

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Before adjusting the Waveform Slug (B1), the width must be properly adjusted.

Set the Horizontal Hold control to the pull-in point. Turn the Width Slug (B2) fully counterclockwise.

With the Brightness control set to normal level, adjust the Width Slug B2 for an overscan of approximately 3/4 inch on each side of the screen at normal line voltage.

Connect a short jumper across the terminals of the Horizontal Waveform (Stabilizer) Coil (L18B) and short the grid (pin 2) of the 8CG7 (V10) to chassis with a small screw driver. Adjust the Horizontal Hold control for an upright picture (may appear to float back and forth across the screen). Remove the jumper from across L18B and adjust B1 to again obtain a picture in an upright position. When B1 is properly adjusted, alternately shorting and removing short should not cause the picture to lose sync but instead cause a slight sideways shift of the picture. Remove the short from the grid of the 8CG7.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 4 push-on type knobs on top of cabinet (and UHF Tuning knobs at side of cabinet on UHF Models).
2. Remove 6 screws in rear cover (Disconnect antenna leads). Remove rear cover.
3. Remove 2 chassis retainer nuts at top of chassis, and 2 chassis bolts at bottom edge.

4. Unplug picture tube socket, yoke plug, anode lead, and speaker leads.
5. Pull chassis straight out.

PICTURE TUBE REMOVAL

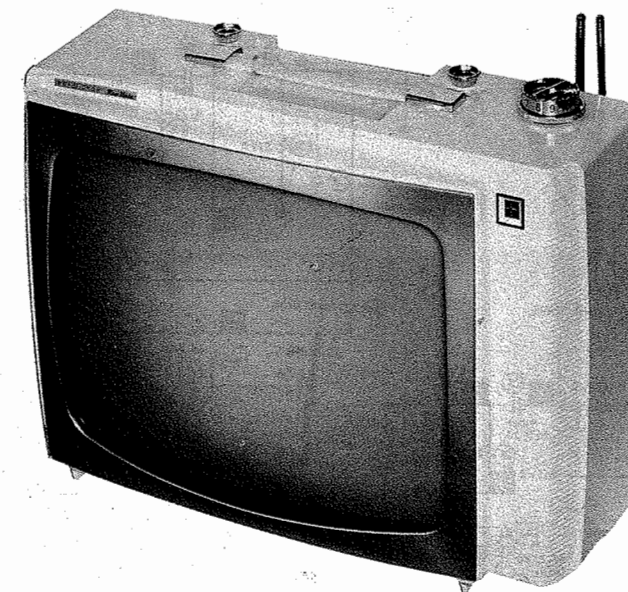
It is necessary to remove the chassis for picture tube removal.

SET 553
FOLDER 2

PHOTOFACT® Folder

with CIRCUITRACE®

RCA VICTOR MODELS 192A062MU/MV,
192A064MU/MV (Ch. KCS138A/B)



MODEL 192A064MV

CAUTION

ONE SIDE OF AC LINE CONNECTED TO CHASSIS.

Care should be exercised when connecting test equipment or physically contacting chassis. Isolation devices employed by manufacturer should be checked and properly connected before returning receiver to owner.

TRADE NAME	RCA Victor	Models	Chassis	VHF Tuner	UHF Tuner
		192A062MV, 192A064MV	KCS138A	KRK103A	
		192A062MU, 192A064MU	KCS138B	KRK104A	KRK66AJ
MANUFACTURER	Radio Corporation of America, RCA Victor Home Instruments Division, Indianapolis 1, Indiana				
TYPE SET	Television Receiver				
TUBES	VHF - Sixteen, UHF - Seventeen				
POWER SUPPLY	110-120 Volts AC, 60 Cycle				
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Inter-carrier)				

SERVICING IN THE FIELD

SAFETY GLASS REMOVAL

It is necessary to remove the picture tube for safety glass cleaning and removal.

FUSE

A 4/10 Amp. (B+) fuse is used for receiver protection. For location, see "Tube Placement Chart".

FUSE DEVICE

A 5Ω fusible resistor is used for low voltage power supply protection. (For location, see "Tube Placement Chart".)

TUNER OSCILLATOR ADJUSTMENT

The oscillator slugs (channels 2 thru 13) are accessible thru holes on the front of the tuner. See "Tuner Alignment" for detailed instructions.

FOCUS

No provision is made to vary the focus on this receiver.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Coarse adjustment of the Horizontal Hold is accomplished by the proper setting of the Horizontal Waveform Coil Slug (B1). For location, see "Tube Placement Chart".

CENTERING

Centering is accomplished by 2 magnetic rings, located behind the yoke, on the neck of the picture tube.

AGC

The AGC may be varied by means of an AGC control. For location, see "Tube Placement Chart".

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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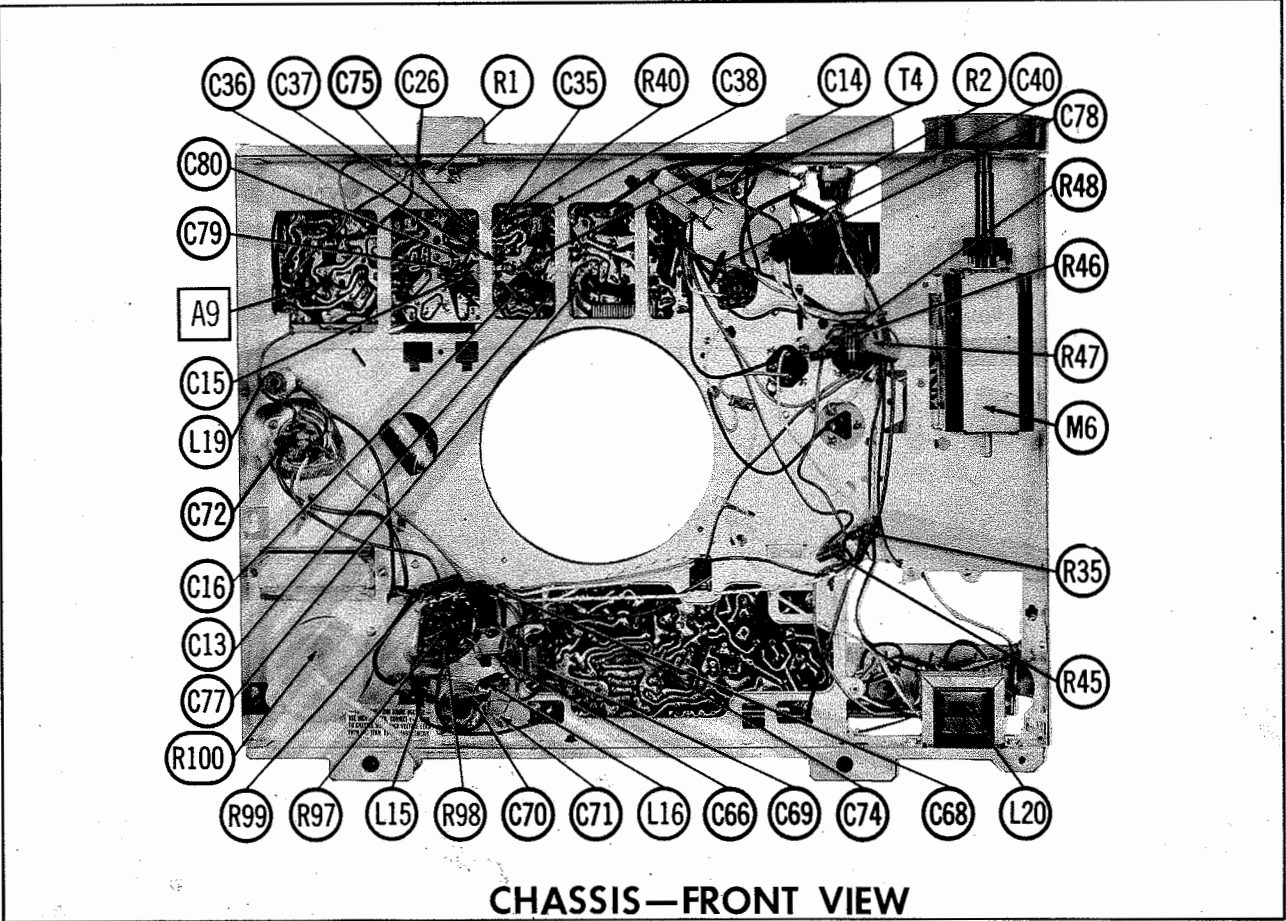
RCA VICTOR MODELS 192A062MU/MV,
192A064MU/MV (Ch. KCS138A/B)

SET 553
FOLDER 2

RESISTANCE MEASUREMENTS

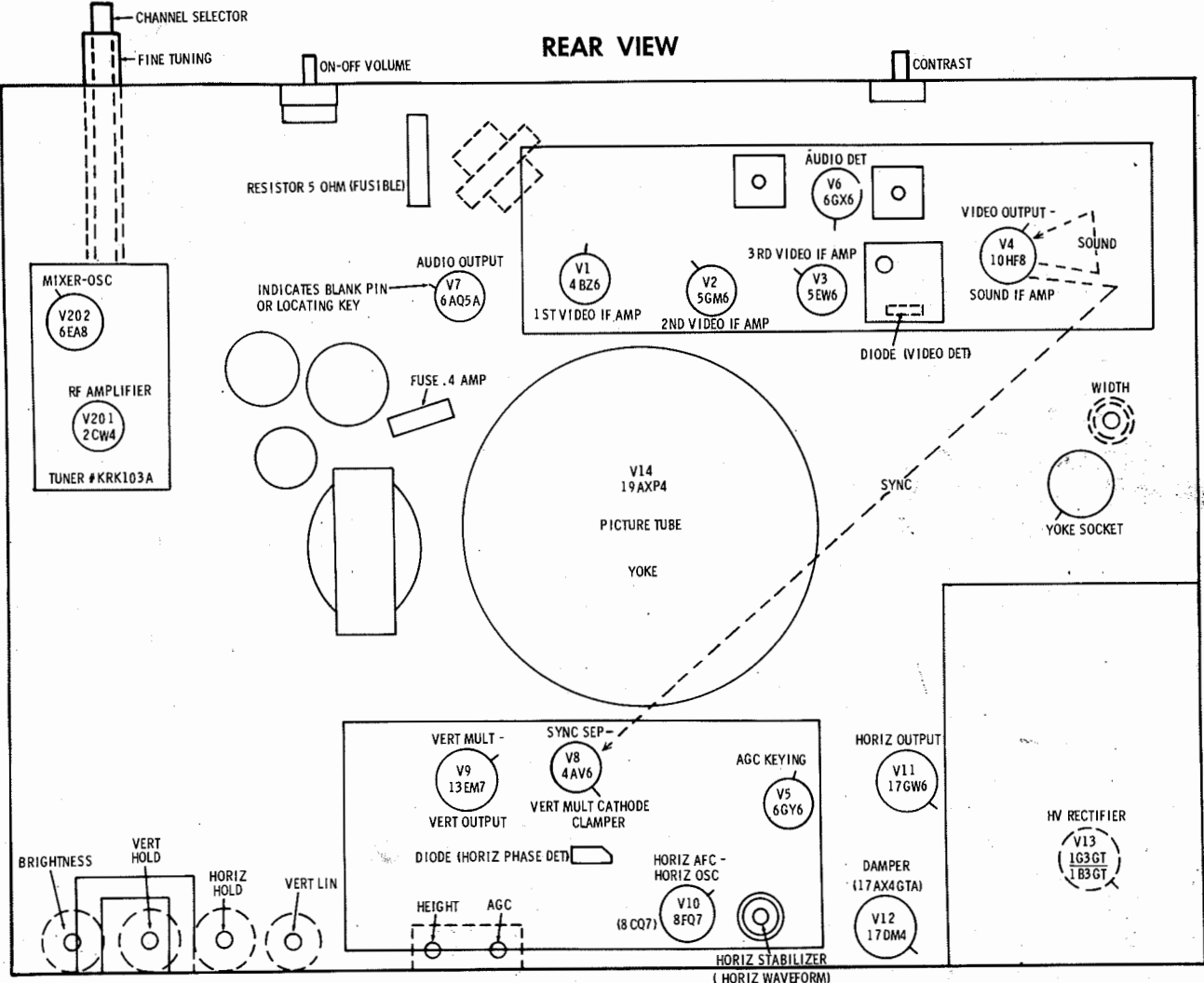
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	4BZ6	1.8meg	56Ω	10Ω	13Ω	■830Ω	■830Ω	0Ω		
V2	5GM6	80K	955K	13Ω	17Ω	†1800Ω	†1800Ω	95K		
V3	5EW6	.1Ω	150Ω	17Ω	22Ω	†4400Ω	†4400Ω	0Ω		
V4	10HF8	270Ω	100K	†47K	30Ω	22Ω	15Ω	3600Ω	†2000Ω	†6500Ω
V5	6GY6	●31K	†10K	50Ω	45Ω	2meg	†3900Ω	†10K		
V6	6GX6	14Ω	560Ω	30Ω	35Ω	†330K	†12K	470K		
V7	6AQ5A	NC	680Ω	40Ω	35Ω	†2600Ω	†2200Ω	●10K		
V8	4AV6	8.5meg	0Ω	50Ω	53Ω	193K	193K	†35K		
V9	13EM7	●1.8meg	†350Ω	●750Ω	●800K	†2.7meg	190K	63Ω	53Ω	
V10	8FQ7	†50Ω	1.4meg	2200Ω	40Ω	45Ω	†80K	●90K	72Ω	0Ω
V11	17GW6	TP	83Ω	TP	†10K	950K	TP	73Ω	0Ω	TOP CAP †12Ω
V12	17DM4	NC	NC	5.6meg	NC	†50Ω	NC	63Ω	73Ω	
V13	1G3GT 1B3GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †470Ω
V14	19AXP4	5Ω	27K	†1.8meg	0Ω	NC	NC	●160K	10Ω	
V201	2CW4	Pin 2 †15K	Pin 4 2.5meg	Pin 8 0Ω	Pin 10 0Ω	Pin 12 1Ω				
V202	6EA8	†8700Ω	100K	▲2200Ω	1Ω	5Ω	▲3200Ω	0Ω	INF	▲5600Ω
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

● THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.
† MEASURED FROM OUTPUT OF M1.
▲ MEASURED FROM PIN 8 OF V202.
‡ MEASURED FROM PIN 3 OF V12.
NC NO CONNECTION
TP TIE POINT
■ MEASURED FROM PIN 2 OF V2.



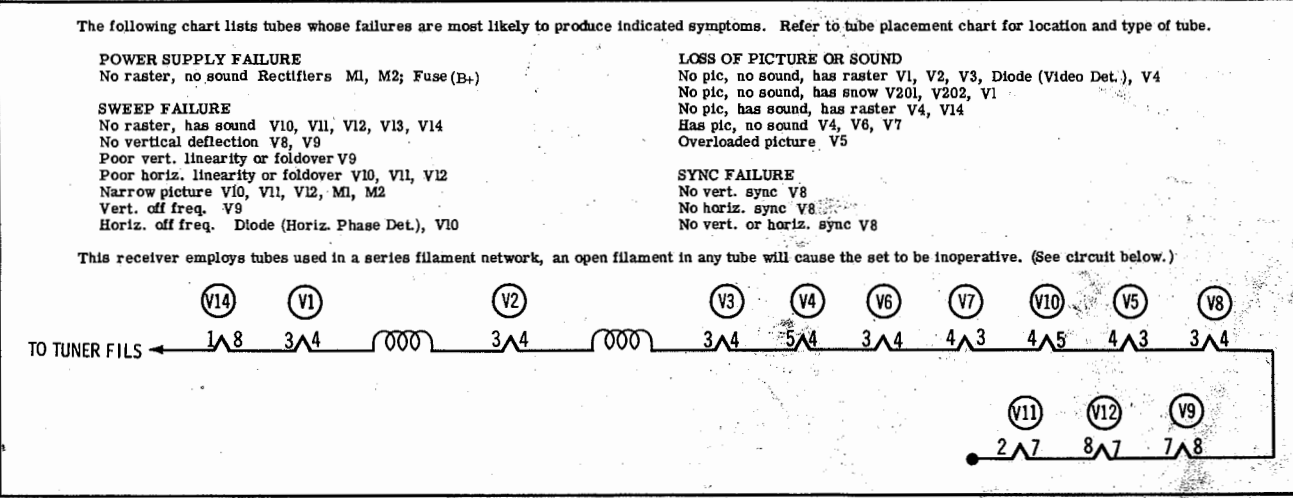
CHASSIS—FRONT VIEW

TUBE PLACEMENT CHART



RCA VICTOR MODELS 192A062MU/MV,
192A064MU/MV (Ch. KC5138A/B)

TUBE FAILURE CHECK CHART



FOLDER 2

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

Use an ISOLATION TRANSFORMER TO PROTECT the Test Equipment.
Allow a 20 minute warm-up period for the receiver and test equipment.
The High Voltage lead should be securely taped and kept away from the chassis.
Suggested Alignment Tools: GENERAL CEMENT #8282, 8606, 8606L, 9295, 9440
WALSCO #2526, 2543, 2544, 2545

VIDEO IF ALIGNMENT

Connect the negative lead of a 6 volt bias supply to point **A**. Positive to chassis.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1.	High side thru 1500 mmf to Mixer Grid Test Point Low side to chassis.	44.5MC (Unmod.)	Any non-interfering channel	DC probe to TP-2. Common to chassis.	A1	Adjust for maximum deflection. Adjust generator output for 3 volts on meter when finally peaked.
2.	"	45.5MC	"	"	A2	"
3.	"	43.0MC	"	"	A3	"
4.	"	47.25MC	"	"	A4	Adjust for MINIMUM deflection.

OVERALL VIDEO IF RESPONSE CHECK

Connect bias as under "Video IF Alignment".
Connect a .001mfd Capacitor in series with a 180 Ω Resistor from TP-1 to chassis with the Capacitor connected to TP-1.
The Vert. Amp. of the scope is to be connected thru a demodulator probe to the junction of the resistor and capacitor.
Couple the signal generator loosely to sweep output cable to provide markers.

	SWEPT GENERATOR COUPLING	SWEPT GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
5.	High side thru 1500 mmf to Mixer Grid Test Point. Low side to chassis.	45.0MC (10MC Swp.)	42.5MC 45.75MC	4	High side thru de-modulator probe to junction of 180Ω and .001mfd. Low side to chassis. Calibrate scope for 0.5 volts peak to peak.	A5 and Mixer Plate Coil	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Remove the 180Ω resistor and .001 mfd capacitor from TP-1 and chassis.
6.	"	"	42.5MC 45.0MC 45.75MC	"	Vert. Amp. thru 10K to TP-2. Low side to chassis. (Across Video Detector load). Calibrate scope for 5 volts peak to peak.	Al, A2, A3	Check for response similar to Fig. 2. If necessary, retouch Al, A2 and A3 for desired response.
7.	High side thru pad (Fig. 3) to Mixer Grid Test Point. Low side to chassis.	Not Used	45.75MC	"	Use VTVM DC probe to TP-2. Common to chassis.		Adjust signal generator output to provide exactly 1.5 volts on VTVM.
8.	Remove pad. High side of generator to Mixer Grid Test Point directly. Low side to chassis.	"	41.25MC	"	"	Al, A3	Retouch Al and A3 for 1.2 to 1.5 volts on VTVM.
9.	Across antenna terminals thru matching network (Fig. 4).	Each VHF channel in turn.	42.5MC 45.0MC 45.75MC	All VHF Channels	Vert. Amp. thru 10K to TP-2. Low side to chassis.	Al, A2	Check for response similar to Fig. 2 for each channel. If necessary, retouch Al and A2 SLIGHTLY to correct tilt or other conditions that are approximately the same on all channels.

SOUND IF ALIGNMENT

Connect the negative lead of a 10 volt bias supply to point **A**. Positive to chassis. Set VTVM to read negative voltage.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
10.	High side thru .001 mfd to TP-2. Low side to chassis.	4.5 MC (Unmod.)	Any non-interfering channel	DC probe thru diode probe (Fig. 5) to pin 7 (grid 3) of Audio Det. Common to chassis.	A6, A7	Adjust for maximum negative voltage on VTVM. Attenuate generator for a reading between 1.0 and 1.5 volts on VTVM when finally peaked.
11.	Remove VTVM and Diode Probe.. Connect scope across Volume control. Turn off signal generator and tune in the strongest TV station in the area and adjust the Volume control for Normal volume. Preset slug A8 flush with top of coil form. While observing scope and listening to the sound, adjust A8 clockwise to a peak. Continue turning clockwise to a second louder peak and adjust for maximum volume at the second peak.					

4.5MC TRAP ALIGNMENT

Set Contrast control fully clockwise.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
12.	High side thru .01 mfd to TP-2. Low side to chassis.	4.5 MC (400% 30% AM)	Any non-interfering channel	Vert. Amp. thru de-modulator probe to cathode of picture tube. Low side to chassis.	A9	Adjust for MINIMUM 400v indication on scope.

ALIGNMENT INSTRUCTIONS (cont)

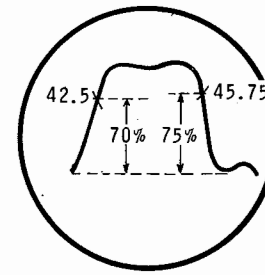


FIG. 1

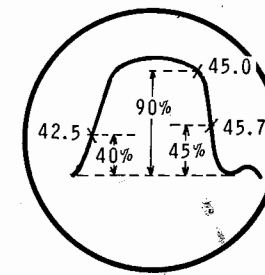


FIG. 2

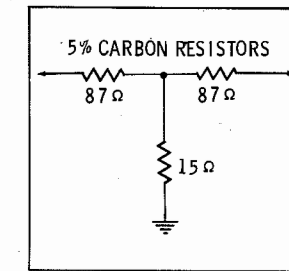


FIG. 3

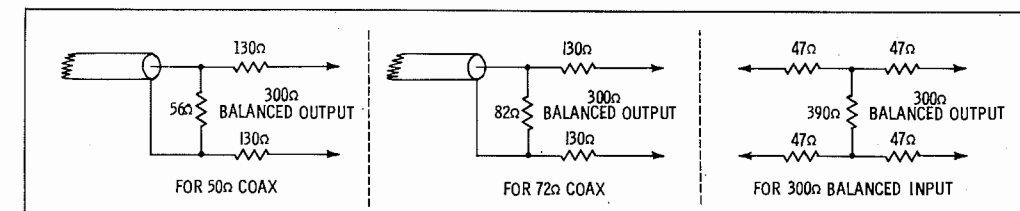


FIG. 4

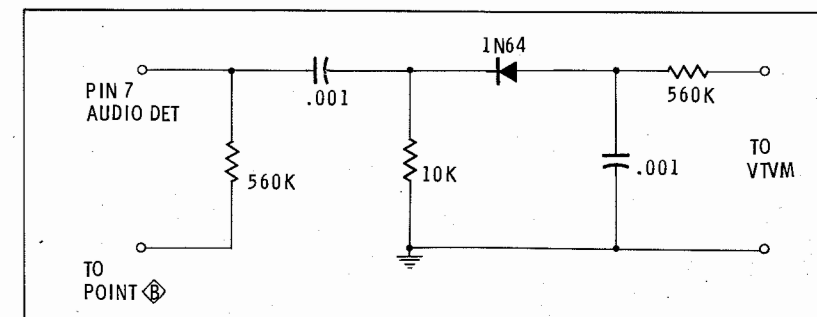
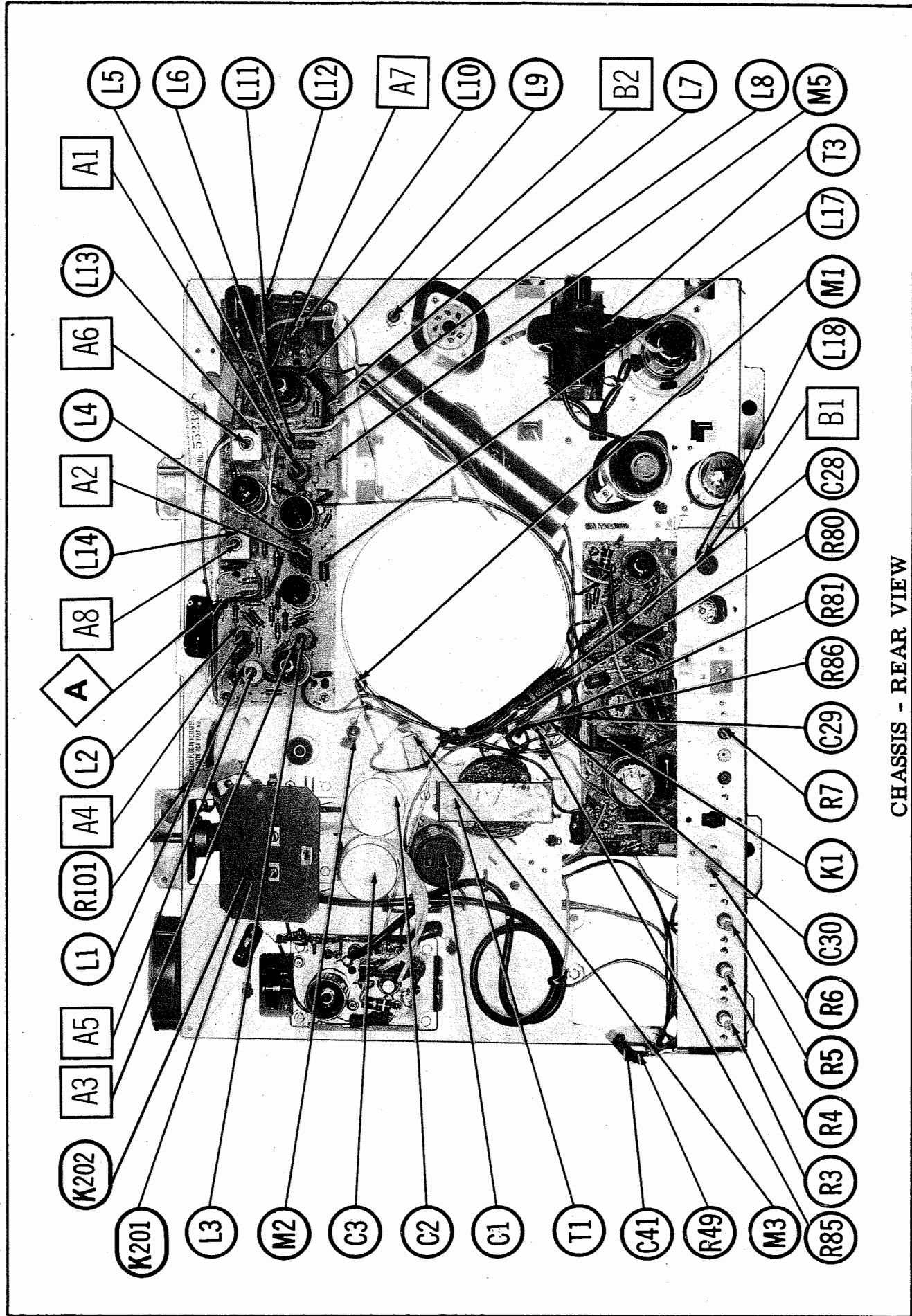


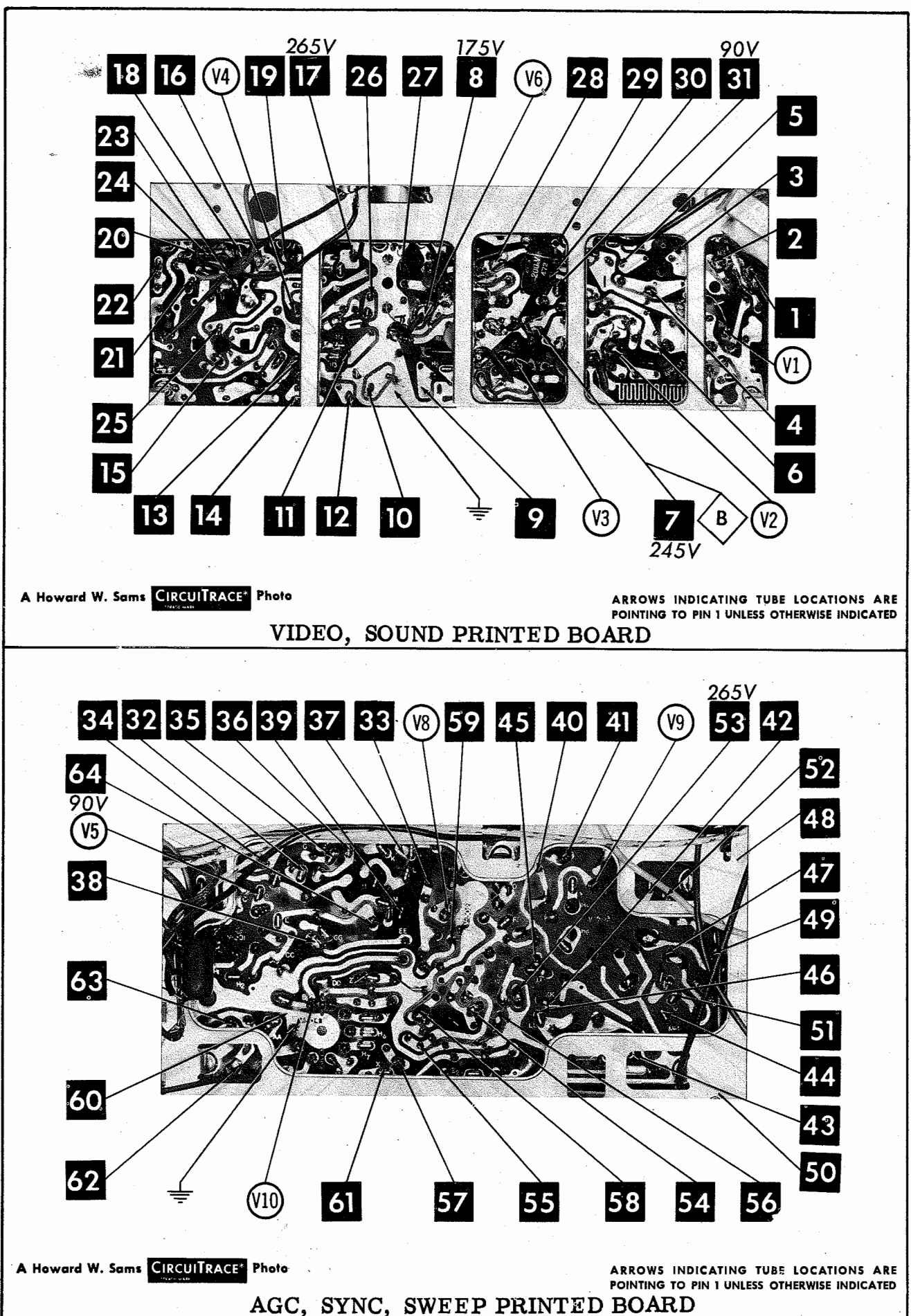
FIG. 5

**RCA VICTOR MODELS 192AC62MU/MV,
192A064MU/MV (Ch. KCS138A/B)**

FOLDER 2

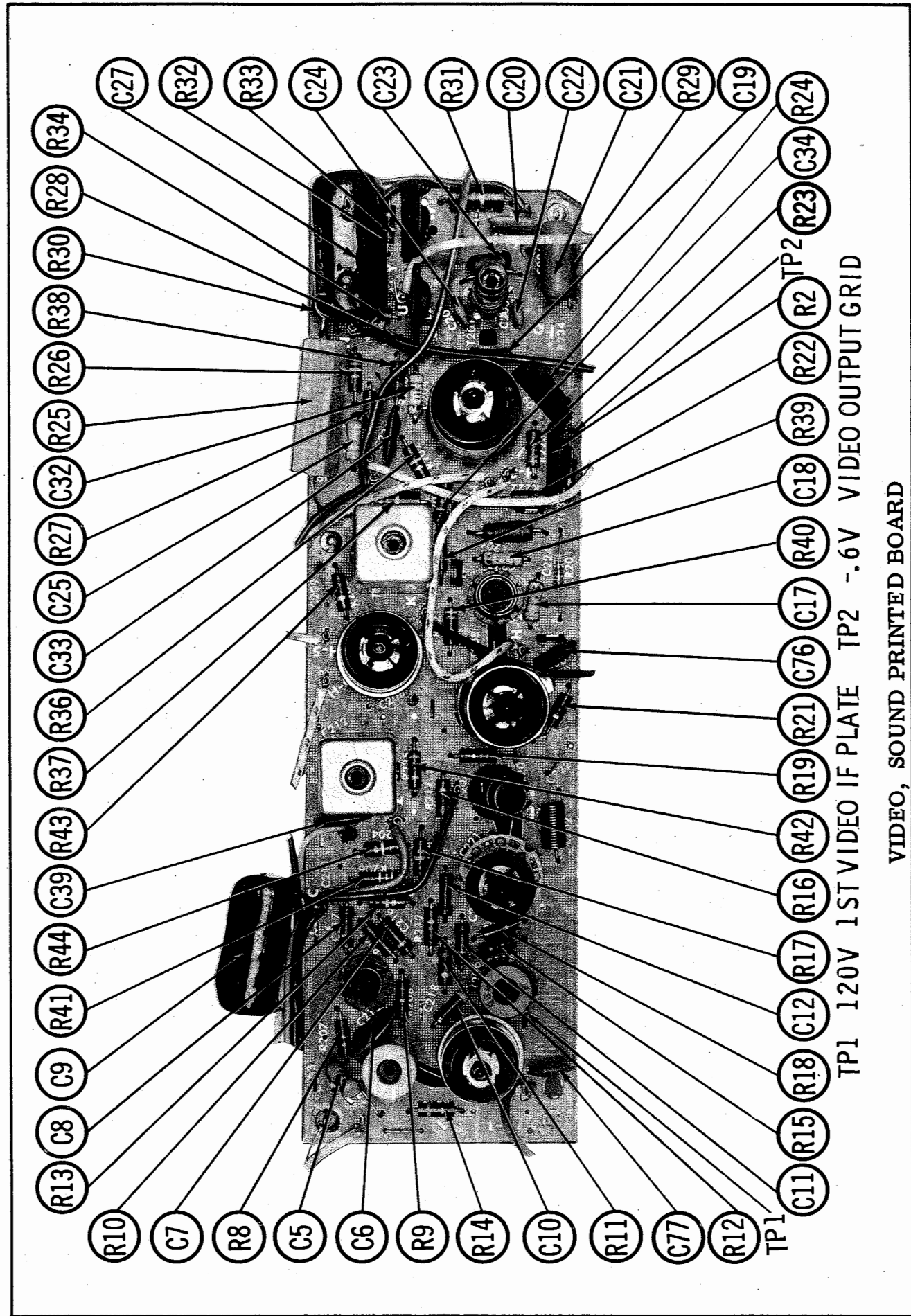


CHASSIS - REAR VIEW

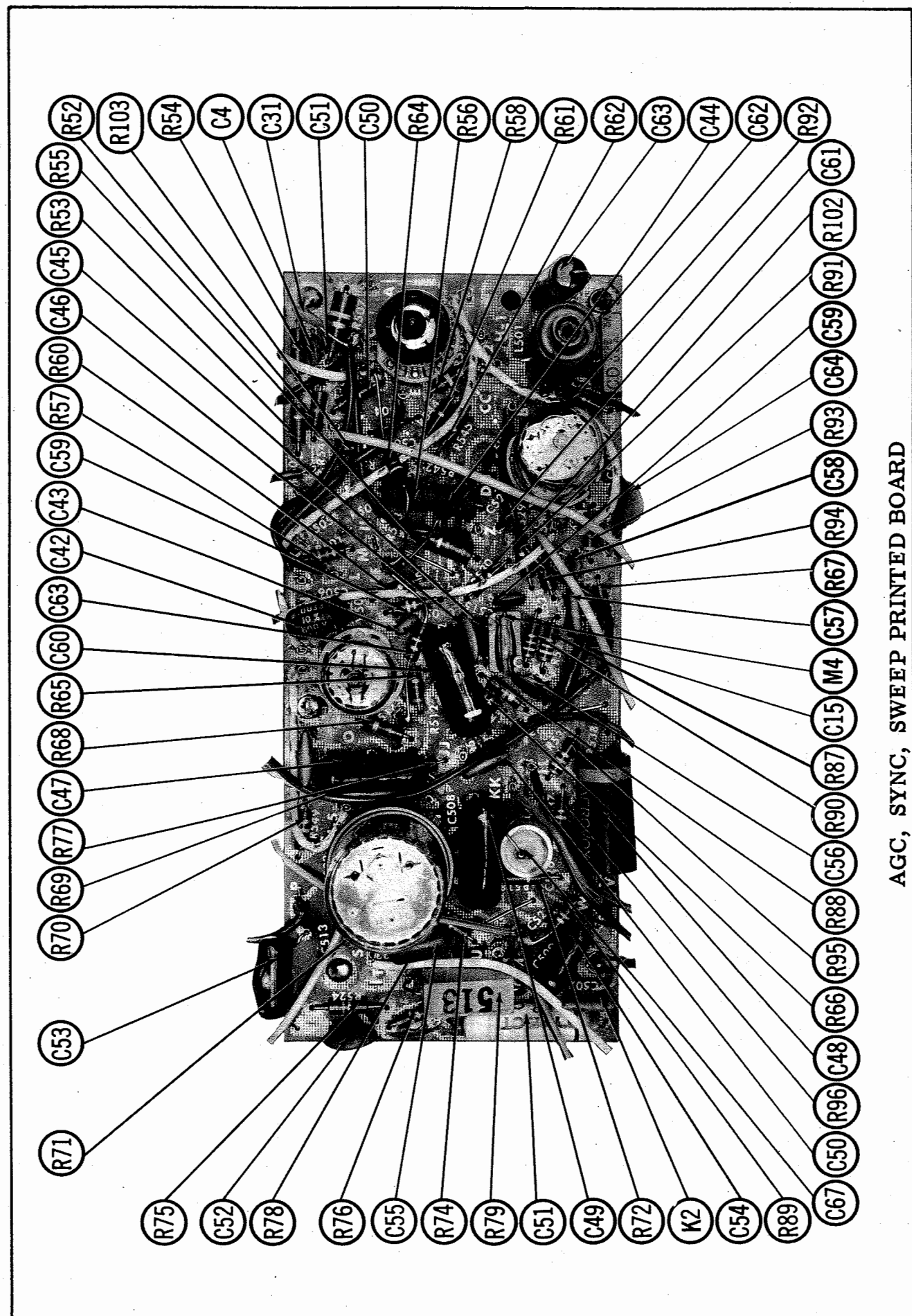


RCA VICTOR MODELS 192A062MU/MV,
192A064MU/MV (Ch. KCS139A/B)

FOLDER 2

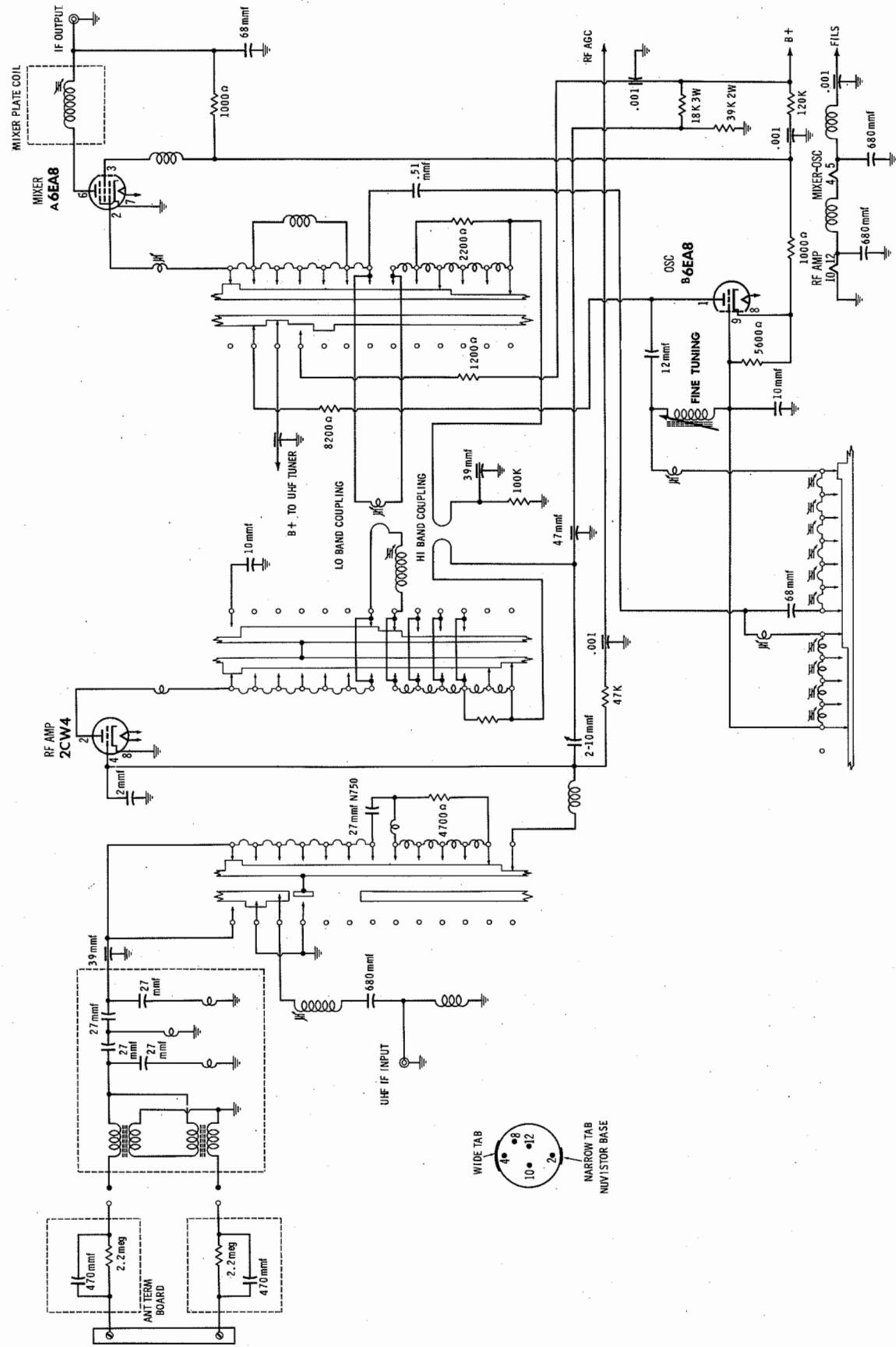


VIDEO, SOUND PRINTED BOARD



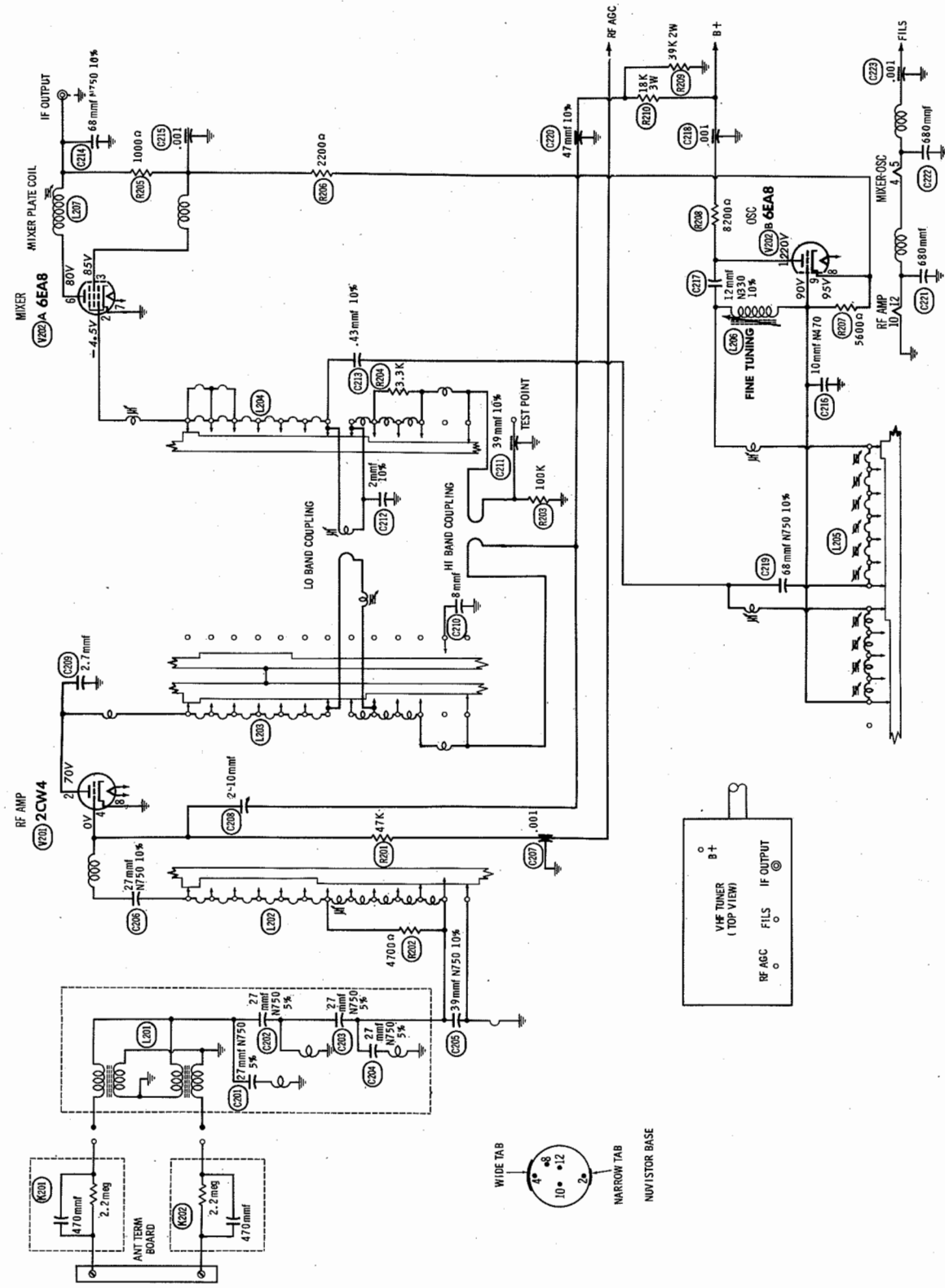
AGC, SYNC, SWEEP PRINTED BOARD

RCA VICTOR MODELS 192A062MU/MV,
192A064MU/MV (Ch. KC5139A/B)



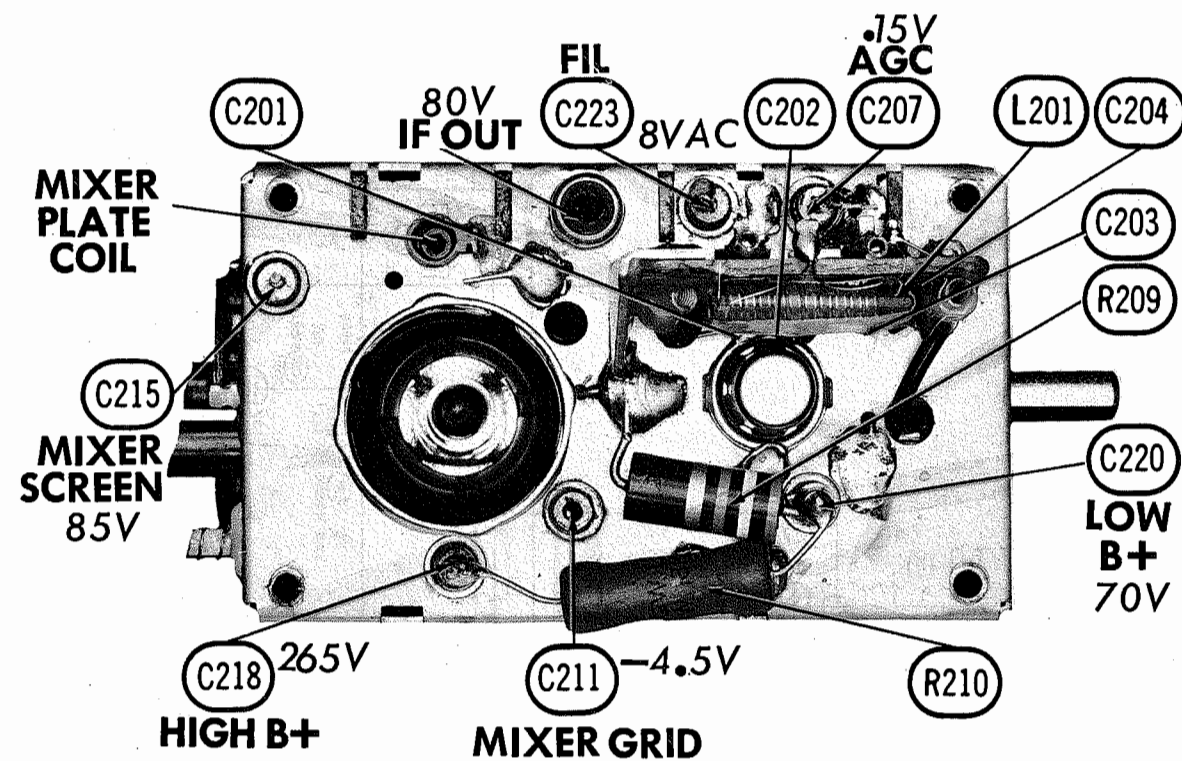
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VHF TUNER WITH UHF PROVISIONS - KRK104A

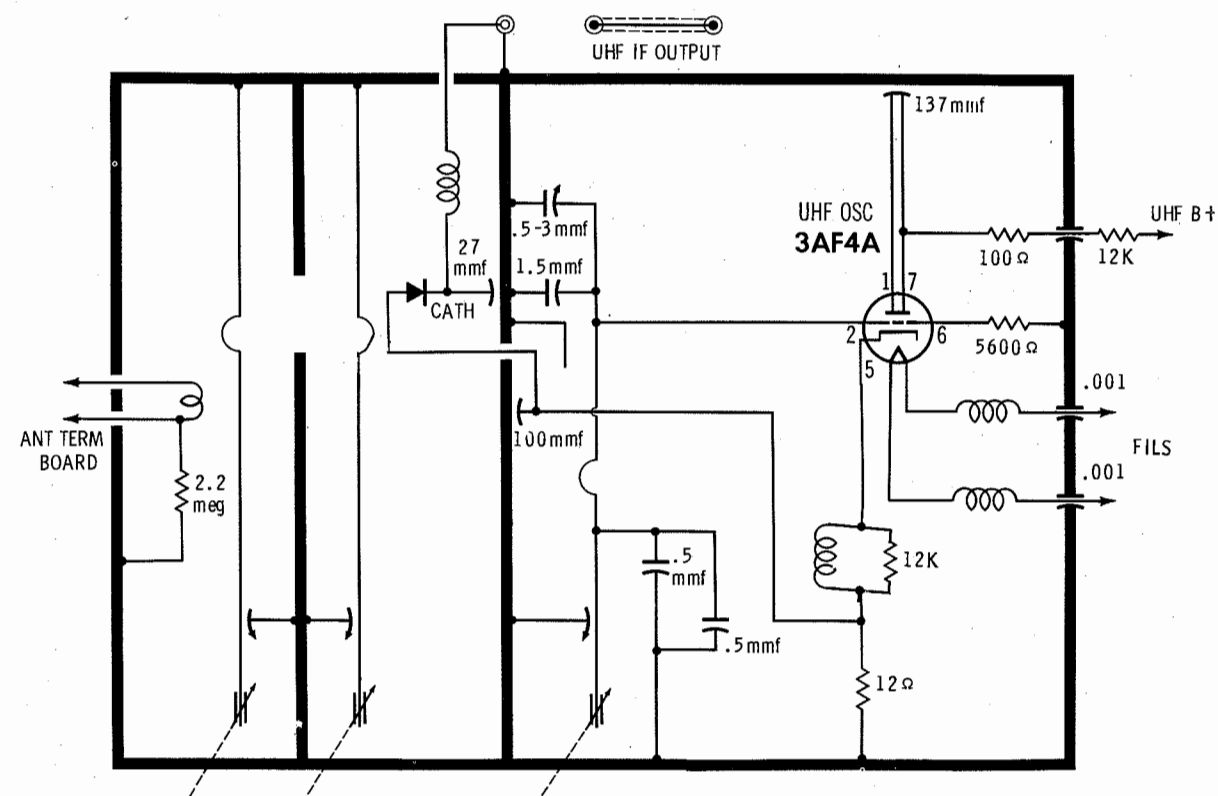


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RCA VICTOR MODELS 192A062MU/MV,
192A064MU/MV (Ch. KCS139A/B)
A301K104A

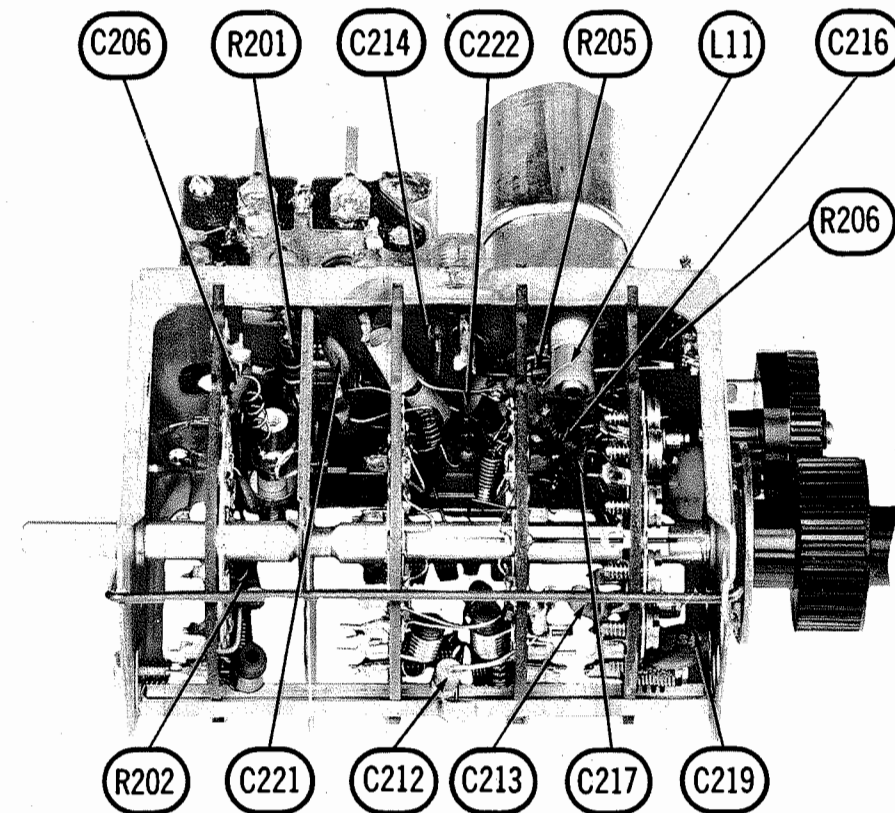


VHF TUNER KRK103A —TOP VIEW

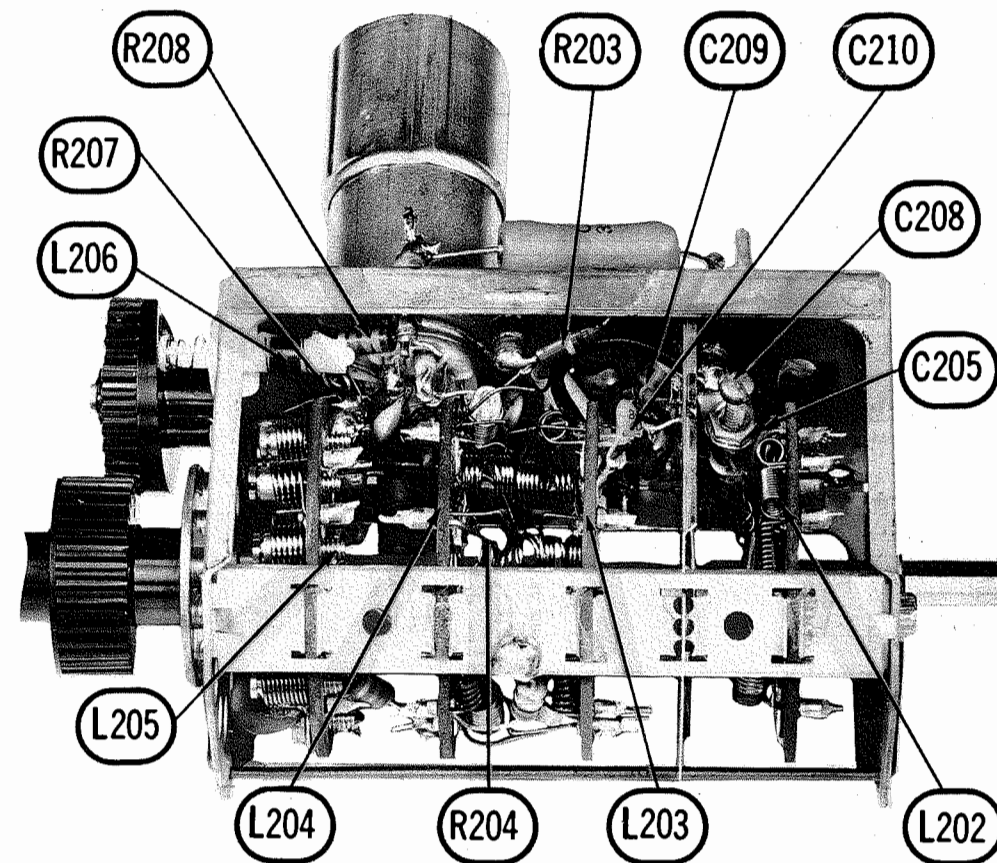


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UHF TUNER KRK66AJ



VHF TUNER KRK103A - LEFT SIDE



VHF TUNER KRK103A - RIGHT SIDE

RCA VICTOR MODELS 192A062MU/MV,
192A064MU/MV (Ch. KCS139A/B)

FOLDER 2

PARTS LIST AND DESCRIPTIONS (Continued)

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		RCA Victor PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
M4 M5	1N64	109328 * 78875B *	6GCI *	1N64	* Dual Selenium, Common Cathode Type * Crystal Diode, Video Detector

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M6	Tuner	KRK103A	VHF, Complete (Ch. KCS138A)
	Tuner	KRK104A	VHF with UHF Provisions (Ch. KCS138B)
	Tuner	KRK66AJ	UHF (Ch. KCS138B)
M7	Antenna, VHF	109920	Telescoping (2 Required) JFD REPLACEMENT Type #TA543

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

DESCRIPTION	PART NO.	MODEL NO.				DESCRIPTION	PART NO.	MODEL NO.			
		192A062MV	192A062MU	192A064MV	192A064MU			192A062MV	192A062MU	192A064MV	192A064MU
Safety Glass	109019	X	X	X	X	Knob- "	109925			X	X
Mask-Black Shell Gray	109908	X				Knob-UHF Channel Selector	109924		X		X
Mask- " "	109909		X			Knob-Fine Tuning	109927	X	X		
Mask-Tuskon Ivory/Gold	109910			X		Knob- "	109928			X	X
Mask- " "	109911				X	Knob-Contrast, Volume	109922	X	X		
Dial-UHF Channel Indicator	109929		X		X	Knob- " "	109923			X	X
Knob-VHF Channel Selector	109926	X	X			Handle-Tuskon Ivory	*109917			X	X
						* May be used for Models	192A062MV/MU				

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874
3000 Ω Tuner Input Lead	Use BELDEN No. 8225
3000 Ω Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor

VHF TUNER ALIGNMENT INSTRUCTIONS

VHF OSCILLATOR ALIGNMENT

Set Fine Tuning so that the Channel 13 Oscillator Adjustment Slug may be reached thru the hole in the Fine Tuning cam. Turn receiver on and tune in highest channel operating in the area. Adjustments must be made in descending order from the highest channel operating in the area to the lowest. Adjust proper slug for best picture and sound. See Fig. 201 for proper adjustment screw location.

VHF RF AND MIXER ALIGNMENT

This portion of the tuner has been properly aligned at the factory and is very stable. Alignment of this portion should not be attempted in the field.

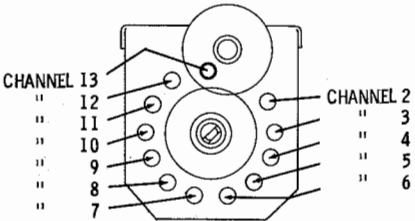


FIG. 201

VHF TUNER PARTS LIST AND DESCRIPTIONS

KRK103A

TUBES

GENERAL ELECTRIC			RAYTHEON		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	
V201	RF Amp.	2CW4	V202	Mixer - Osc.	6EA8	

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	27 N750 5%			TCN-27	C10Q27U		CN7-427	10TCU-Q27
C202	27 N750 5%			TCN-27	C10Q27U		CN7-427	10TCU-Q27
C203	27 N750 5%			TCN-27	C10Q27U		CN7-427	10TCU-Q27
C204	27 N750 5%			TCN-27	C10Q27U		CN7-427	10TCU-Q27
C205	39 N750 10%			TCN-39	C10Q39U	CCTN-390	CN7-439	10TCU-Q39
C206	27 N750 10%			TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27
C207	.001			MFT-1000		CCF-102	CT280A	
C208	2-10	#112038	EF-001	829-10				
C209	2.7		NPO-SI 3.0		C10V3C			10TCC-V27
C210	8		NPO-DI 8, 2		C10V8C			10TCC-V82
C211	39 10%	#112040						
C212	2 10%		NPO-SI 2.0	TCZ-2R2	C10V2C	CCTO-2R2	CNO-522	10TCC-V22
C213	.43mmf 10%	#109350						
C214	68 N750 10%		N750-DI 68	DTN-68	C10Q68U	CCTN-680	CN7-468	10TCU-Q68
C215	.001		EF-001	MFT-1000		CCF-102	CT280A	
C216	10 N470	#109572						10TCS-Q12
C217	12 N330 10%	#112042						
C218	.001		EF-001	MFT-1000		CCF-102	CT280A	
C219	68 N750 10%		N750-DI 68	DTN-68	C10Q68U	CCTN-680	CN7-468	10TCU-Q68
C220	47 10%	#112039						
C221	680		DI-680	DD-681	BYA10T68	CCD-681	B-368	10TS-T68
C222	680		DI-680	DD-681	BYA10T68	CCD-681	B-368	10TS-T68
C223	.001		EF-001	MFT-1000		CCF-102	CT280A	

RCA Victor Part Number

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R201	47K				R206	2200 Ω			
R202	4700 Ω				R207	5600 Ω			
R203	100K				R208	8200 Ω			
R204	3300 Ω				R209	39K 2W			
R205	1000 Ω				R210	18K 3W	PW3-18K	3G-18K	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	RCA Victor PART No.	REPLACEMENT DATA
K201	Antenna Filter	470mmf, 2.2meg	109956	Centralab RC-471
K202	Antenna Filter	470mmf, 2.2meg	109956	Sprague ACI-1 Centralab RC-471 Sprague ACI-1

COILS (RF-IF)

ITEM No.	USE	RCA Victor PART No.	NOTES
L201	Ant. Trans.	112050	
L202	Antenna	112049	Assembly Channel 2-13, Includes Wafer Assembly
L203	RF Mixer	112048	"
L204		112047	"
L205	Oscillator	112045	Channel 2-13 Includes Wafer Assembly
L206	Fine Tuning	112044	
L207	Mixer Plate	112043	

RCA VICTOR MODELS 192A062MU/MV,
192A064MU/MV (Ch. KCS138A/B)

FOLDER 2

PARTS LIST AND DESCRIPTIONS

TUBES

GENERAL ELECTRIC			RAYTHEON		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	
V1	1st Video IF Amp.	4BZ6	V8	Sync Separator -	4AV6	
V2	2nd Video IF Amp.	5GM6		Vert. Mult. Cath. Clamper		
V3	3rd Video IF Amp.	5EW6	V9	Vert. Mult. - Vert. Output	13EM7	
V4	Video Output -		V10	Horiz. AFC - Horiz. Osc.	8FQ7 (6CG7) *	
	Sound IF Amp.	10HF8	V11	Horiz. Output	17GW8	
V5	AGC Keying	8GY6	V12	Damper	17DM4 (17AX4GTA) *	
V6	Audio Detector	8GX6	V13	HY Rectifier	1G3GT/1B3GT	
V7	Audio Output	6AQA5A				

* Alternate

PICTURE TUBE

REPLACEMENT DATA					NOTES
ITEM No.	RCA Victor PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V14	19AXP4		19AXP4 ①	19AXP4 ②	① Aluminized ② Silver Screen "85"

ELECTROLYTIC CAPACITORS

RATING		REPLACEMENT DATA						
ITEM No.	CAP. VOLT.	RCA Victor PART No.	AEROVOX PART No.	CORNELL-DUBILER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	150	200	107472	AFH1-25-70	XC1-14	WP125.9	TD-150-200	TVLS-1539 *
C2A	150	350	109933	AFH3-112-77	XC2-12	WP420.25	TMD-2440	TVL-2843
B	150	350			QY1-23		TD-100-50	TVL-1310
C	100	350						
C3A	100	350	109889	AFH4-56-60	XC4-14	FP420.405	TMQ-4268	TVL-4632
B	100	350						
D	20	25						

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

RATING		REMARKS	REPLACEMENT DATA						
ITEM No.			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.	
C4	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C5	9	NPO 5%	NPO-SI 10	TCZ-10	C10V9C	CCTO-100	CNO-410	10TCC-Q10	
C6	100	NPO 5%		DTZ-100	C10T1C		CNO-310	10TCC-T10	
C7	.001		SI 1000	D6-102	BYA10D1	CCD-102	B-210	5HK-D10	
C8	.001		SI 1000	D6-102	BYA10D1	CCD-102	B-210	5HK-D10	
C9	.39	200V 10%							
C10	470		SI 470	D6-470	BYA10T47	CCD-471	B-347	10TS-T47	
C11	.001		SI 1000	D6-102	BYA10D1	CCD-102	B-210	5HK-D1	
C12	.001		SI 1000	D6-102	BYA10D1	CCD-102	B-210	5HK-D1	
C13	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D1	
C14	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D1	
C15	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D1	
C16	.0047		BPD-0047	DD-472	BYA10D47M	CCD-473	B-247	5HK-D47	
C17	7	NPO ±.5mmf	NPO-SI 6.8	TCZ-6R8	C10V7C	CCTO-6R8	CNO-568	10TCC-V68	
C18	5	NPO ±.5mmf	NPO-SI 5.0	TCZ-4R7	C10V5C	CCTO-050	CNO-547	10TCC-V50	
C19	.001		SI 1000	D6-102	BYA10D1	CCD-102	B-210	5HK-D10	
C20	100	10%	DI-100	DD-101	L10T1	CCD-101	GP310	10TS-T10	
C21	.022	200V 10%	V84C2522-10%	TCZ-12	PM4S22	4DP-2-223	GEM-1612	2TM-S22	
C22	12	NPO 10%			C10Q12C	CCTO-120	CNO-412	10TCC-Q12	
C23	3	N750 ±1mmf		TCN-3R3			CN7-533	10TCC-V33	
C24	39	N150 10%						10TCP-Q39	
C25	33	N750 10%	N750-SI 33	TCN-33	C10Q33U	CCTN-330	CN7-433	10TCU-Q33	
C26	47	N750 10%	N750-DI 47	DTN-47	C10Q47U	CCTN-470	CN7-447	10TCU-Q47	
C27	.22	600V	P888N-22		CUB6P22	6DP-5-224	GEM-8022	6TM-P22	
C28	.047	400V	P488N-47	DD-503	CUB4S47	4DP-3-473	GEM-8147	4TM-S47	
C29	.0047	600V	P888N-0047	DD-472	CUB6D47	6DP-1-472	GEM-8247	6TM-D47	
C30	.001	1400V	DAC-2	DD30-102	HVB18D1	3CCD-102	UAC-210	BL-D10	
C31	47	N750 10%	N750-DI 47	DTN-47	C10Q47U	CCTN-470	CN7-447	10TCU-Q47	
C32	56	N750	N750-SI 56	DTN-56	C10Q56U	CCTN-560	CN7-456	10TCU-Q56	
C33	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C34	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C35	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C36	.0033		BPD-0033	DD-332	BYA10D33	CCD-332	B-233	5HK-D33	
C37	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C38	.047	200V	P288N-47	DD-503	CUB2S47	4DP-3-473	GEM-4147	4TM-S47	
C39	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C40	.0039	10%	DI-4000		DPMS16D4	CCD-392	JL-239	10TS-D39	
C41	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C42	.0033	600V 10%	V84C8D33-10%		PM6D33	6DP-1-332	GEM-16233	6TM-D33	
C43	270	10%	DI-270	DD-271	L10T27	CCD-271	GP327	10TS-T27	
C44	150	10%	DI-150	DD-151	L10T15	CCD-151	GP315	10TS-T15	
C45	66	N750 10%	N750-DI 66	DTZ-66	C10Q66U	CCTN-660	CN7-468	10TCU-Q66	
C46	100	N750 10%	N750-DI 100	DTZ-100	C10T1U	CCTN-101	CN7-310	10TCU-T10	
C47	.047	400V	P488N-47	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47	
C48	.1	400V	P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10	
C49	.047	400V	P488N-47	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47	
C50	.0022	10%	DI-2200		PM6D22	CCD-222	GP-222	10TS-D22	
C51	.0082	400V 10%	P684CM-0082		DPMS16D82	8DP-2-822	GEM-16282	8TM-D82	
C52	.001	2000V	HVD-30-1000	DD30-102	HVB20D1	3CCD-102	2HV-210	BL-D10	
C53	.015	600V 10%	V84C8S15-10%		PM6S15	6DP-2-153	GEM-16215	6TM-S15	
C54	.018	400V 10%	P884CM-018		PM4S2	6DP-2-203	GEM-1612	6TM-S20	
C55	.0022	600V 10%	V84C8D22-10%		PM6D22	6DP-1-222	GEM-16222	6TM-D22	
C56	100	N750 10%	N750-DI 100	DTN-100	C10T1U	CCTN-101	CN7-310	10TCU-T10	
C57	.0012	10%	DI-1200	DD-122	IR5D12	CCD-122	GP212	10TS-D12	
C58	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-110	5HK-D10	
C59	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-110	5HK-D10	
C60	.056	200V 10%	P684CM-057		6PMS6S56	6DP-3-563	6PS-S56		
C61	470		DI-470	DD-471	BYA10T47	CCD-471	B-347	10TS-T47	
C62	470	5%	1469-00047		5R5T47	CM-19B-471J	MS-347		
C63	.01	400V 10%	V84C4S1-10%		PM4S1	4DP-1-103	GEM-1611	4TM-S10	
C64	.001	10%	DI-1000	DD-102	5R5D1	CCD-102	GP210	10TS-D10	
C65	470	10%	1469-00047		5R5T47	CCD-471	MS-347		
C66	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C67	.1	200V	P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10	

FIXED CAPACITORS (cont)

RATING		REMARKS	REPLACEMENT DATA						
ITEM No.			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.	
C68	.047	600V	P688N-047	DD-503	CUB6S47	6DP-3-473	GEM-8147	6TM-S47	
C69	.022	4000V 10%	P688N-022	DD-203	CUB6S22	6DP-2-223	GEM-8122	6TM-S22	
C70	120	10%							
C71	470	10%	DI-470	DD-471	5R5T47	CCD-471	GP347	10TS-T47	
C72	39	600V 10%					8DY-439		
C73	82	2000V 10%					2DY-482		
C74	47	N750 10%	N750-DI 47	DTN-47	HVB20Q82	VCM-20-820K	CN7-447	10TCU-Q47	
C75	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C76	.0047		BPD-0047	DD-472	BYA10D47M	CCD-473	B-247	5HK-D47	
C77	.0047		BPD-0047	DD-472	BYA10D47M	CCD-473	B-247	5HK-D47	
C78	.047	600V	P688N-047	DD-503	CUB6S47	6DP-3-473	GEM-8147	6TM-S47	
C79	680		DI-680	DD-681	BYA10T68	CCD-681	B-368	10TS-T68	
C80	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	

† Value used in later production chassis.

* RCA Victor Part Number

Note 1. May not be used in some versions.

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CONTROLS

RATING		REPLACEMENT DATA					INSTALLATION NOTES
ITEM No.	RESISTANCE WATTS	RCA Victor PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1A	1meg	109938	BPL-70	C478-1meg-Z	B13-137 *	PP16A	Volume
B	Shaft		Not Req.	FS-3	Not Req.	Not Req.	
C	Switch		Not Req.	Not Req.	SK7 *	Not Req.	Push-Pull Off-On Contrast
R2A	30K	109937		20K Tap	B20-121X		
B	30K Tap						
R3A	200K	109934	TT-46	B47-200K-S	BU1-129	TA254L	Brightness
B	Not Req.		Not Req.	Not Req.	TM4	TA18L	
R4A	1meg	109938	TT-59	B47-1meg-S	BU1-137	TA18L	Vert. Hold
B	Not Req.		Not Req.	Not Req.	TM4	Not Req.	
R5A	22K	109935	TT-26	B47-25K-S	BU1-120	TA253L	Horiz. Hold
B	Not Req.		Not Req.	Not Req.	TM4	Not Req.	
R6A	1200Ω	109939	WN-152	A43-1500	WP51500	R1500L	Vert. Linearity
B	Shaft		Not Req.	FK3-1/4	Not Req.	Not Req.	
R7A	100K	109957					AGC Height Limiter
B	1.2meg						
C	1meg						

* Factory assembled part #PPQ13-137 (SK7).

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.		RATING	REPLACEMENT DATA			ITEM No.		RATING	REPLACEMENT DATA		
			IRC PART No.	WORKMAN TV PART No.	REMARKS				IRC PART No.	WORKMAN TV PART No.	REMARKS
R8	22K	5%	PW7-8200	7G-8200	(12K) *	R56	4700Ω	3W	PW4-270	5W-SQ-270	#107464
R9	2700Ω	5%									
R10	1000Ω										
R11	820Ω										
R12	15K										
R13	150K	5%									
R14	56Ω	5%									
R15	6800Ω										
R16	820Ω										
R17	150K	5%									
R18	12Ω	5%	PW4-2200	5W-SQ-2200	Note 1	R57	27K				
R19	18K					R58	360Ω				
R20	470Ω					R59	270K				
R21	150Ω	5%				R60	8.2meg				
R22	330Ω					R61	5600Ω				
R23	3600Ω	5%				R62	5600Ω				
R24	10K					R63	100K				
R25	8200Ω	7W				R64	220K				
R26	470K					R65	82K				
R27	56K					R66	68K				
R28	56K		R67	33K							
R29	15Ω		R68	2700Ω							
R30	18K	2W	R69	39K							
R31	5600Ω	1W	R70	100K							
R32	1meg		R71	220K							
R33	3900Ω		R72	2.2meg							
R34	100K		R73	470K							
R35	180K		R74	10meg							
R36	100K		R75	22K							
R37	47K	1W	R76	100K							
R38	270Ω		R77	1000Ω							
R39	4700Ω		R78	27K							
R40	1000Ω		R79	270Ω	4W						
R41	470K		R80	3300Ω							
R42	4700Ω		R81	27K							
R43	560Ω		R82	150Ω							
R44	330K		R83	150Ω							
R45	1000Ω	1W	R84	3.5Ω (Cold)							
R46	47K	2W	R85	3.9meg							
R47	2200Ω	4W	R86	1.8meg							
R48	680Ω	1W	R87	390K							
R49	2.2meg		R88	100K							
R50	18K		R89	100K							
R51	220K	1W	R90	390K							
R52	22K		R91	560K							
R53	1meg		R92	75K	5%-						
R54	1.8meg		R93	47K							
R55	10K	1W	R94	2200Ω							
			R95	390K							
			R96	560K							
			R97	47Ω							
			R98	470K							
			R99	10K	3W						
			R100	82Ω							
			R101	5Ω	7W						
			R102	120K							
			R103	10meg							
											#100117B