



CONTRAST CONT. CHANNEL SELECTOR FINE TUNING VOL. CONT. ON-OFF SW.

ADMIRAL
CHASSIS 19A1

MODEL 19A11S

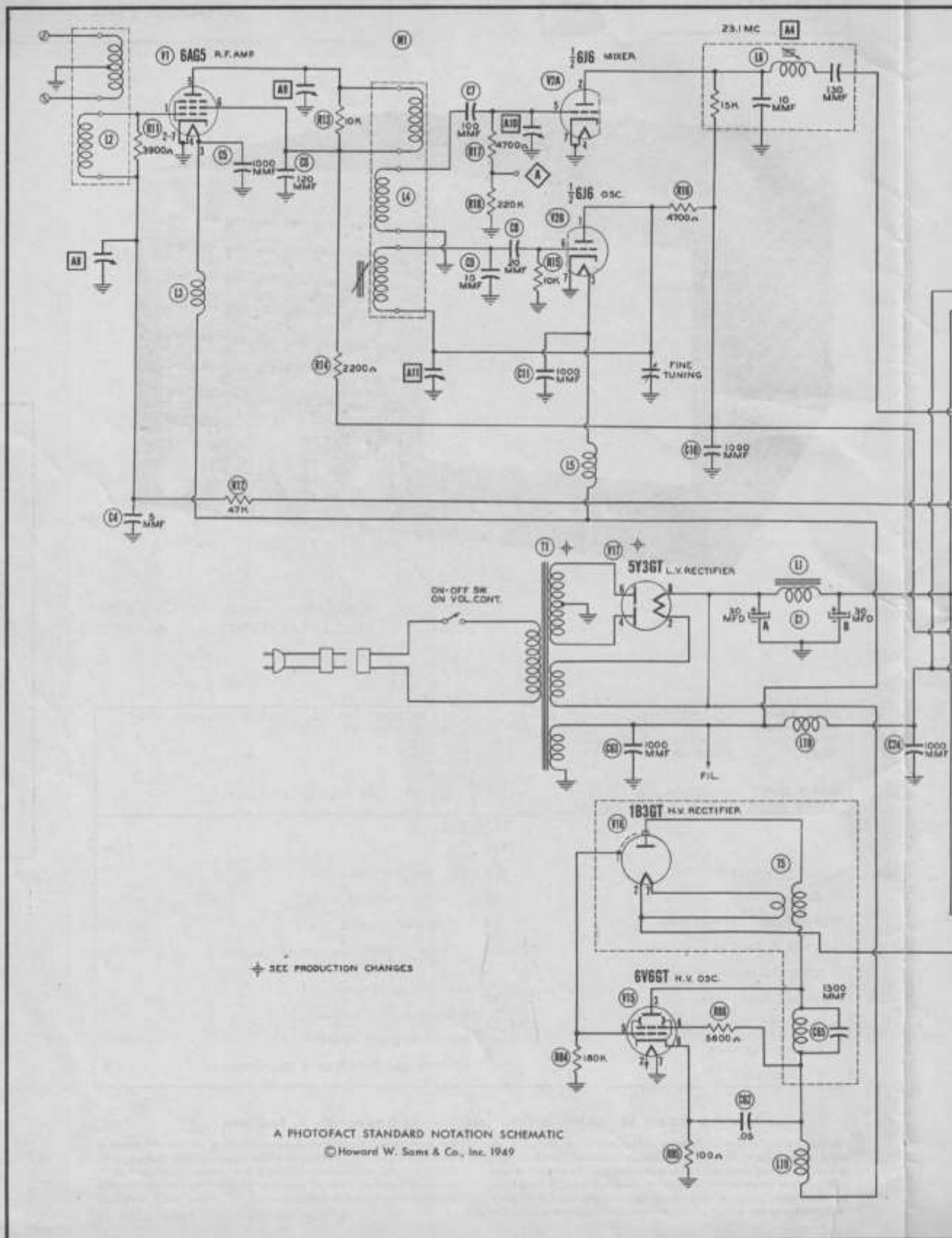
TRADE NAME	Admiral Models 19A11S, 19A11SN, 19A12S, 19A12SN, 19A15S, 19A15SN (Chassis 19A1)		
MANUFACTURER	Admiral Corporation, 3800 West Cortland, Chicago 47, Illinois		
TYPE SET	Television Receiver		
TUBES	Eighteen		
POWER SUPPLY	117 Volts, 60 cycle AC	RATING	.85 Amps @ 117 Volts.
TUNING RANGE	Channels 2 through 13		
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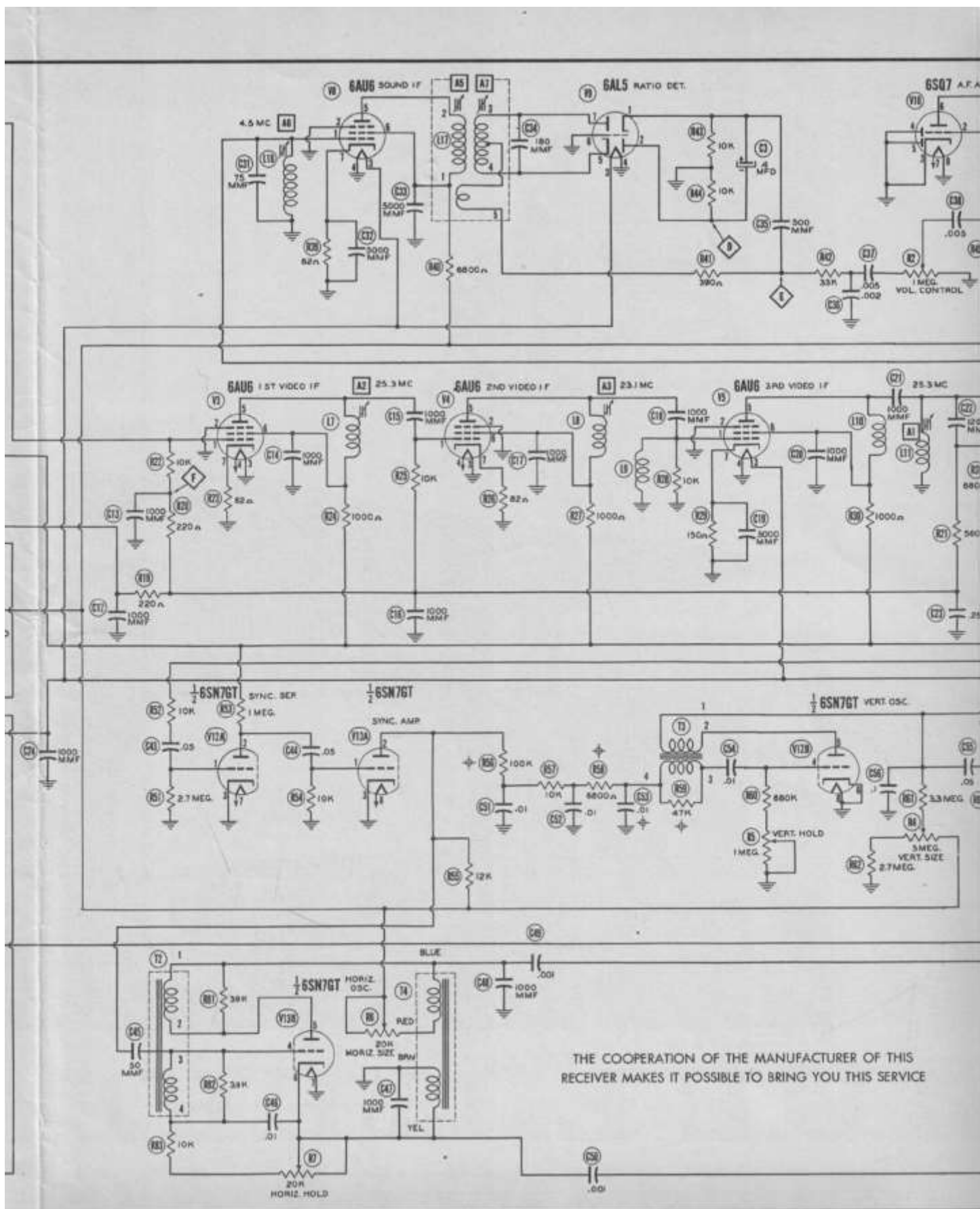
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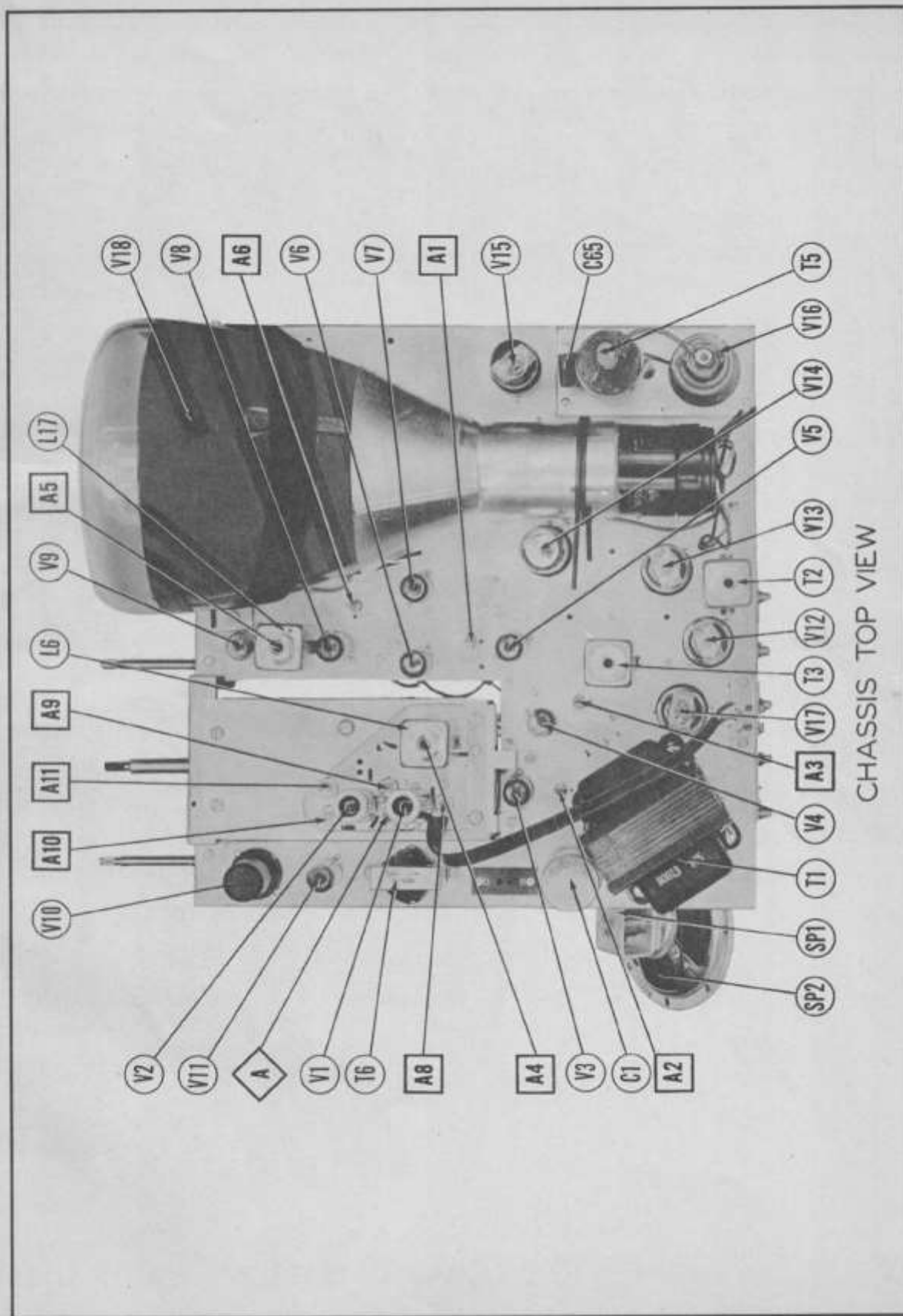
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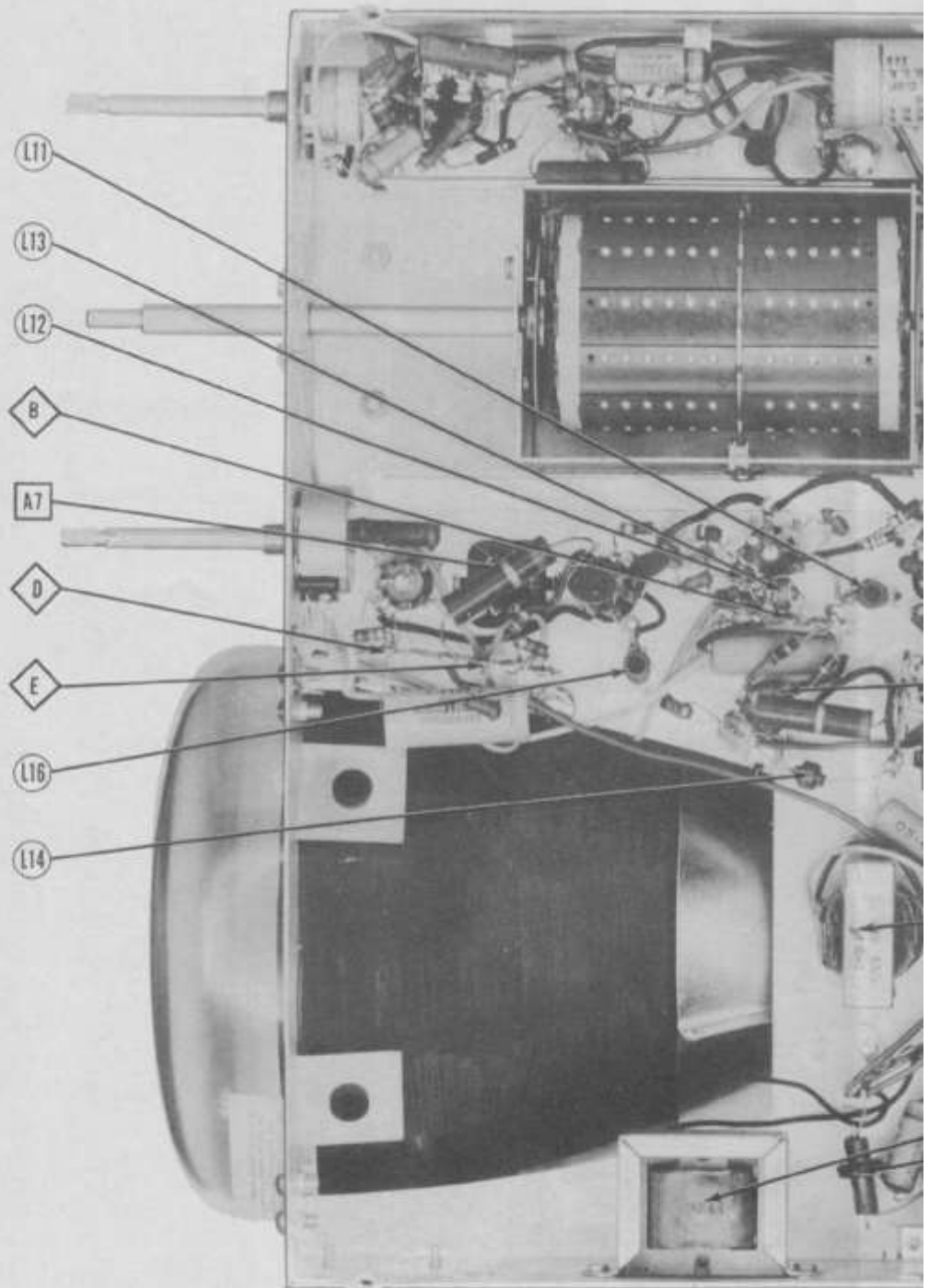
DATE 4/49 497-2 SET #50 FOLDER #2





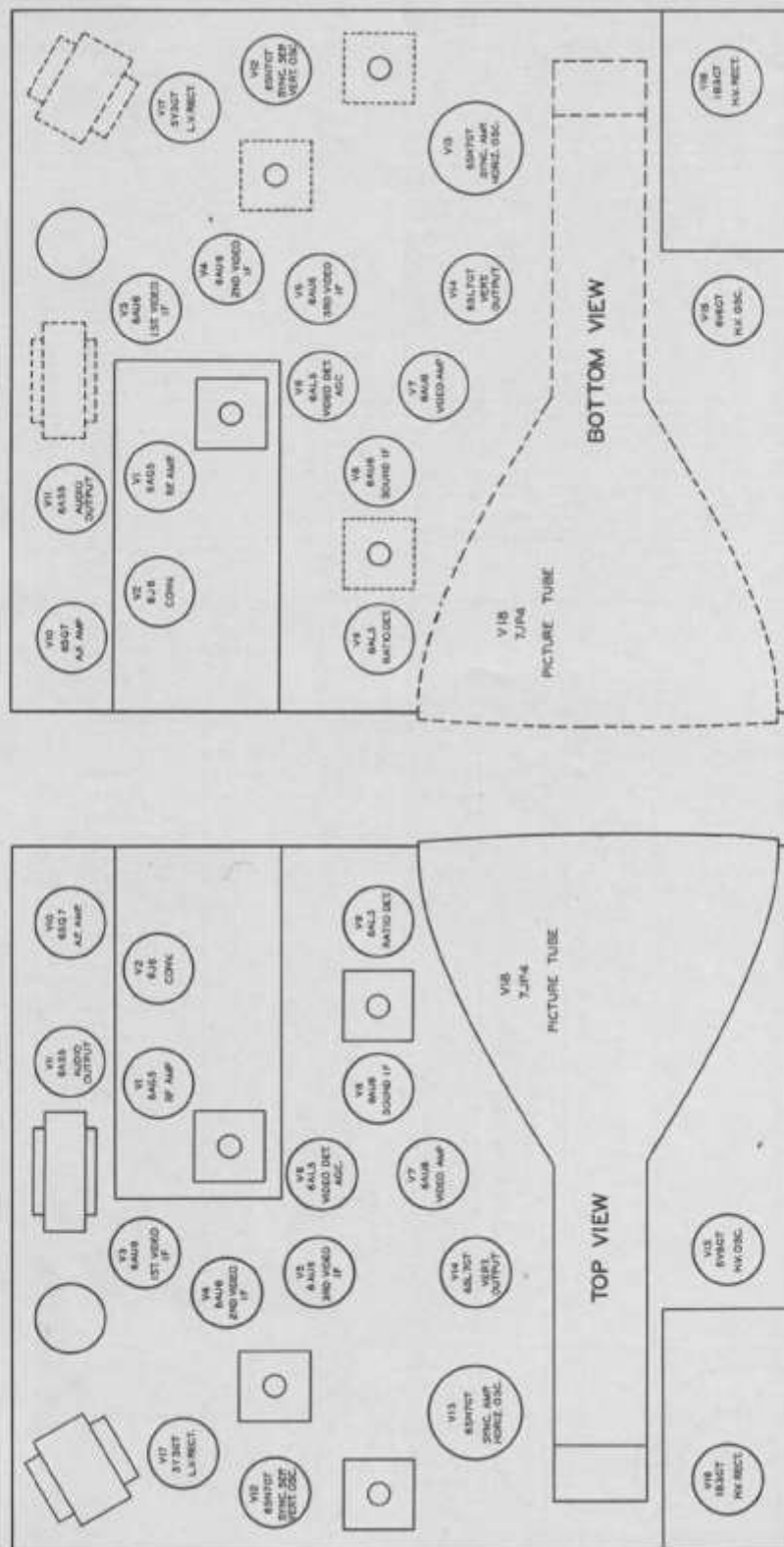


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CHASSIS BOTTOM VIEW-TRANS., INDUCTOR

**ADMIRAL
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ALIGNMENT INSTRUCTIONS

VIDEO IF ALIGNMENT

Remove one oscillator coil (6 terminal coil) section of any channel from tuner turret. Rotate the tuner until the open coil section is adjacent to the contact strip. Turn contrast control to full clockwise position.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. 8000000	High side to point A. Low side to chassis.	25.0MC (Unmod)	See Pre-alignment instructions.	DC Probe to point A Common to chassis.	A1, A2	Adjust for maximum deflection. (Maintain generator output so VTVM indicates approximately 1 volt)
2. 8000000	"	22.1MC	"	"	A3, A4	"

OVERALL IF RESPONSE CHECK

Keep marker and sweep generator output no higher than necessary. A 5 volt bias battery with negative terminal connected to point F and positive to chassis will allow greater signal input without distortion of the response curve.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
3. 8000000	High side to point A. Low side to chassis.	25MC (10MC Sweep)	25.75MC 24.25MC 22.0MC 21.25MC	See Pre-alignment instructions.	Vert. amp. to point A Low side to chassis.		Check symmetry of pattern and placement of markers as per Fig 1. If necessary slightly retouch A1, A2, A3, A4 to shift placement of markers.

SOUND IF ALIGNMENT

The sound IF system should be aligned at 4.5MC $\pm$ 1KC. The 4.0MC generator should be checked for accuracy against a crystal or some form of frequency standard before alignment is started. If a frequency standard is not available the setting of A7 in step 5 should be set using a television signal instead of an inaccurate 4.0MC generator. This touch-up adjustment should not be done until all other alignment has been completed.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
4. 0100000	High side to point C. Low side to chassis.	4.0MC	Any	DC Probe to point C Common to chassis.	A5, A6	Adjust for maximum deflection maintain sig. gen. output so VTVM reads approximately 1 volt.
5. 0100000	"	"	"	DC Probe to point F Common to chassis.	A7	Adjust for zero reading. A positive & negative reading is obtained on either side of the correct setting. Replace Coq. Coil section that was rotated.

RF AMP. & MIXER ALIGNMENT

Before starting RF and mixer alignment connect a jumper across the 1st video IF grid load resistor (R22).

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
6. Direct	Across Antenna Terminals	20.7MC (10MC Sweep)	206.25MC 208.75MC	12	Vert. amp. to Point A Common to chassis.	A8, A9 A10	Check curve of Fig 2 with markers. If necessary, adjust A8, A9 and A10 for max. amplitude & symmetry.
7. Direct	"	21.0MC (10MC Sweep) 20.12MC (10MC Sweep) 19.5MC (10MC Sweep) 18.0MC (10MC Sweep) 16.3MC (10MC Sweep) 15.7MC (10MC Sweep) 8.0MC (10MC Sweep) 7.0MC (10MC Sweep) 6.0MC (10MC Sweep) 5.7MC (10MC Sweep)	211.25MC 215.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 191.25MC 185.75MC 175.25MC 179.75MC 83.25MC 87.75MC 77.25MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	13 11 10 9 8 7 6 5 4 3 2	"	"	Check on channels to see that markers appear as per Fig 3. If optimum response is desired for one particular channel adjust A8, A9 and A10 for that channel. Check all other channels to see that they have not been appreciably affected.

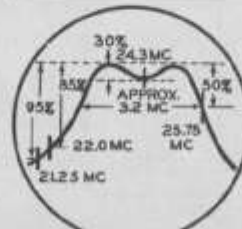


FIG. 1



FIG. 2

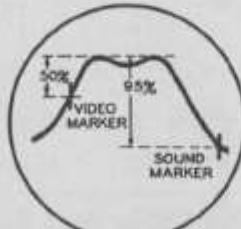


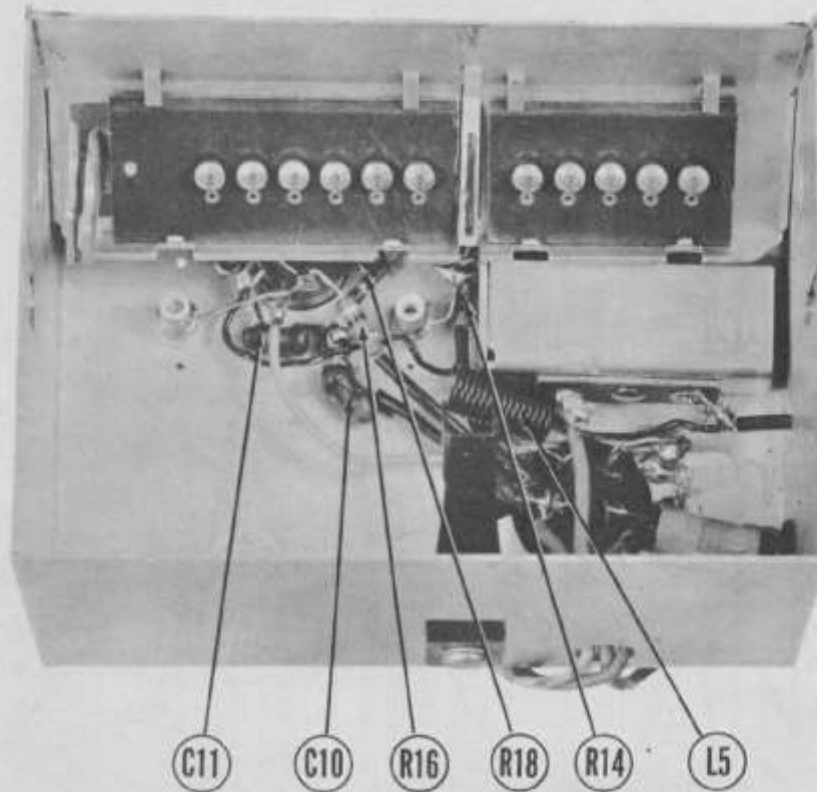
FIG. 3

ALIGNMENT INSTRUCTIONS (CONT.)

OSCILLATOR ALIGNMENT

The IF system must be accurately aligned before starting the oscillator alignment. The electrical center of the fine tuning control is fully counter clockwise until it hits the stop. This position allows access through hole in the dielectric disc to the individual oscillator coil plugs, one by one, as the channel selector switch is rotated. Alignment of the oscillator circuits may be accomplished in one operation. If misalignment occurs in all channels adjustment of A11 may correctly align all channels. However, if only certain channels need aligning, it will be necessary to adjust the individual oscillator coil plugs. Adjustment A11 is an all channel adjustment and should not be used for one specific channel.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
8. Direct	Across Antenna Terminals	210MC (10MC Sweep)	211.25MC 215.75MC	13	Vert. Amp. to Point B. Low side to chassis.	A11 or A12 (See above)	Check to see that the video marker appears at the 50% point on the pattern obtained as per Fig 3. See instructions above.
9.	"	207MC (10MC Sweep)	205.25MC 209.75MC	12	"	A13	
		201MC (10MC Sweep)	199.25MC 203.75MC	11	"	A14	
		195MC (10MC Sweep)	193.25MC 197.75MC	10	"	A15	
		189MC (10MC Sweep)	187.25MC 191.75MC	9	"	A16	
		183MC (10MC Sweep)	181.25MC 185.75MC	8	"	A17	
		177MC (10MC Sweep)	175.25MC 179.75MC	7	"	A18	
		171MC (10MC Sweep)	169.25MC 173.75MC	6	"	A19	
		165MC (10MC Sweep)	163.25MC 167.75MC	5	"	A20	
		159MC (10MC Sweep)	157.25MC 161.75MC	4	"	A21	
		153MC (10MC Sweep)	151.25MC 155.75MC	3	"	A22	
		147MC (10MC Sweep)	145.25MC 149.75MC	2	"	A23	



RF TUNER-LEFT SIDE

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VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Cap
V1	6AG5	-35VDC	OV	100VDC	100VDC	OV	OV	OV	OV	
V2	6AL5	90VDC	OV	OV	OV	OV	OV	OV	OV	
V3	6AU6	-25VDC	OV	OV	OV	OV	OV	OV	OV	
V4	6AU6	-25VDC	OV	OV	OV	OV	OV	OV	OV	
V5	6AU6	OV	OV	OV	OV	OV	OV	OV	OV	
V6	6AL5	35VDC	OV	OV	OV	OV	OV	OV	OV	
V7	6AU6	-15VDC	OV	OV	OV	OV	OV	OV	OV	
V8	6AU6	OV	OV	OV	OV	OV	OV	OV	OV	
V9	6AL5	25VDC	OV	OV	OV	OV	OV	OV	OV	
V10	6B27	OV	OV	OV	OV	OV	OV	OV	OV	
V11	6AG5	120VDC	OV	OV	OV	OV	OV	OV	OV	
V12	6B27	-35VDC	OV	OV	OV	OV	OV	OV	OV	
V13	6B27	-35VDC	OV	OV	OV	OV	OV	OV	OV	
V14	6B27	-35VDC	OV	OV	OV	OV	OV	OV	OV	
V15	6B27	-35VDC	OV	OV	OV	OV	OV	OV	OV	
V16	6B27	OV	OV	OV	OV	OV	OV	OV	OV	
V17A	6B27	OV	OV	OV	OV	OV	OV	OV	OV	

† Do not measure output make an accurate measurement, due to high impedance of circuit.

STAKEN WITH VACUUM TUBE VOLTMETER

RESISTANCE READINGS

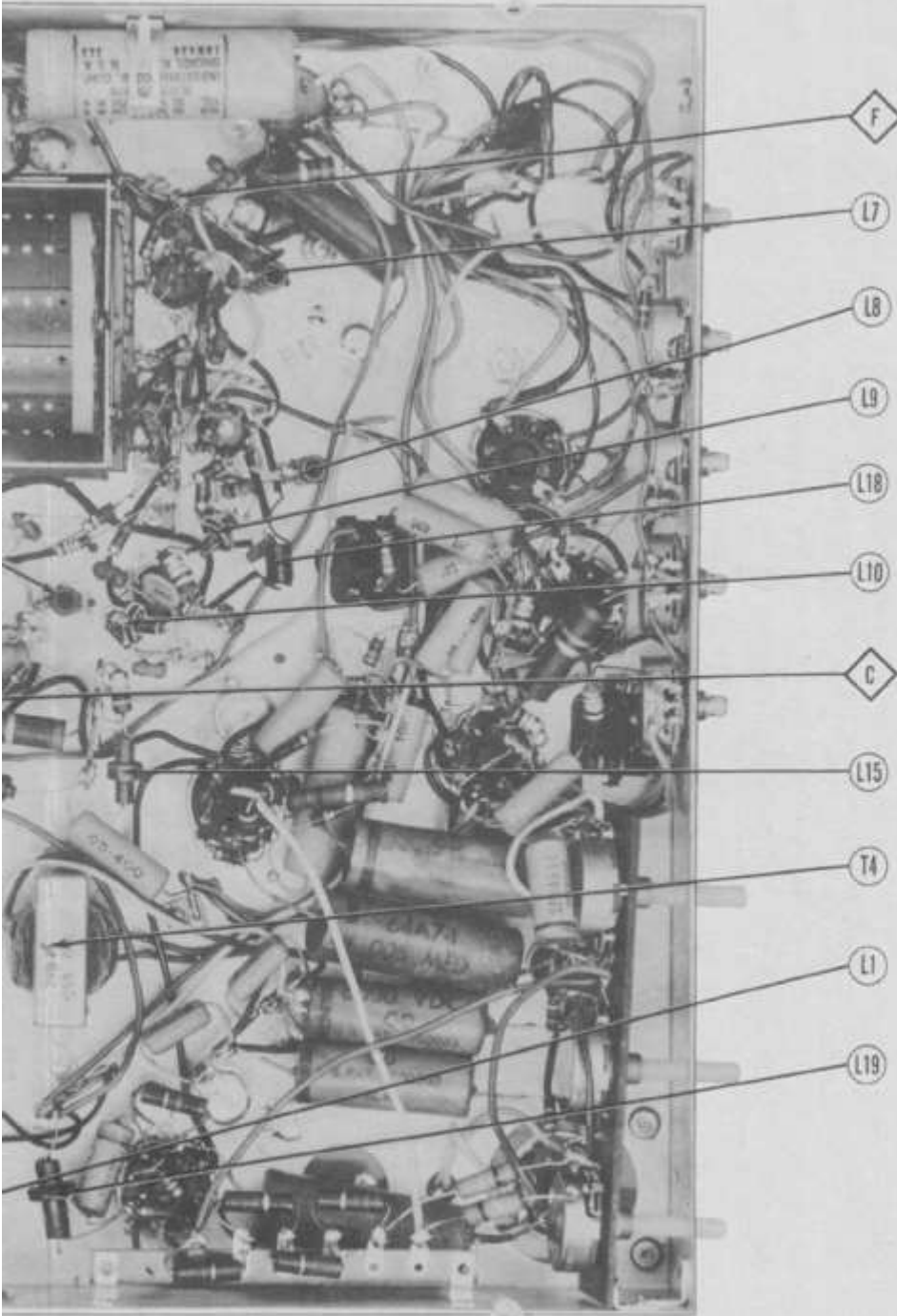
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Cap
V1	6AG5	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V2	6AL5	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V3	6AU6	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V4	6AU6	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V5	6AU6	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V6	6AL5	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V7	6AU6	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V8	6AU6	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V9	6AL5	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V10	6B27	OV	OV	OV	OV	OV	OV	OV	OV	
V11	6AG5	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V12	6B27	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V13	6B27	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V14	6B27	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V15	6B27	1-4 MEG.	OV	OV	OV	OV	OV	OV	OV	
V16	6B27	OV	OV	OV	OV	OV	OV	OV	OV	
V17A	6B27	OV	OV	OV	OV	OV	OV	OV	OV	

** Measured from pin 1 of V11

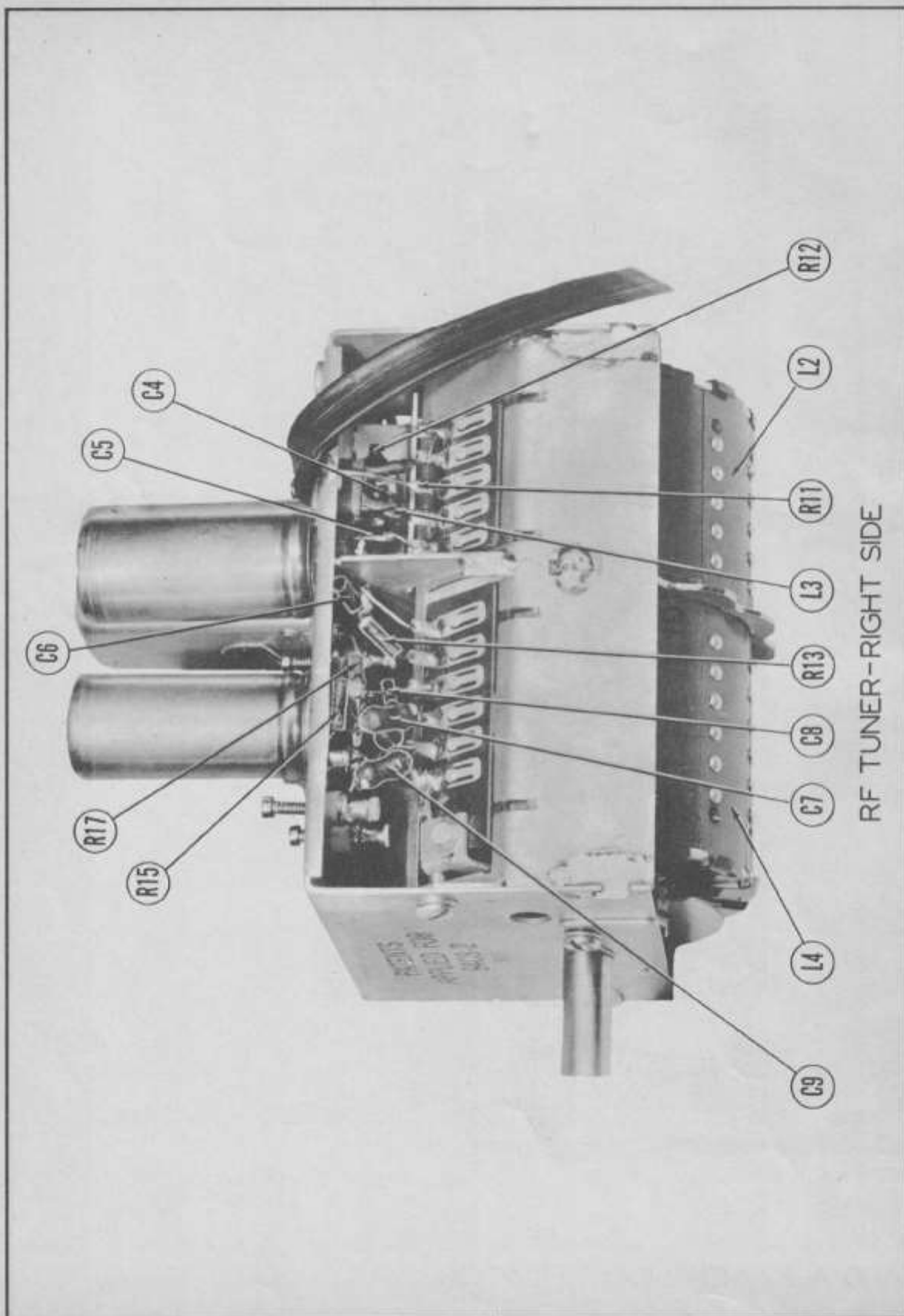
** Measured from pin 8 of V17

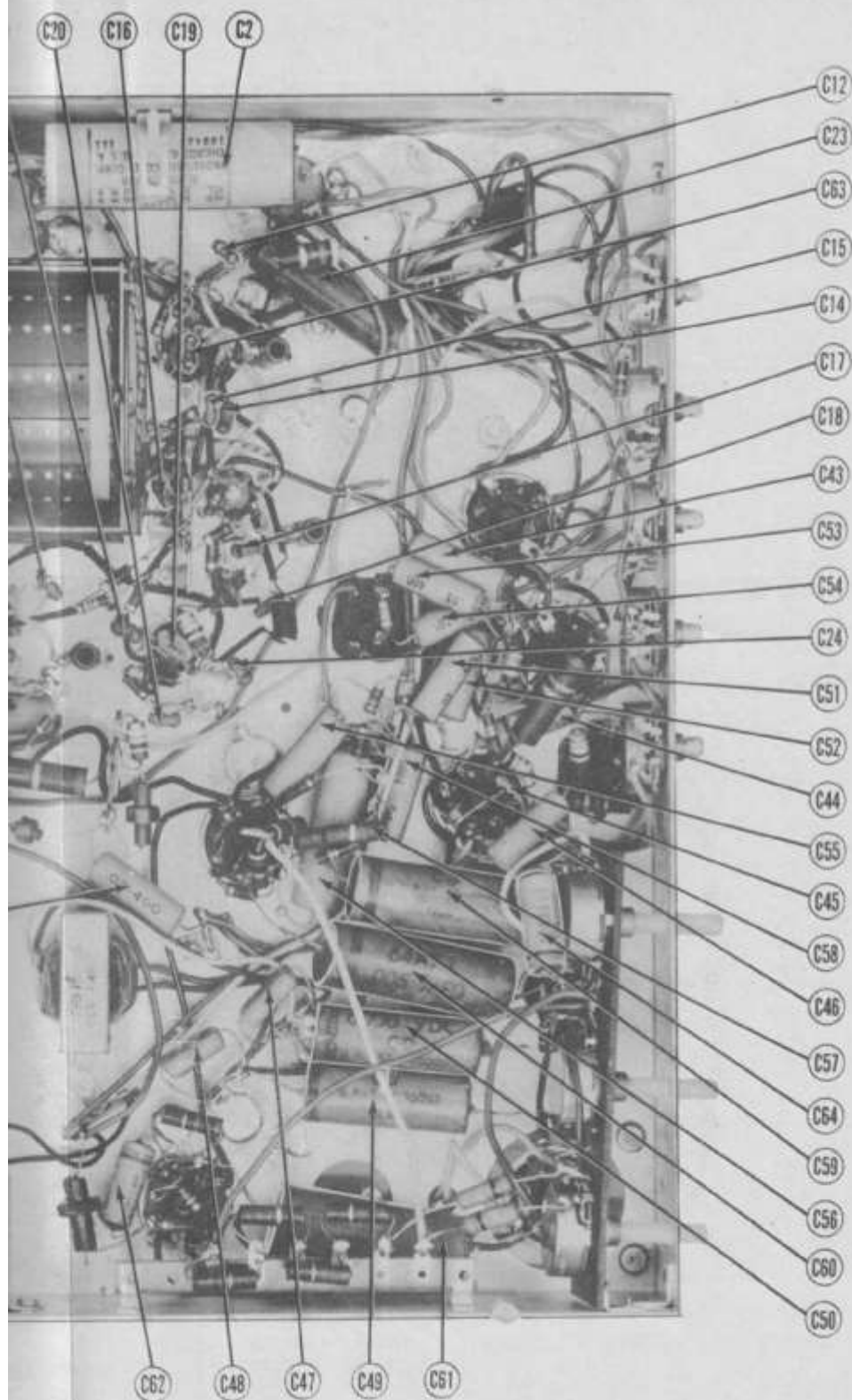
1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1000 ohms.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common unless otherwise stated.

4. Line voltage maintained at 117 volts for voltage readings.
5. Front panel controls set at maximum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.

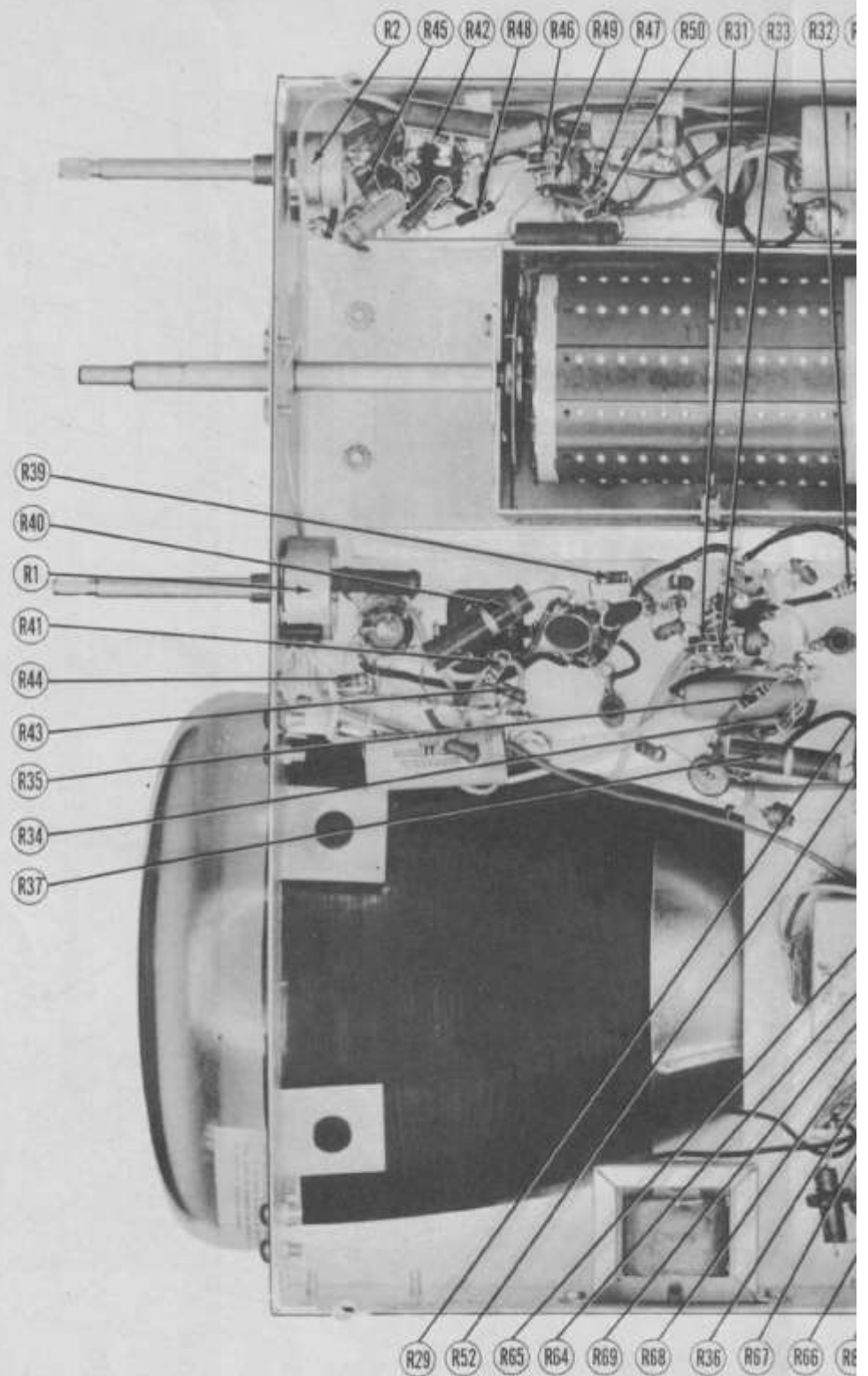


DUCTOR AND ALIGNMENT IDENTIFICATION

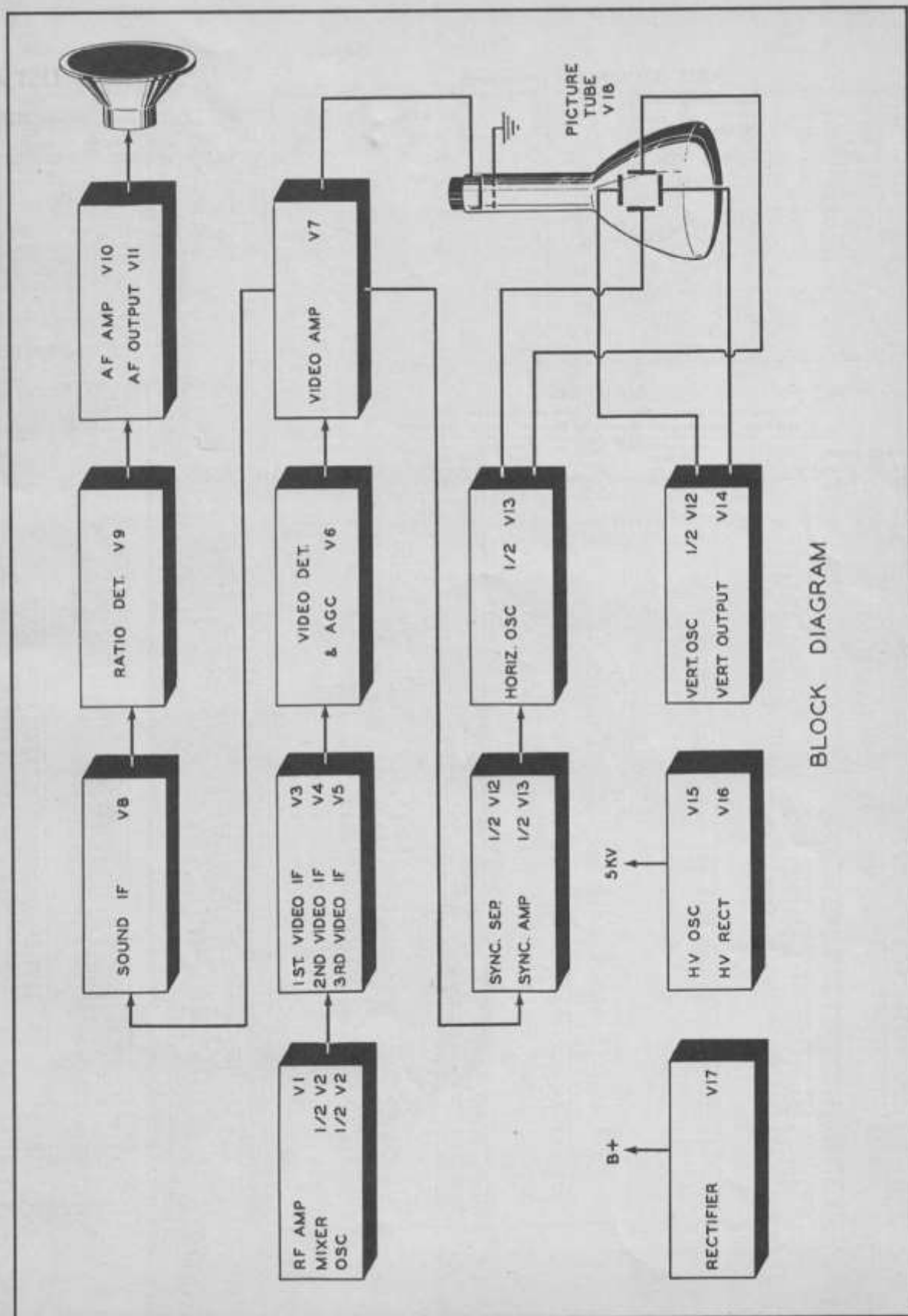




V-CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-RES



BLOCK DIAGRAM

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TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		ADMIRAL PART No.	STANDARD REPLACEMENT		
V1	RF Amp.	6A05	5A05	7ED	
V2	Converter	6A5	6A5	7EF	
V3	1st Video IF	6A05	6A05	7EE	
V4	2nd Video IF	6A05	6A05	7EM	
V5	3rd Video IF	6A05	6A05	7EK	
V6	Video Det. AGC	6AL5	6AL5	6ET	
V7	Video Amp.	6A05	6A05	7EK	
V8	Sound IF	6A05	6A05	7EK	
V9	Radio Det.	6AL5	6AL5	6ET	
V10	AF Amp.	6BQ7	6BQ7	8A	
V11	Audio Output	6AB5	6AB5	7CV	
V12	Sym. Sep.-Vert. Sec.	6BW7	6BW7	8BD	
V13	Sym. Sep. Horiz. Sec.	6BW7	6BW7	8BD	
V14	Vert. Output	6BL7	6BL7	8ED	
V15	RV Sec.	6V6GT	6V6GT	7AC	
V16	RV Rect.	18XGT	18XGT	3C	
V17A	LF Rect.	6Y3GT	6Y3GT	5T	
V17B	LF Rect.	6U40	6U40	5T	
V18	Picture Tube	7A74	7A74	5T	

CAPACITORS

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

ITEM No.	RATING	REPLACEMENT DATA		SOLAR PART No.	SPEAROE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		ADMIRAL PART No.	ABOVOK PART No.			
C1A	30	67C7-13	AF44447	UP3345		Filter
C1B	30			BR2035		Filter
C1C	30					Low pass Filter
C2A	30	67A10	FRSA150/10-30	EDL2315	TA-450	Yellow Filter
C2B	30					Red
C3	4	67A4-2	FRB150/4	BR415	UT-41	Stabilizing Cap.
C4	5					Fixed Trimmer ± 200%
C5	1000					RF Fil. Bypass
C6	100					RF Decoupling
C7	100					IF Coupling
C8	20					Sec. Grid Cap.
C9	10					Fixed Trimmer
C10	1000					RF Bypass
C11	1000					Mixer Fil. Bypass
C12	1000					AGC Filter
C13	1000					1st IF Decoupling
C14	1000					IF Coupling
C15	1000					AGC Filter
C16	1000					2nd IF Decoupling
C17	1000					IF Coupling
C18	1000					3rd IF Cath. Bypass
C19	1000					IF Decoupling
C20	1000					IF Coupling
C21	1000					AGC Filter
C22	1000					1st IF Decoupling
C23	1000					IF Coupling
C24	1000					2nd IF Cath. Bypass
C25	1000					IF Decoupling
C26	1000					IF Coupling
C27	1000					AGC Filter
C28	1000					1st IF Decoupling
C29	1000					IF Coupling
C30	1000					2nd IF Cath. Bypass
C31	1000					IF Decoupling
C32	1000					IF Coupling
C33	1000					AGC Filter
C34	1000					1st IF Decoupling
C35	1000					IF Coupling
C36	1000					2nd IF Cath. Bypass
C37	1000					IF Decoupling
C38	1000					IF Coupling
C39	1000					AGC Filter
C40	1000					1st IF Decoupling
C41	1000					IF Coupling
C42	1000					2nd IF Cath. Bypass
C43	1000					IF Decoupling
C44	1000					IF Coupling
C45	1000					AGC Filter
C46	1000					1st IF Decoupling
C47	1000					IF Coupling
C48	1000					2nd IF Cath. Bypass
C49	1000					IF Decoupling
C50	1000					IF Coupling
C51	1000					AGC Filter
C52	1000					1st IF Decoupling
C53	1000					IF Coupling
C54	1000					2nd IF Cath. Bypass
C55	1000					IF Decoupling
C56	1000					IF Coupling
C57	1000					AGC Filter
C58	1000					1st IF Decoupling
C59	1000					IF Coupling
C60	1000					2nd IF Cath. Bypass
C61	1000					IF Decoupling
C62	1000					IF Coupling
C63	1000					AGC Filter
C64	1000					1st IF Decoupling
C65	1000					IF Coupling
C66	1000					2nd IF Cath. Bypass
C67	1000					IF Decoupling
C68	1000					IF Coupling
C69	1000					AGC Filter
C70	1000					1st IF Decoupling
C71	1000					IF Coupling
C72	1000					2nd IF Cath. Bypass
C73	1000					IF Decoupling
C74	1000					IF Coupling
C75	1000					AGC Filter
C76	1000					1st IF Decoupling
C77	1000					IF Coupling
C78	1000					2nd IF Cath. Bypass
C79	1000					IF Decoupling
C80	1000					IF Coupling
C81	1000					AGC Filter
C82	1000					1st IF Decoupling
C83	1000					IF Coupling
C84	1000					2nd IF Cath. Bypass
C85	1000					IF Decoupling
C86	1000					IF Coupling
C87	1000					AGC Filter
C88	1000					1st IF Decoupling
C89	1000					IF Coupling
C90	1000					2nd IF Cath. Bypass
C91	1000					IF Decoupling
C92	1000					IF Coupling
C93	1000					AGC Filter
C94	1000					1st IF Decoupling
C95	1000					IF Coupling
C96	1000					2nd IF Cath. Bypass
C97	1000					IF Decoupling
C98	1000					IF Coupling
C99	1000					AGC Filter
C100	1000					1st IF Decoupling

* Some models use 1000 pF in this application.
† Not used in all models.
‡ Parallel sections to obtain desired capacity.

PARTS LIST AND DESC CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		CLIMAT PART No.	CONTROLS
		RESIST. ANCE	WATTS		
R1	1000Ω	1	75A14-1	515-137	4F-65-E
R2	100Ω	1	75A14-1	515-137	4F-65-E
R3	100Ω	1	75A14-1	515-137	4F-65-E
R4	100Ω	1	75A14-1	515-137	4F-65-E
R5	100Ω	1	75A14-1	515-137	4F-65-E
R6	100Ω	1	75A14-1	515-137	4F-65-E
R7	100Ω	1	75A14-1	515-137	4F-65-E
R8	100Ω	1	75A14-1	515-137	4F-65-E
R9	100Ω	1	75A14-1	515-137	4F-65-E
R10	100Ω	1	75A14-1	515-137	4F-65-E

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			
		RESISTANCE	WATTS	REPLACEMENT DATA	
		RESISTANCE	WATTS	REPLACEMENT DATA	
R11	3000Ω	1	98A45-10	STS-3900	Or.-White-Or.
R12	470Ω	1	98A45-7	STS-475	Yl.-Yl.-Cr.
R13	100Ω	1	98A45-18	STS-105	Br.-Blk.-Cr.
R14	2500Ω	1	98A45-19	STS-2200	Red-Red-Red
R15	125Ω	1	98A45-18	STS-10X	Br.-Blk.-Cr.
R16	470Ω	1	98A45-80	STS-4700	Yl.-Yl.-Red
R17	2700Ω	1	98A45-20	STS-4700	Yl.-Yl.-Red
R18	2500Ω	1	98A45-19	STS-220X	Red-Red-Yl.
R19	300Ω	1	98A45-221	SM-4-220	Red-Red-Br.
R20	500Ω	1	98A45-222	SM-4-220	Red-Red-Br.
R21	500Ω	1	98A45-223	STS-500X	Grn.-Blk.-Yl.
R22	100Ω	1	98A45-101	STS-1000	Br.-Blk.-Cr.
R23	90Ω	1	98A45-102	STS-1000	Br.-Blk.-Cr.
R24	1000Ω	1	98A45-103	STS-1000	Grp.-Red-Bl.
R25	100Ω	1	98A45-104	STS-1000	Br.-Blk.-Cr.
R26	100Ω	1	98A45-105	STS-1000	Br.-Blk.-Cr.
R27	1000Ω	1	98A45-106	STS-1000	Br.-Blk.-Cr.
R28	100Ω	1	98A45-107	STS-1000	Br.-Blk.-Cr.
R29	100Ω	1	98A45-108	STS-1000	Br.-Blk.-Cr.
R30	100Ω	1	98A45-109	STS-1000	Br.-Blk.-Cr.
R31	100Ω	1	98A45-110	STS-1000	Br.-Blk.-Cr.
R32	100Ω	1	98A45-111	STS-1000	Br.-Blk.-Cr.
R33	100Ω	1	98A45-112	STS-1000	Br.-Blk.-Cr.
R34	100Ω	1	98A45-113	STS-1000	Br.-Blk.-Cr.
R35	100Ω	1	98A45-114	STS-1000	Br.-Blk.-Cr.
R36	100Ω	1	98A45-115	STS-1000	Br.-Blk.-Cr.
R37	100Ω	1	98A45-116	STS-1000	Br.-Blk.-Cr.
R38	100Ω	1	98A45-117	STS-1000	Br.-Blk.-Cr.
R39	100Ω	1	98A45-118	STS-1000	Br.-Blk.-Cr.
R40	100Ω	1	98A45-119	STS-1000	Br.-Blk.-Cr.
R41	100Ω	1	98A45-120	STS-1000	Br.-Blk.-Cr.
R42	100Ω	1	98A45-121	STS-1000	Br.-Blk.-Cr.
R43	100Ω	1	98A45-122	STS-1000	Br.-Blk.-Cr.
R44	100Ω	1	98A45-123	STS-1000	Br.-Blk.-Cr.
R45	100Ω	1	98A45-124	STS-1000	Br.-Blk.-Cr.
R46	100Ω	1	98A45-125	STS-1000	Br.-Blk.-Cr.
R47	100Ω	1	98A45-126	STS-1000	Br.-Blk.-Cr.
R48	100Ω	1	98A45-127	STS-1000	Br.-Blk.-Cr.
R49	100Ω	1	98A45-128	STS-1000	Br.-Blk.-Cr.
R50	100Ω	1	98A45-129	STS-1000	Br.-Blk.-Cr.
R51	100Ω	1	98A45-130	STS-1000	Br.-Blk.-Cr.
R52	100Ω	1	98A45-131	STS-1000	Br.-Blk.-Cr.
R53	100Ω	1	98A45-132	STS-1000	Br.-Blk.-Cr.
R54	100Ω	1	98A45-133	STS-1000	Br.-Blk.-Cr.
R55	100Ω	1	98A45-134	STS-1000	Br.-Blk.-Cr.
R56	100Ω	1	98A45-135	STS-1000	Br.-Blk.-Cr.
R57	100Ω	1	98A45-136	STS-1000	Br.-Blk.-Cr.
R58	100Ω	1	98A45-137	STS-1000	Br.-Blk.-Cr.
R59	100Ω	1	98A45-138	STS-1000	Br.-Blk.-Cr.
R60	100Ω	1	98A45-139	STS-1000	Br.-Blk.-Cr.
R61	100Ω	1	98A45-140	STS-1000	Br.-Blk.-Cr.
R62	100Ω	1	98A45-141	STS-1000	Br.-Blk.-Cr.
R63	100Ω	1	98A45-142	STS-1000	Br.-Blk.-Cr.
R64	100Ω	1	98A45-143	STS-1000	Br.-Blk.-Cr.
R65	100Ω	1	98A45-144	STS-1000	Br.-Blk.-Cr.
R66	100Ω	1	98A45-145	STS-1000	Br.-Blk.-Cr.
R67	100Ω	1	98A45-146	STS-1000	Br.-Blk.-Cr.
R68	100Ω	1	98A45-147	STS-1000	Br.-Blk.-Cr.
R69	100Ω	1	98A45-148	STS-1000	Br.-Blk.-Cr.
R70	100Ω	1	98A45-149	STS-1000	Br.-Blk.-Cr.
R71	100Ω	1	98A45-150	STS-1000	Br.-Blk.-Cr.
R72	100Ω	1	98A45-151	STS-1000	Br.-Blk.-Cr.
R73	100Ω	1	98A45-152	STS-1000	Br.-Blk.-Cr.
R74	100Ω	1	98A45-153	STS-1000	Br.-Blk.-Cr.
R75	100Ω	1	98A45-154	STS-1000	Br.-Blk.-Cr.
R76	100Ω	1	98A45-155	STS-1000	Br.-Blk.-Cr.
R77	100Ω	1	98A45-156	STS-1000	Br.-Blk.-Cr.
R78	100Ω	1	98A45-157	STS-1000	Br.-Blk.-Cr.
R79	100Ω	1	98A45-158	STS-1000	Br.-Blk.-Cr.
R80	100Ω	1	98A45-159	STS-1000	Br.-Blk.-Cr.
R81	100Ω	1	98A45-160	STS-1000	Br.-Blk.-Cr.
R82	100Ω	1	98A45-161	STS-1000	Br.-Blk.-Cr.
R83	100Ω	1	98A45-162	STS-1000	Br.-Blk.-Cr.
R84	100Ω	1	98A45-163	STS-1000	Br.-Blk.-Cr.
R85	100Ω	1	98A45-164	STS-1000	Br.-Blk.-Cr.
R86	100Ω	1	98A45-165	STS-1000	Br.-Blk.-Cr.
R87	100Ω	1	98A45-166	STS-1000	Br.-Blk.-Cr.
R88	100Ω	1	98A45-167	STS-1000	Br.-Blk.-Cr.
R89	100Ω	1	98A45-168	STS-1000	Br.-Blk.-Cr.
R90	100Ω	1	98A45-169	STS-1000	Br.-Blk.-Cr.
R91	100Ω	1	98A45-170	STS-1000	Br.-Blk.-Cr.
R92	100Ω	1	98A45-171	STS-1000	Br.-Blk.-Cr.
R93	100Ω	1	98A45-172	STS-1000	Br.-Blk.-Cr.
R94	100Ω	1	98A45-173	STS-1000	Br.-Blk.-Cr.
R95	100Ω	1	98A45-174	STS-1000	Br.-Blk.-Cr.
R96	100Ω	1	98A45-175	STS-1000	Br.-Blk.-Cr.
R97	100Ω	1	98A45-176	STS-1000	Br.-Blk.-Cr.
R98	100Ω	1	98A45-177	STS-1000	Br.-Blk.-Cr.
R99	100Ω	1	98A45-178	STS-1000	Br.-Blk.-Cr.
R100	100Ω	1	98A45-179	STS-1000	Br.-Blk.-Cr.

(ent)

PARTS LIST AND DESCRIPTIONS CONTROLS

TR

NOTES	
1	1000G
2	1000G
3	1000G
4	1000G
5	1000G
6	1000G
7	1000G
8	1000G
9	1000G
10	1000G
11	1000G
12	1000G
13	1000G
14	1000G
15	1000G
16	1000G
17	1000G
18	1000G
19	1000G
20	1000G
21	1000G
22	1000G
23	1000G
24	1000G
25	1000G
26	1000G
27	1000G
28	1000G
29	1000G
30	1000G

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESISTANCE	WATTS	ADDITIONAL PART No.	INC PART No.	CLANOSTAT PART No.	
R1	1000G	1	75A14-1	215-127	AM-65-2	Contrast Control
R2A	1000G	1	75A14-2	215-127	ED-5	Volume Control
R2B	1000G	1	75A14-3	41	SW-4	Attach to R2A Per Instructions
R3	1000G	1	75A14-4	215-127	N-61-5	Brightness Control
R4	1000G	1	75A14-5	41	Not Req.	Attach to R3A Per Instructions
R5	1000G	1	75A14-6	215-141	Not Req.	Vert. Size Control
R6	1000G	1	75A14-7	41	Not Req.	Attach to R5A Per Instructions
R7	1000G	1	75A14-8	215-127	N-61-6	Vert. Hold Control
R8	1000G	1	75A14-9	41	Not Req.	Attach to R7A Per Instructions
R9	1000G	1	75A14-10	215-127	N-36-5	Horiz. Size Control
R10	1000G	1	75A14-11	41	Not Req.	Horiz. Hold Control
R11	1000G	1	75A14-12	215-127	N-36-6	Vert. Centering Control Tapped @ 1 Meg.
R12	1000G	1	75A14-13	41	Not Req.	Horiz. Focus Control

ITEM No.	RATING			
	PRI.	SEC. 1	SEC. 2	SEC. 3
T1	117VAC	500VAC	5VAC	5.4VAC
	W. 50A	CT 50	50 SA	5.3A

* See production changes.
† Add series resistor to reduce

TRANSDUCER

ITEM No.	RATING		ADDITIONAL PART No.
	DC RESISTANCE	SEC.	
T2	500G	100G	68870
T3	500G	100G	68870
T4	500G	100G	75515

TRANSDUCER

ITEM No.	RATING		ADDITIONAL PART No.
	DC RESISTANCE	SEC.	
T5	500G	100G	68870
T6	500G	100G	68870
T7	500G	100G	68870
T8	500G	100G	68870
T9	500G	100G	68870
T10	500G	100G	68870
T11	500G	100G	68870
T12	500G	100G	68870
T13	500G	100G	68870
T14	500G	100G	68870
T15	500G	100G	68870
T16	500G	100G	68870
T17	500G	100G	68870
T18	500G	100G	68870
T19	500G	100G	68870
T20	500G	100G	68870
T21	500G	100G	68870
T22	500G	100G	68870
T23	500G	100G	68870
T24	500G	100G	68870
T25	500G	100G	68870
T26	500G	100G	68870
T27	500G	100G	68870
T28	500G	100G	68870
T29	500G	100G	68870
T30	500G	100G	68870
T31	500G	100G	68870
T32	500G	100G	68870
T33	500G	100G	68870
T34	500G	100G	68870
T35	500G	100G	68870
T36	500G	100G	68870
T37	500G	100G	68870
T38	500G	100G	68870
T39	500G	100G	68870
T40	500G	100G	68870
T41	500G	100G	68870
T42	500G	100G	68870
T43	500G	100G	68870
T44	500G	100G	68870
T45	500G	100G	68870
T46	500G	100G	68870
T47	500G	100G	68870
T48	500G	100G	68870
T49	500G	100G	68870
T50	500G	100G	68870
T51	500G	100G	68870
T52	500G	100G	68870
T53	500G	100G	68870
T54	500G	100G	68870
T55	500G	100G	68870
T56	500G	100G	68870
T57	500G	100G	68870
T58	500G	100G	68870
T59	500G	100G	68870
T60	500G	100G	68870
T61	500G	100G	68870
T62	500G	100G	68870
T63	500G	100G	68870
T64	500G	100G	68870
T65	500G	100G	68870
T66	500G	100G	68870
T67	500G	100G	68870
T68	500G	100G	68870
T69	500G	100G	68870
T70	500G	100G	68870
T71	500G	100G	68870
T72	500G	100G	68870
T73	500G	100G	68870
T74	500G	100G	68870
T75	500G	100G	68870
T76	500G	100G	68870
T77	500G	100G	68870
T78	500G	100G	68870
T79	500G	100G	68870
T80	500G	100G	68870
T81	500G	100G	68870
T82	500G	100G	68870
T83	500G	100G	68870
T84	500G	100G	68870
T85	500G	100G	68870
T86	500G	100G	68870
T87	500G	100G	68870
T88	500G	100G	68870
T89	500G	100G	68870
T90	500G	100G	68870
T91	500G	100G	68870
T92	500G	100G	68870
T93	500G	100G	68870
T94	500G	100G	68870
T95	500G	100G	68870
T96	500G	100G	68870
T97	500G	100G	68870
T98	500G	100G	68870
T99	500G	100G	68870
T100	500G	100G	68870

TRANSDUCER

ITEM No.	RATING		ADDITIONAL PART No.
	DC RESISTANCE	SEC.	
T1	500G	100G	68870
T2	500G	100G	68870
T3	500G	100G	68870
T4	500G	100G	68870
T5	500G	100G	68870
T6	500G	100G	68870
T7	500G	100G	68870
T8	500G	100G	68870
T9	500G	100G	68870
T10	500G	100G	68870
T11	500G	100G	68870
T12	500G	100G	68870
T13	500G	100G	68870
T14	500G	100G	68870
T15	500G	100G	68870
T16	500G	100G	68870
T17	500G	100G	68870
T18	500G	100G	68870
T19	500G	100G	68870
T20	500G	100G	68870
T21	500G	100G	68870
T22	500G	100G	68870
T23	500G	100G	68870
T24	500G	100G	68870
T25	500G	100G	68870
T26	500G	100G	68870
T27	500G	100G	68870
T28	500G	100G	68870
T29	500G	100G	68870
T30	500G	100G	68870
T31	500G	100G	68870
T32	500G	100G	68870
T33	500G	100G	68870
T34	500G	100G	68870
T35	500G	100G	68870
T36	500G	100G	68870
T37	500G	100G	68870
T38	500G	100G	68870
T39	500G	100G	68870
T40	500G	100G	68870
T41	500G	100G	68870
T42	500G	100G	68870
T43	500G	100G	68870
T44	500G	100G	68870
T45	500G	100G	68870
T46	500G	100G	68870
T47	500G	100G	68870
T48	500G	100G	68870
T49	500G	100G	68870
T50	500G	100G	68870
T51	500G	100G	68870
T52	500G	100G	68870
T53	500G	100G	68870
T54	500G	100G	68870
T55	500G	100G	68870
T56	500G	100G	68870
T57	500G	100G	68870
T58	500G	100G	68870
T59	500G	100G	68870
T60	500G	100G	68870
T61	500G	100G	68870
T62	500G	100G	68870
T63	500G	100G	68870
T64	500G	100G	68870
T65	500G	100G	68870
T66	500G	100G	68870
T67	500G	100G	68870
T68	500G	100G	68870
T69	500G	100G	68870
T70	500G	100G	68870
T71	500G	100G	68870
T72	500G	100G	68870
T73	500G	100G	68870
T74	500G	100G	68870
T75	500G	100G	68870
T76	500G	100G	68870
T77	500G	100G	68870
T78	500G	100G	68870
T79	500G	100G	68870
T80	500G	100G	68870
T81	500G	100G	68870
T82	500G	100G	68870
T83	500G	100G	68870
T84	500G	100G	68870
T85	500G	100G	68870
T86	500G	100G	68870
T87	500G	100G	68870
T88	500G	100G	68870
T89	500G	100G	68870
T90	500G	100G	68870
T91	500G	100G	68870
T92	500G	100G	68870
T93	500G	100G	68870
T94	500G	100G	68870
T95	500G	100G	68870
T96	500G	100G	68870
T97	500G	100G	68870
T98	500G	100G	68870
T99	500G	100G	68870
T100	500G	100G	68870

TRANSDUCER

No.	RATING		ADDITIONAL PART No.
	FIELD	V. C. IMP.	
DP1	PH	3.50	78840
CONS DIA. V. C. DIA.			

ID DESCRIPTIONS NTROLS

ADSTAT ST No.	INSTALLATION NOTES
SS-1	Contrast Control
SS-2	Volume Control
SS-3	Attach to R&A Per Instructions
SS-4	Brightness Control
SS-5	Attach to R&A Per Instructions
SS-6	Vert. Size Control
SS-7	Attach to R&A Per Instructions
SS-8	Vert. Hold Control
SS-9	Attach to R&A Per Instructions
SS-10	Horiz. Size Control
SS-11	Horiz. Hold Control
SS-12	Vert. Centering Control Tapped @ 1 Mag.
SS-13	Horiz. Focus Control

SISTORS

IDENTIFICATION CODES	
All resistors are $\pm 10\%$ unless otherwise stated.	
Or.-White-Red	RF Grid Shunt
Yl.-Vl.-Or.	* Grid
Br.-Blk.-Or.	RF Coil Shunt
Red-Red-Red	Decoupling
Br.-Blk.-Or.	Gen. Grid
Yl.-Vl.-Or.	* Plate Load
Yl.-Vl.-Red	Mixer Grid
Red-Red-Yl.	AGC Network
Red-Red-Br.	* * *
Red-Red-Br.	* * *
Orn.-Blue-Or.	1st Video IF Grid
Br.-Blk.-Or.	* Cathode
Gray-Red-Blk.	* Decoupling
Br.-Blk.-Red	* * *
Br.-Blk.-Or.	2nd * Grid
Gray-Red-Blk.	* Cathode
Br.-Blk.-Red	* Decoupling
Br.-Blk.-Or.	3rd * Grid
Br.-Orn.-Br.	* Cathode
Br.-Blk.-Red	* Decoupling
Blue-Gray-Yl.	AGC Diode Load
Or.-White-Or.	Voltage Divider
Gray-Red-Red	Video Set. Load
Br.-Blk.-Orn.	* App. Grid
Or.-Or.-Blk.	* Cathode
Br.-Blk.-Orn.	Picture Tube Cathode
Gray-Red-Red	Video App. Plate
Yl.-Vl.-Red	Sound IF Cathode
Gray-Red-Blk.	* Decoupling
Blue-Gray-Red	* * *
Or.-White-Br.	Helancing
Or.-Or.-Or.	De-emphasis
Br.-Blk.-Or.	Ratio Set. Load
Br.-Blk.-Or.	* * *
Yl.-Vl.-Orn.	IF Grid
Red-Vl.-Yl.	* Plate Load
Red-Red-Yl.	* Decoupling
Orn.-Blue-Yl.	Output Grid
Yl.-Vl.-Yl.	Voltage Divider
Or.-Gray-Or.	Filter See Note 1
Red-Vl.-Orn.	Syn. Sep. Grid
Br.-Blk.-Or.	Phase Correction
Br.-Blk.-Orn.	Syn. Sep. Plate
Br.-Blk.-Or.	* App. Grid
Br.-Red-Or.	* Plate
Br.-Blk.-Yl.	Integrator Network See Note 5
Br.-Blk.-Or.	* * *
Blue-Gray-Red	* * *
Yl.-Vl.-Or.	Vert. Def. Coil Shunt See Note 2
Blue-Gray-Yl.	* Grid See Note 3
Or.-Or.-Or.	* Plate See Note 4
Red-Vl.-Orn.	Voltage Divider Network See Note 2
Br.-Blk.-Blue	Feedback
Br.-Blk.-Blue	Vert. Output Grid
Br.-Blk.-Yl.	* * *
Br.-Blk.-Blue	* * *
Yl.-Vl.-Orn.	* Plate
Yl.-Vl.-Orn.	Voltage Divider
Br.-Blk.-Orn.	* * *
Red-Red-Orn.	* * *
Red-Red-Orn.	* * *
Red-Red-Orn.	* * *
Yl.-Vl.-Orn.	Vert. Deflection Load
Yl.-Vl.-Orn.	* * *
Br.-Blk.-Or.	Voltage Divider
Yl.-Vl.-Orn.	Horiz. Deflection Load
Yl.-Vl.-Orn.	* * *
Or.-White-Or.	* Dec. Coil Shunt
Or.-White-Or.	* * *
Br.-Blk.-Or.	* * Grid
Br.-Gray-Yl.	UV Dec. Grid
Br.-Blk.-Br.	* Cathode
Orn.-Blue-Red	Screen

parallel IFC replacement See 1-360.
 See in this application, IFC replacement 875-470K.
 See in this application, IFC replacement 875-4.7 Meg.
 See in this application, IFC replacement 875-47K.

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PR.	SEC. 1	SEC. 2	SEC. 3	ADMIRAL PART No.	STANCOB PART No.	THORDARSON PART No.	MERIT PART No.
T1	117VAC 0.85A	500VAC CT 0.1A 100VAC	5VAC 0.2A	6.4VAC 0.2A	60B15*			P-5108T

* See production changes.
 † Add series resistor to reduce plate voltage.

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE	SEC.	ADMIRAL PART No.	STANCOB PART No.	THORDARSON PART No.	MERIT PART No.	
T2	50K	150K	68B70				Hor. Block Up. Trans.
T3	50K	150K	68B70				Vert. " "
T4	250K	250K	79B15				Hor. Sweep Push-Pull Trans.

TRANSFORMER (HIGH VOLTAGE)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE	SEC.	ADMIRAL PART No.	STANCOB PART No.	THORDARSON PART No.	MERIT PART No.	
T5	5K	1000K	68B54				

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE	DC RES.	ADMIRAL PART No.	STANCOB PART No.	THORDARSON PART No.	MERIT PART No.	
T6	8500 Ω 1.3W	1500 Ω 1.3W	79B15			T20054C	

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			INSTALLATION NOTES
	FIELD	V. C. IMP.	ADMIRAL PART No.	JENSEN PART No.	QUAM PART No.	
SP1	PK	3.5 Ω	79B40	SP-107 MOD. PS-V or SP-105 MOD. PS-V	SA15	
SP2	4 3/4"	9/15"				

FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE @ CURRENT 3000 mV	ADMIRAL PART No.	STANCOB PART No.	THORDARSON PART No.	MERIT PART No.
L1	1.15A	13K Ω	4.7H	79A13	C-8300		C-2091

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PR.	SEC.	ADMIRAL PART No.	MEISSNER PART No.	
L2	Ant. Coils	0 Ω		68A45-13		L2 and L4 are supplied only in matched pairs under part number 68A45 with channel number added as suffix, except channel 13. Channel 13 part number is 68A45-43.
L3	IF Filter	0 Ω				
L4	IF Filter	0 Ω		68A45-14		
L5	1st Video	0 Ω		68A47-3		
L6	2nd Video	1 Ω		72A59-1		145 Millihenry, wound on 33K Ω resistor 510 Millihenry, " " 5.0K Ω " 680 Millihenry, " " 30K Ω "
L7	3rd Video	1 Ω		72A59-1		
L8	IF Grid	3.5 Ω		AA139-4		
L9	IF Plate	3.5 Ω		AA139-4		
L10	4th Video	1 Ω		72A59-1		
L11	Peaking	0 Ω		AA139-7		
L12	Peaking	0 Ω		AA139-8		
L13	Peaking	0 Ω		AA139-9		
L14	Peaking	0 Ω		AA139-6		
L15	1st Sound	1 Ω		72A59-1		
L16	Ratio Set.	3.5 Ω	.3 Ω	70B69		
L17	IF Choke	1 Ω		75A2-3		
L18	IF Choke	1 Ω		81A10-1		

ADMIRAL
 CHASSIS 19A1

PARTS LIST AND DESCRIPTIONS (Continued)

MISCELLANEOUS

ITEM No.	PART NAME	ADMIRAL PART No.	NOTES
73	Tuner Assy.	94CS-1	Speaker
	Socket	88A5-6	Picture Tube
	Socket	87B5-1	AC Interlock
	Plug	09A22-2	Antenna
	Terminal Strip	10A5-2	Plastic, (Picture Tube)
	Escutcheon	25C34	For Model #19A11 with Tuner 94CS-1
	"	22A28	" " #19A12 " " "
	"	22B28-1	" " #19A12 " " "
	"	22B43	" " #19A12 " " "
	Knob	33A12-4	Contrast or Volume for Models #19A11 and 19A12
	"	33A12-6	Model #19A12
	"	33C28-12	Channel, for Models #19A11 and 19A12
	"	33C28-21	#19A12
	"	33C28-33	Sharp Tuning for Model 19A11
	"	33C28-34	" " " 19A12
	"	33C28-14	" " " 19A12
	Cabinet	34C23	Plastic Mahogany for Model #19A11
	"	34C23-1	Plastic Ebony for Model 19A12
	"	34E24	Wood Walnut for Model 19A12

PRODUCTION CHANGES

VERTICAL OSCILLATOR CHANGE

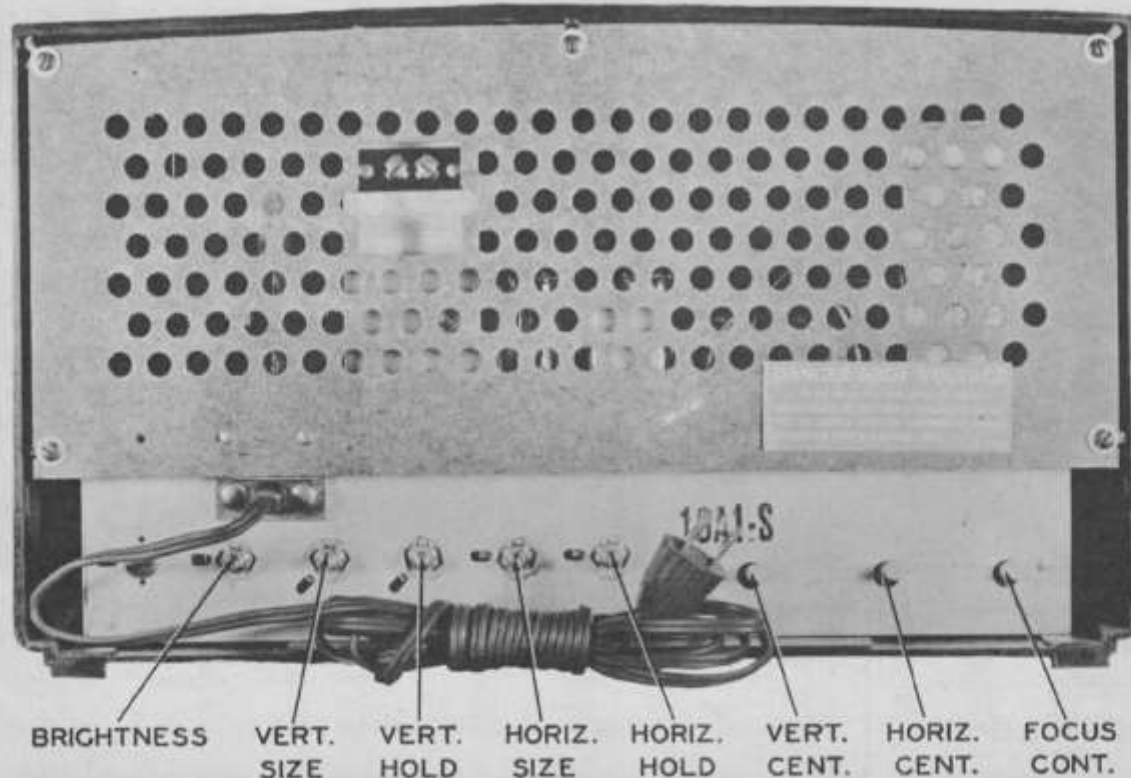
Early production had the vertical oscillator circuit wired differently than shown on the schematic. R56 was 47K instead of 100K. R56 and C53 were interchanged and R59 was not used. If difficulty is experienced in this circuit it can be changed to conform with circuit on the schematic.

POWER TRANSFORMER AND RECTIFIER

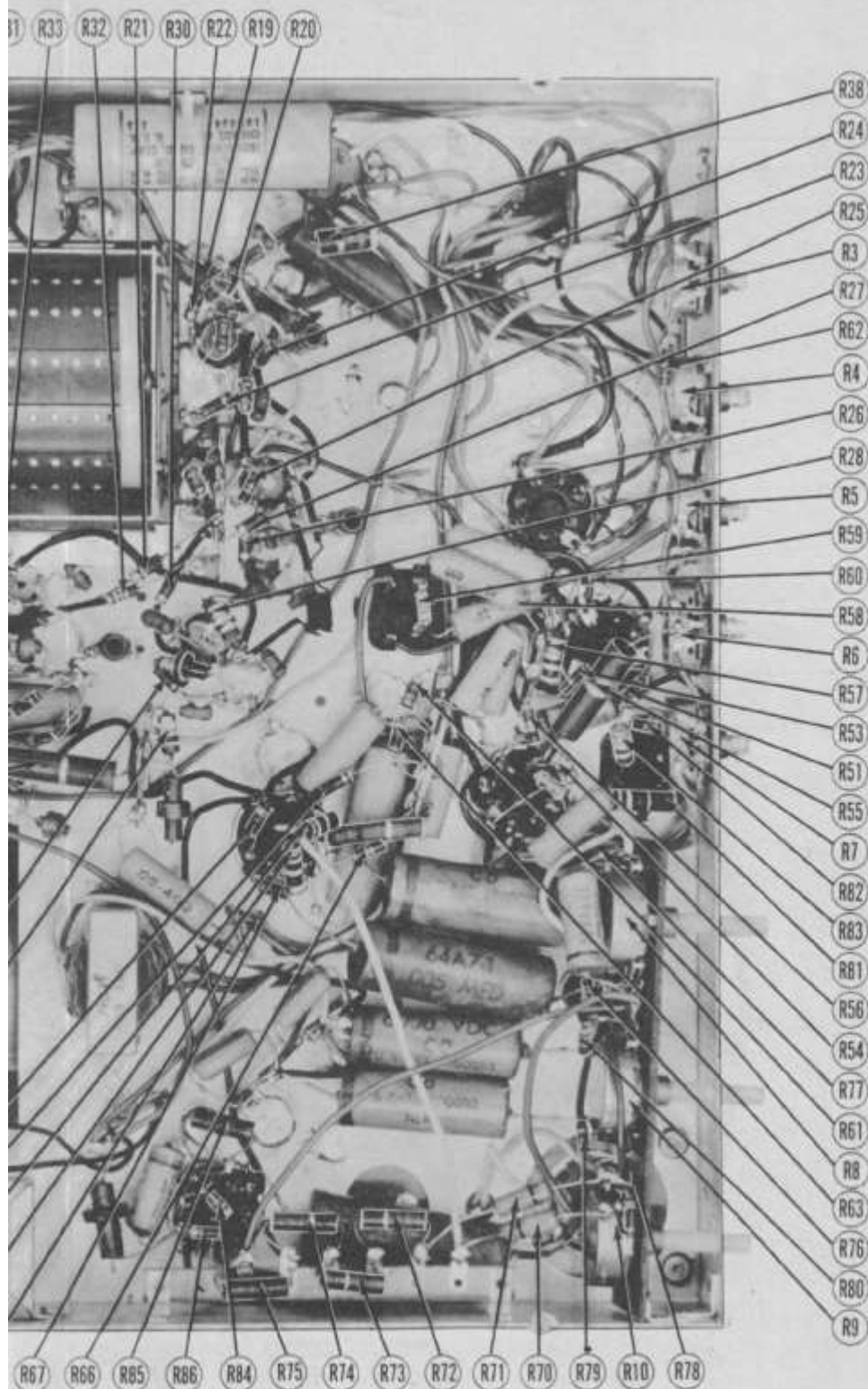
A small number of receivers incorporated a power transformer designed electrically to be used with a 6U4G rectifier tube. These transformers were marked with a red dot on the lamination. When servicing the rectifier tube or power transformer care should be taken that the proper tube is used. If a 6U4G is

used with a transformer designed for 6Y3GT operation, the filament current drain will exceed the rated current of the transformer. If a 6Y3GT tube is used with a transformer designed for 6U4G operation, the rectified B+ voltage will be low due to the greater internal drop in the 6Y3GT.

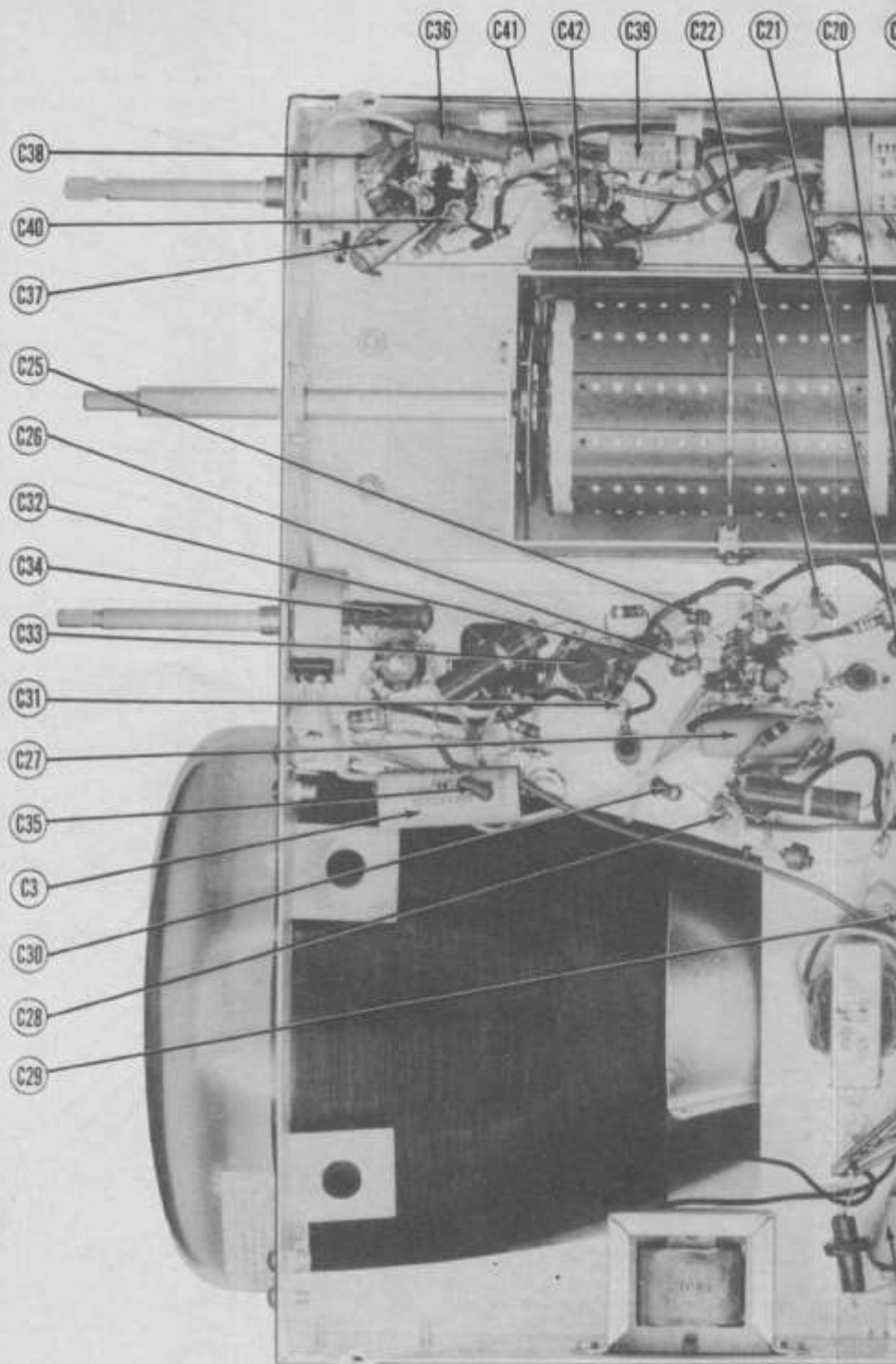
To determine which tube is to be used with the transformer, measure the DC resistance of the high voltage winding between pins #4 and #6 of the rectifier tube. A reading of 175 ohms indicates a transformer designed for use with a 6Y3GT, while a reading of 100 ohms indicated a transformer to be used with a 6U4G.



CABINET-REAR VIEW



W-RESISTOR IDENTIFICATION



CHASSIS BOTTOM VIEW-CAPA

DISASSEMBLY INSTRUCTIONS

1. Remove four push-on type control knobs.
2. Remove five screws holding back cover. Remove back cover.
3. Remove four 5/32" hex head screws from bottom of chassis.
4. Pull chassis half way out and remove speaker plug from top of chassis. Remove chassis.

ADMIRAL
CHASSIS 19A1