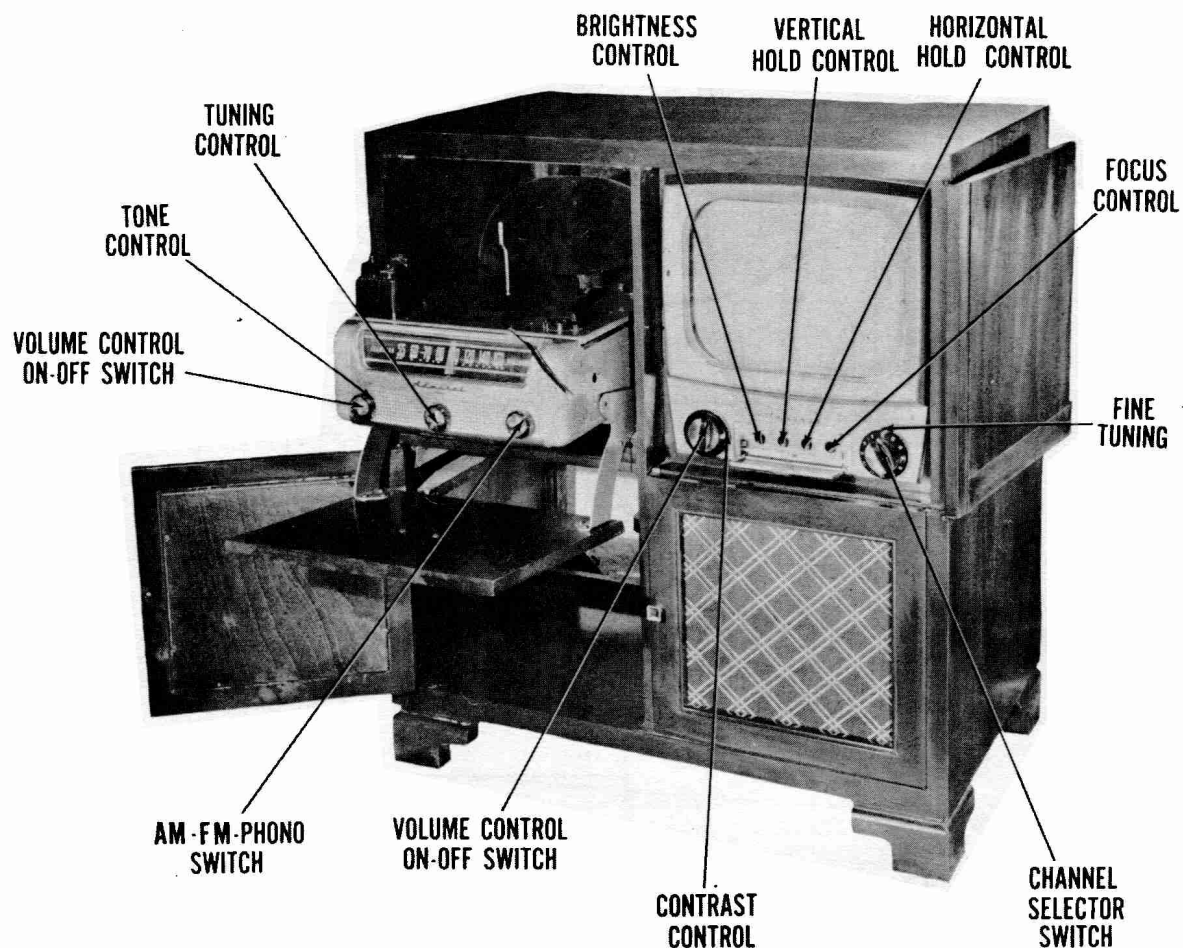




ADMIRAL MODEL 34R15A

**ADMIRAL CHASSIS
20T1, 20V1 & Radio Ch. 3C1**

TRADE NAME	Admiral, Models 14R11, 14R12, 24R11, 24R12 (Ch. 20T1), 34R15, A, 34R16, A (TV Chassis 20V1 and Radio Chassis 3C1)
MANUFACTURER	Admiral Corp., 3800 W. Cortland, Chicago 47, Illinois
TYPE SET	TV-AM-Phono Combination Receiver (Models 34R15, A, 34R16, A) TV "Only" (Models 14R11, 14R12, 24R11, 24R12)
TUBES	Twenty Three (Combination Receivers) Twenty (TV "Only" Receivers)
POWER SUPPLY RATINGS	110-120 Volts AC-60 Cycle (TV) 1.5 Amp. at 117 Volts AC, (Radio) .78 Amp. at 117 Volts AC
TUNING RANGE	TV Channels 2 thru 13, AM 540-1610KC

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RECORD CHANGER UNIT-ADMIRAL MODEL RC550

HOWARD W. SAMS & CO., INC. • Indianapolis 7, Indiana

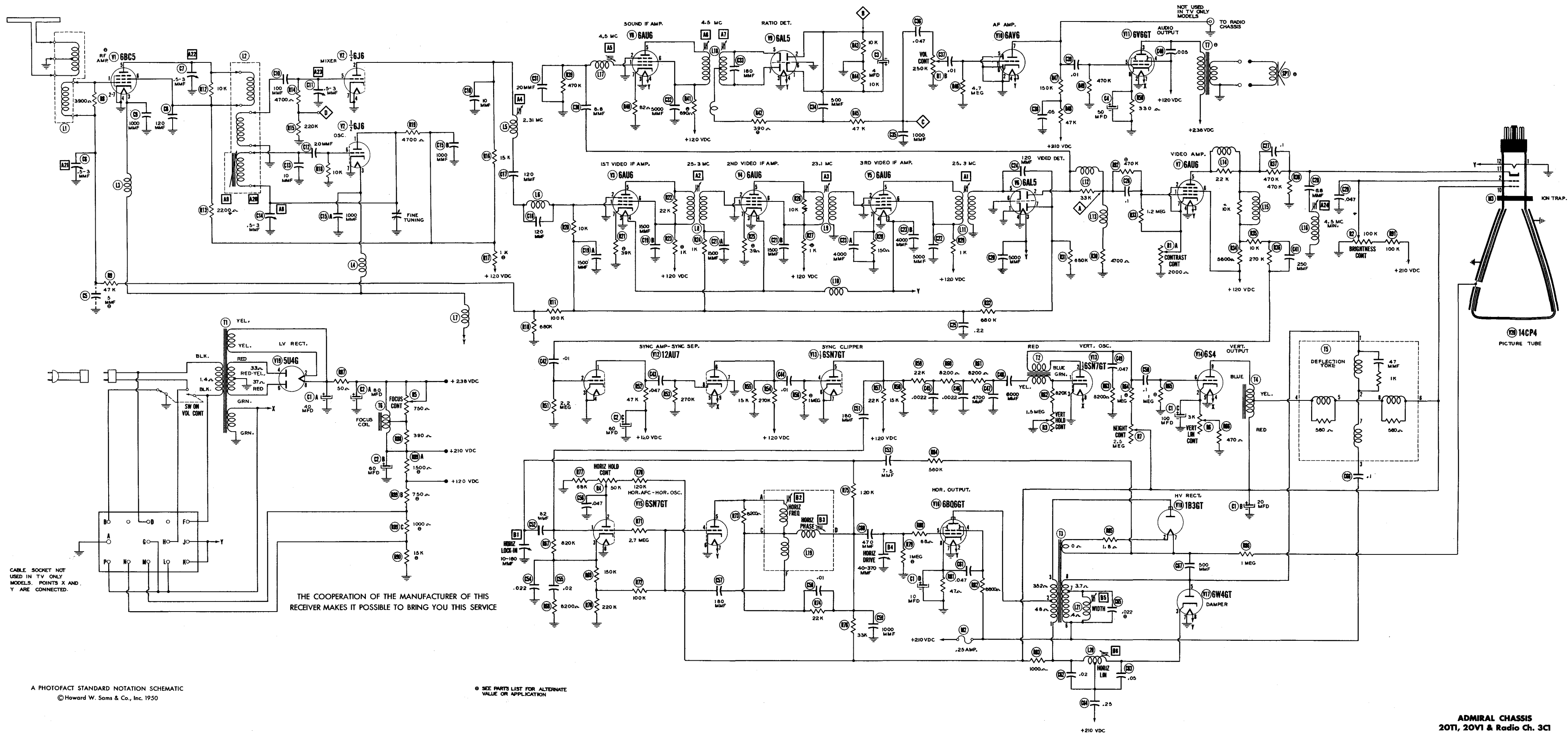
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed."
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DATE 12-50

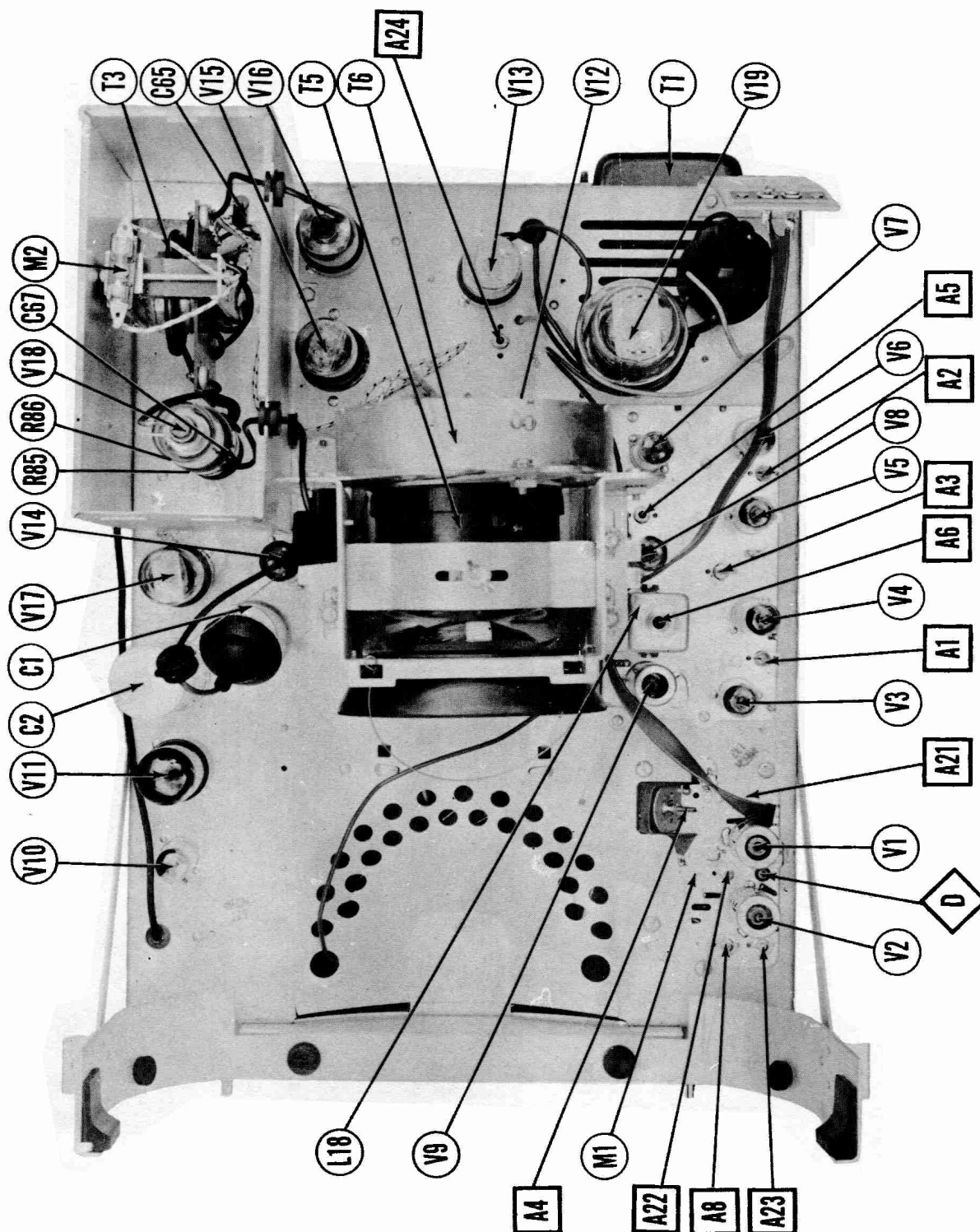
SET 117

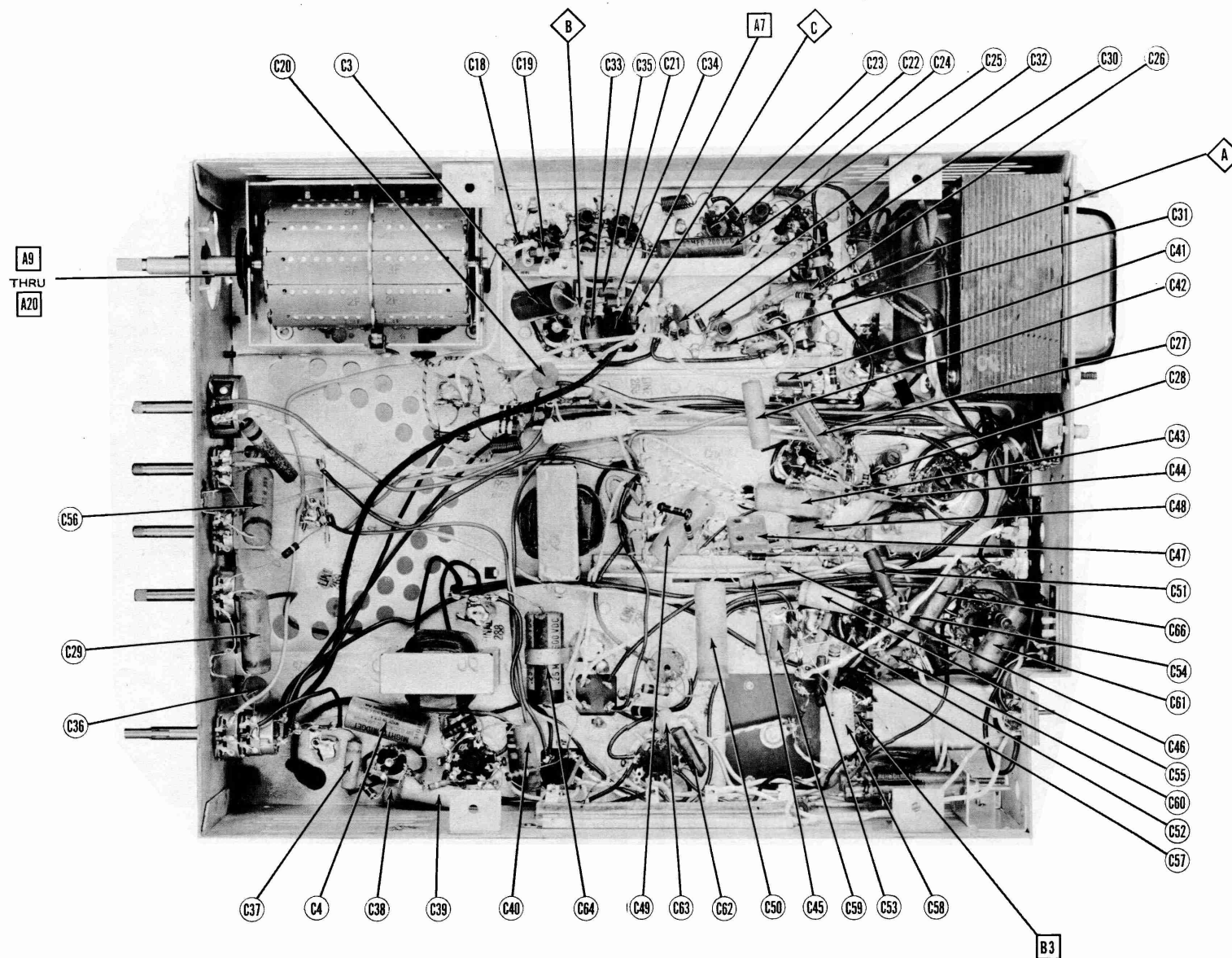
FOLDER 2



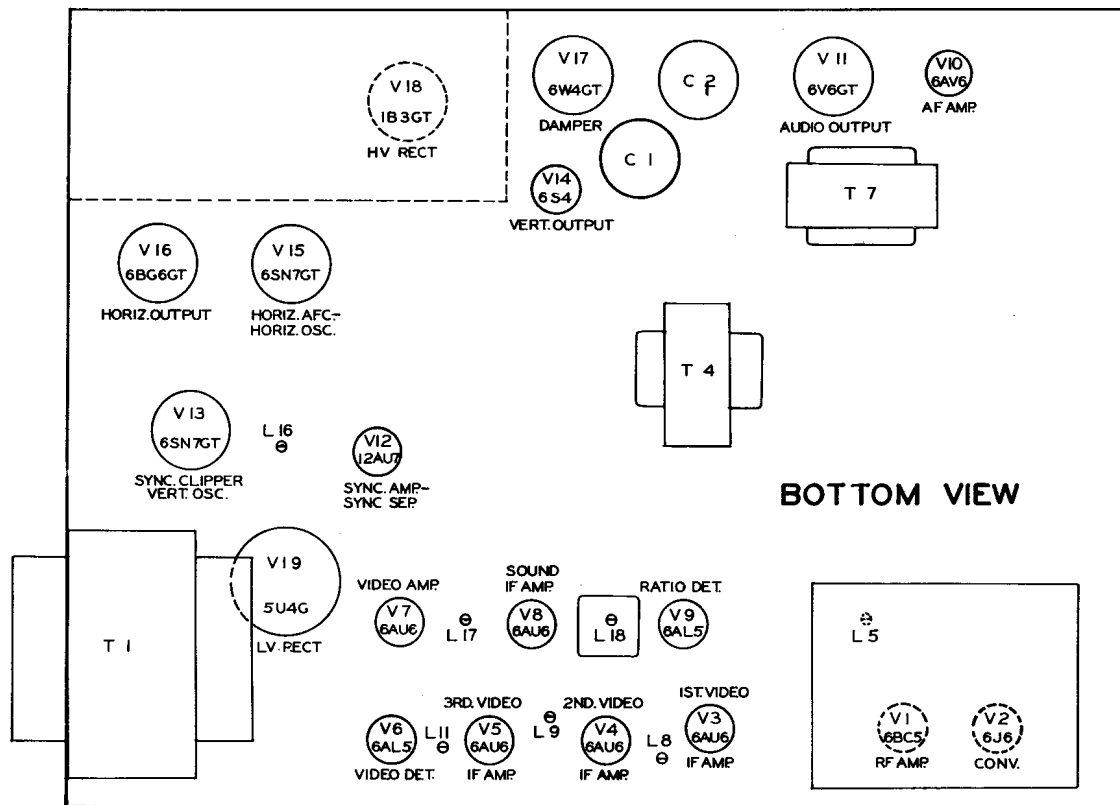
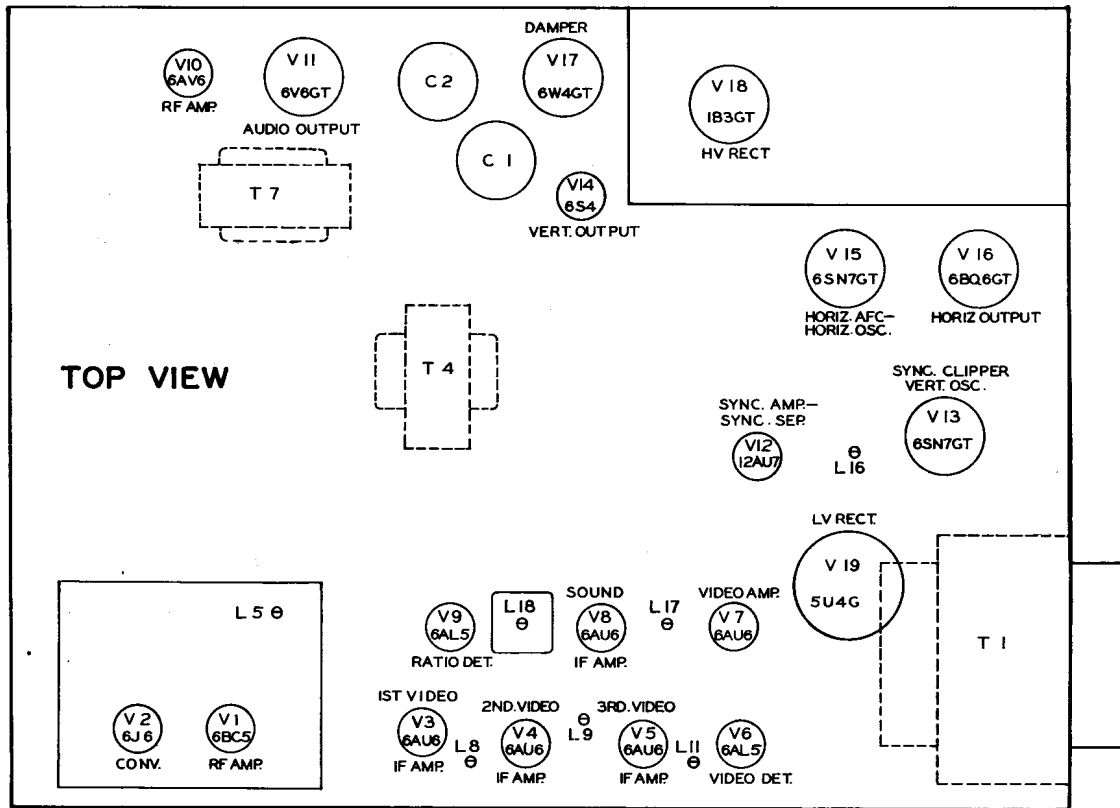
**ADMIRAL CHASSIS
20T1, 20V1 & Radio Ch. 3C1**

CHASSIS TOP VIEW





CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION



TUBE PLACEMENT CHART

TV ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

If the set is to be aligned with the picture tube removed the end of the high voltage lead should be securely taped and kept away from the chassis. Do not remove the horizontal oscillator tube, or the horizontal output tube to disable the high voltage. To operate the television chassis on those models having a radio, it will be necessary to short pins L and K on the radio connection socket, if the radio chassis is not connected.

VIDEO IF ALIGNMENT

Remove the converter tube (V2) and replace it with a 6J6 which has pin 1 removed, to eliminate the possibility of erroneous indications from the local oscillator.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. Direct	High side to ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	25.3MC (Unmod.)	Any	DC Probe to Point A Common to chassis.	A1, A2	Adjust for maximum deflection.
2. Direct	"	23.1MC	"	"	A3, A4	"

OVERALL VIDEO IF RESPONSE CHECK

Connect the synchronized sweep voltage from the signal 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
3. Direct	High side to ungrounded tube shield floating over dummy mixer tube (V2). Low side to chassis.	25MC (10MC SWP)	21.25MC 22 MC 24.3MC 25.75MC	Any	Vert. Amp. to Point A . Low side to chassis.		Check for response check similar to figure 1 with markers as shown. If necessary retouch A1 thru A4 for proper response.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
4. .01MFD	High side to alignment Point A. Low side to chassis.	4.5MC (Unmod.)	Any	DC Probe to Point A Common to chassis.	A5, A6	Adjust for maximum deflection.
5. .01MFD	"	"	"	DC Probe to Point A Common to chassis.	A7	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4. .01MFD	High side to alignment Point A. Low side to chassis.	4.5MC (450KC SWP)	4.5MC	Any	Vert. Amp. to Point A . Low side to chassis.	A5, A6	Disconnect stabilizer capacitor C3. Adjust for maximum amplitude and symmetry as per figure 2.
5. .01MFD	"	"	"	"	Vert. Amp. to Point A . Low side to chassis.	A7	Reconnect capacitor C3. Adjust A7 so 4.5MC occurs at center of crossover lines as per figure 3. SLIGHTLY retouch A8 for maximum amplitude and straightness of crossover lines.

OSCILLATOR ALIGNMENT

Remove the dummy converter tube and replace the original 6J6 in its socket.

Complete oscillator alignment may not be necessary. If the oscillator seems to be off frequency approximately the same amount for a majority of the channels, it may be possible to correct them in one step using A8. It should be noted that this is an all channel, oscillator circuit adjustment, and should not be adjusted for any individual channel. If adjustment of A8 will not bring all channels within the range of the fine tuning control, it will be necessary to adjust the individual channel oscillator adjustment for each channel that is off frequency. The individual channel oscillator adjustment screws are reached through a hole just to the right of the channel switch shaft. The correct adjustment screw is accessible through this hole as the channel switch is turned to each channel.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
6. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	213MC (10MC SWP)	211.25MC	13	Vert. Amp. to Point A . Low side to chassis.	A9	Adjust to place sound marker at 5% as shown in figure 4. The video marker should be at 50%.
		207MC (10MC SWP)	205.25MC	12		A10	
		201MC (10MC SWP)	199.25MC	11		A11	
		195MC (10MC SWP)	193.25MC	10		A12	
		189MC (10MC SWP)	187.25MC	9		A13	
		183MC (10MC SWP)	181.25MC	8		A14	
		177MC (10MC SWP)	175.25MC	7		A15	
		171MC (10MC SWP)	169.25MC	6		A16	
		165MC (10MC SWP)	163.25MC	5		A17	
		159MC (10MC SWP)	157.25MC	4		A18	
		153MC (10MC SWP)	151.25MC	3		A19	
		147MC (10MC SWP)	145.25MC	2		A20	
		141MC (10MC SWP)	139.25MC				
		135MC (10MC SWP)	133.25MC				
		129MC (10MC SWP)	127.25MC				
		123MC (10MC SWP)	121.25MC				
		117MC (10MC SWP)	115.25MC				
		111MC (10MC SWP)	109.25MC				
		105MC (10MC SWP)	103.25MC				
		99MC (10MC SWP)	97.25MC				
		93MC (10MC SWP)	91.25MC				

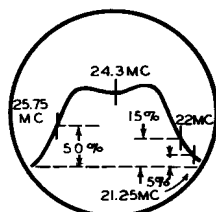


FIG.1

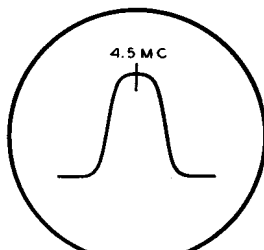


FIG.2

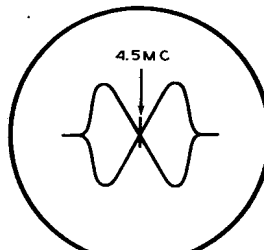


FIG.3

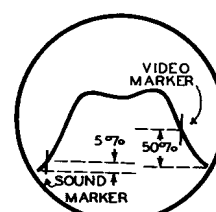


FIG.4

TV ALIGNMENT INSTRUCTIONS (CONT.)

RF AND MIXER ALIGNMENT

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7. Two 1200 carbon res.	Across antenna terminals with 120Ω in each lead.	213MC (10MC SWP)	211.25MC 215.75MC	13	Vert. Amp. to Point  . Low side to chassis.	A21, A22, A23	Adjust for response curve similar to figure 5 with markers above 90%.
8. "	"	207MC (10MC SWP) 201MC (10MC SWP) 195MC (10MC SWP) 189MC (10MC SWP) 183MC (10MC SWP) 177MC (10MC SWP) 85MC (10MC SWP) 79MC (10MC SWP) 69MC (10MC SWP) 63MC (10MC SWP) 57MC (10MC SWP)	205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.25MC 175.25MC 179.75MC 83.25MC 87.75MC 81.75MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 54.75MC	12 11 10 9 8 7 6 5 4 3 2	"		Check all channels for response similar to figure 5. If markers fall below 70% on any channel, make slight adjustment of A21, A22 and A23 with channel switch set for that channel. Recheck all channels to see that they have not been seriously effected.

4.5MC TRAP ADJUSTMENT

Connect a 15MMF capacitor between the yellow (cathode) lead from the picture tube, and pin 1 of V8.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
9. .01MFD	High side to Pin 1 (Grid) of 6AU6 (V7). Low side to chassis.	4.5MC (Unmod.)	Any	DC Probe to Point  . Common to chassis.	A24	Adjust for MINIMUM deflection.

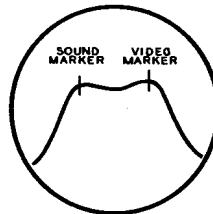


FIG. 5

RADIO ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To set pointer turn tuning cap fully closed and set pointer to last reference mark at low frequency end of dial.
Loop should be maintained in same relative position to chassis as when receiver is in cabinet.
Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
9. .01MFD	High side to pin 7 (Grid) of 6BE6 (V21). Low side to chassis.	455KC (400% Mod.)		Tuning gang fully open	Across voice coil	A25, A26, A27, A28	Adjust for maximum output.
10.	Loop	1610KC		"	"	A29	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
11.	Loop	1400KC		Tune for max. output	"	A30	"

ADMIRAL CHASSIS
20T1, 20V1 & Radio Ch. 3C1

VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6BC5	-4VDC	0V.	6.3VAC	0V.	90VDC	90VDC	0V.		
V 2	6J6	65VDC	45VDC	6.3VAC	0V.	-1.5VDC	8-3.4VDC	0V.		
V 3	6AU6	-4VDC	0V.	0V.	6.3VAC	120VDC	120VDC	.5VDC		
V 4	6AU6	-4VDC	0V.	0V.	6.3VAC	120VDC	120VDC	.6VDC		
V 5	6AU6	0V.	0V.	6.3VAC	0V.	115VDC	115VDC	1.3VDC		
V 6	6AL5	0V.	.6VDC	6.3VAC	0V.	0V.	0V.	-8VDC		
V 7	6AU6	.4VDC	.7VDC	6.3VAC	0V.	110VDC	120VDC	.7VDC		
V 8	6AU6	0V.	0V.	6.3VAC	115VDC	115VDC	115VDC	.7VDC		
V 9	6AL5	.1VDC	-.1VDC	0V.	6.3VAC	0V.	0V.	0V.		
V 10	6AV6	-.7VDC	0V.	6.3VAC	0V.	0V.	0V.	95VDC		
V 11	6Y6GT	0V.	0V.	235VDC	120VDC	0V.	175VDC	6.3VAC	6VDC	
V 12	12AU7	33VDC	-.7VDC	0V.	0V.	0V.	5.7VDC	0V.	1.2VDC	6.3VAC
V 13	6SN7GT	-16VDC	80VDC	0V.	-.6VDC	37VDC	0V.	0V.	6.3VAC	
V 14	684	0V.	8VDC	0V.	6.3VAC	0V.	0V.	0V.	0V.	315VDC
V 15	6SN7GT	-2.8VDC	100VDC	-22VDC	-60VDC	235VDC	0V.	6.3VAC	0V.	TOP CAP
V 16	6BQ6GT	0V.	6.3VAC	0V.	140VDC	-8.6VDC	220VDC	0V.	5.6VDC	*
V 17	6W4GT	0V.	6.3VAC	320VDC	320VDC	220VDC	310VDC	0V.	6.3VAC	
V 18	1B3GT	* DO NOT MEASURE.								
V 19	6U4G	0V.	240VDC	0V.	275VAC	0V.	275VAC	0V.	240VDC	
V 20	14CP4	0V.	0V.	310VDC	50VDC	6.3VAC	6.3VAC			

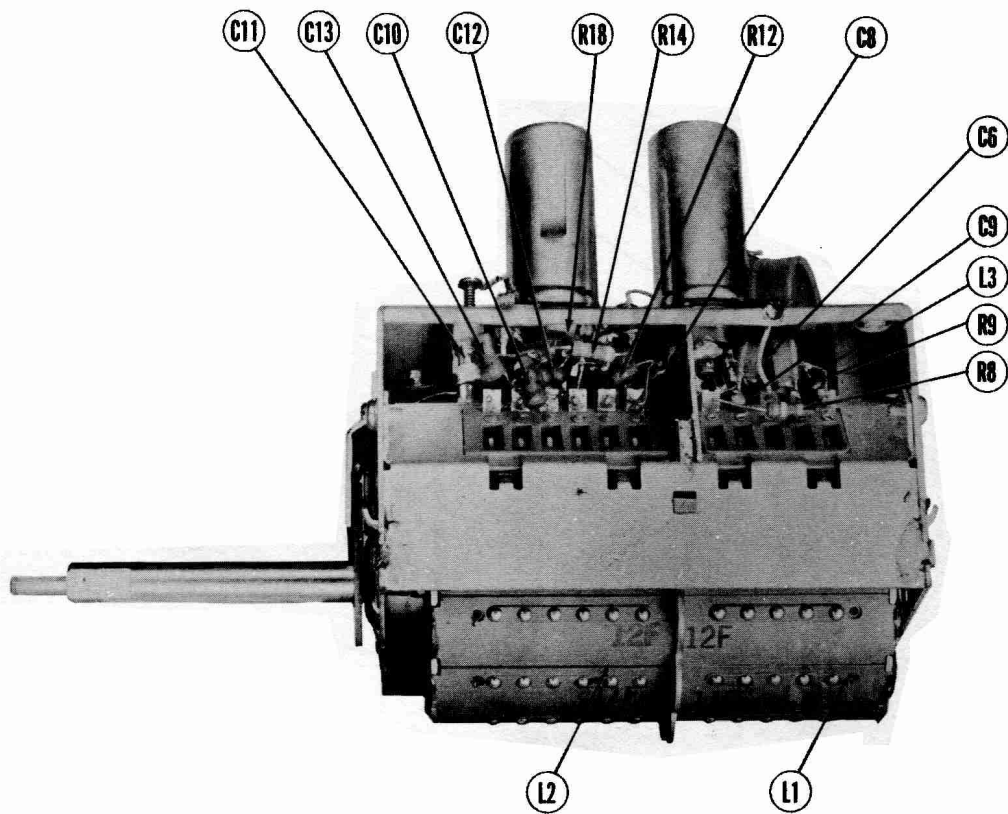
* TAKEN WITH VACUUM TUBE VOLTMETER.
 * DO NOT MEASURE.

RESISTANCE READINGS

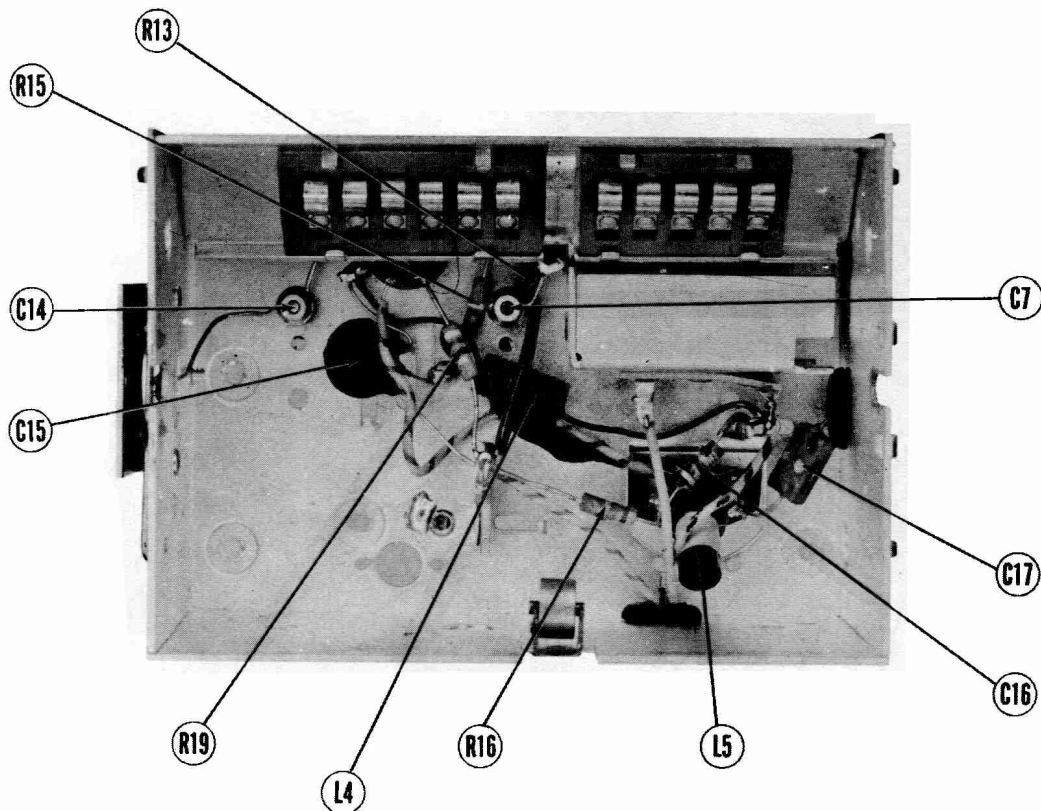
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6BC5	600KΩ	0Ω	.1Ω	0Ω	14.8KΩ	14.8KΩ	0Ω		
V 2	6J6	16.3KΩ	118KΩ	.1Ω	0Ω	225KΩ	10KΩ	0Ω		
V 3	6AU6	600KΩ	0Ω	0Ω	.1Ω	12.3KΩ	12.3KΩ	39Ω		
V 4	6AU6	600KΩ	0Ω	0Ω	.1Ω	12.2KΩ	12.2KΩ	39Ω		
V 5	6AU6	.5Ω	0Ω	.1Ω	0Ω	12.8KΩ	12.8KΩ	150Ω		
V 6	6AL5	0Ω	4.7KΩ	.1Ω	0Ω	.5Ω	0Ω	450KΩ		
V 7	6AU6	375KΩ	2KΩ	.1Ω	0Ω	17.2KΩ	11.5KΩ	2KΩ		
V 8	6AU6	470KΩ	0Ω	0Ω	.1Ω	12.9KΩ	12.9KΩ	82Ω		
V 9	6AL5	10KΩ	10KΩ	0Ω	.1Ω	Inf.	0Ω	Inf.		
V 10	6AV6	4.7 Meg.	0Ω	.1Ω	0Ω	0Ω	0Ω	170KΩ		
V 11	6Y6GT	Inf.	0Ω	1320Ω	11.8KΩ	470KΩ	15KΩ	.1Ω	330Ω	
V 12	12AU7	182KΩ	2.2 Meg.	0Ω	0Ω	0Ω	15KΩ	0Ω	270KΩ	.1Ω
V 13	6SN7GT	2.3 Meg.	41 Meg.	0Ω	950KΩ	114KΩ	0Ω	0Ω	.1Ω	
V 14	684	Inf.	470Ω	1 Meg.	.1Ω	0Ω	1 Meg.	Inf.	Inf.	42.5KΩ
V 15	6SN7GT	1 Meg.	414KΩ	340KΩ	310KΩ	430KΩ	0Ω	.1Ω	0Ω	TOP CAP
V 16	6BQ6GT	Inf.	.1Ω	Inf.	18.9KΩ	950KΩ	1160Ω	0Ω	47Ω	455Ω
V 17	6W4GT	Inf.	.1Ω	80KΩ	410Ω	170Ω	44.3Ω	0Ω	.1Ω	
V 18	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	TOP CAP
V 19	6U4G	Inf.	10KΩ	Inf.	35Ω	Inf.	35Ω	Inf.	10KΩ	405Ω
V 20	14CP4	0Ω	0Ω	4100Ω	270KΩ	.1Ω				

† MEASURED FROM PIN 8 OF V19.
 ‡ MEASURED FROM PIN 8 OF V17.

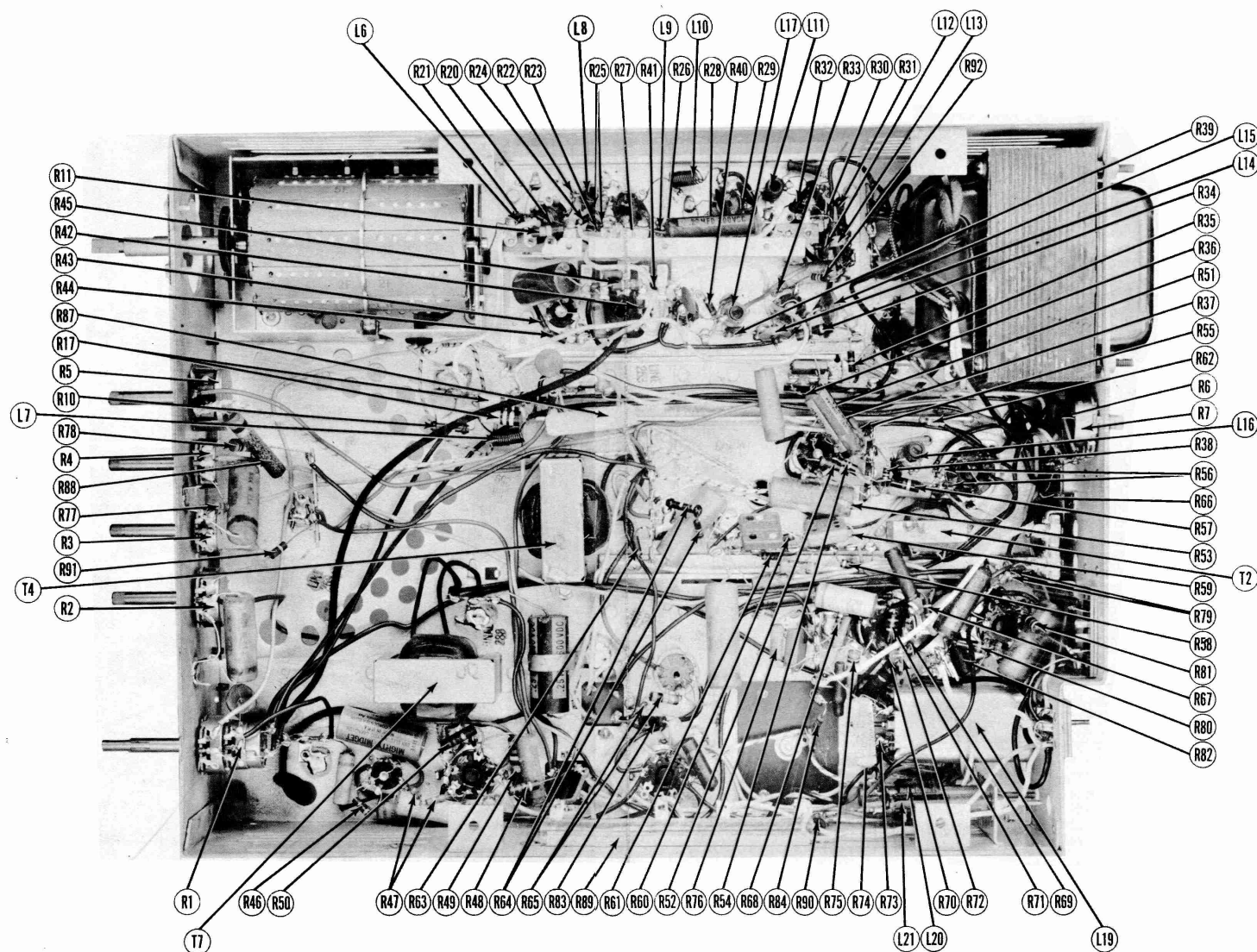
- DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
- Pin numbers are counted in a clockwise direction on bottom of socket.
- Measured values are from socket pin to common negative unless otherwise stated.
- Line voltage maintained at 117 volts for voltage readings.
- Front panels controls set at minimum.
- Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.



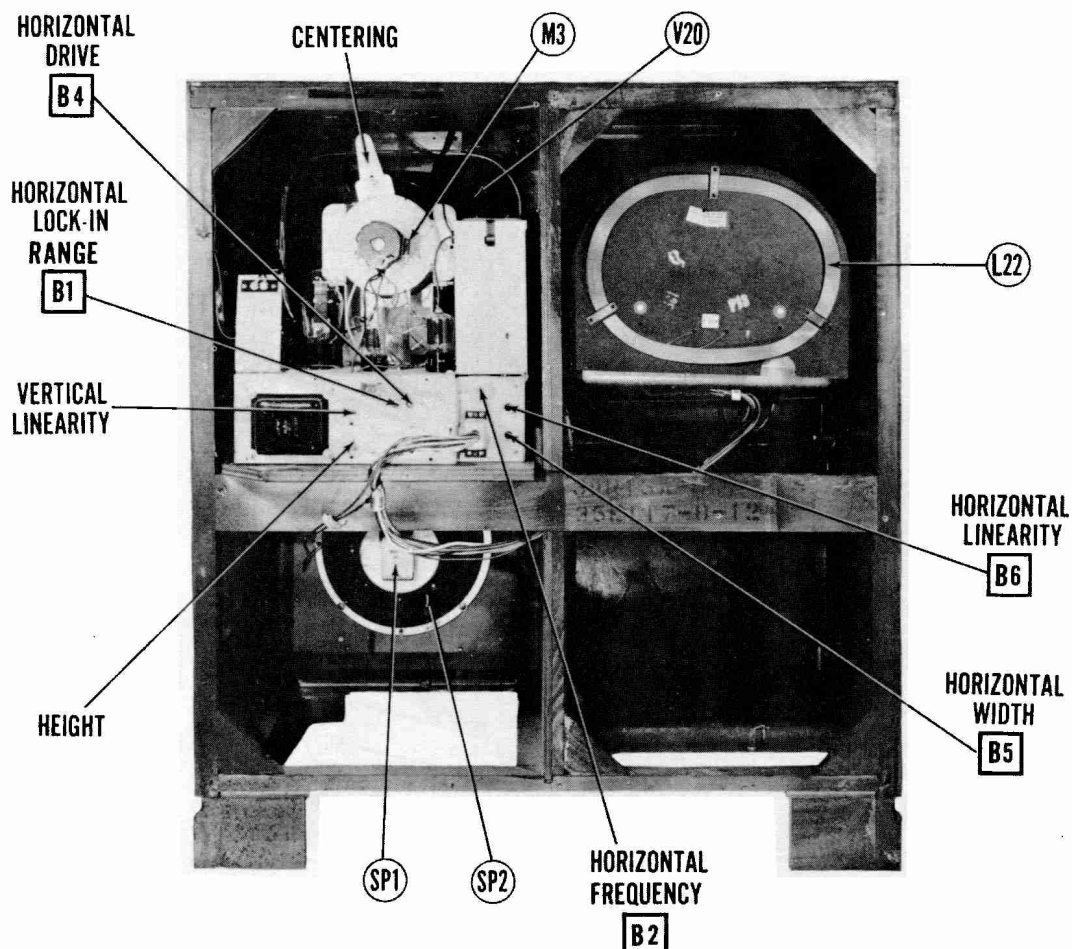
RF TUNER-RIGHT SIDE



RF TUNER-BOTTOM VIEW



CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

HORIZONTAL OSCILLATOR ALIGNMENT

Turn the set on and tune in a TV station, preferably a test pattern.

If the picture cannot be synchronized horizontally with the horizontal hold control, pre-set the adjustments as follows:

Horizontal lock (B3) one fourth of its range in from fully out.

Horizontal lock in trimmer (B1) one third turn out from fully in.

Horizontal frequency slug (B2) ten turns in from fully out.

Connect a low capacity probe of an oscilloscope to terminal "C" of the horizontal oscillator coil (L19).

Turn the horizontal hold control to the mid-position of its range.

Adjust B2 until the picture synchronizes horizontally.

Adjust B3 until the broad and narrow peaks of the pattern on the oscilloscope are of equal height as shown in figure 6. If necessary, adjust B2 to keep the picture synchronized while making this adjustment.

Disconnect the oscilloscope and turn the hold control to maximum counter clockwise.

Adjust B1 until 6 to 10 diagonal bars, sloping downward to the right appear on the screen.

Turn the horizontal hold control to maximum clockwise. The picture should synchronize. If the picture does not synchronize, repeat the horizontal lock-in adjustment (B1) as outlined above.

Turn the horizontal hold control to fully clockwise and adjust B2 counter-clockwise until the picture falls out of "sync", and then slowly clockwise until the picture just falls into "sync". If bending occurs at the top of the picture, turn B2 clockwise until the bending just disappears.

If bending is excessive and cannot be removed by adjusting B2, reconnect the oscilloscope and adjust B2 until the rounded peak of the waveform (figure 6) is 10 to 20 per cent higher than the sharp peak, this will compensate the loading effect of the oscilloscope.

HORIZONTAL WIDTH AND LINEARITY ADJUSTMENTS

Adjust the horizontal drive trimmer (B4) to 1/2 turn out from fully in.

Adjust the width slug (B5) until the proper size picture is obtained horizontally. Do not use the horizontal drive trimmer (B4) to adjust picture width.

Adjust the horizontal linearity slug (B6) until the picture is symmetrical from left to right.

If necessary, slightly retouch B4 for optimum symmetry.

If B4 is changed check to make sure that the picture will remain in horizontal synchronization for at least one half rotation of the hold control.

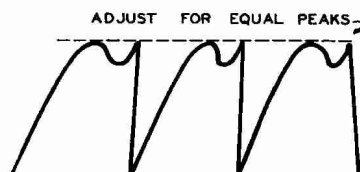


FIG. 6

TV PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		ADMIRAL PART No.	STANDARD REPLACEMENT		
V1A	RF Amplifier	6BC5	6BC5	7BD	
B	RF Amplifier	6CB6	6CB6	6CK	
C	RF Amplifier	6AG5	6AG5	7BD	
V2	Converter	6J8	6J8	7BF	
V3	1st Video IF Amp.	6AU6	6AU6	7BK	
V4	2nd Video IF Amp.	6AU6	6AU6	7BK	
V5	3rd Video IF Amp.	6AU6	6AU6	7BK	
V6	Video Det.	6AL5	6AL5	6BT	
V7	Video Amp.	6AU6	6AU6	7BK	
V8	Sound IF Amp.	6AU6	6AU6	7BK	
V9	Ratio Det.	6AL5	6AL5	6BT	
V10	AF Amp.	6AU6	6AU6	7BK	
V11	Audio Output	6V6GT	6V6GT	7AC	
V12	Sync. Amp. - Sep.	12AU7	12AU7	9A	
V13	Sync. Clipper - Vert. Oscillator	6SN7GT	6SN7GT	8BD	
V14	Vert. Output	6S4	6S4	9AC	
V15	Hor. AFC - Osc.	6SN7GT	6SN7GT	8BD	
V16	Hor. Output	6BQ6GT	6BQ6GT	6A M	
V17	Damper	6W4GT	6W4GT	4CG	
V18	H. V. Rect.	1B3GT	1B3GT	3C	
V19	L. V. Rect.	5U4G	5U4G	5T	
V20	Picture Tube	14CP4	14CP4	12D	

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						IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	ADMIRAL PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C1A	40	350	67C15-16	AF842J20B					Filter
B	20	400							Decoupling
C	100	50							Vert. Output Cathode
D	10	50							Hor. Output Cathode
C2A	80	350	67C15-15	AFH161212H					Filter
B	60	350							Filter
C	60	350							Decoupling
C3	4	50	67A4-9	PRS150/4		BR550		TVA-1303	Stabilizing Cap.
C4	50	25	67A4-10	PRS25/50		BR502A		TVA-1206	Output Cath. Bypass
C5	5		98A45-22	SI5NPO	TCZ-4.7		NPOK-5		Fixed Trimmer*
C6	.5-3		98A45-87		829-3				Variable Trimmer
C7	.5-3		98A45-23		829-3				Variable Trimmer
C8	120		98A45-25	SI120	D6-121		GP2K-120	19C29	RF Amp. Decoupling
C9	1000		98A45-24	SI1000	D6-102		GP2L-001	19C1	RF Amp. Fil.
C10	100		98A45-26	SI100	D6-101		GPIK-100	19C11	RF Coupling
C11	.5-3		98A45-23		829-3				Variable Trimmer
C12	20		98A45-27	SI20NPO	TCZ-20		NPOK-20		Osc. Grid Cap.
C13	10		98A45-79	SI10N750	TCN-10		N750-10	19C4	Fixed Trimmer
C14	.5-3		98A45-23		829-3				Variable Trimmer
C15A	1000		98A45-93	BPD-2x001	DD-2-10		882-2x0015	29C7	Conv. Fil. Bypass
B	1000								RF Bypass
C16	10		98A45-84	SI10NPO	TCZ-10		NPOK-10	19C3	Fixed Trimmer
C17	120	500	98A45-78	SI120	D6-121		GP2K-120	19C29	IF Coupling
C18	120	500	65B1-10		TCZ-120		NPOM-120		Fixed Trimmer
C19A	1500		65A17-2	BPD-2x0015	DD-2-152	{1W5D15}	882-2x0015	29C6	AGC Filter
B	1500					{1W5D15}			1st Video IF Decoup.
C20	5000		65A10-1	BPD-005	DD-502	ID5D5	811-005	29C1	Filament Bypass
C21A	1500		65A17-2	BPD-2x0015	DD-2-152	{1W5D15}	882-2x0015	29C6	AGC Filter
B	1500					{1W5D15}			2nd Video IF Decoup.
C22	5000		65A10-1	BPD-005	DD-502	ID5D5	811-005	29C1	3rd Video IF Decoup.
C23A	4000			BPD-2x004	DD-2-502	{ID5D4}	882-2x004	36C2	3rd Video IF Cath.
B	4000					{ID5D4}			3rd Video IF Fil.
C24	120		65B1-10	SI120	D6-121	5W5T15	GP2K-120	19C29	IF Coupling
C25	.22	200	64B9-37	P488-22		GT2P25		2TM-P22	AGC Filter
C26	.1	200	64B9-39	P288-1	DF-104	PTE4P1		2TM-P1	Video Coupling
C27	.1	400	64B9-36	P488-1	DF-104	PTE4P1		4TM-P1	Video Coupling
C28	6.8		65B6-71	SI6.8NPO	TCZ-6.8		NPOK-6.8		Fixed Trimmer
C29	.047	600	64B9-9	P688-047	DF-503	PTE685		6TM-S47	Pic. Tube Grid
C30	6.8		65B6-71	SI6.8NPO	TCZ-6.8		NPOK-6.8		Sound IF Coupling
C31	20		65B6-51	SI20NPO	TCZ-20		NPOK-20		Voltage Divider
C32	5000		65A10-1	BPD-005	DD-502	ID5D5	811-005	29C1	Sound IF Decoupling
C33	180		65B6-59				N030L-180		Fixed Trimmer
C34	500		65B6-6	SI500	D6-501	5W5T5	GP2K-500	19C32	Diode Load Cap.
C35	1000		65B6-41	SI1000	D6-102	1W5D1	GP2L-001	19C1	De-emphasis
C36	.047	600	64B9-9	P688-047	DF-503	PTE685		6TM-S47	Audio Coupling
C37	.01	600	64B9-13	P688-01	D6-103	PTE681	811-01	6TM-S1	Audio Coupling
C38	.05	600	64B9-9	P688-05	DF-503	PTE685		6TM-S5	AF Amp. Decoupling
C39	.01	600	64B9-13	P688-01	D6-103	PTE681	811-01	6TM-S1	Audio Coupling
C40	.005	600	64B9-15	P688-005	D6-502	PTE6D5	811-005	6TM-D5	Output Plate Bypass
C41	250	500	65B6-5	1468-00025	D6-251	5W5T25	GP2K-250	1FM-325	Sync. Coupling
C42	.01	600	64B9-13	P688-01	D6-103	PTE681	811-01	6TM-S1	Sync. Coupling
C43	.047	600	64B9-9	P688-047	DF-503	PTE685		6TM-S47	Sync. Coupling
C44	.01	600	64B9-13	P688-01	D6-103	PTE681	811-01	6TM-S1	Sync. Coupling
C45	.0022	600	64B5-14	P688-0022	D6-222	PTE6D2	GP2M-0022	6TM-D22	Integrator Network
C46	.0022	600	64B5-14	P688-0022	D6-222	PTE6D2	GP2M-0022	6TM-D22	Integrator Network
C47	4700	500	65B21-472	P688-0047	D6-472	ID5D5	GP2M-0047	6TM-D47	Integrator Network
C48	6000	500	65B5-45	1467-006	D6-562	ID5D6		1FM-26	Vert. Osc. Grid
C49	.047	600	64B9-9	P688-047		PTE685		6TM-S47	Vert. Discharge
C50	.1	600	64B9-7	P688-1	DF-104	PTE6P1		6TM-P1	Vert. Sweep Coupling
C51	180		65B6-59	SI180	D6-181	5W5T2	GP2K-180	1FM-32	Hor. Sync. Coupling
C52	82	500	65B21-820	1468-0001	TCZ-82	5W5T1	GPIK-82	1FM-31	Hor. Sync. Coupling
C53	7.5	1500	65A23-3						Hor. Feedback
C54	.022	200	64B9-11	P488-022	DF-203	PTE4S2		4TM-S22	AFC Filter
C55	.2	200	64B9-37	P488-22		GT4P2		2TM-P22	AFC Filter
C56	.047	600	64B9-9	P688-047	DF-503	PTE685		6TM-S47	Hor. AFC Plate
C57	180		65B6-59	SI180	D6-181	5W5T2	GP2K-180	1FM-32	Hor. Osc. Grid
C58	.01	600	65A13-3	P688-01		PTE681		6TM-S1	Fixed Trimmer
C59	1000	500	65B21-102	1464-001		IR5D1		MS-21	Hor. Discharge
C60	470	500	65B1-57	1468-0005	D6-471	5W5T5	GP2K-470	1FM-35	Hor. Sweep Coupling

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T V PARTS LIST AND DESCRIPTIONS (Continued)

CAPACITORS (CONT.)

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		ADMIRAL PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNBELL DUBILIER PART No.	
C81	.047 600	9429-9	P688-947	DF-503	PT6452	Hor. Output Screen
C82	.03 400	94A2-8	P488-02		PT6452	RF, Mixer & Osc. Colts
C83	.05 200	94A2-8	P288-05		PT6455	Feedback
C84	.15 600	94A2-8	P688-15		PT6455	Hor. Osc. Plate
C85	.022 600	94A2-34	P688-022		PT6452	Voltage Divider
C86	.1 400	94A2-10	P488-1	DF-104	PT6451	Voltage Divider
C87	5000 65B18-5	BY20C		TV3-502		Hor. Sweep Coupling H. V. Filter

* Not used in all models.
† Items C85 was added in run 1.

CONTROLS

ITEM No.	RATING RESIST. WATTS	REPLACEMENT DATA				INSTALLATION NOTES
		ADMIRAL PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	20000	75B11-15	RTV-47	SBB-519-S		Contrast control-front
R2A	10000	75B11-11	Q11-28	AM-49-S	AN-40	Volume control and switch-rear
R3A	1.5 Meg.	Not Req.	Q11-28	Not Req.	RS-2	Brightness control
R4A	5000	75B11-9	Q11-123	AG-44-S	B-31	Vertical hold control
R5	7500	Not Req.	W-750	Y-128	Not Req.	Attach to R2A per instructions
R6A	3000	75B11-7	Q11-12	AM-10-S	B-8	Focus control-wire wound
R7A	1.5 Meg.	Not Req.	Q11-239	FKS-1/4	Not Req.	Vert. linearity control
R8	10000	Not Req.		AK-1	Not Req.	Attach to R6A per instructions

RESISTORS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		ADMIRAL PART No.	IRC PART No.	
R9	47KΩ 20%	98A45-16	BTS-3900	Antenna Coil Shunt
R10	680KΩ 20%	98A45-17	BTS-47K	AOC Network
R11	100KΩ	98A45-18	BTS-100K	AOC Network
R12	100KΩ 20%	98A45-19	BTS-100K	RF Plate Coil Shunt
R13	220KΩ 20%	98A45-19	BTS-2200	RF Plate Decoupling
R14	4700Ω	98A45-20	BTS-4700	RF Mixer Grid
R15	220KΩ 20%	98A45-20	BTS-220K	RF Mixer Grid
R16	15KΩ 20%	98A45-20	BTS-15K	RF Mixer Plate
R17	1000Ω	98A45-20	BTS-1000	Voltage Divider-See Note 1
R18	100KΩ	98A45-20	BTS-100K	RF Osc. Grid
R19	4700Ω	98A45-20	BTS-4700	RF Osc. Plate
R20	100KΩ 20%	98A45-20	BTS-100K	1st Video IF A. mp. Grid
R21	39Ω	98A45-223	BTS-22K	1st Video IF Amp. Cathode-See Note 3
R22	22KΩ	98A45-223	BTS-22K	2nd Video IF Transformer Shunt
R23	1000Ω	98A45-223	BTS-1000	1st Video IF Amp. Decoupling-See Note 2
R24	1000Ω	98A45-223	BTS-1000	AOC Network
R25	39Ω	98A45-223	BTS-22K	2nd Video IF Amp. Cathode-See Note 4
R26	100KΩ	98A45-223	BTS-100K	3rd Video IF Transformer Shunt
R27	150Ω	98A45-223	BTS-150	2nd Video IF Amp. Decoupling-See Note 2
R28	1000Ω 20%	98A45-223	BTS-1000	3rd Video IF Amp. Cathode
R29	4700Ω	98A45-223	BTS-4700	3rd Video IF Amp. Decoupling
R30	4700Ω	98A45-223	BTS-4700	Video Det. Load
R31	680KΩ 20%	98A45-223	BTS-680K	AOC Diode Load
R32	680KΩ 20%	98A45-223	BTS-680K	AOC Network
R33	1.2 Meg.	98A45-223	BTS-1.2 Meg.	Video Amp. Grid
R34	5000Ω	98A45-223	BTS-5000	Video Amp. Plate
R35	10KΩ	98A45-223	BTS-10K	Isolation
R36	270KΩ	98A45-223	BTS-270K	Isolation
R37	470KΩ	98A45-223	BTS-470K	Voltage Divider
R38	470KΩ	98A45-223	BTS-470K	Picture Tube Cathode
R39	470KΩ	98A45-223	BTS-470K	Sound IF Grid
R40	82Ω	98A45-223	BTS-82	Sound IF Cathode
R41	680Ω 20%	98A45-223	BTS-680	Sound IF Decoupling-See Note 5
R42	390Ω	98A45-223	BTS-390	Balancing-See Note 2
R43	10KΩ 5%	98A45-223	BTS-10K-5%	Ratio Det. Diode Load
R44	10KΩ 5%	98A45-223	BTS-10K-5%	Ratio Det. Diode Load
R45	47KΩ	98A45-223	BTS-47K	De-emphasis
R46	4.7 Meg.	98A45-223	BTS-4.7 Meg.	AF Amp. Grid
R47	150KΩ 20%	98A45-223	BTS-150K	AF Amp. Plate
R48	47KΩ	98A45-223	BTS-47K	AF Amp. Decoupling
R49	470KΩ	98A45-223	BTS-470K	AF Output Grid
R50	330Ω 5%	98A45-223	BTS-330	AF Output Cathode
R51	2.2 Meg.	98A45-223	BTS-2.2 Meg.	Sync. Amp. Grid
R52	47KΩ	98A45-223	BTS-47K	Sync. Amp. Plate
R53	270KΩ	98A45-223	BTS-270K	Sync. Sep. Cathode
R54	270KΩ	98A45-223	BTS-270K	Sync. Sep. Plate
R55	15KΩ 20%	98A45-223	BTS-15K	Voltage Divider
R56	1 Meg. 20%	98A45-223	BTS-1 Meg.	Sync. Clipper Grid-See Note 2
R57	22KΩ	98A45-223	BTS-22K	Sync. Clipper Plate
R58	15KΩ	98A45-223	BTS-15K	Voltage Divider
R59	22KΩ	98A45-223	BTS-22K	Integrator
R60	8200Ω	98A45-223	BTS-8200	Integrator
R61	8200Ω	98A45-223	BTS-8200	Integrator
R62	8200Ω	98A45-223	BTS-8200	Vert. Osc. Grid
R63	8200Ω	98A45-223	BTS-8200	Vert. Peaking
R64	1 Meg.	98A45-223	BTS-1 Meg.	Voltage Divider-See Note 2
R65	1 Meg.	98A45-223	BTS-1 Meg.	Vert. Output Grid-See Note 2
R66	470Ω	98A45-223	BTS-470	Vert. Output Cathode
R67	820KΩ 20%	98A45-223	BTS-820K	Horiz. AFC Grid
R68	8200Ω	98A45-223	BTS-8200	Horiz. AFC Filter
R69	150KΩ 20%	98A45-223	BTS-150K	Horiz. AFC Cathode
R70	220KΩ	98A45-223	BTS-220K	Horiz. AFC Cathode
R71	2.7 Meg.	98A45-223	BTS-2.7 Meg.	Voltage Divider
R72	100KΩ	98A45-223	BTS-100K	Horiz. Osc. Grid

RESISTORS (CONT.)

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		ADMIRAL PART No.	IRC PART No.	
R73	8200Ω 20%	98A45-223	BTS-8200	Horiz. Osc. Transformer Shunt
R74	22KΩ 20%	98A45-223	BTS-22K	Horiz. Osc. Transformer Shunt
R75	120KΩ	98A45-223	BTA-120K	Feedback
R76	33KΩ 20%	98A45-223	BTA-33K	Horiz. Osc. Plate
R77	680Ω	98A45-223	BTS-680	Voltage Divider
R78	120KΩ	98A45-223	BTA-120K	Voltage Divider
R79	1 Meg. 20%	98A45-223	BTS-1 Meg.	Horiz. Output Grid-See Note 2
R80	680 5%	98A45-223	BTS-680	Parasitic Supp.
R81	47Ω	98A45-223	BW-1-47	Horiz. Output Cathode
R82	6800Ω	98A45-223	BTS-6800	Horiz. Output Screen
R83	1000Ω	98A45-223	BTA-1000	Voltage Divider
R84	560KΩ	98A45-223	BTS-560K	Feedback
R85	1.8Ω	98A45-223	BTS-1.8	HV Rect. Filament
R86	1 Meg.	98A45-223	BTS-1 Meg.	HV Filter
R87	50Ω	98A45-223	61A7-54	1V Filter-Wire Wound
R88	390Ω	98A45-223	BTS-390	Focus Coil Shunt
R89A	1500Ω	98A45-223	BTS-15K	Voltage Dropping
B	7500	98A45-223	61B1-1	Voltage Dropping
C	1000Ω	98A45-223	BTS-100K	Voltage Dropping
R90	15KΩ	98A45-223	BTS-15K	Bleeder - See Note 8
R91	100KΩ 20%	98A45-223	BTS-100K	Voltage Dropping
R92	470KΩ	98A45-223	BTS-470K	Video Amp. Grid Leak-See Note 6

Note 1. In some models resistors may be connected in parallel to obtain desired value.
Note 2. In some models resistors may be connected in series to obtain desired value.
Note 3. Some models may use 47Ω in this application.
Note 4. Some models may use 680 in this application.
Note 5. Some models may use 1000Ω in this application.
Note 6. Not used in all models.
Note 7. In "TV Only" models R89 is a single 1500Ω, 10 watt resistor, Mgr's part #61A3-15.
Note 8. Not used in "TV Only" models.

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA			
		ADMIRAL PART No.	STANCO PART No.	MERIT PART No.	CHICAGO PART No.
T1	117VAC ② 1.5A	600VCT 220ADCT	5VAC 2A	80C26-2	TP-410 ⑤

⑤ Add series resistor to reduce plate voltage and drill new mounting holes.

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING	REPLACEMENT DATA				NOTES
		ADMIRAL PART No.	STANCO PART No.	MERIT PART No.	CHICAGO PART No.	
T2	2100Ω 4000Ω Tap ④ 48Ω	1100Ω 4.1Ω Tap ④ 48Ω	79A18-3 79C32-1	A-811 ① A-3000 ① HVO-6	TBO-1 ①	Vert. Block Osc. Trans. Hor. Output Trans.
T3	1350Ω Tap ④ 130Ω	130Ω Tap ④ 130Ω	79B29-2	A-813	A-3037	Vert. Output Trans.
T4	14Ω 48Ω Tap ④ 100Ω	14Ω 48Ω Tap ④ 100Ω	A3222 69C17-3	MD-70		Hor. Deflection Coil Vert. Deflection Coil Focus Coil

① Drill one new mounting hole.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		ADMIRAL PART No.	STANCO PART No.	MERIT PART No.	CHICAGO PART No.	
T7A	4800Ω 3.5Ω 3500Ω	280Ω 4Ω 30Ω	79B31-1 79B31-1 79B31-1	A-3877 ① A-3877 ① A-3877 ①	RO-9 A-388 ① RO-8 ①	① Drill one new mounting hole. ② Used in chassis 2071. ③ Used in chassis 2071.

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		ADMIRAL PART No.	JENSEN PART No.	QUAM PART No.	
SP1A	FIELD RES. 3.5Ω	78B47-2 ②	MOD. P10-T	10A4A	② Used in chassis 2071.
B	PM	78B47-2 ②			③ Used in chassis 2071.
C	PM	78B47-2 ②			④ Replace output transformer to match 6-8Ω voice coil.
SP2A	8 5/8" 3/4"				
B	5 7/8"				
C	4 7/8"				

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	ADMIRAL PART No.	MEISSNER PART No.	
L1	Ant. Coil	0Ω	0Ω	†		† Refer misc. section
L2	RF, Mixer & Osc. Colts	0Ω	0Ω	†		† Refer misc. section
L3	Phil. Choke	0Ω	0Ω	98A45-13		
L4	Phil. Choke	0Ω	0Ω	98A45-13		
L5	1st Video IF	1.1Ω	1.1Ω	98A45-77		
L6	Adj. Channel					* Includes 120MMF capacitor
L7	Phil. Choke	0Ω	0Ω	73A10 *		
L8	2nd Video IF	.5Ω	.5Ω	73A2-5		
L9	3rd Video IF	.5Ω	.5Ω	72C98-11		
L10	Phil. Choke	0Ω	0Ω	72C98-10		
L11	4th Video IF	.5Ω	.5Ω	72C98-9		
L12	Peaking	6.8Ω	6.8Ω	73A5-6		
L13	Peaking	17Ω	17Ω	73A5-7		
L14	Peaking	7.5Ω	7.5Ω	73A5-8		
L15	Peaking	8.5Ω	8.5Ω	73A5-9		
L16	Sound Trap	4.9Ω	4.9Ω	72B99-3		
L17	Sound IF	4.9Ω	4.9Ω	72B99-2		
L18	Ratio Det.	3.5Ω	4Ω	72B88		
L19	Horiz. Osc. Coil	800Ω	500Ω	69B10		
L20	Horiz. Lin. Coil	8.5Ω	8.5Ω	94A38		
L21	Width Coil	.4Ω	.4Ω	94A29-2		

MISCELLANEOUS

ITEM No.	PART NAME	ADMIRAL PART No.	NOTES
M1	RF Tuner	94C21-4	
M2	Fuse	84A4-2	.25A 250V Type 3AG
M3	Ion Trap	94A15-2	
	Ant. Coil	98A62-2	Channel 2
	Ant. Coil	98A62-3	Channel 3
	Ant. Coil	98A62-4	Channel 4
	Ant. Coil	98A62-5	Channel 5
	Ant. Coil	98A62-6	Channel 6
	Ant. Coil	98A62-7	Channel 7
	Ant. Coil	98A62-8	Channel 8
	Ant. Coil	98A62-9	Channel 9
	Ant. Coil	98A62-10	Channel 10
	Ant. Coil	98A62-11	Channel 11
	Ant. Coil	98A62-12	Channel 12
	Ant. Coil	98A62-13	Channel 13
	RF, Mixer & Osc. Colts	98A63-2	Channel 2
	RF, Mixer & Osc. Colts	98A63-3	Channel 3
	RF, Mixer & Osc. Colts	98A63-4	Channel 4
	RF, Mixer & Osc. Colts	98A63-5	Channel 5
	RF, Mixer & Osc. Colts	98A63-6	Channel 6
	RF, Mixer & Osc. Colts	98A63-7	Channel 7
	RF, Mixer & Osc. Colts	98A63-8	Channel 8
	RF, Mixer & Osc. Colts	98A63-9	Channel 9
	RF, Mixer & Osc. Colts	98A63-10	Channel 10
	RF, Mixer & Osc. Colts	98A63-11	Channel 11
	RF, Mixer & Osc. Colts	98A63-12	Channel 12
	RF, Mixer & Osc. Colts	98A63-13	Channel 13
	Safety Glass	23D89	
	Knob	33C53-9	Channel selector
	Knob	33C53-10	Fine tuning
	Knob	33C53-12	Contrast
	Knob	33C53-11	Volume
	Escutcheon	23C56-1	Control
	Escutcheon	23C56-2	Door

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RADIO PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		ADMIRAL PART No.	STANDARD REPLACEMENT		
V21	Converter	6BE6	6BE6	7CH	
V22	IF Amplifier	6BA6	6BA6	7BK	
V23A	Det. - AVC - AF	6AV6	6AV6	7BT	
B	Det. - AVC - AF	6AT6	6AT6	7BT	

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						IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	ADMIRAL PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C68	4.5		65B1-62	SI 5	TCZ-4.7	5W5V5	GPIK-5	MS-55	Ant. Coupling
C69	.1	200	64B5-30	P288-1	DF-104	PTE-4P1		2TM-P1	AVC Filter
C70	50		65B6-4	SI50	D6-500	5W5Q5	GPIK-50	19C28	Osc. Grid Cap.
C71	5000		65A10-1	BPD-005	DD-502	ID5D5	811-005	29C1	Osc. Anode Bypass
C72	.1	400	64B5-20	P488-1	DF-104	PTE4P1		4TM-P1	Decoupling
C73	5000		65A10-1	BPD-005	DD-502	ID5D5	811-005	29C1	IF Amp. Screen
C74A	100		**63A3-1	SI100	*PC-50	5W5T1	GPIK-100	19C11	Diode RF Filter
B	100			SI100		5W5T1	GPIK-100	19C11	Diode RF Filter
C75	250		65B6-5	SI250	D6-251	5W5T25	GP2K-250	1FM-325	Tone Compensation
C76	.01	400	64B5-25	P488-01	D6-103	PTE4S1	811-01	4TM-S1	Tone Compensation
C77	.002	800	64B5-14	P688-002	D6-202	PTE6D2	GP2M-002	6TM-D2	Tone Compensation
C78	.01	400	64B5-25	P488-01	D6-103	PTE4S1	811-01	4TM-S1	Audio Coupling

** Items C74A, C74B and R99 are combined into one unit.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESISTANCE	WATTS	ADMIRAL PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R93A	2 Meg.		75B11-12	Concentrikrit B11-139 *	RTV-46	SBBT-531-S	Tone control-front Volume control-tapped at 1 Meg. -rear Attach per instr. in "Concentrikrit". Attach per instr. in "Concentrikrit".
B	2 Meg.			B18-139X *			
C	Shaft End			E-202 *			
D	Switch			76-1 *			

* Additional parts to be used with "Concentrikrit".

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	ADMIRAL PART No.	IRC PART No.	
R94	22KΩ	$\frac{1}{2}$	60B8-223	BTS-22K	Osc. Grid
R95	10KΩ	1	60B14-103	BTA-10K	Osc. Anode
R96	150Ω	$\frac{1}{2}$	60B8-151	BTS-150	IF Amp. Cathode
R97	27KΩ	1	60B14-273	BTA-27K	IF Amp. Screen
R98	2200Ω	2	60B20-222	BTB-2200	Decoupling
R99	47KΩ		63A3-1		Diode Filter-See Note 9
R100	1 Meg.		60B8-105	BTS-1 Meg.	AVC Network
R101	4.7 Meg.		60B8-475	BTS-4.7 Meg.	AF Amp. Grid
R102	27KΩ		60B8-273	BTS-27K	Tone Compensation
R103	22Ω		60B8-220	BW- $\frac{1}{2}$ -22	Isolation-See Note 10

Note 9. Items R99, C74A, C74B are combined into one unit.

Note 10. In some models resistors may be connected in parallel to obtain desired value.

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	ADMIRAL PART No.	MEISSNER PART No.	
L22	Loop Ant.	1.4Ω		69C100-1 *		* Includes 2 capacitors Tap at .8Ω
L23	Osc. Coil	6.5Ω		69A52-1		
L24	1st IF	18Ω	18Ω	72B28-7		
L25	2nd IF	22Ω	22Ω	72B28-17		

PHONO CARTRIDGE and NEEDLE

ITEM No.	REPLACEMENT DATA				REMARKS
	ADMIRAL PART No.	ASTATIC PART No.		SHURE PART No.	
		CARTRIDGE	NEEDLE	CARTRIDGE	
M4	409A13	AC-AG-J	A-AG	W26B	A66U

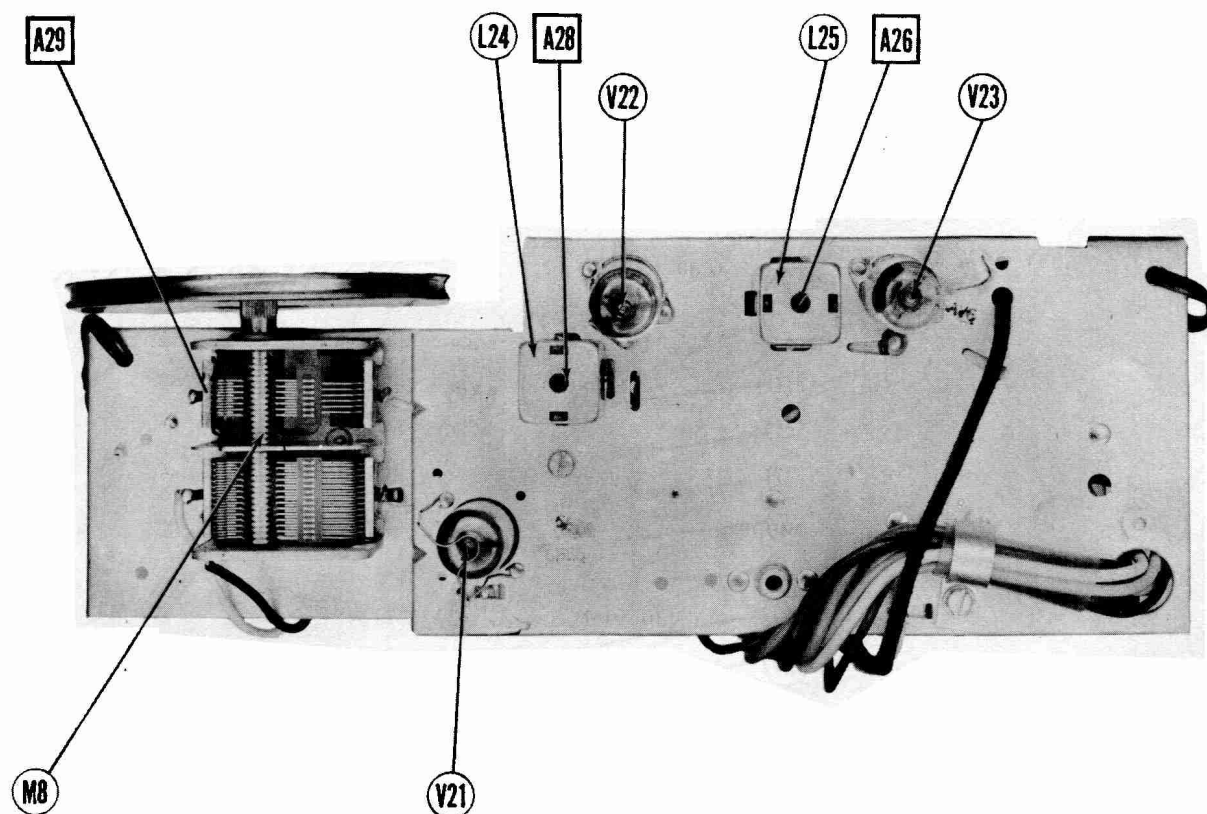
ASTATIC AND SHURE NEEDLE LISTINGS SHOWN ABOVE ARE SPECIFIED FOR THE RESPECTIVE REPLACEMENT CARTRIDGES LISTED.

DIAL LIGHTS

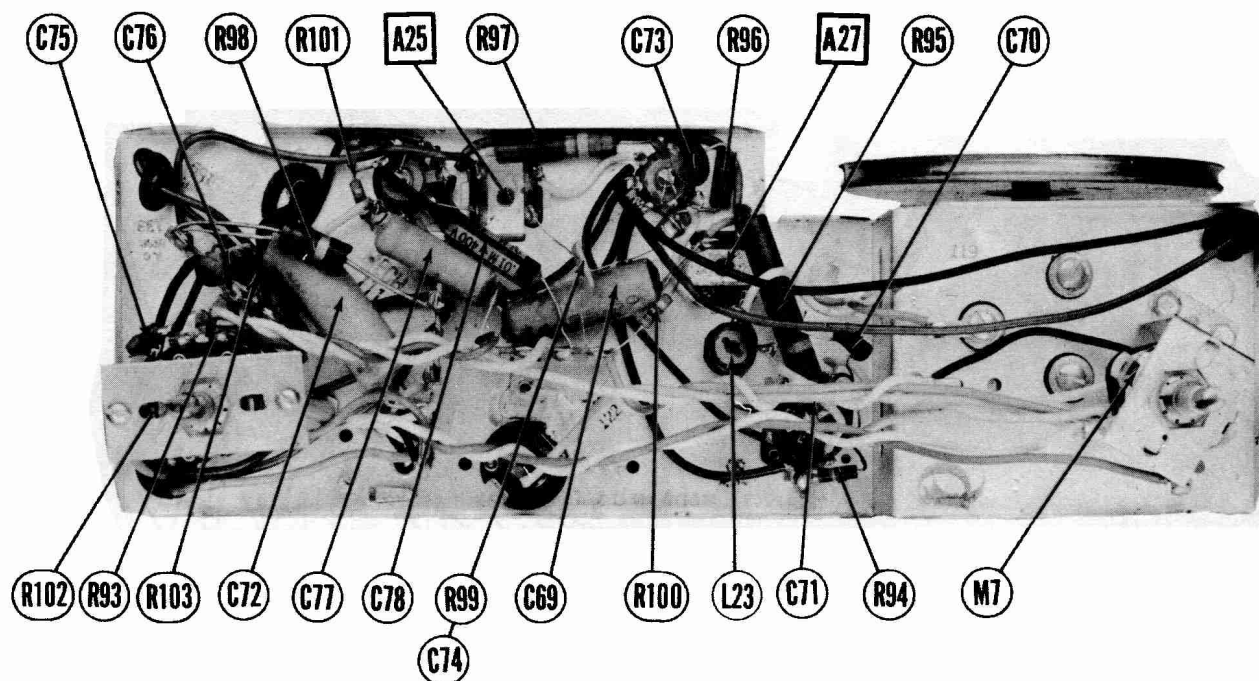
ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					ADMIRAL PART No.		
M5	Bayonet	6-8					Type #47
M6	Bayonet	6-8					Type #47

MISCELLANEOUS

ITEM No.	PART NAME	ADMIRAL PART No.	NOTES
M7	Switch	77A28-2	Function
M8	Tuning Cap.	68B32	
	Dial Scale	22B23-1	Tuning Tone Volume Dial Dial cord tension
	Escutcheon	23D63-3	
	Knob	33D55-1	
	Knob	33D55-4	
	Knob	33D55-5	
	Pointer	25A38	
	Spring	19B1-3	



RADIO CHASSIS-TOP VIEW

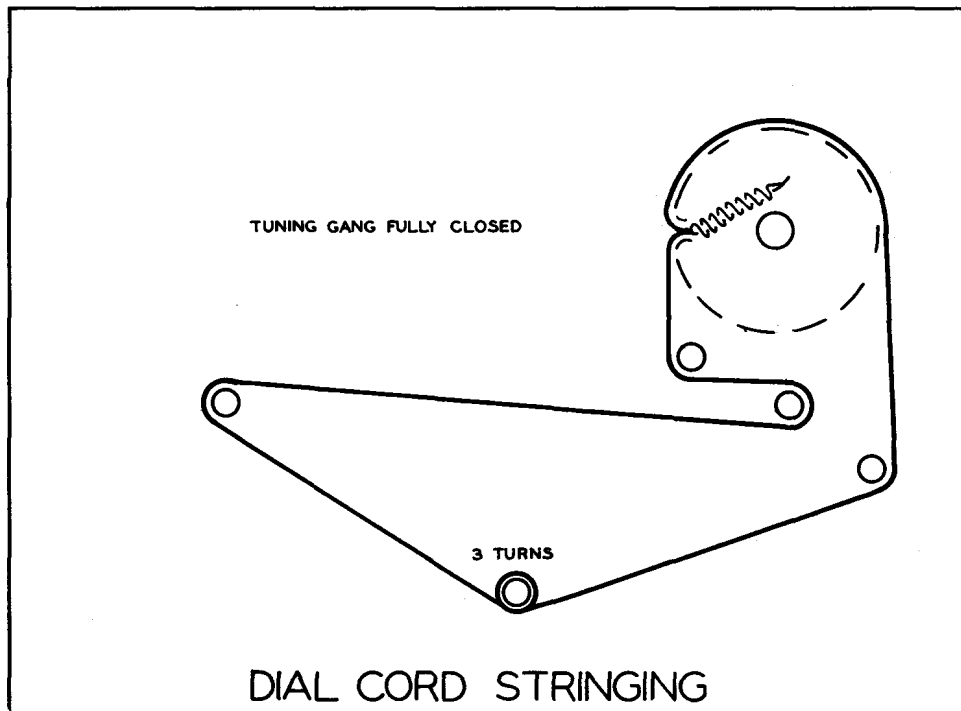


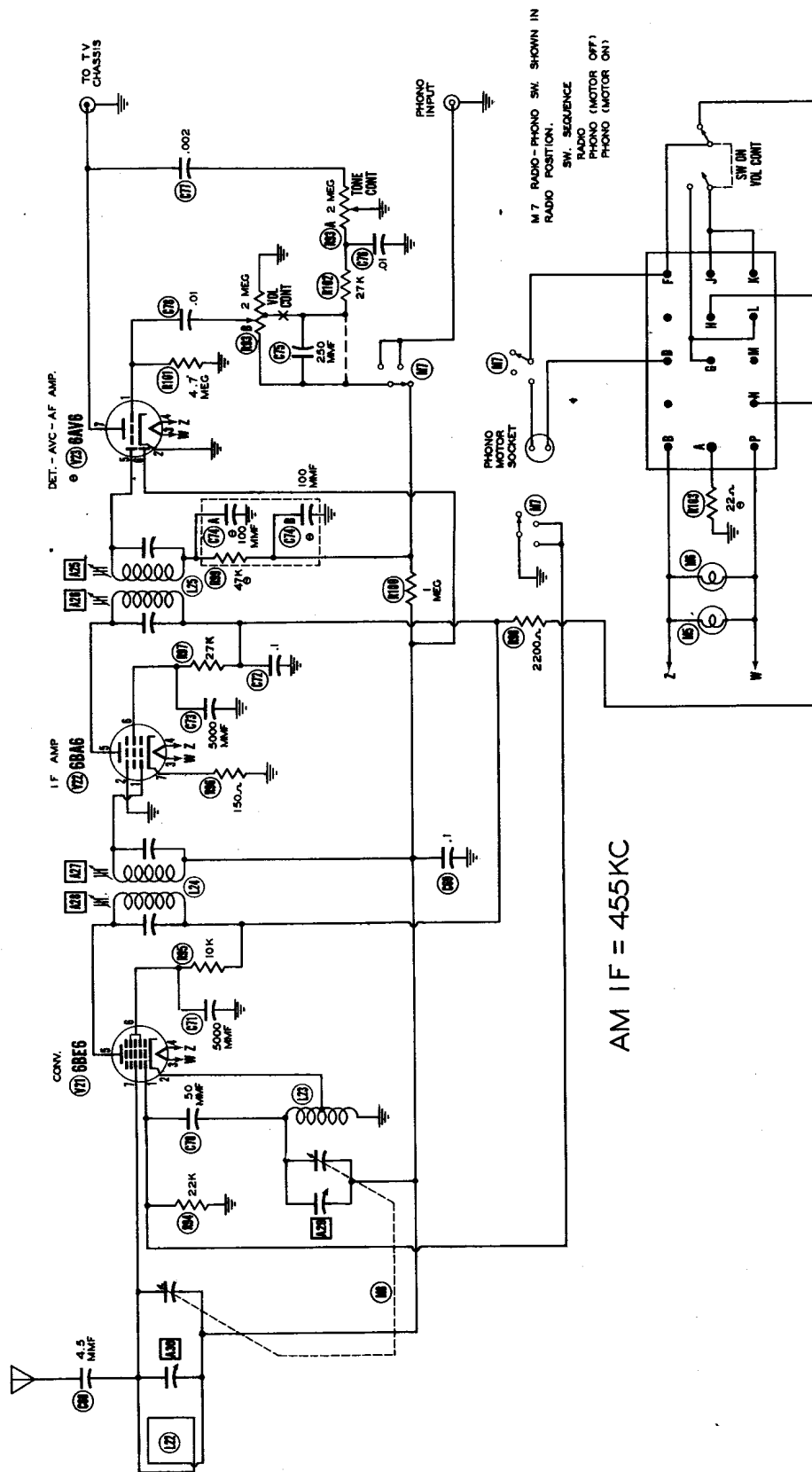
RADIO CHASSIS-BOTTOM VIEW

DISASSEMBLY INSTRUCTIONS

1. Remove four push-on type control knobs.
2. Remove nine wood screws holding rear cover in place. Remove rear cover.
3. Disconnect radio power cables.
4. Disconnect speaker leads.
5. Disconnect built-in antenna.
6. Remove four $7/16$ " hex head screws holding chassis in cabinet. Remove chassis.
7. Remove four $5/16$ " hex nuts holding speaker. Remove speaker.

FOR PICTURE TUBE REMOVAL IT IS NECESSARY TO REMOVE CHASSIS AS OUTLINED ABOVE.





CONTACT HEADQUARTERS

Item	TYPICAL SPECIFICATIONS						
	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6	Fig. 7
Y21	4-5.1VDC	0V	6.3VAC	0V	80VDC	80VDC	- .4VDC
Y22	- .4VDC	0V	6.3VAC	0V	80VDC	55VDC	.8VDC
Y23	5.6V6	- .8VDC	6.3VAC	0V	- .4VDC	- .4VDC	.75VDC

TAKEN WITH VACUUM TUBE VOLTMETER

DISCUSSION

		Table	Pts 1	Pts 2	Pts 3	Pts 4	Pts 5	Pts 6	Pts 7
		08A6	23X0	.80	1.30	00	15.5XC	115K0	3 Meg.
	V21	08A6		00	1.30	00	15.5XC	125K0	1000
	V22	08A6	3 Meg.				3 Meg.	3 Meg.	170K0
	V23	6AV5	4.7 Meg.	00	1.30	00	3 Meg.		

RADIO-PHONO SWITCH IN RADIO POSITION

A PHOTOFACT STANDARD NOTATION SCHEMATIC

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RADIO SCHEMATIC