

**RCA MODELS 630TS,
630TCS, 8TS30**

RCA (VICTOR) MODEL 8TS30

TRADE NAME	RCA, Models 630TS, 630TCS, 8TS30
MANUFACTURER	RCA Victor Div., Radio Corp. of America, Camden, N. J.
TYPE SET	Television Receiver
TUBES	Thirty
POWER SUPPLY	115 Volts 60 Cycle AC
TUNING RANGE	Channels 1 through 13

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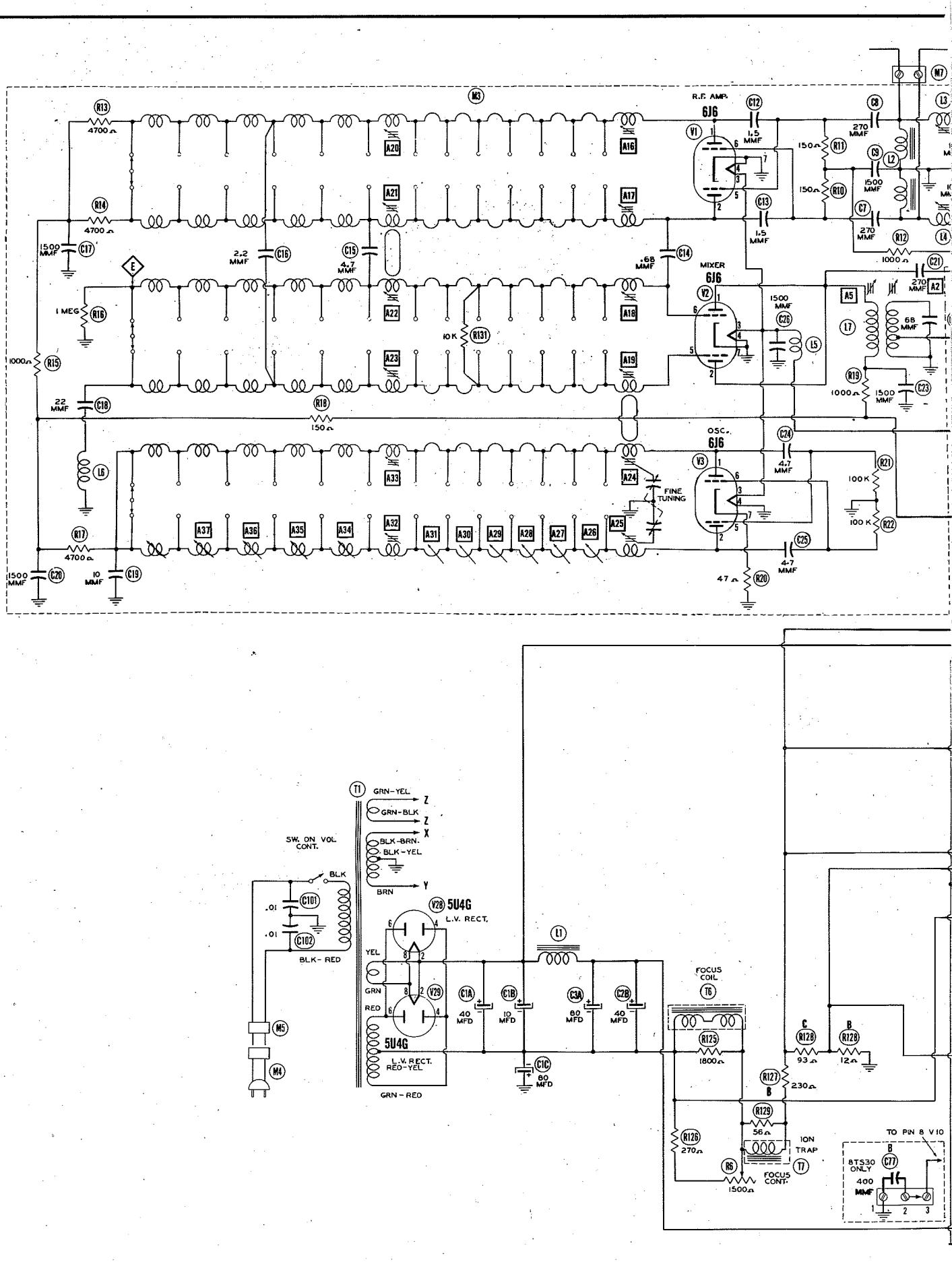
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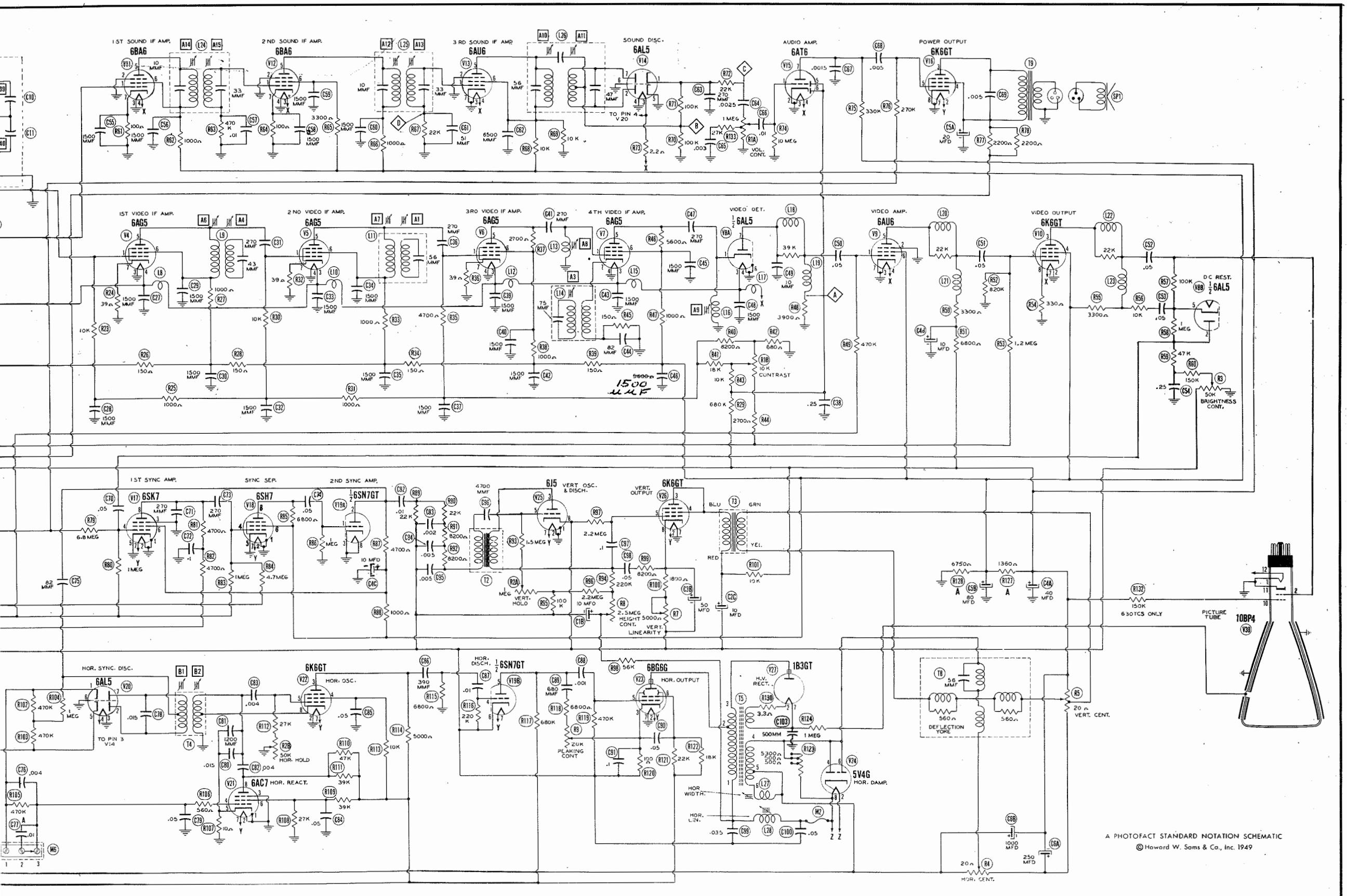
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DATE 1/49-#492-18 SET #54-FOLDER #18



**RCA MODELS 630TS,
630CTS, 8TS30**



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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DISASSEMBLY INSTRUCTIONS

1. Remove nine screws from back panel and remove panel.
2. Remove two screws holding top center of cabinet and remove.
3. Remove two Phillips screws from front safety glass panel and remove panel.
4. Loosen two top sliding brackets that hold picture tube in place.
5. Remove picture tube socket, high voltage lead and ion trap and carefully slide picture tube out the front.
6. Remove eight push-on type control knobs.
7. Unplug speaker.
8. Remove five chassis bolts from bottom of cabinet and slide chassis out rear of cabinet.
9. Remove four nuts, washers and lock washers from speaker and remove speaker.

HORIZONTAL OSCILLATOR ALIGNMENT

HORIZONTAL OSCILLATOR ALIGNMENT CHECK:

The sync. link must be in the normal position (2 to 3). After turning the horizontal hold control to the maximum counter clockwise position, the picture should remain in horizontal sync. Remove the picture momentarily by turning the contrast control fully counter-clockwise and then return it to the normal operating position. This should pull the picture back into synchronization.

Now turn the horizontal hold control fully clockwise. The picture should remain in sync. Momentarily remove the signal and again the picture should pull into sync. if receiver is functioning properly.

If the receiver functions properly under these checks it is not necessary to align the horizontal oscillator circuit. However, if the picture is not normal or stable the horizontal oscillator must be aligned.

SLIGHT RETOUCH ALIGNMENT:

If the receiver failed in the above check to hold sync. at either extreme of the hold control or after momentary removal of the signal, it may be possible to align the horizontal oscillator by making slight adjustments. If this fails it will be necessary to completely re-align the horizontal oscillator circuit.

Tune in a TV station and adjust tuning for best sound quality. Sync. the picture and adjust the contrast control to slightly less than normal position. Turn the horizontal hold control to the point where the horizontal oscillator fails to hold or pull in. Remove signal. Turn B2 frequency adjustment (located at rear of chassis) until oscillator pulls into sync. Now check the pull-in and hold for the other extreme of the horizontal hold control.

COMPLETE ALIGNMENT:

Tune in a TV station for the best sound quality. Adjust vertical hold control to vertically sync. the picture and adjust the contrast control to slightly less than normal. Turn B2 frequency adjustment until picture syncs horizontally. If blanking bar is present on picture adjust B1 (phasing adjust screw) until blanking bar moves to the right and off the raster. If ripples occur in the raster turn B1 in a clockwise direction until the unstable condition is removed. The length of this adjustment screw in its correct position is usually about 1/2 inch beyond the bushing.

Turn horizontal hold control fully counter-clockwise and adjust B2 until picture fails to sync. Now slowly turn B2 to the point where the picture syncs. again. Readjust B1 so that the left side of picture is close to the left side of the raster but does not fold over.

Turn horizontal hold fully clockwise. Right side of picture should be close to right side of raster but does not fold over. If picture does fold over, readjust B1.

When signal is restored after momentary removal of the signal, the picture should fall into sync. If picture fails to fall into sync. turn B2 counter-clockwise until picture syncs. in.

Turn horizontal hold fully counter-clockwise. Picture should fall back into sync. after momentary removal of signal.

If picture fails to pull in sync. after momentary removals of the signal in both extremes of the horizontal hold control, there may not be a sufficient pull-in range, though not necessarily. A pull-in of 3/4 of the hold control range should be satisfactory.

Excessive pull-in is objectionable because high control circuit sensitivity gives greater reaction to noise pulses. This may also affect the vertical sync. and equalizing pulses which tend to cause a bend in the top portion of the raster.

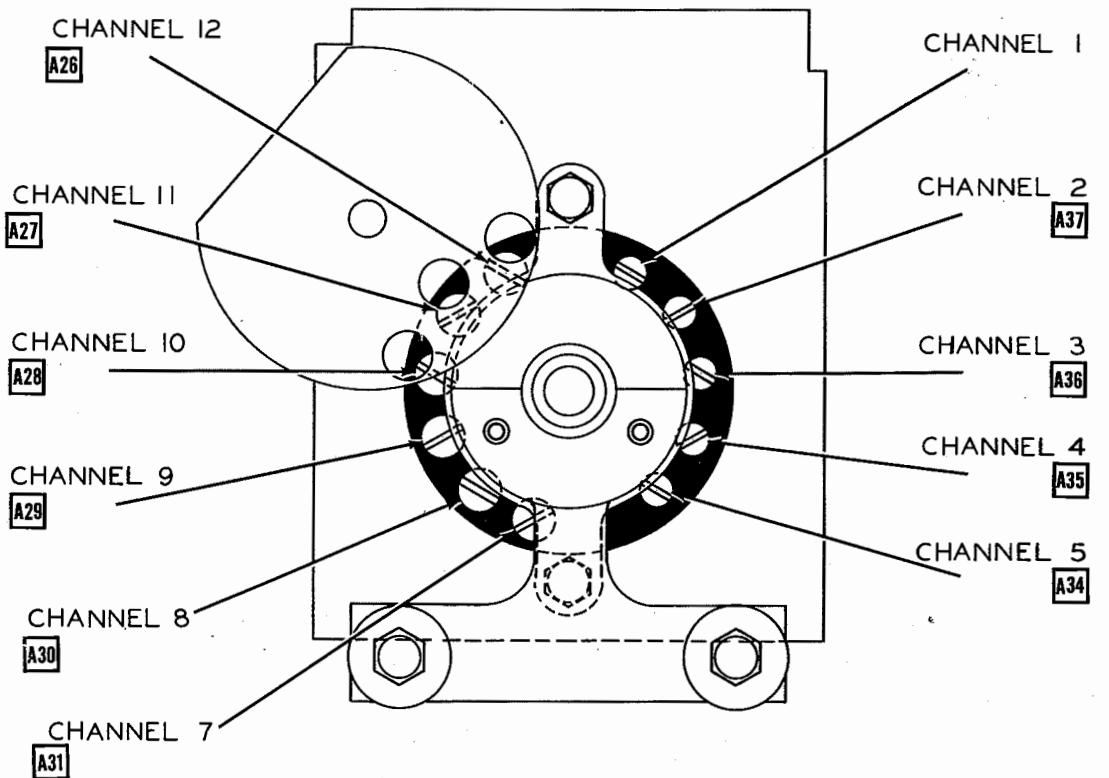
This condition is more noticeable in the 1 to 2 position of the sync. link on models 630TS and 630TCS.

HORIZONTAL LINEARITY ADJUSTMENT

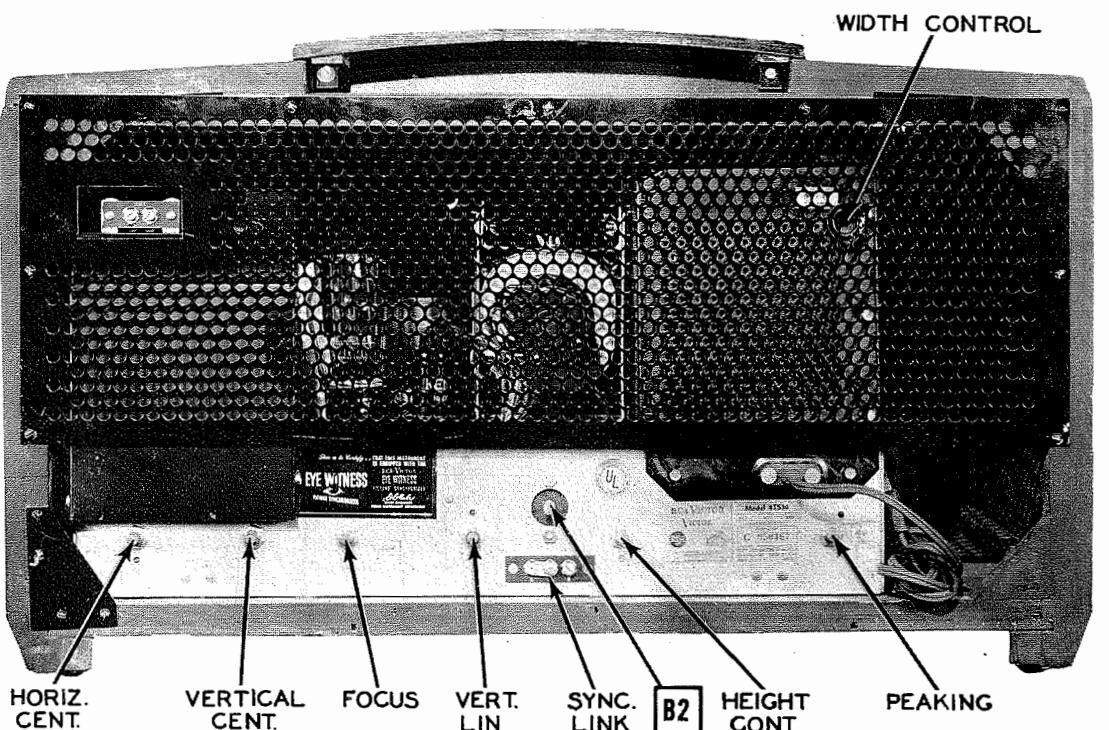
Turn horizontal peaking control R9 clockwise as far as possible without crowding right side of picture. This position provides maximum voltage to picture tube second anode. Adjust width control until raster fills the mask horizontally ($8\frac{1}{2}$ inches). Adjust horizontal linearity control until picture is symmetrical left and right. (It may be necessary to slightly readjust horizontal peaking control). Adjust horizontal centering to center of raster.

If continued adjustments of the peaking, width and linearity controls fail to give proper linearity, it may necessitate moving the tap on R123 which is located in the high voltage compartment. After this tap has been moved, it will be necessary to readjust the peaking, width and linearity controls.

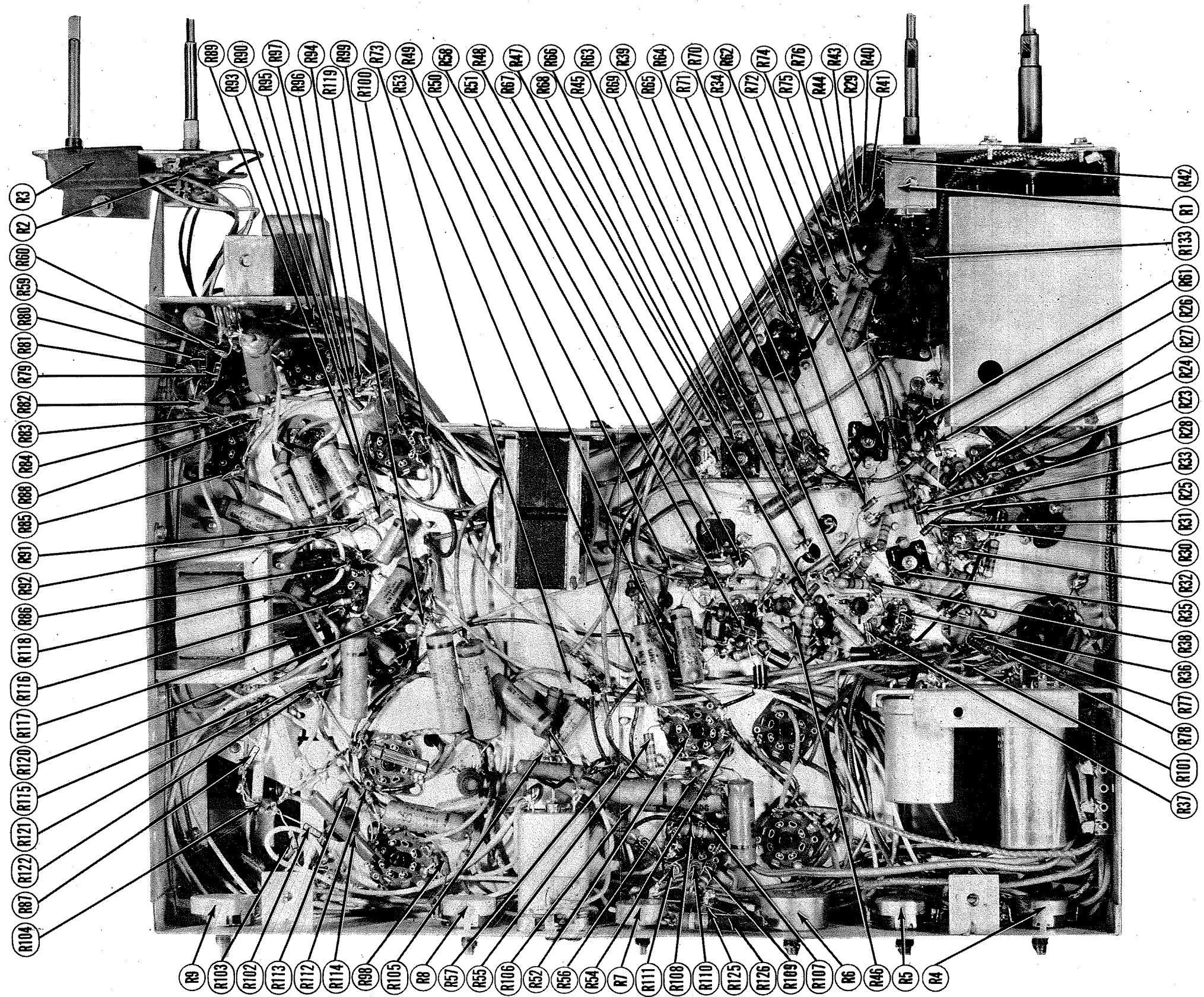
RCA MODELS 630TS, 8TS30



RF OSCILLATOR ALIGNMENT POINTS



CABINET-REAR VIEW

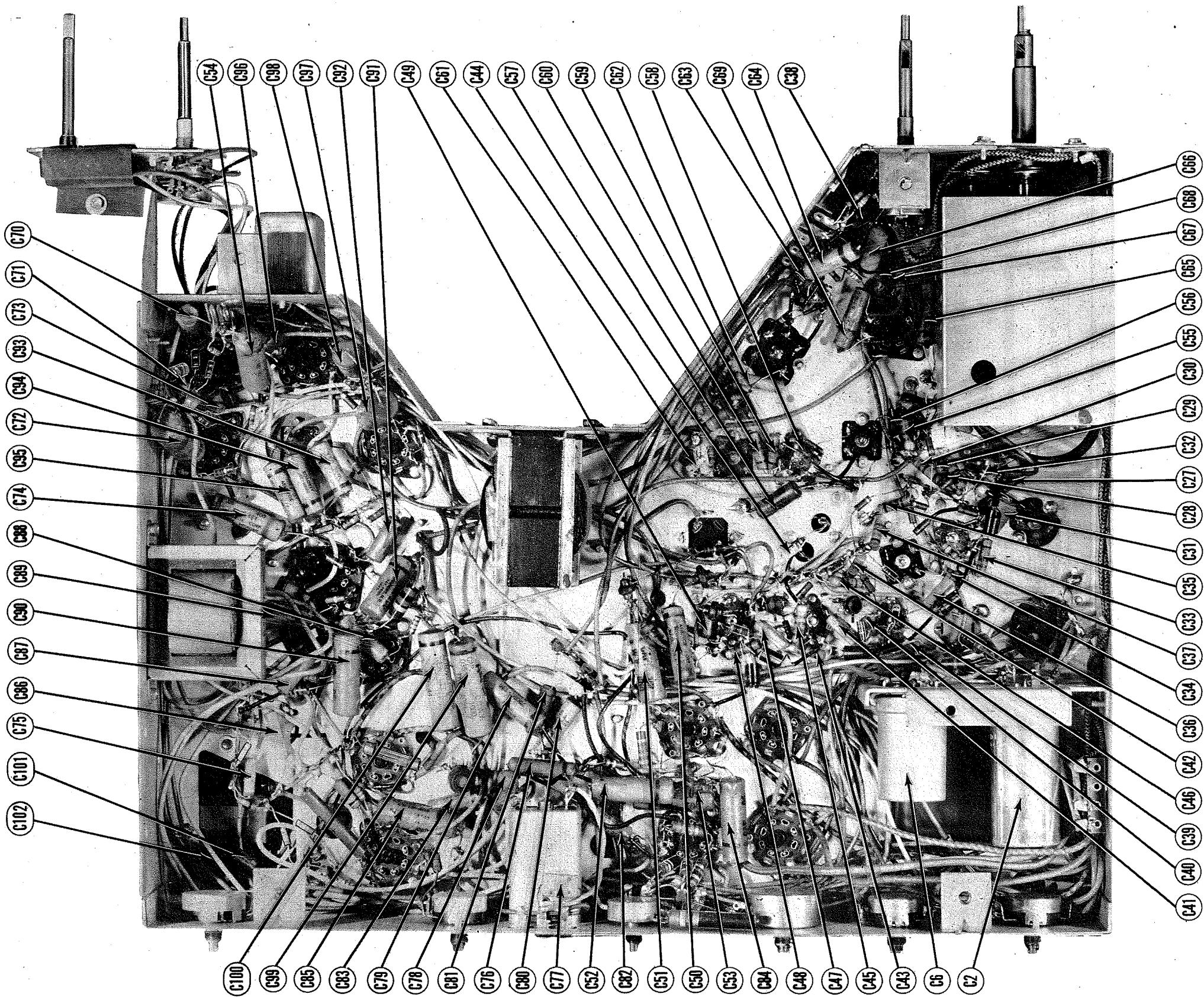


CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

RCA MODELS 6301S,
630CTS, 8TS30

CHASSIS BOTTOM VIEW—CAPACITOR IDENTIFICATION

RCA MODELS 630TS,
630CTS, 81S30



RCA MODELS 630TS, 8TS30

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	RATING	RATING	REPLACEMENT DATA			
ITEM No.	DC RESISTANCE	SEC.	RCA PART No.	STANCOR PART No.	THORDARSON PART No.	MERIT PART No.
T2	2.5 AMP.	200MA	5.1	5.1	6	6
T3	117 V.	670V.	12V.	5V.		
T4			2 AMP.	4		
			5V.			

ITEM No.	USE	DC RES.	REPLACEMENT DATA
ITEM No.	RCA PART No.	MESSENR PART No.	NOTES
12	Ant. Trans.	.02	
13	Interference Trap	.02	
14	F1. Choke	.02	
15	F1. Mixer Grid	.02	
16	IF Mixer Grid	.12	
17	IF & Sound Trap	.20	
18	F1. Choke	.02	
19	2nd Video IF	.20	
20	F1. Choke	.02	
21	3rd Video IF	.20	
22	F1. Choke	.02	
23	4th Video IF	.20	
24	Sound Trap	.10	
25	F1. Choke	.02	
26	IF & Sound Trap	.10	
27	F1. Choke	.02	
28	IF & Sound Trap	.10	
29	F1. Choke	.02	
30	IF & Sound Trap	.10	
31	F1. Choke	.02	
32	IF & Sound Trap	.10	
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206	IF & Sound Trap	.10	
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211	F1. Choke	.02	
212	IF & Sound Trap	.10	
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222	IF & Sound Trap	.10	
223	F1. Choke	.02	
224	IF & Sound Trap	.10	
225	F1. Choke	.02	
226	IF & Sound Trap	.10	
227	F1. Choke	.02	
228	IF & Sound Trap	.10	
229	F1. Choke	.	

ALIGNMENT INSTRUCTIONS

PRE - ALIGNMENT INSTRUCTIONS - READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

If alignment is performed with picture tube removed, remove V22 from its socket to disable the high voltage supply.

The oscillator tube (V3) should be removed when performing IF adjustments. Use insulated alignment screwdriver for adjusting.

VIDEO IF ALIGNMENT

If receiver is badly misaligned making it impossible to get sufficient reading on VTVM with the signal being fed to the ant. terminals, signal may be fed to the mixer grid. This point is accessible through the hole in the chassis on right side of tuner (Point \diamond).

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1			9	DC probe to junction of R40 and R41. Common to chassis.		Set contrast control to give a -3 volt reading. Leave at this setting during entire IF alignment procedure.
2	Direct	To ant. terminals. (See prealignment notes)	19.75MC	9	A1	Adjust for minimum deflection.
3	Direct	"	21.25MC	9	"	"
4	Direct	"	21.25MC	9	A3	"
5	Direct	"	27.25MC	9	A4	"
6	Direct	"	21.8MC	9	A5	Adjust for maximum deflection.
7	Direct	"	25.3MC	9	A6	"
8	Direct	"	22.3MC	9	A7	"
9	Direct	"	25.2MC	9	A8	"
10			23.4MC	9	A9	Adjust for maximum deflection. If A7 required adjustment in Step 8 repeat Step 2. If FM signal gen. is not available continue with Step 12.

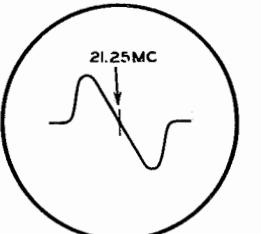


FIG. 1

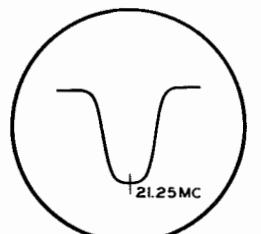


FIG. 2

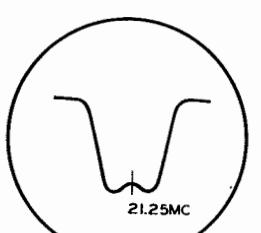


FIG. 3

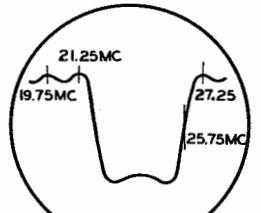
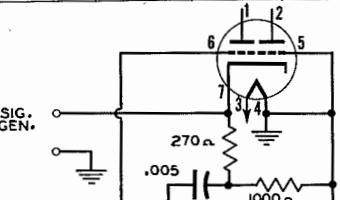


FIG. 4



FIG. 5



CAREFULLY BEND PIN 7 AT
RIGHT ANGLE. CONNECT PINS
5 & 6 TO PIN 4 WHICH IS
GROUNDED AT THE SOCKET.
CONNECT OTHER COMPONENTS
AS SHOWN.

RF & MIXER LINE ALIGNMENT

On those models having the RF Grid returned to the contrast control it is necessary to set the bias at -1.5 volts. Connect DC probe of VTVM to pin 5 or 6 of 1st AF Tube (V15), common to chassis and set contrast control for reading of -1.5 volts.

The signal generator output should be terminated with a resistance equal to its output impedance (usually 50 ohms).

These adjustments are usually very stable and alignment should not be attempted unless they are known to be out of alignment.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
16	120Ω carbon res. in series with each lead	To ant. terminals. (10MC sweep)	177MC and 179.75MC	7	Vert. amp. to Point \diamond in series with 10KΩ. Ground to chassis.	A16,A17 A18,A19	Adjust for approx. flat top response per Fig. 5 with markers above 70%.
17	"	"	183MC (10MC sweep)	8	"	"	Check for response curve per Fig. 5.
18	"	"	189MC (10MC sweep)	9	"	"	"
19	"	"	195MC (10MC sweep)	10	"	"	"
20	"	"	201MC (10MC sweep)	11	"	"	"
21	"	"	207MC (10MC sweep)	12	"	"	"
22	"	"	213MC (10MC sweep)	13	"	"	"

If markers are below 70% on any channel make slight adjustment of A16, A17, A18 and A19 with channel selector on that channel. Recheck the other high band channels.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
23	120Ω carbon res. in series with each lead	To ant. terminals. (10MC sweep)	85MC and 87.75MC	6	Vert. amp. to Point \diamond in series with 10KΩ. Ground to chassis.	A20,A21 A22,A23	Adjust for approx. flat top response per Fig. 5 with markers above 70%.
24	"	"	75MC (10MC sweep)	5	"	"	Check for response curve per Fig. 5.
25	"	"	69MC (10MC sweep)	4	"	"	"
26	"	"	63MC (10MC sweep)	3	"	"	"
27	"	"	57MC (10MC sweep)	2	"	"	"

If markers are below 70% on any channel make slight adjustments of A20, A21, A22 and A23 with channel selector on that channel. Recheck the other low band channels.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS	
28	2 - 120Ω carbon res.	To ant. terminals.	215.75MC	13	DC probe to Point \diamond . Common to chassis.	A24,A25	Adjust for zero reading. A positive and negative reading is obtained on either side of correct setting. Keep A24 and A25 slugs at approx. the same relative setting.
29	"	"	209.75MC	12	"	A26	Adjust for zero reading as above.
30	"	"	203.75MC	11	"	A27	"
31	"	"	197.75MC	10	"	A28	"
32	"	"	191.75MC	9	"	A29	"
33	"	"	185.75MC	8	"	A30	"
34	"	"	179.75MC	7	"	A31	"
35	"	"	87.75MC	6	"	A32,A33	Adjust for zero reading keeping A32 and A33 slugs at approx. the same relative position.
36	"	"	81.75MC	5	"	A34	Adjust for zero reading.
37	"	"	71.75MC	4	"	A35	"
38	"	"	65.75MC	3	"	A36	"
39	"	"	59.75MC	2	"	A37	"

MIXER GRID TRAP ADJUSTMENT

- Match the output of the signal generator (usually 50Ω carbon resistor across the gen. output and 120Ω carbon resistors in each lead) and connect to receiver antenna terminals.
- Connect oscilloscope to Point \diamond through 10KΩ.
- Shunt 1st Video IF Grid to ground with 1000 MFD cap. using shortest possible leads.
- Loosely couple marker generator to antenna terminals.
- Turn channel switch and marker generator through low frequency channels and observe response of each channel.
- Select channel that is essentially flat with sound and picture markers at 80% or more on the response curve.
- Remove shunt on 1st IF Grid and shunt the 2nd Video IF Grid to ground.
- Adjust A38 (rear of tuner) for RF response similar to one selected with 1st IF Grid shunted.
- NOTE: In later productions A38 is a fixed capacitor (C18). In those receivers this step may be followed as a check that correct mixer operation is obtained.

RCA MODELS 630TS, 8TS30

PARTS LIST AND DESCRIPTIONS

CONTROLS

TUBES-(SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE	NOTES
ITEM No.	RECA PART No.	STANDARD PART No.	REPLACEMENT PART No.	TYPE	
V1	RF Amp.	616	516	7BR	
V2	Mixer	616	616	7BR	
V3	Oscillator	616	616	7BR	B & IOKA
V4	1st V. IF Amp.	6165	6165	7BD	C Switch
V5	2nd V. IF Amp.	6165	6165	7BD	Real 1 Meg.
V6	3rd V. IF Amp.	6165	6165	7BD	B & 50KQ
V7	4th V. IF Amp.	6165	6165	7BD	Real 50KQ
V8	Video Def., DC	6165	6165	7BR	2
V9	Video Amp.	6165	6165	7BR	7BR
V10	Video Out.	6165	6165	7BR	GR
V11	Video	6165	6165	7BR	7BR
V12	1st S. IF Amp.	6166	6166	7BR	7BR
V13	2nd S. IF Amp.	6166	6166	7BR	7BR
V14	3rd S. IF Amp.	6166	6166	7BR	7BR
V15	4th S. IF Amp.	6166	6166	7BR	7BR
V16	Sound Disc.	6165	6165	7BR	7BR
V17	Audio Amp.	6176	6176	7BT	7BT
V18	Power Output	6167	6167	7BT	7BT
V19	1st Sync. Amp.	6176	6176	7BT	7BT
V20	Sync. Sep.	6177	6177	7BT	7BT
V21	2nd Sync. Amp.,	6177	6177	7BT	7BT
V22	Hor. Dis.	6175	6175	8BD	8BD
V23	Vert. Sync. Rect.	6175	6175	8BT	8BT
V24	Hor. Osc.	6175	6175	8BT	8BT
V25	Vert. Output	6175	6175	8BT	8BT
V26	H.V. Rect.	6175	6175	8BT	8BT
V27	L.V. Rect.	6175	6175	8BT	8BT
V28	Picture Tube	5U4G	5U4G	10BR	10BR

ITEM No.	USE	REPLACEMENT DATA		RMA BASE	NOTES
ITEM No.	RECA PART No.	STANDARD PART No.	REPLACEMENT PART No.	TYPE	
C1A	CAP. VOLT.	71451			
C1B	10	450	71451	USP9720-2	
C2A	40	450	71432	UF9897-2	
C2B	5	40	450	UF98730-3	
C3A	80	450	71453	UP97731-1	
C4A	40	450	71434	D14368	
C4B	10	350	71435	D14370	
C5A	20	350	71436	D14371	
C5B	80	10	6	UP78808-4	
B1	1000				
B2	270				
B3	1500				
B4	270				
B5	1500				
B6	270				
B7	1500				
B8	270				
B9	1500				
C10	10				
C11	1.5				
C12	1.5				
C13	1.5				
C14	1.5				
C15	2.7				
C16	1500				
C17	270				
C18	1500				
C19	10				
C20	1500				
C21	270				
C22	68				
C23	1500				
C24	4.7				

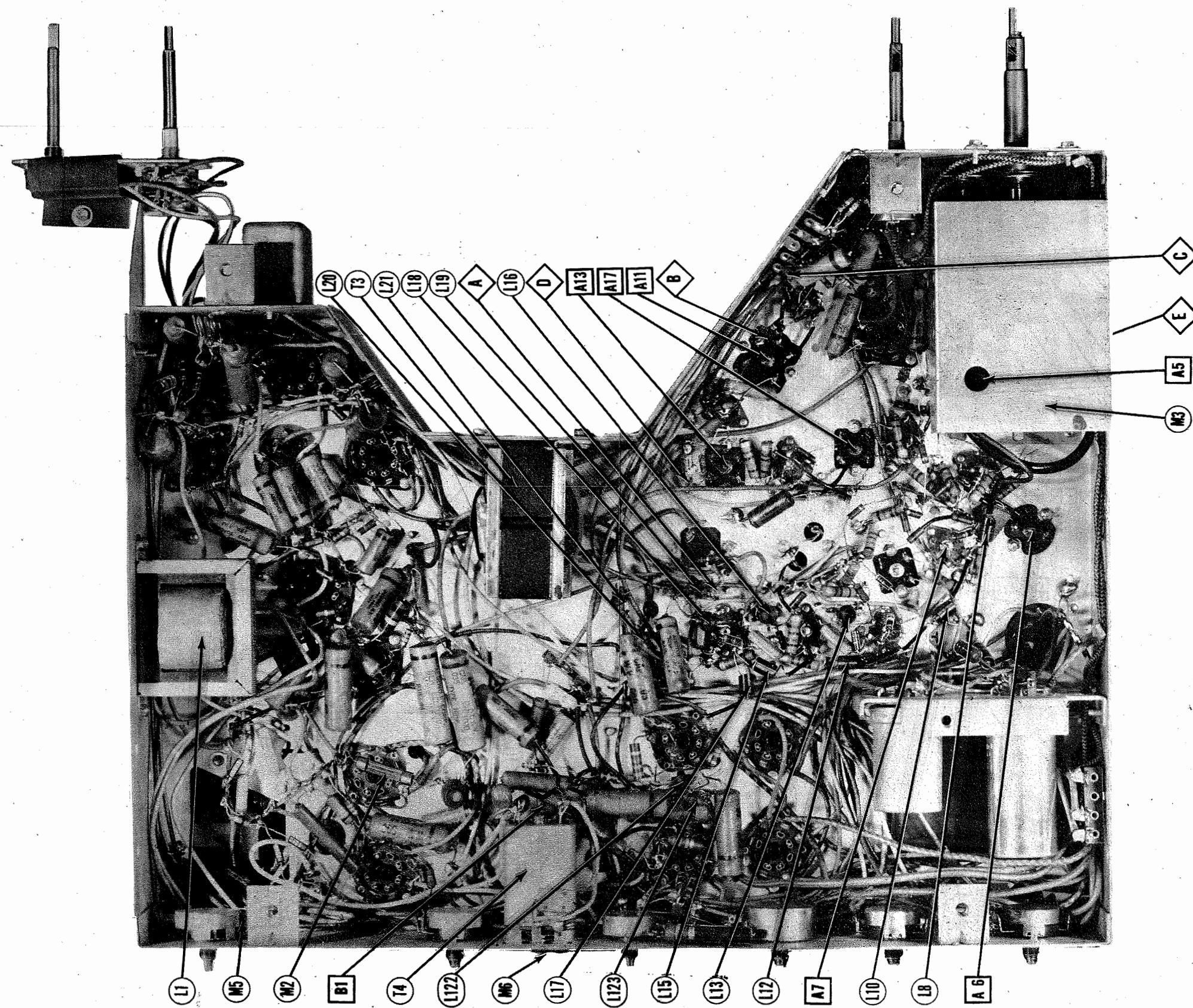
Capacity values given in the rating column are in mfd. for Alum. and Ceramic Capacitors.

ITEM No.	RATING	RECA PART No.	AEROVOX PART No.	CORNELL PART No.	SOLAR PART No.	SPRAGUE PART No.
G1A	40	71451				
G1B	10	450	71451			
G2A	40	450	71432			
G2B	5	40	450	UF98730-3		
G3A	80	450	71453	UP97731-1		
G4A	40	450	71434	D14368		
G4B	10	350	71435	D14370		
G5A	20	350	71436	D14371		
G5B	80	10	6	UP78808-4		
B1	1000					
B2	270					
B3	1500					
B4	270					
B5	1500					
B6	270					
B7	1500					
B8	270					
B9	1500					
C10	10					
C11	1.5					
C12	1.5					
C13	1.5					
C14	1.5					
C15	2.7					
C16	1500					
C17	270					
C18	1500					
C19	10					
C20	1500					
C21	270					
C22	68					
C23	1500					
C24	4.7					

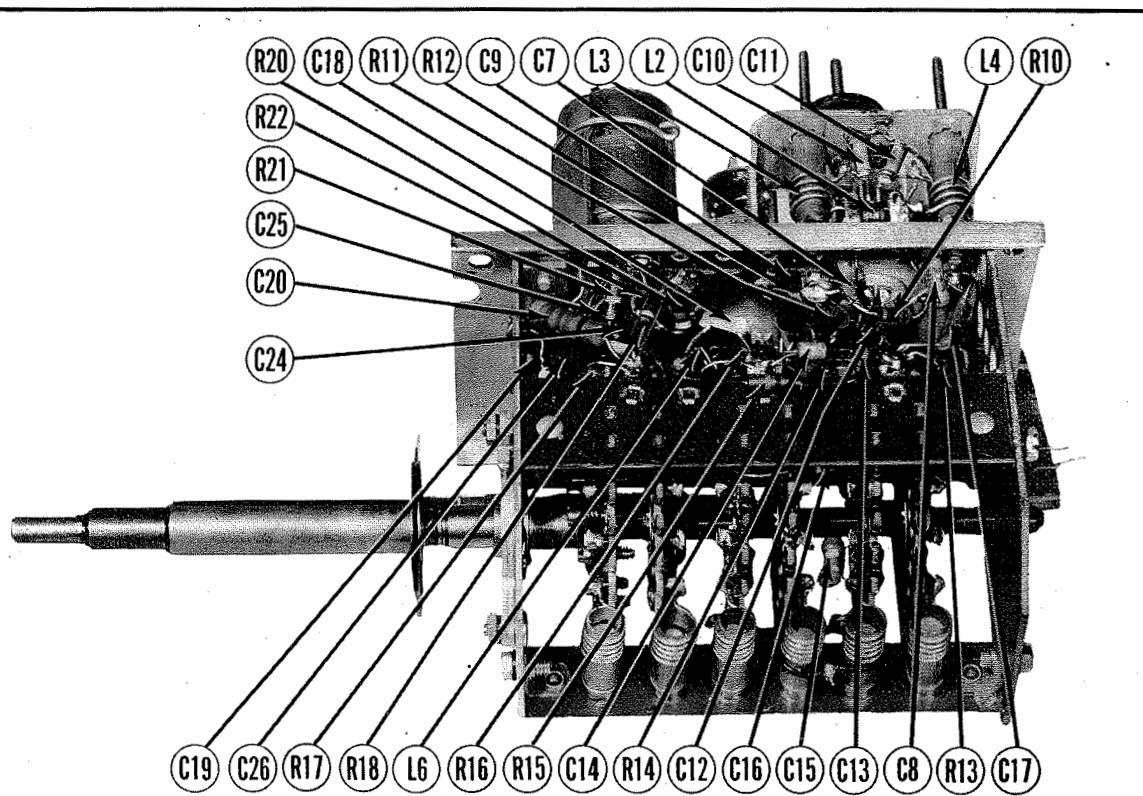
ITEM No.	RATING	RECA PART No.	AEROVOX PART No.	CORNELL PART No.	SOLAR PART No.	SPRAGUE PART No.
G1A	40	71451				
G1B	10	450	71451			
G2A	40	450	71432			
G2B	5	40	450	UF98730-3		
G3A	80	450	71453	UP97731-1		
G4A	40	450	71434	D14368		
G4B	10	350	71435	D14370		
G5A	20	350	71436	D14371		
G5B	80	10	6	UP78808-4		
B1	1000					
B2	270					
B3	1500					
B4	270					
B5	1500					
B6	270					
B7	1500					
B8	270					
B9	1500					
C10	10					
C11	1.5					
C12	1.5					
C13	1.5					
C14	1.5					
C15	2.7					
C16	1500					
C17	270					
C18	1500					
C19	10					
C20	1500					
C21	270					
C22	68					
C23	1500					
C24	4.7					

ITEM No.	RATING	RECA PART No.	AEROVOX PART No.	CORNELL PART No.	SOLAR PART No.	SPRAGUE PART No.
G1A	40	71451				
G1B	10	450	71451			
G2A	40	450	71432			
G2B	5	40	450	UF98730-3		
G3A	80	450	71453	UP97731-1		
G4A	40	450	71434	D14368		
G4B	10	350	71435	D14370		
G5A	20	350	71436	D14371		
G5B	80	10	6	UP78808-4		
B1	1000					

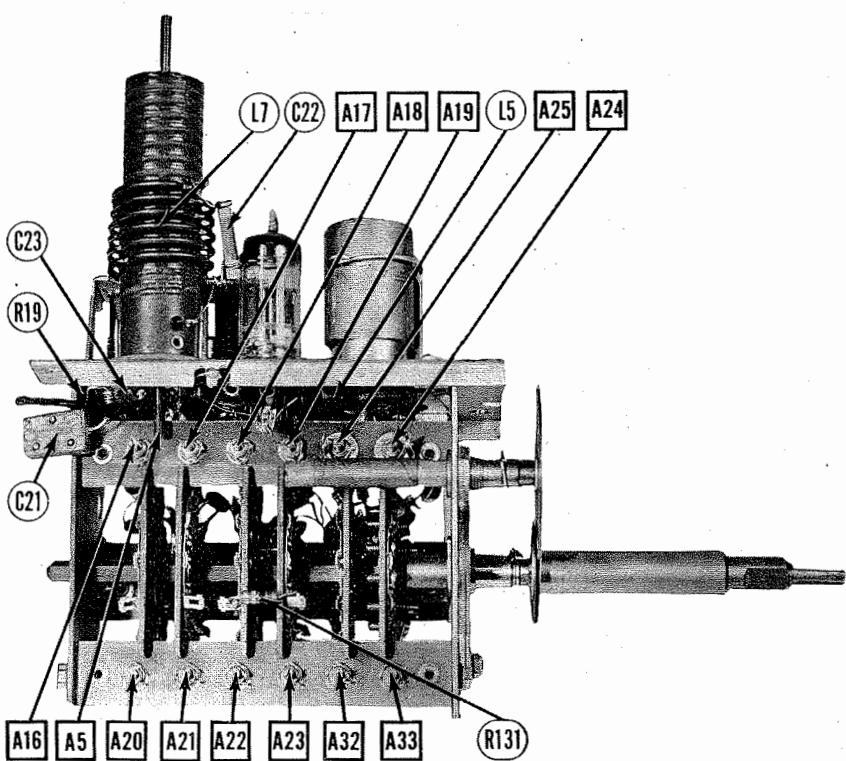
CHASSIS BOTTOM VIEW - TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION



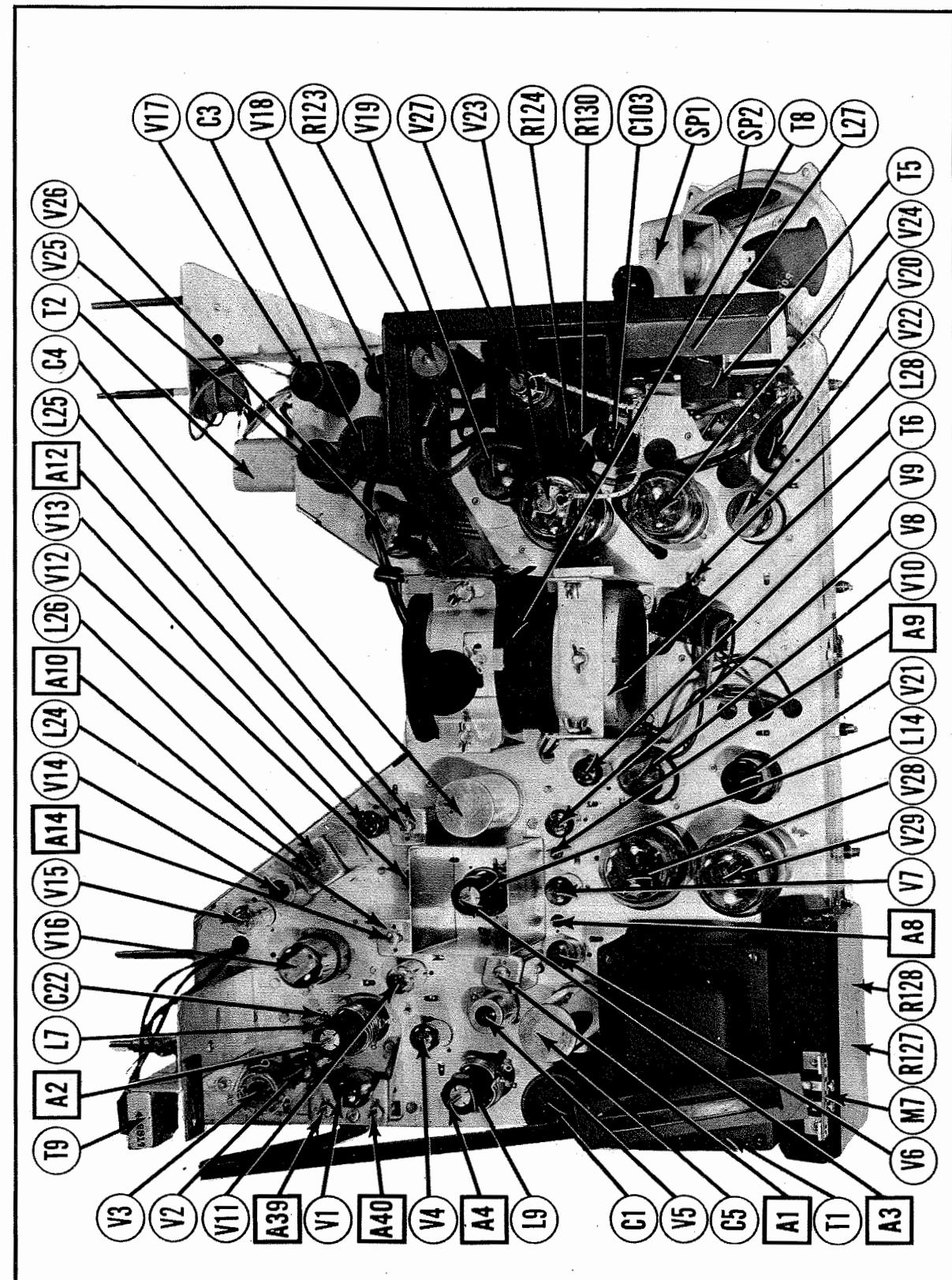
RCA MODELS 630TS,
630CTS, 8TS30



RF TUNER - RIGHT SIDE



RF TUNER - LEFT SIDE



CHASSIS TOP VIEW