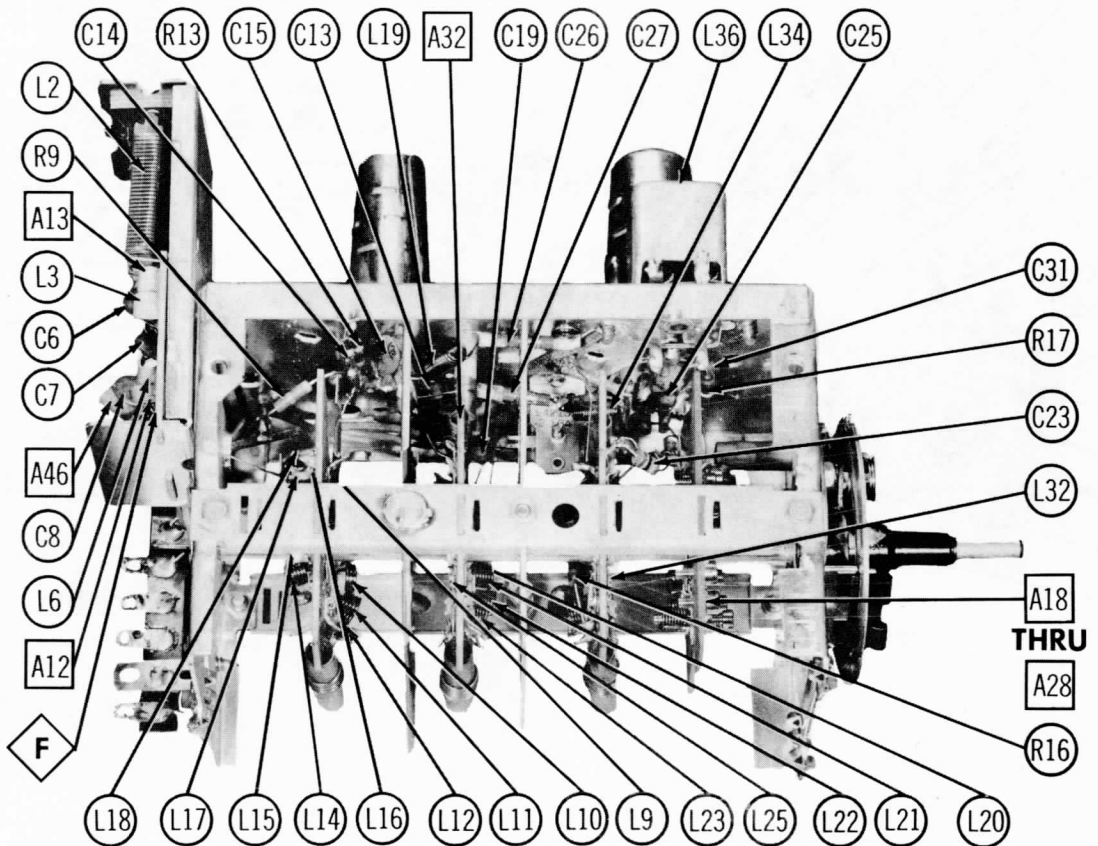
RCA VICTOR MODELS 17-PT-6962,
 U, 17-S-6022, U, 17-S-6025, U,
 17-S-6027, U (Ch. KCS94, A)

RCA VICTOR MODELS 17-PT-6962, U, 17-S-6022, U,
 17-S-6025, U, 17-S-6027, U (Ch. KCS94, A)
 NOITACIFINTEI ROICIPAPY-AMEIA WOLLIOB SISSAHC





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

Connect the ends of a 1000Ω potentiometer across a 7.5 volt battery capable of withstanding considerable current drain. Connect the negative terminal arm to point \diamond . Set potentiometer arm to obtain -3.5 volts at point \diamond . Connect the positive terminal to chassis. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .0015MFD	High side to point \diamond . Low side to chassis.	Not used	44.5MC	Any unused channel	USE VTVM. DC probe to point \diamond . 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 \diamond . 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 \diamond . 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 \diamond . 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 \diamond . Low side to chassis.	Not used	44.5MC	Any unused channel	USE VTVM. DC probe to point \diamond . 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 \diamond . 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 \diamond . 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 \diamond . 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.

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

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

ALIGNMENT INST

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7. .0015MFD	High side to point ⓑ. Low side to chassis.	44MC (10MC Swp)	41.25MC	4	Vert. Amp. to point ⓐ. 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.	"	42.5MC 45.0MC 45.75MC	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 1N82 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 ⓐ. Positive side to tuner case. Adjust for ~3 volts at point ⓐ. 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 ⓐ. Low side to chassis.	A10, All	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 ⓐ.
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 ⓐ. 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, All	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.

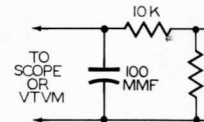


FIG. 1

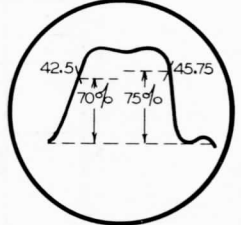


FIG. 2

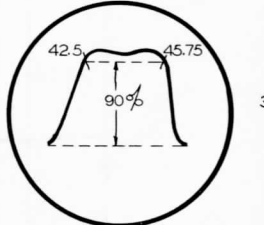


FIG. 4

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 ⓐ 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 the matching unit must be in place during alignment. Connect the negative terminal of potentiometer arm of bias supply to point ⓐ. Positive terminal to chassis. Set the potentiometer arm to obtain -5 volts at point ⓐ on VTVM. Note: Adjustments A12 thru A15 are adjusted by expanding or compressing coil turns, adjustment for A14 and A15. C8 would be adjustment A12. C7 and C8 are variable capacitors. C6 would be adjustment A13. C7 would be adjustment A14. C8 would be adjustment A15. 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.

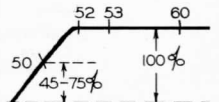


FIG. 6

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 ⓐ. 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 ⓐ. Low side to chassis.	A14, A15	Remove the .001MFD capacitor from point ⓐ to pin 1 of V4. Connect a 300Ω, 1/2 watt carbon resistor from point ⓐ 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 ⓐ and chassis. Replace V3 in its socket.

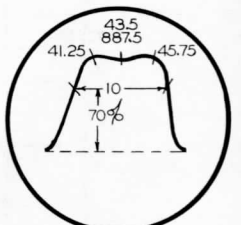


FIG. 8

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 ⓐ with a VTVM. Connect negative terminal of potentiometer arm of one of the bias supplies to point ⓐ. Positive side to tuner chassis. Adjust for -3.5 volts bias at point ⓐ. 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.						

ALIGNMENT INSTRUCTIONS (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 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 (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.

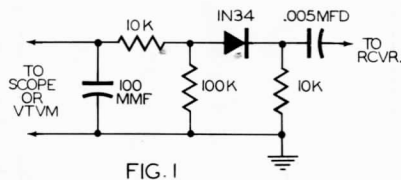


FIG. 1

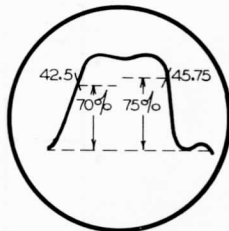


FIG. 2

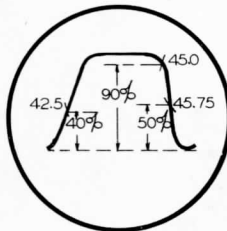


FIG. 3

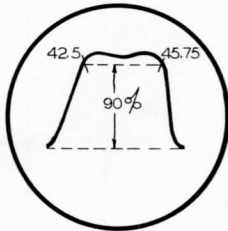


FIG. 4

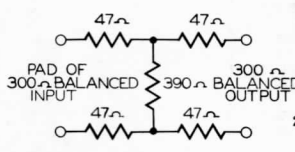


FIG. 5

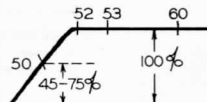


FIG. 6

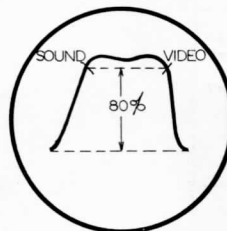


FIG. 7

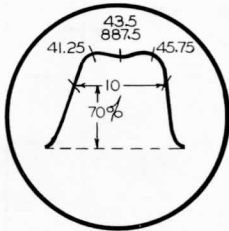


FIG. 8

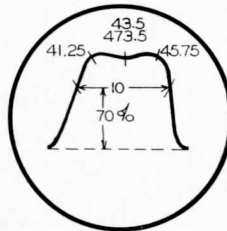


FIG. 9

OSCILLATOR 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 usted by expanding or compressing coil turns, would be adjustment A13. C7 would be

ut of the oscilloscope for horizontal deflection, e, usually 50 ohms.

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, ½ 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.

OSCILLATOR ALIGNMENT

are no presetting of adjustments.

ignment unless components are changed to

unt the terminals of L36 with a 39Ω carbon

The limits of oscillator injection voltage are t negative terminal of potentiometer arm of volts bias at point (D).

ut of the oscilloscope for horizontal deflection, e, usually 50 ohms.

ADJUST	REMARKS
A16	Turn fine tuning control to its mid-range position. Adjust A16 for audible beat on frequency meter.
A17	Turn channel 13 and adjust A17 for channel 13 oscillator frequency. Turn channel 8. Adjust proper oscillator trimmer to obtain oscillator frequency. Switch to channel 13 and adjust A17, then

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CH
18 Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	183MC (10MC Swp)	181.25MC 185.75MC	8
19	Connect frequency meter as in step 16.	Not used	Freq. meter to 257MC	13
20 Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	213MC (10MC Swp)	211.25MC 215.75MC	"
21	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 rep. 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
23 Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	183MC (10MC Swp)	181.25MC 185.75MC	"
24	Connect frequency meter as in step 16.	Not used	Freq. meter to 129MC	6
25 Two 130Ω Carbon Resistors	Across antenna terminals with 130Ω in each lead.	85MC (10MC Swp)	83.25MC 87.75MC	"
26	"	85MC (10MC Swp)	83.25MC 87.75MC 87.75MC 81.75MC 69MC (10MC Swp)	5 4
27	"	213MC (10MC Swp)	211.25MC 215.75MC 207MC (10MC Swp)	13 12
28	Connect frequency meter as in step 16.	Not used	199.25MC 203.75MC 195MC (10MC Swp) 189MC (10MC Swp) 183MC (10MC Swp) 177MC (10MC Swp) 179.75MC	11 10 9 8 7

Same instructions as under "KRK32B Tuner Alignment".

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CH
29 Direct	High side to point (H). Low side to chassis.	Not used	43.5MC (400% Mod)	2
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
31	Note: If channel 8 oscillator frequency cannot be reached by adjusting frequency. Switch to channel 12 and adjust A18 for channel 8 oscillator frequency. Switch to channel 13 and adjust A17, then back to channel 8 and again adjust A39.			

INSTRUCTIONS (cont)

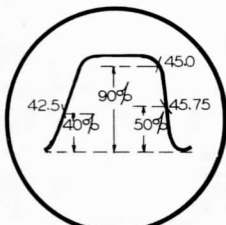
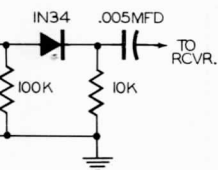


FIG. 3

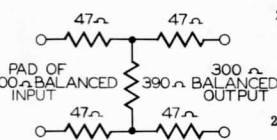


FIG. 5

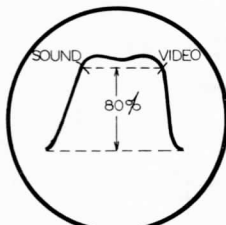


FIG. 7

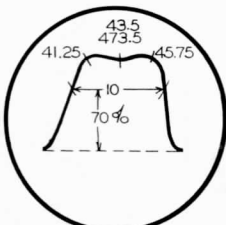


FIG. 9

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)	83.25MC 87.75MC	"	"	"	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)	211.25MC 215.75MC	13	"	"	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.
			207MC (10MC Swp)	205.25MC 209.75MC	12			
			201MC (10MC Swp)	199.25MC 203.75MC	11			
			195MC (10MC Swp)	193.25MC 197.75MC	10			
			189MC (10MC Swp)	187.25MC 191.75MC	9			
			183MC (10MC Swp)	181.25MC 185.75MC	8			
			177MC (10MC Swp)	175.25MC 179.75MC	7			
			171MC (10MC Swp)	169.25MC 173.75MC	6			
28	Connect frequency meter as in step 16.	Not used	Freq. meter to 257MC	13	Not used	A17	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.	
				12				A18
				11				A19
				10				A20
				9				A21
				8				A22
				7				A23
				6				A24
				5				A25
				4				A26
				3				A27
				2				A28

KRK29K/36A VHF TUNER ALIGNMENT

Same instructions as under "KRK32B 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 (400V/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-PT-6962, U, 17-S-6022, U, 17-S-6025, U, 17-S-6027, U (Ch. KCS94, A)

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 for response similar to Fig. 4. Adjust A40 for maximum amplitude between markers. A29 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 81.75MC 87.25MC 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 215MC 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	SWEEP GENERATOR COUPLING	SWEEP 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 \diamond . Low side to chassis.	A41, A42, A43	Connect the high side of VHF generator thru a 1000Ω carbon resistor to rear terminal of 1N82 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 \diamond . 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 \diamond , 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 to exceed 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 \diamond . 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

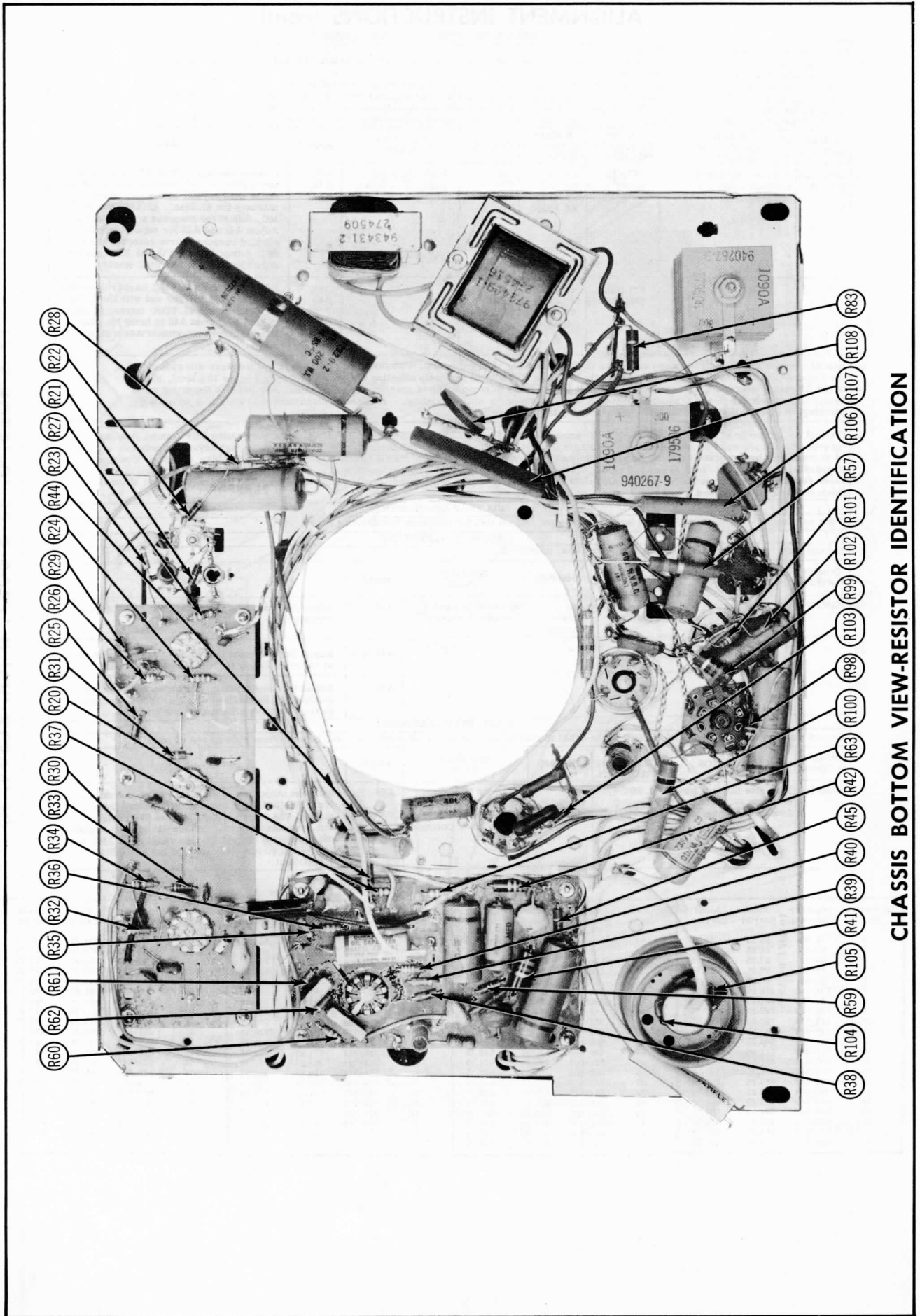
Ground pin 2 (grid) of 3rd video IF amplifier tube (V5A) to chassis when properly adjusted, core will be away from chassis end of coil.

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	589.75	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	753.25	757.75	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								

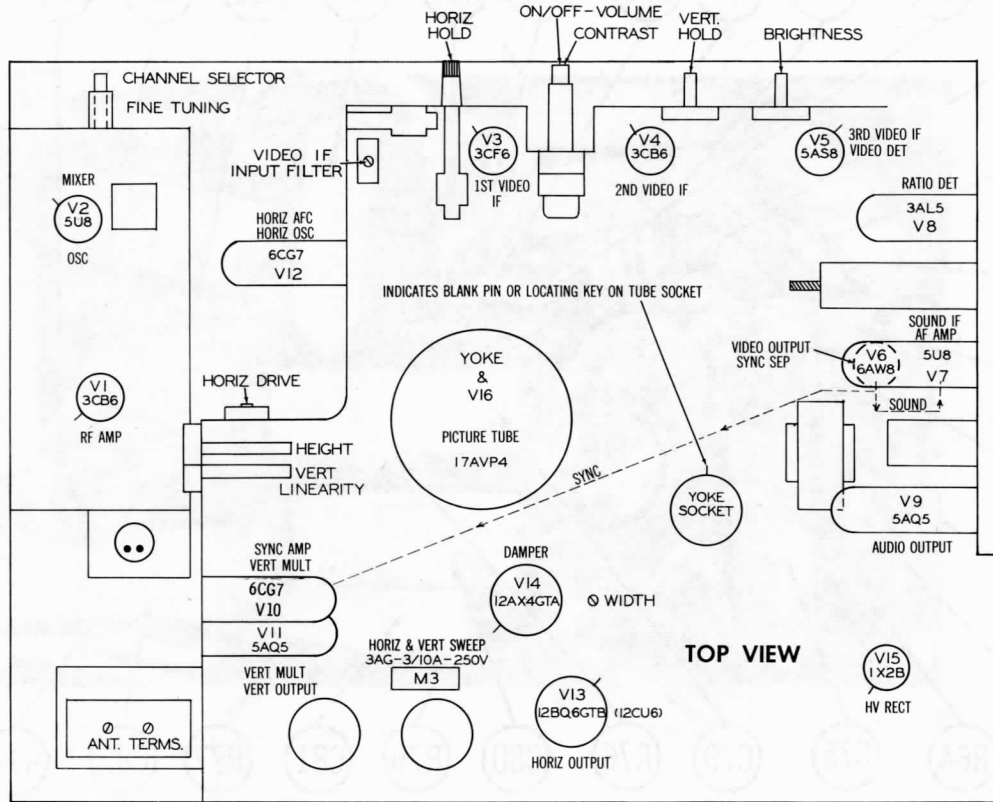
RCA VICTOR MODELS 17-PT-6962, U, 17-S-6022, U, 17-S-6025, U, 17-S-6027, U (Ch. KCS94, A)



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

- (R60)
- (R88)
- (R61)
- (R104)
- (R62)
- (R105)
- (R32)
- (R39)
- (R36)
- (R40)
- (R34)
- (R45)
- (R33)
- (R42)
- (R30)
- (R63)
- (R37)
- (R100)
- (R20)
- (R98)
- (R31)
- (R101)
- (R25)
- (R103)
- (R26)
- (R99)
- (R29)
- (R102)
- (R24)
- (R106)
- (R44)
- (R107)
- (R21)
- (R108)
- (R22)
- (R28)

TUBE PLACEMENT CHART

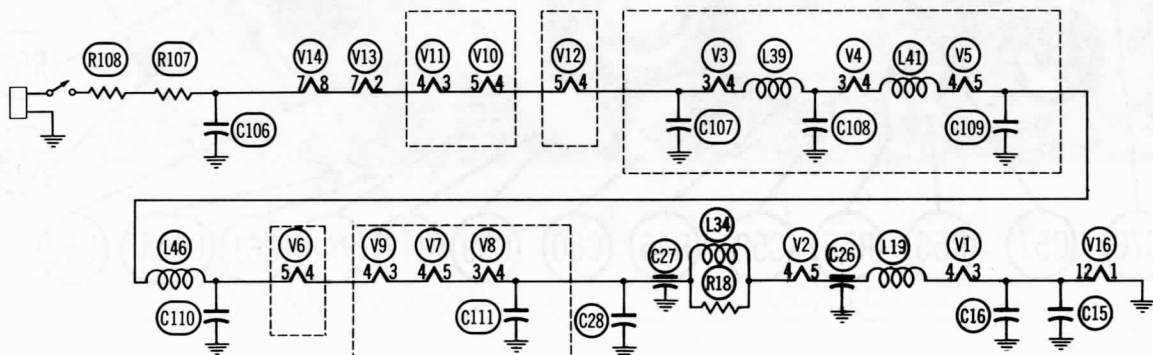


TUBE FAILURE CHECK CHART

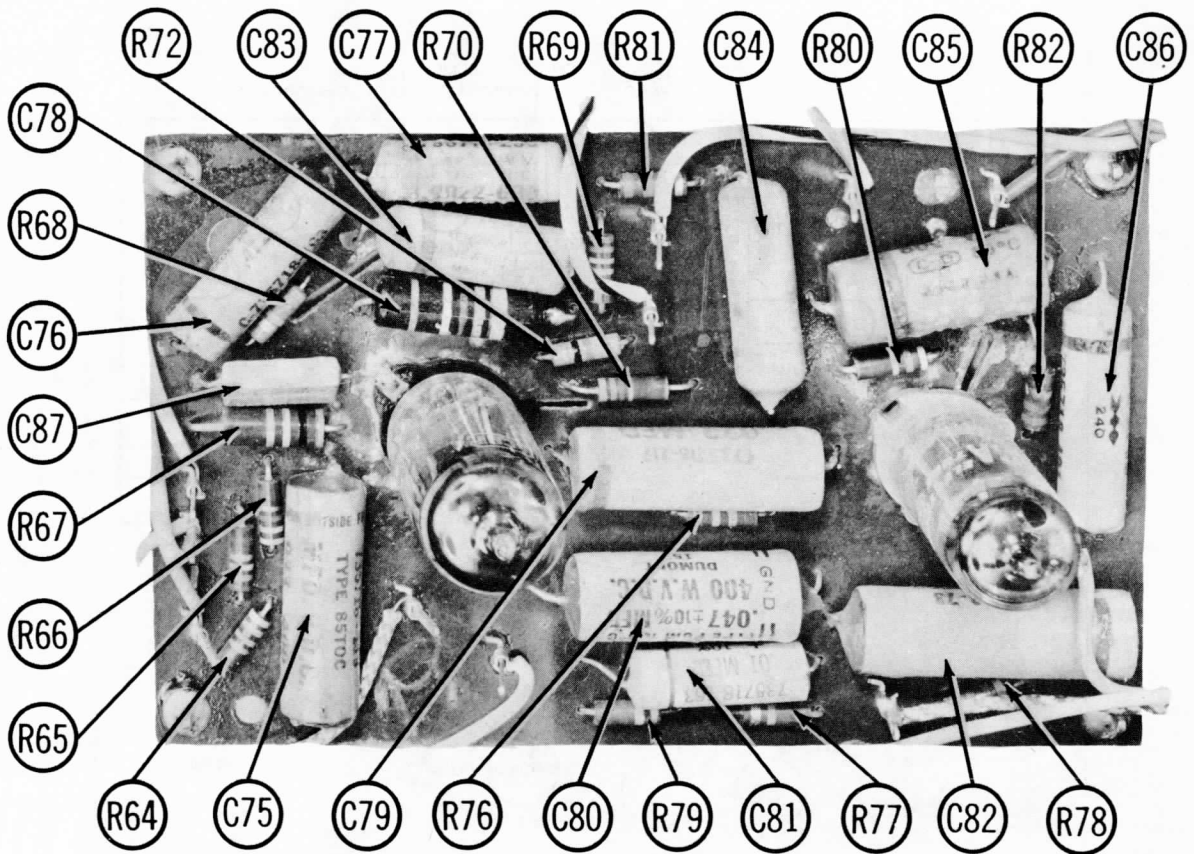
The following chart lists tubes whose failures are most likely to produce the indicated symptoms. Refer to tube placement chart for location and type of tube.

- 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

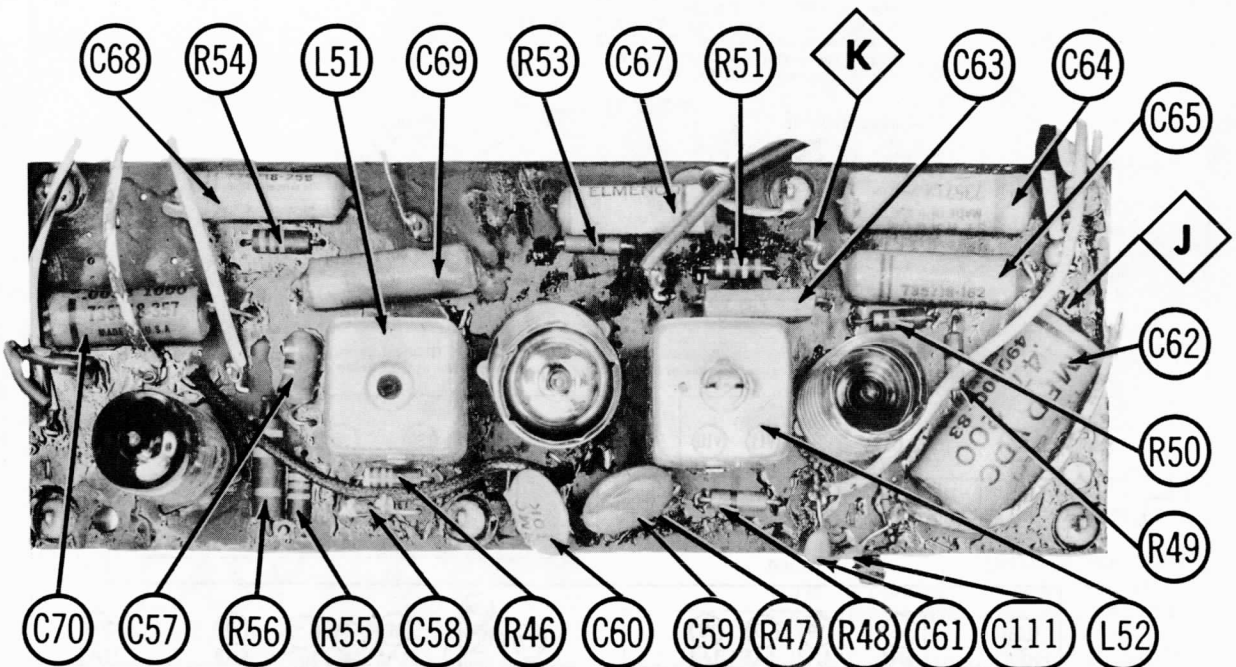
NOTE: Since this receiver employs tubes used in a series-parallel filament network, an open filament in any tube in series may cause the set to be inoperative. (See circuit below).



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

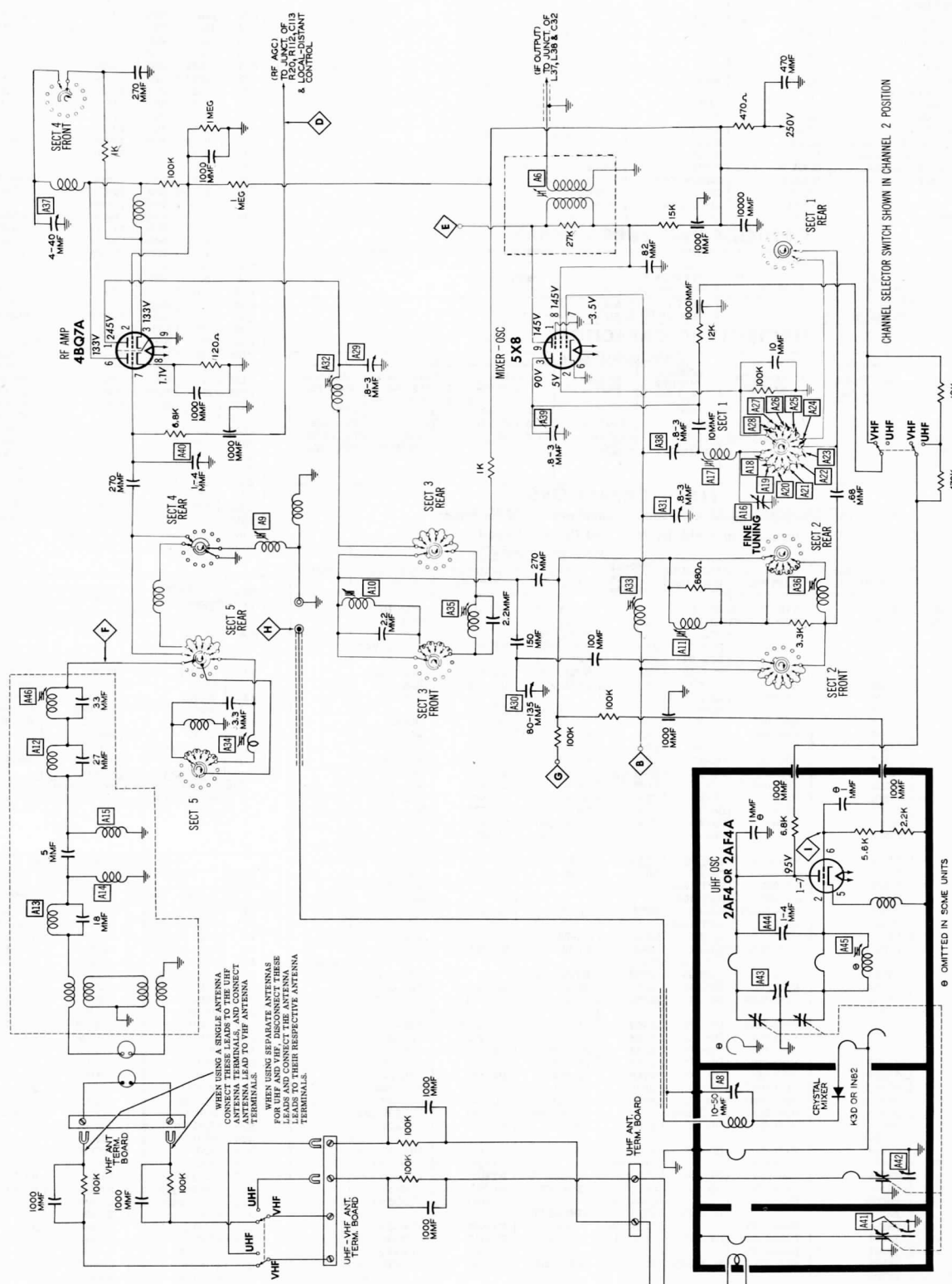


VERTICAL & SYNC UNIT SUB-CHASSIS



SOUND IF SUB-CHASSIS

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



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 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	0Ω		79720				
L35	Osc. Coils	0Ω		79722				
L36	Conv. Plate	.2Ω	.1Ω	79734				Note 5 Includes 27KΩ resistor
L37	47.25MC Trap	.1Ω		78204		TV-153	6225	
L38	1st. Video IF	.2Ω	.2Ω	78203	17-4523	TV-130	6219	
L39	Fil. Choke	0Ω						
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 Coil	3Ω		100359	19-3036	TV-180	6176	36 Microhenries
L45	Shunt Peaking Coil	12.5Ω		100360	19-3300		6155	300 Microhenries
L46	Fil. Choke	0Ω		73477	19-3001	TV-189	4604	
L47	4.5MC Trap	3.7Ω		100358	20-1004	TV-151	1469	
L48	Series Peaking Coil	13Ω		100361	19-3300 *		6155 *	300 Microhenries, wound on 6.8KΩ resistor
L49	Shunt Peaking Coil	17Ω		100362	19-3500		6174	510 Microhenries
L50	Shunt Peaking Coil	12Ω		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				Tertiary winding -.6Ω
L53	RF Choke	.72Ω		76640	19-1001		4604	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.
L55	48Ω		100300								Horiz. Waveform

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

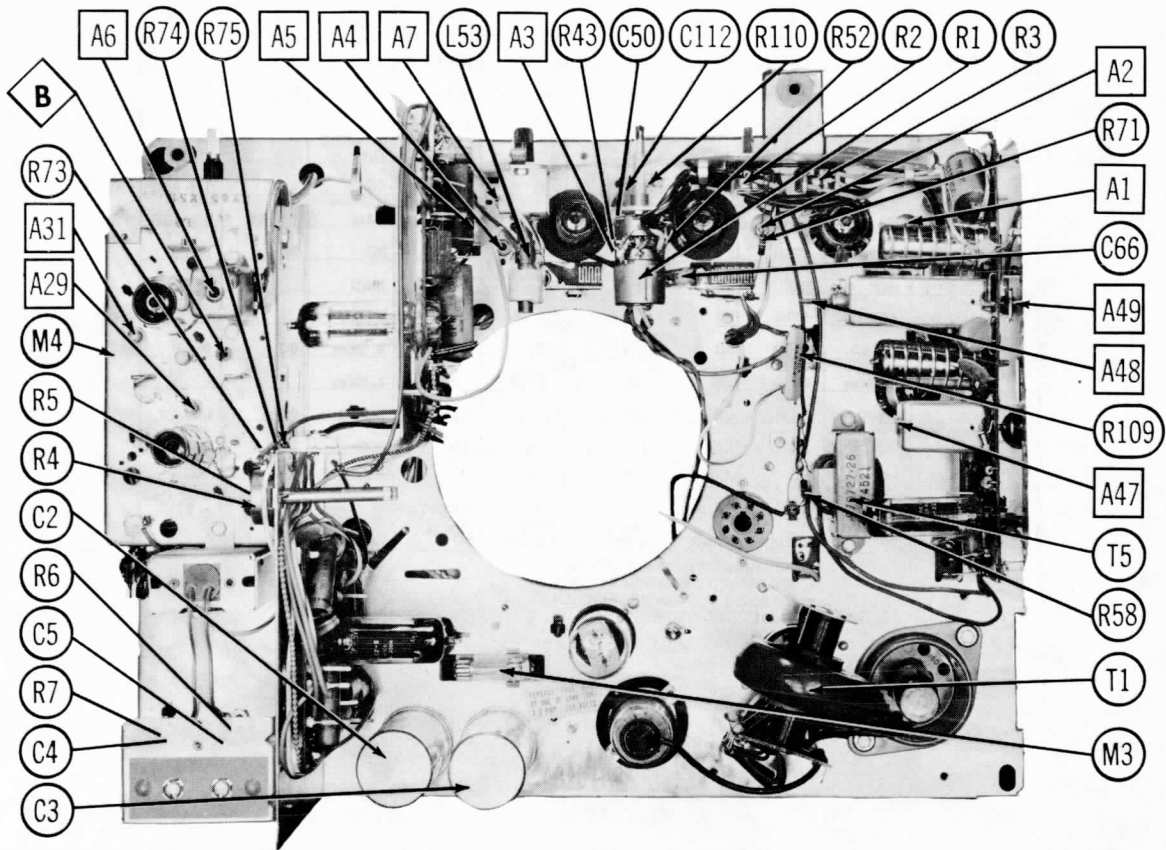
ITEM No.	RATING	REPLACEMENT DATA						NOTES
	CURRENT	RCA Victor PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	MALLORY PART No.	RADIO RECEPTOR PART No.	SARKES TARZIAN PART No.	
M1	.250ADC	100035	1236A	MR300	6S300	6Q4	300	
M2	.250ADC	100035	1236A	MR300	6S300	6Q4	300	

FUSES

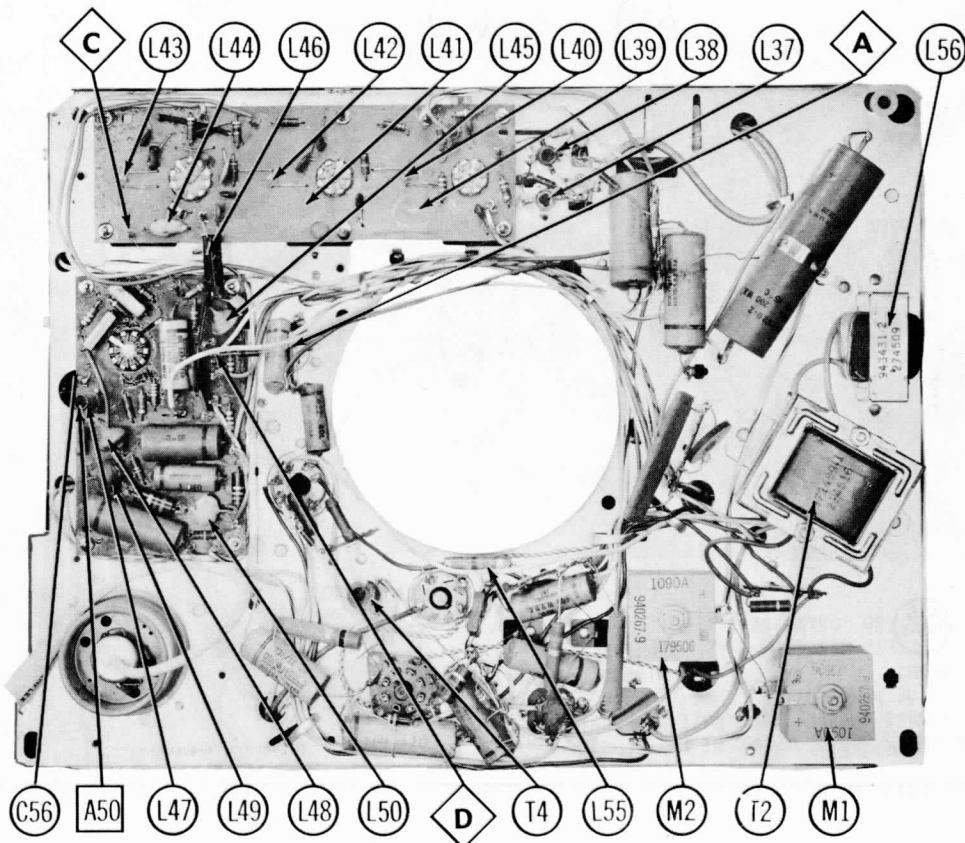
ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			RCA Victor PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M3	3AG	3/10A 250V	78214	78218	312.300 (3AG 3/10A)	357001	AGC 3/10	4405

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 (10-160MMF)
	Safety Glass	101026	



CHASSIS TOP VIEW



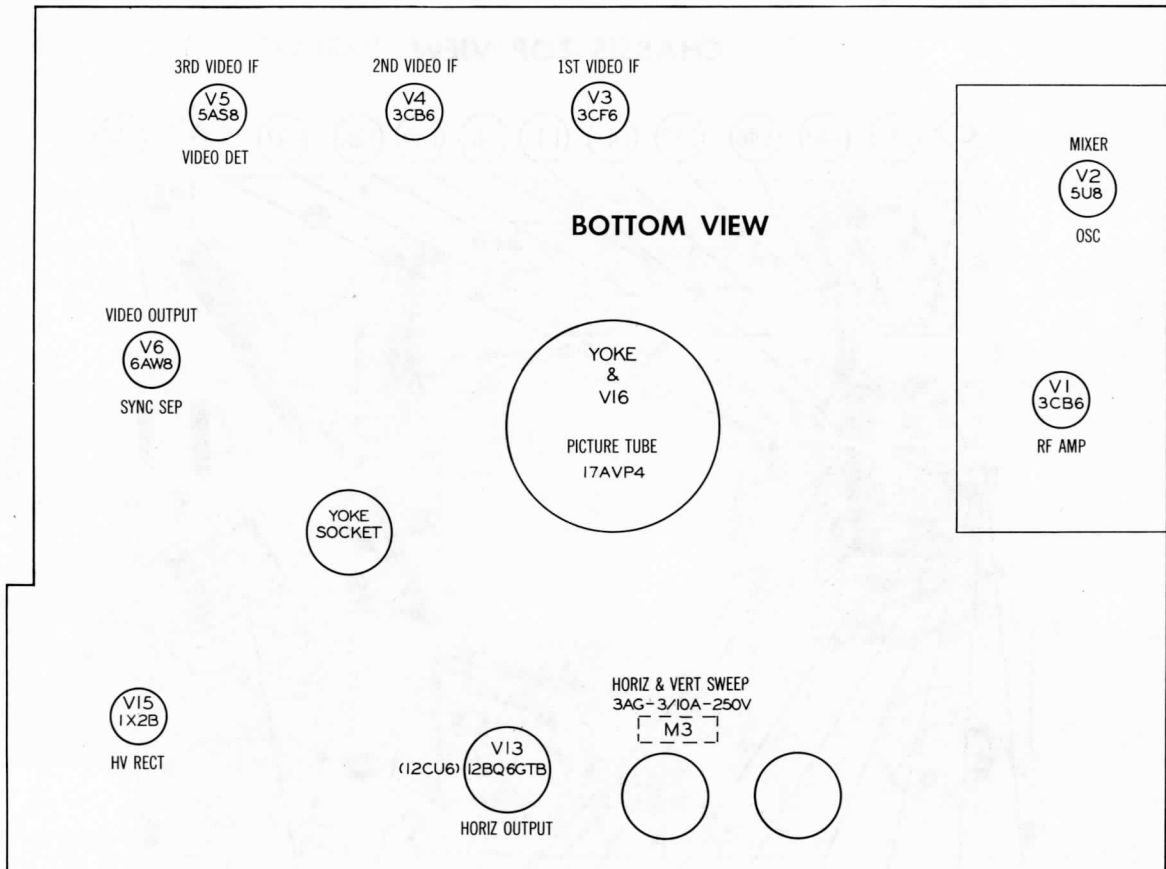
CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

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

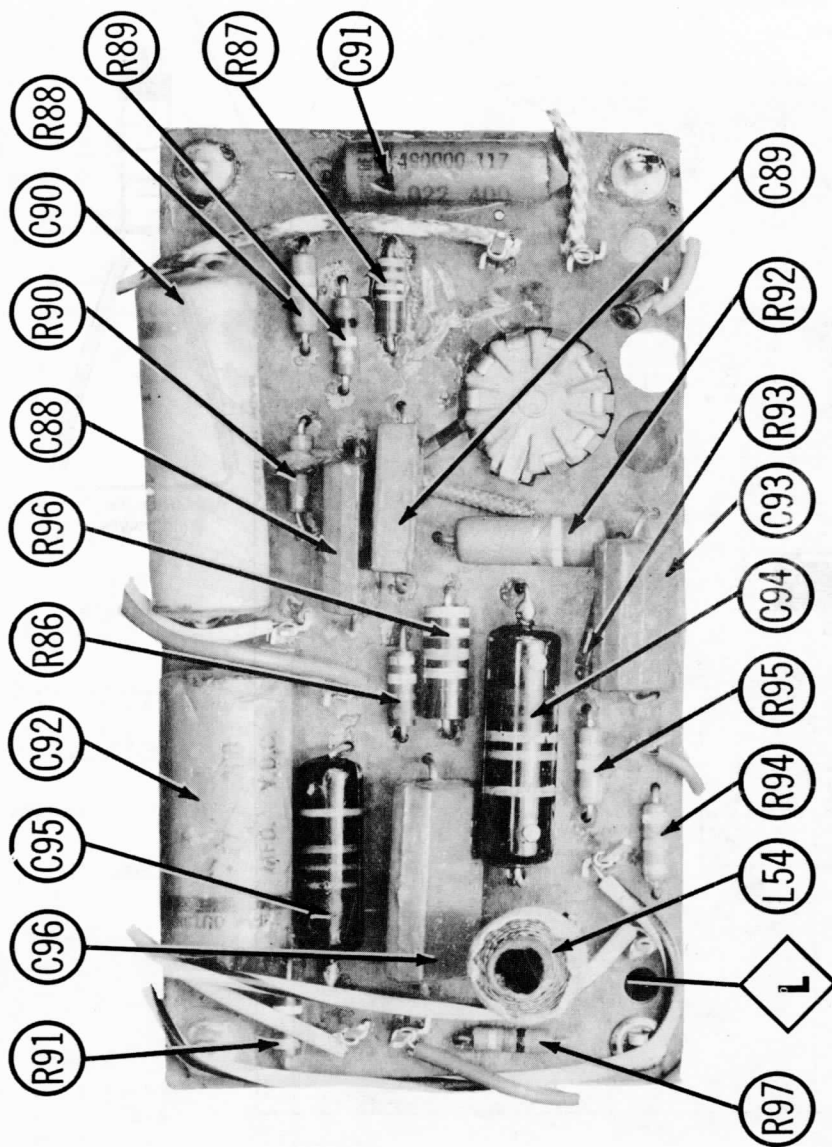
RESISTANCE MEASUREMENTS

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	1X2B	PINS 1 - 9		HAVE		INF		RESISTANCE		TOP CAP ▲ 370Ω
V 16	17AVP4	0Ω	22KΩ	PIN 6 † 4KΩ	PIN 10 ▲ 350KΩ	PIN 11 † 200KΩ	PIN 12 2Ω			

† 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