

BENDIX MODEL 6100	
TRADE NAME	Bendix, Models 2051, 2060, 3051, 6001, 6003, 6090, 6100, 6920, 6990
MANUFACTURER	Bendix Radio Div. of Bendix Aviation, Baltimore, Maryland
TYPE SET	TV-AM-FM-Phono Combination (Some Models "TV" Only)
TUBES	Twenty Four (Combination Models) Seventeen ("TV Only" Models)
POWER SUPPLY	110-120 Volts AC-60 Cycle
RATING	1.5 Amp. at 117 Volts AC (TV), .47 Amp. at 117 Volts AC (Radio)
TUNING RANGE-BROADCAST	540-1620KC
FREQ. MOD.	88-108MC
TV Channels	2 thru 13

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RECORD CHANGER WEBSTER-CHICAGO MODEL 100

HOWARD W. SAMS & CO., INC. • Indianapolis 1, Indiana

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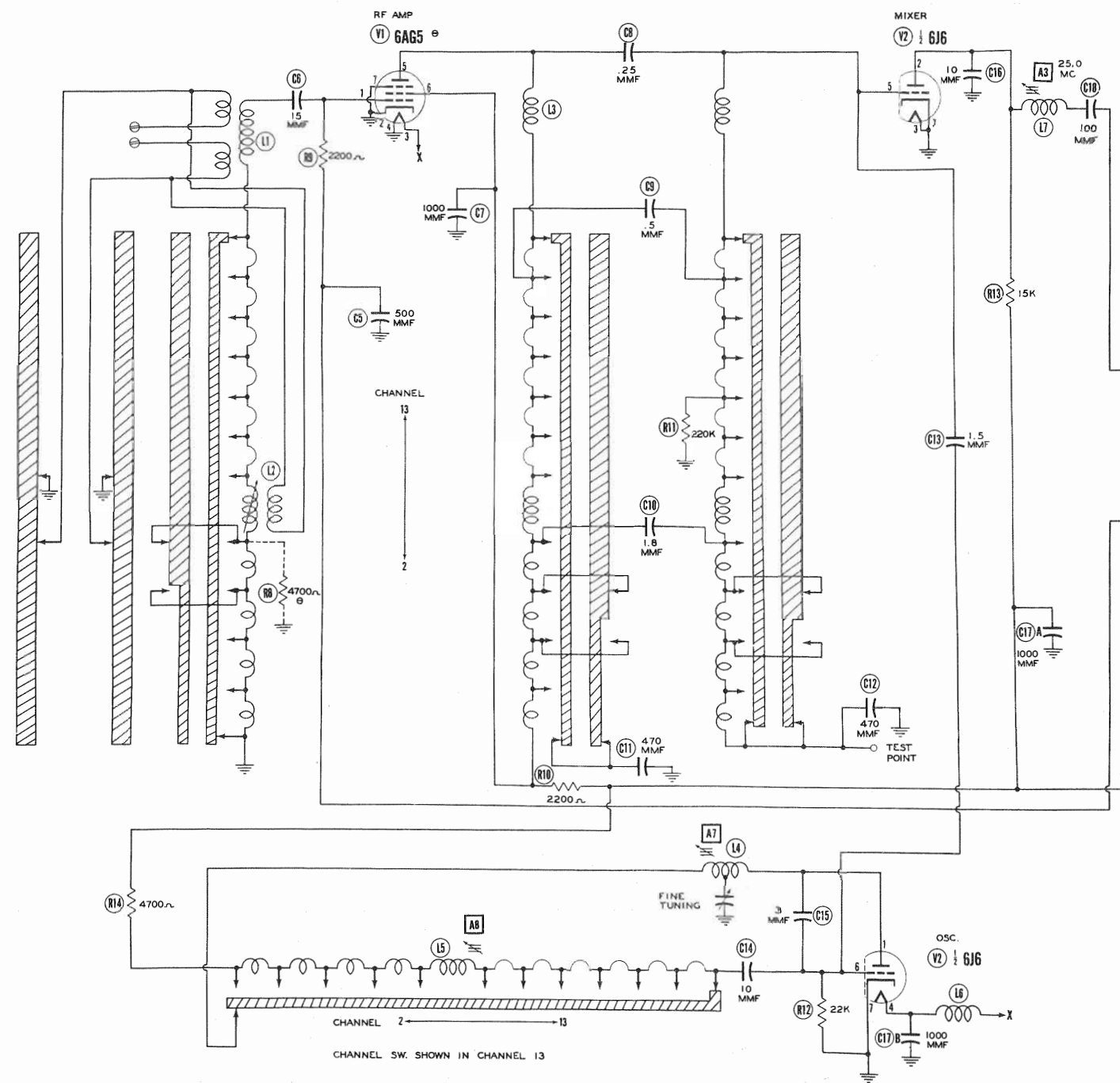
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DATE 11-50

SET 111

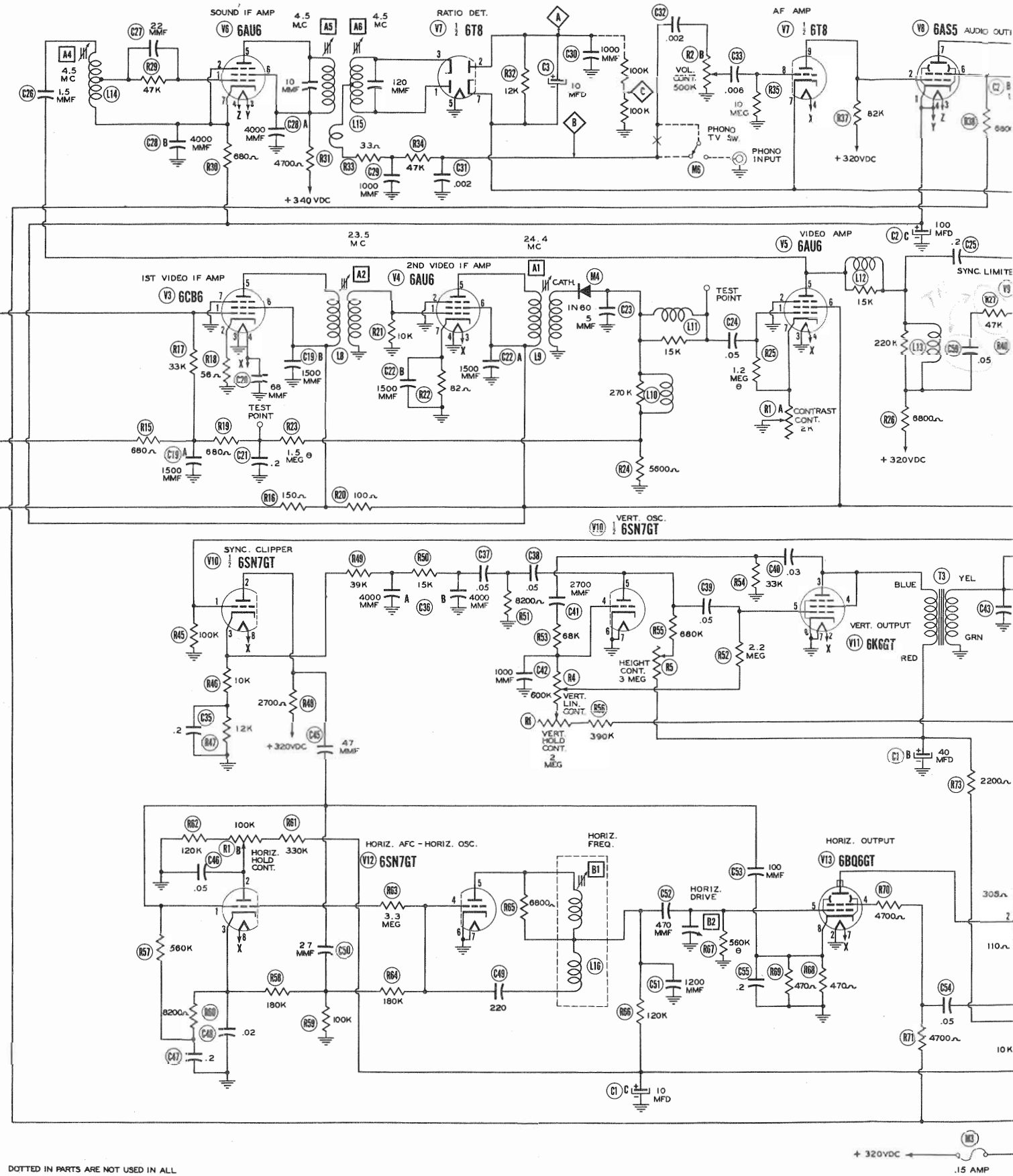
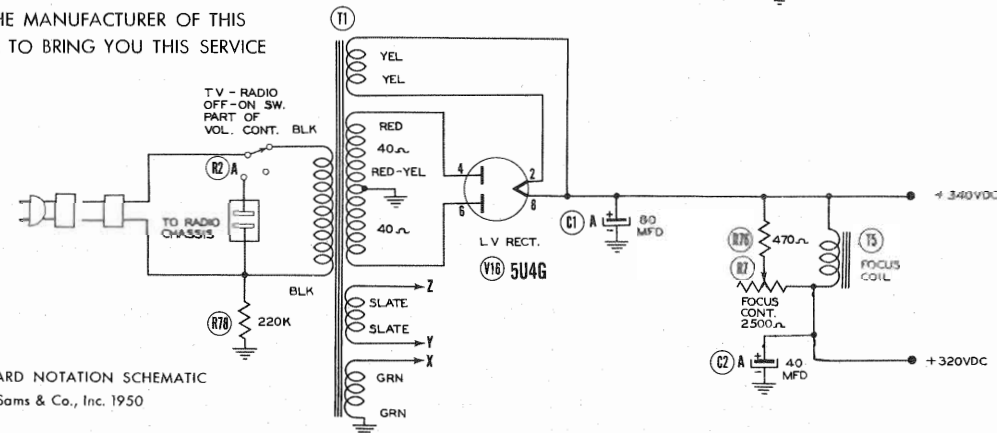
FOLDER 3

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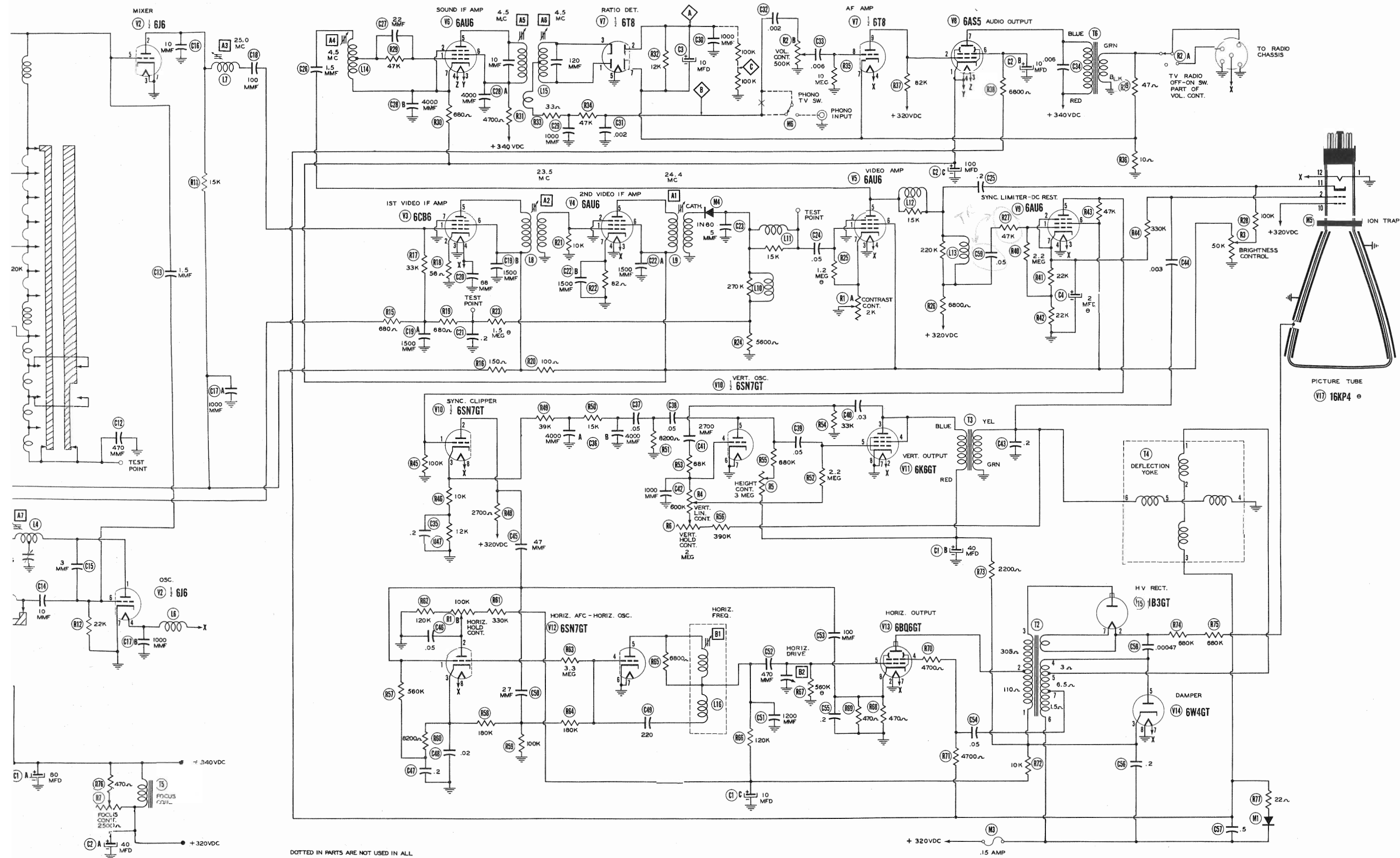
THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

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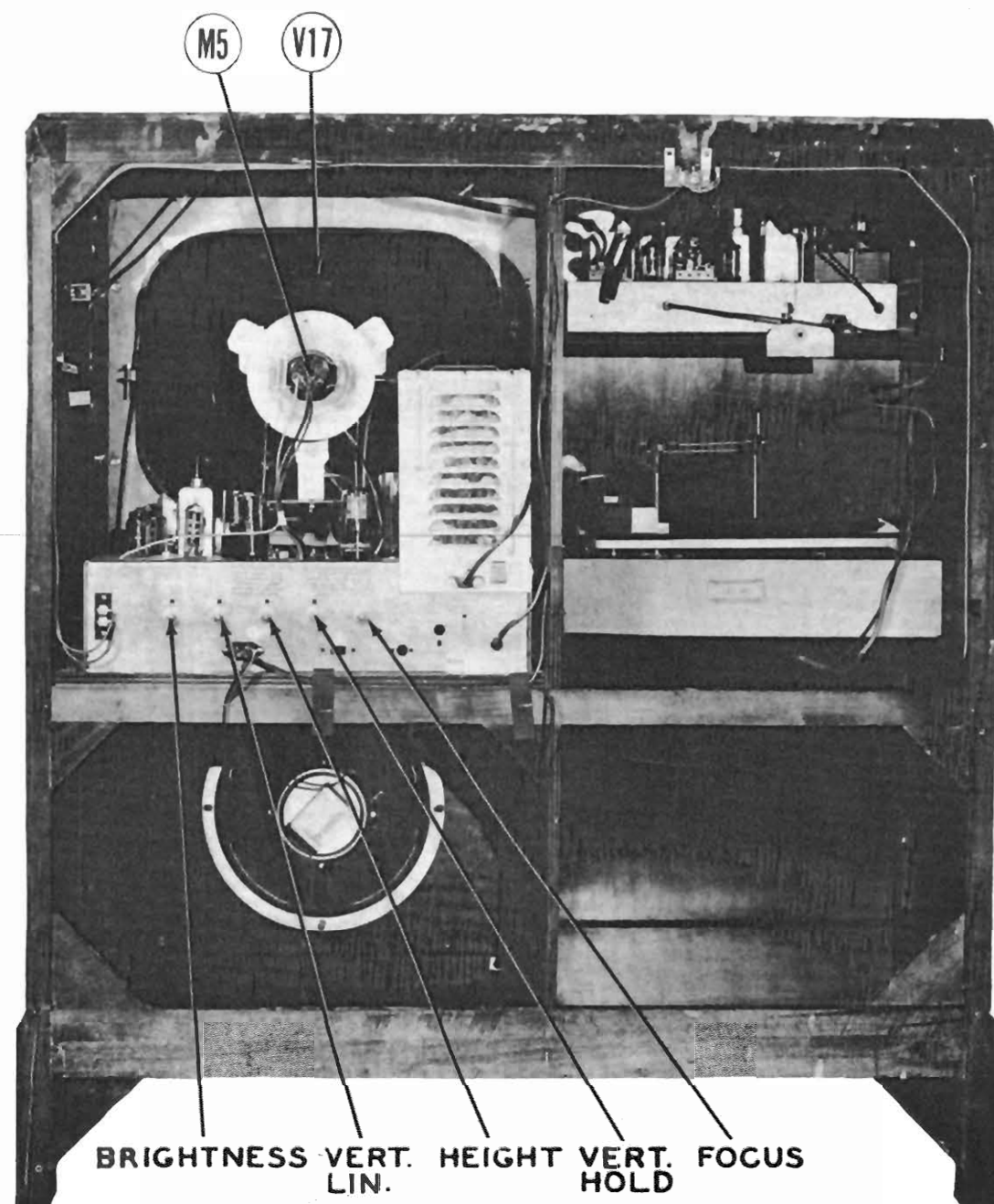
SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION



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SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

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CABINET-REAR VIEW

# HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

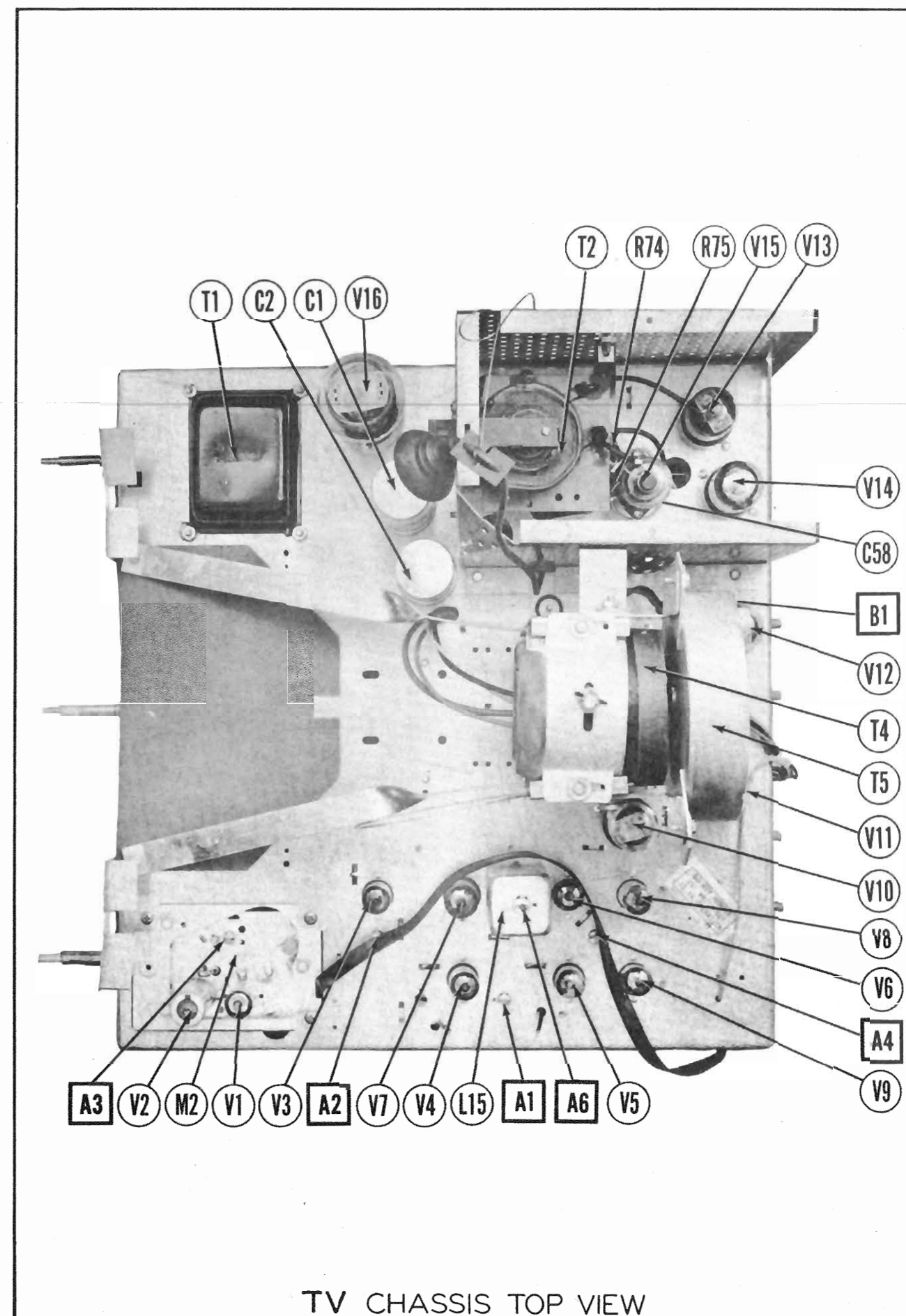
Turn the set on and tune in a TV station preferably a test pattern.

Turn the horizontal hold control to the mid-position of its range and adjust the horizontal frequency slug (B1) until picture synchronizes horizontally.

Adjust the horizontal drive trimmer (B2) for best compromise between brightness and horizontal linearity.

On the 12 1/2 inch models, the picture may be varied by positioning of the aluminum sleeve (B3) placed over the neck of the tube. Moving the sleeve farther into the deflection yoke will reduce the width of the picture.

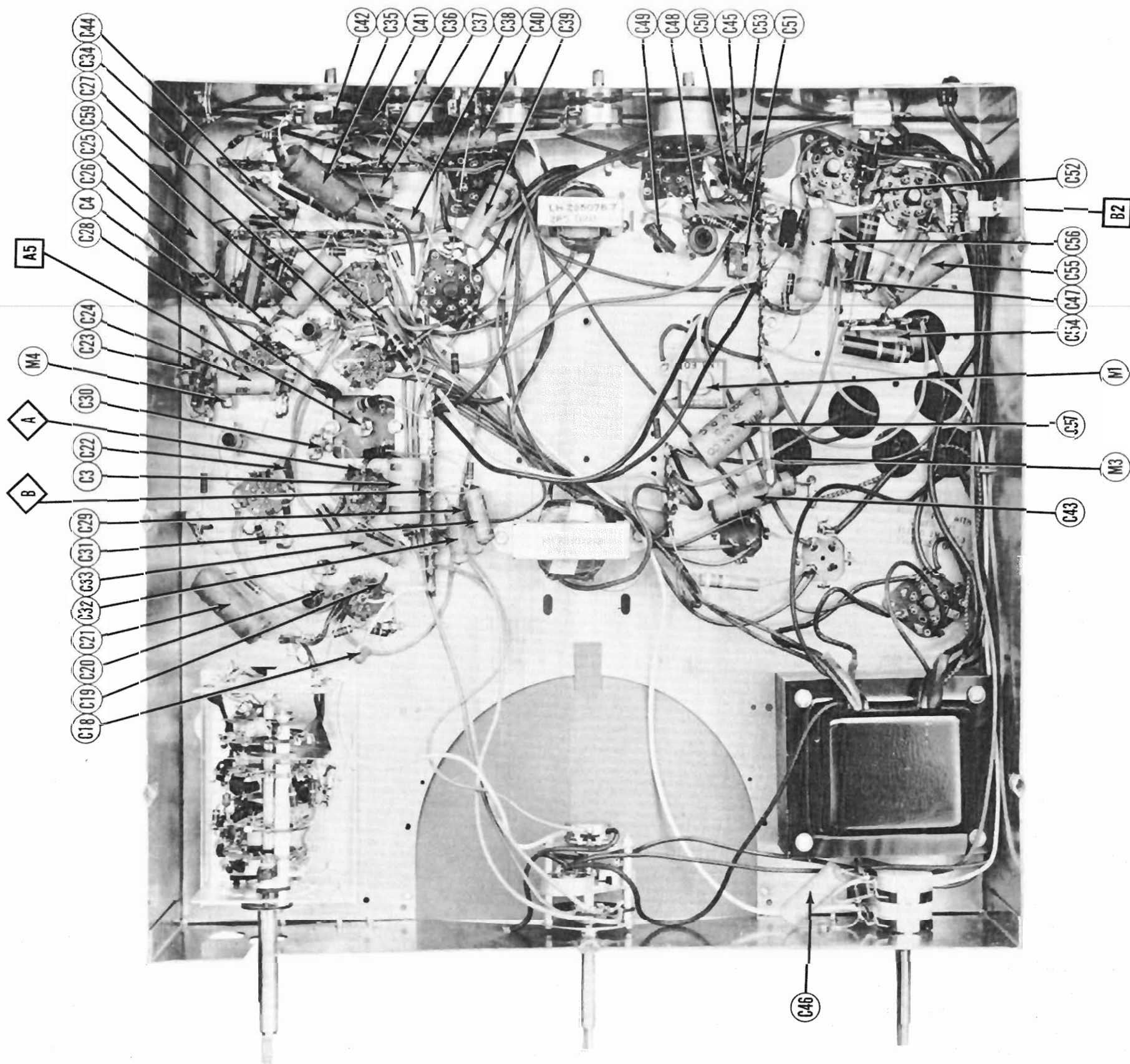
**CAUTION:** Always short the sleeve to chassis before attempting to adjust it, a high potential may develop on the sleeve due to capacity between the high voltage anode of the picture tube and the sleeve.



TV CHASSIS TOP VIEW

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CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION

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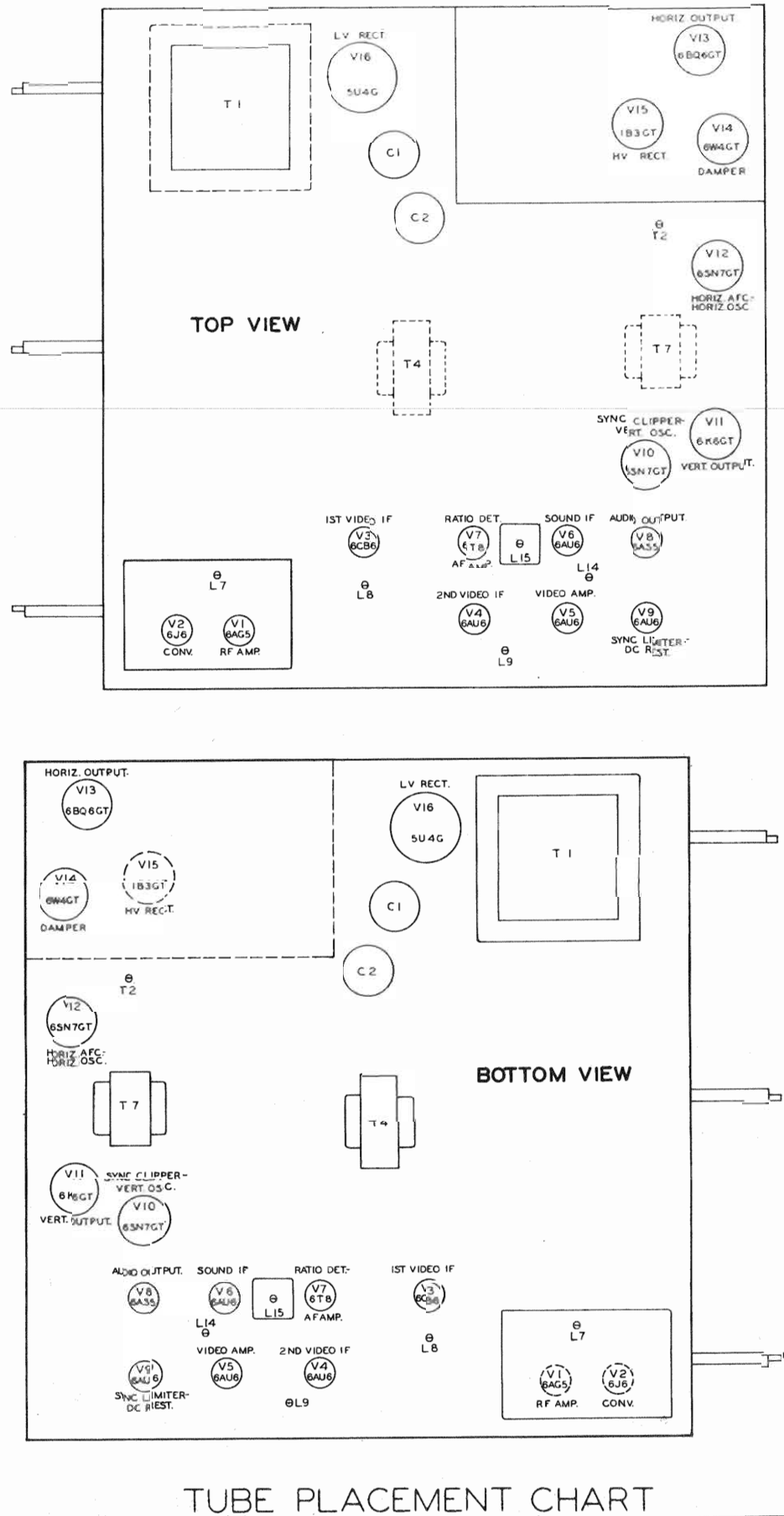
VOLTAGE AND RESISTANCE MEASUREMENTS

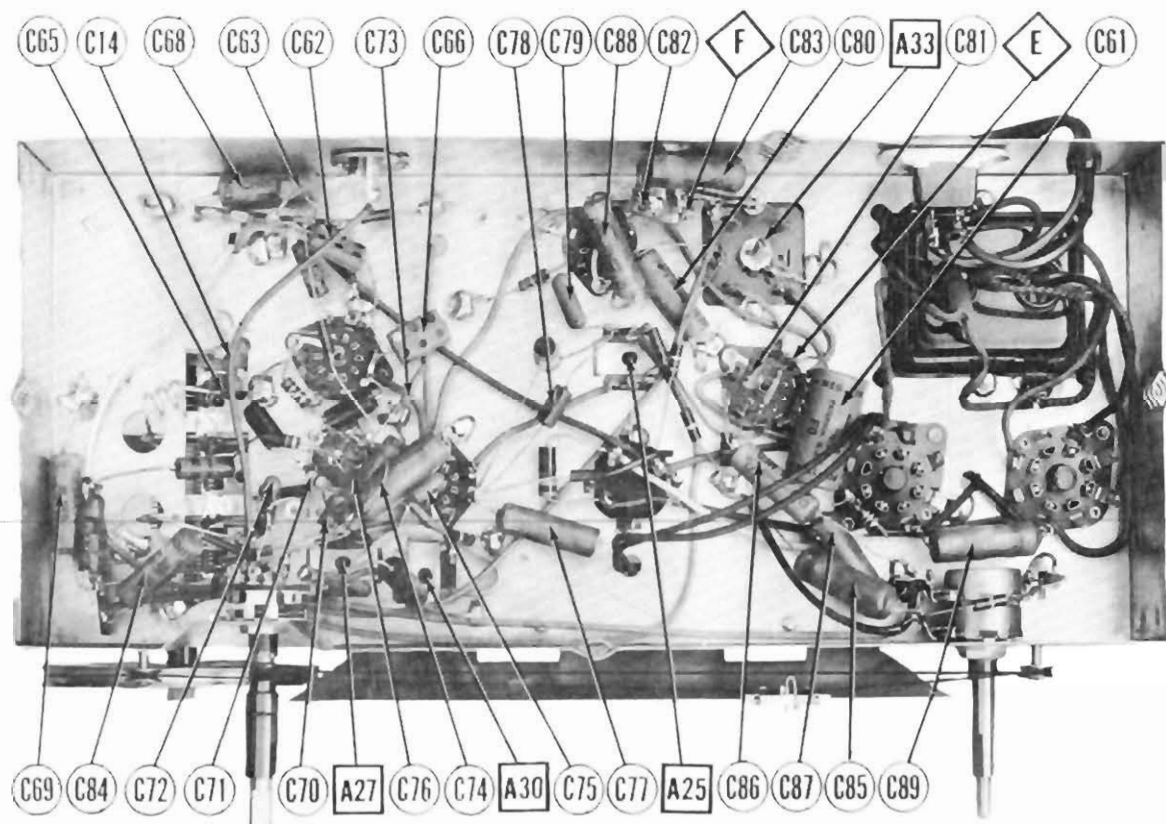
VOLTAGE READINGS											RESISTANCE READINGS										
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	-2VDC	0V.	6.3VAC	0V.	130VDC	130VDC	0V.			V 1	6AG5	1.5 Meg.	0Q	.1Q	0Q	#2.5KQ	#2.5KQ	0Q		
V 2	6J6	125VDC	100VDC	0V.	6.3VAC	-1.4VDC	5-7VDC	0V.			V 2	6J6	#5KQ	#15KQ	0Q	.3Q	220KQ	22KQ	0Q		
V 3	6CB6	-2VDC	8VDC	0V.	6.3VAC	180VDC	160VDC	0V.			V 3	6CB6	1.5 Meg.	5Q	0Q	.1Q	#100Q	#100Q	0Q		
V 4	6AU6	0V.	0V.	6.3VAC	0V.	165VDC	165VDC	9VDC			V 4	6AU6	.3Q	0Q	.1Q	0Q	#.3Q	#0Q	8Q		
V 5	6AU6	.6VDC	0V.	0V.	6.3VAC	275VDC	165VDC	30VDC			V 5	6AU6	1.2 Meg.	0Q	0Q	.1Q	17KQ	#0Q	2KQ		
V 6	6AU6	#4VDC	#5.6VDC	#0V.	#6.3VAC	#110VDC	#110VDC	#5.6VDC			V 6	6AU6	447KQ	#650Q	#0Q	#.1Q	15KQ	15KQ	#680Q		
V 7	6T8	-4VDC	-6VDC	-4VDC	6.3VAC	0V.	0V.	0V.	-6VDC	150VDC	V 7	6T8	Inf.	12KQ	Inf.	.1Q	0Q	Inf.	10Q	10 Meg.	182KQ
V 8	6AS5	#0V	#-10VDC	#6.3VAC	#0V.	#-10VDC	#130VDC	#165VDC			V 8	6AS5	#0Q	182KQ	#.1Q	#0Q	182KQ	18KQ	138Q		
V 9	6AU6	2VDC	38VDC	6.3VAC	0V.	85VDC	165VDC	38VDC			V 9	6AU6	2.2 Meg.	44KQ	.1Q	0Q	#40KQ	#0Q	44KQ		
V 10	6SN7GT	85VDC	300VDC	100VDC	.35VDC	225VDC	80VDC	0V.	6.3VAC		V 10	6SN7GT	50KQ	13KQ	22KQ	1 Meg.	#680KQ	0Q	0Q	.1Q	
V 11	6K6GT	0V.	6.3VAC	480VDC	160VDC	-3.6VDC	0V.	0V.	0V.		V 11	6K6GT	Inf.	.1Q	#2.9KQ	2.6 Meg.	#3.7 Meg.	0Q	0Q	0Q	
V 12	6SN7GT	-3.5VDC	90VDC	-16VDC	.65VDC	185VDC	0V.	0V.	6.3VAC	TOP CAP	V 12	6SN7GT	750KQ	#330KQ	280KQ	280KQ	#130KQ	0Q	0Q	.1Q	TOP CAP
V 13	6BQ6GT	20VDC	0V.	185VDC	180VDC	-5.8VDC	0V.	6.3VAC	20VDC		V 13	6BQ6GT	235Q	0Q	#130KQ	110KQ	500KQ	Inf.	.1Q	235Q	TOP CAP
V 14	6W4GT	0V.	500VDC	500VDC	0V.	320VDC	0V.	6.3VAC	0V.		V 14	6W4GT	Inf.	#.0Q	60KQ	Inf.	1250Q	Inf.	.1Q	0Q	TOP CAP
V 15	1B3GT		* DO NOT MEASURE									V 15	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	#415Q
V 16	5U4G	0V.	340VAC	0V.	320VAC	0V.	320VAC	0V.	340VDC		V 16	5U4G	Inf.	45KQ	Inf.	40Q	Inf.	40Q	Inf.	45KQ	
V 17	16KP4	0V.	9VDC	320VDC	0V.	6.3VAC	165VDC				V 17	16KP4	0Q	375KQ	1250Q	100KQ					

FUNCTION SWITCH IN "TV" POSITION.  
§ FOCUS CONTROL SET FULLY COUNTERCLOCKWISE.  
§ TAKEN WITH VACUUM TUBE VOLTMETER.  
# MEASURED FROM PIN 1 OF V8.  
\* DO NOT MEASURE.

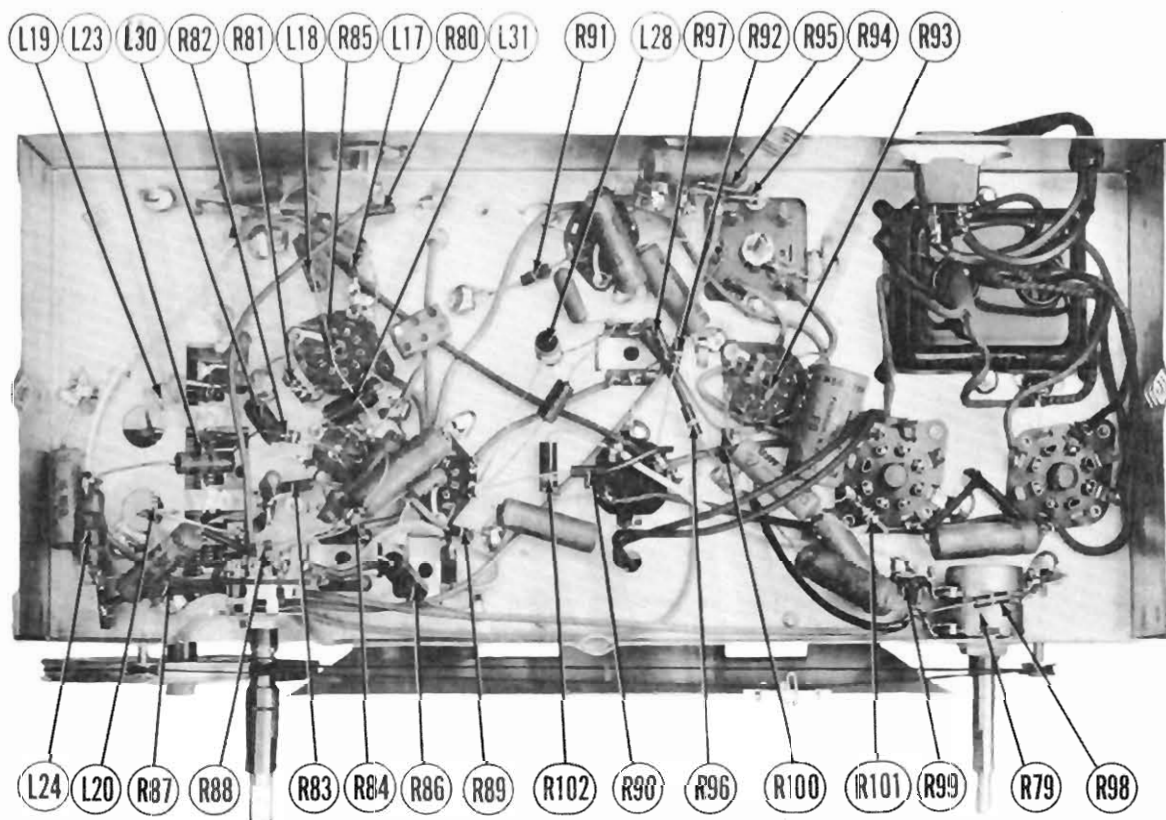
1. DC Voltage measurements are of 20,000 ohms per volt. AC Voltage measured at 1,000 ohms.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line voltage maintained at 117 volts for voltage readings.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

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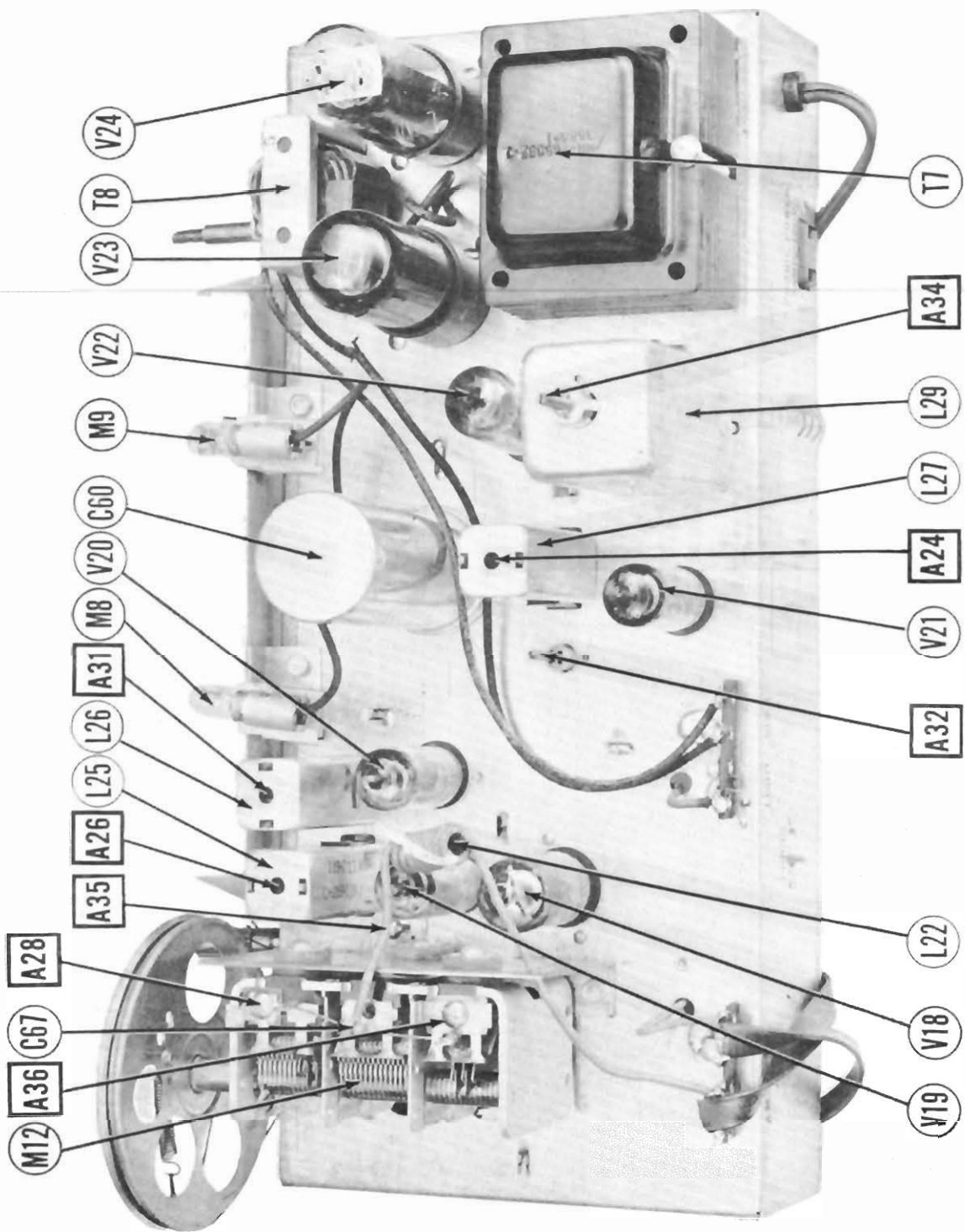




RADIO CHASSIS-BOTTOM VIEW-CAPACITOR IDENTIFICATION



RADIO CHASSIS-BOTTOM VIEW-RESISTOR IDENTIFICATION

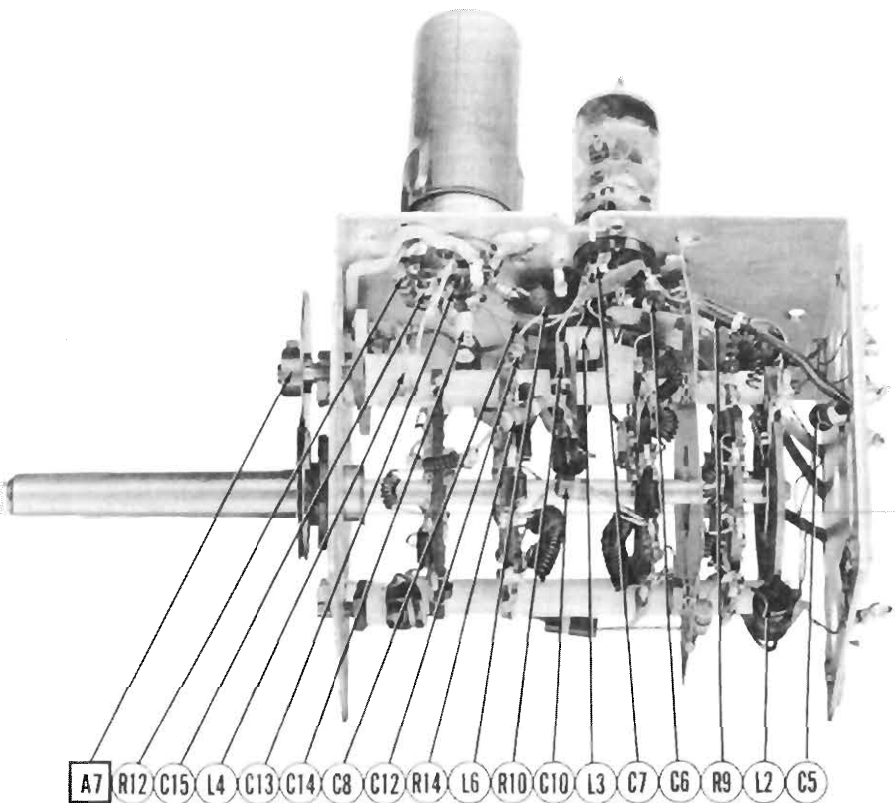
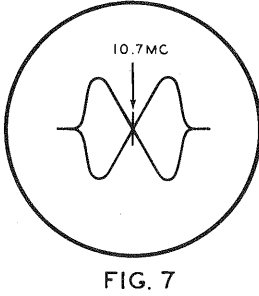
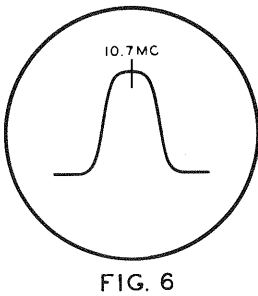


RADIO CHASSIS-TOP VIEW  
BENDIX MODELS 2051, 2060, 3051,  
6001, 6003, 6090, 6100, 6920, 6990

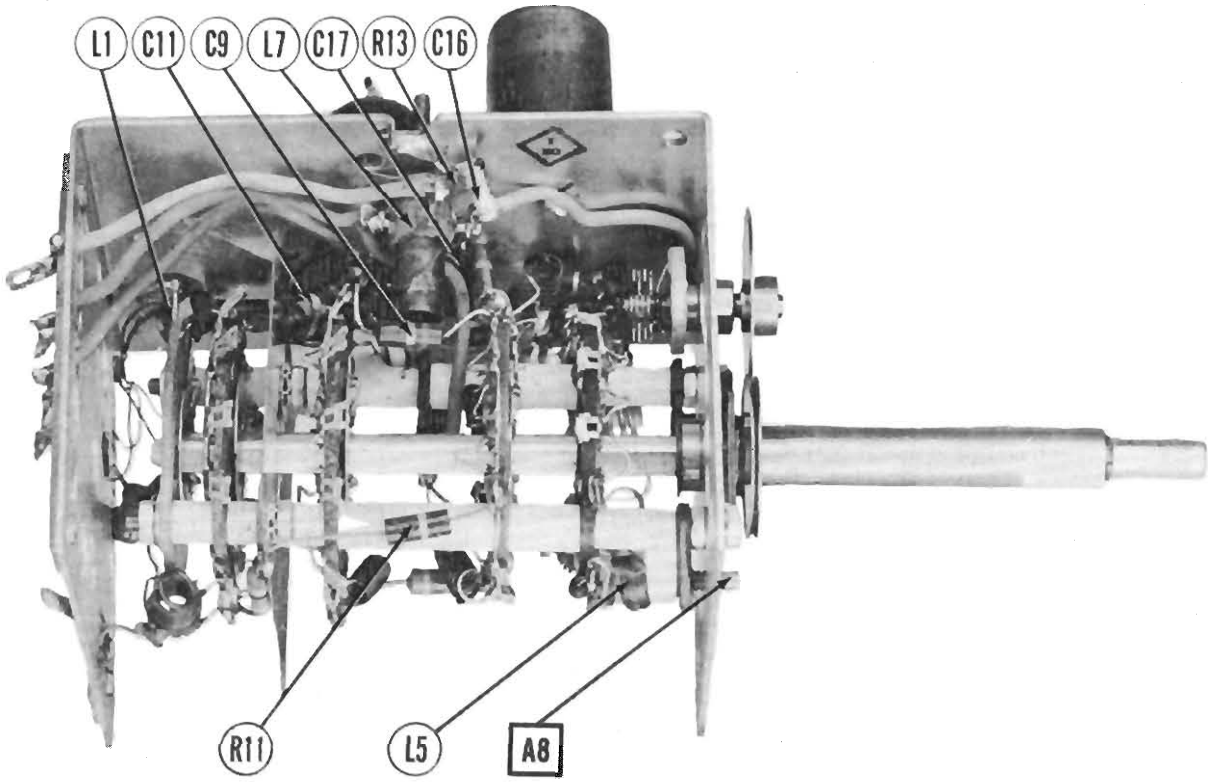


RADIO ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT							
To set pointer, turn tuning gang fully closed and set pointer to last reference mark at the low frequency end of dial backing plate. Turn Radio-Off-TV switch to Radio position (fully counter-clockwise).							
AM ALIGNMENT							
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
14. .01MFD	High side to pin 7 (Grid) of 6BE6 (V19). Low side to chassis.	455KC (400 % Mod.)	AM (1st position CW)	Tuning gang fully open	Across voice coil	A24, A25, A26, A27	Adjust for maximum output.
15.	Loop	1475KC	"	Set pointer to 1st reference mark at high frequency end of dial backing plate.	"	A28, A29	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM							
Connect two matched 100KΩ (± 1%) resistors in series from Point F to chassis. The junction of these two resistors is alignment Point G as shown on the schematic.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
16. .01MFD	High side to pin 7 (Grid) of 12AT7 (V18). Low side to chassis.	10.7MC (Unmod.)	FM (fully CW)	Tuning gang fully open	DC Probe to Point (E). Common to chassis.	A30, A31, A32, A33	Adjust for maximum deflection.
17. .01MFD	"	"	"	"	DC Probe to Point (F). Common to Point (G).	A34	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
FM 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	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
16. .01MFD	High side to pin 7 (Grid) of 12AT7 (V18). Low side to chassis.	10.7MC (450KC Sweep)	FM (fully CW)	Tuning gang fully open	Vert. Amp. to Point (E). Low side to chassis.	A30, A31, A32, A33	Disconnect stabilizer capacitor C61. Adjust for maximum amplitude and symmetry as per figure 6.
17. .01MFD	"	"	"	"	Vert. Amp. to Point (F). Low side to chassis.	A34	Reconnect capacitor C61. Adjust A34 to place 10.7MC at center of crossover lines as per figure 7. SLIGHTLY retouch A33 for maximum amplitude and straightness of crossover lines.
FM RF ALIGNMENT							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
18. 300Ω carbon res.	High side thru 300Ω to FM antenna terminal. Low side to chassis.	106MC (Unmod.)	FM (fully CW)	Turn tuning gang until pointer is at 2nd reference mark from high frequency end of dial backing plate.	DC Probe to Point (E). Common to chassis.	A35, A36	Adjust for maximum deflection.



TV RF TUNER—RIGHT SIDE



TV RF TUNER—LEFT SIDE

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TV ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To eliminate the high voltage shock hazard remove the horizontal output tube (V13) from its socket.

VIDEO IF ALIGNMENT

Remove the converter tube (V2) from its socket and replace with a 6J6 with pin 1 removed to prevent erroneous indications. Connect the negative terminal of 1.5 volt battery to the junction of R23 and C21 and the positive terminal to chassis. Turn the RADIO-OFF-TV switch to TV position (fully clockwise).

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.	24.4MC (Unmod.)	Any	DC Probe to "Video Test Point". Common to chassis.	A1	Adjust for maximum deflection. Attenuate signal generator to maintain a -1.5 volts reading.
2. Direct	"	23.5MC	"	"	A2	"
3. Direct	"	25MC	"	"	A3	"

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
4. Direct	High side to ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	24MC (10MC SWP)	21.75MC 23MC 25.75MC	Any	Vert. Amp. thru 47KΩ to "Video test point". Low side to chassis.		Check for response curve similar to figure 1. The 23MC and 25.75MC markers should be at 50% response. If necessary, slightly retouch A1 thru A3 for proper response.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

Connect two matched 100KΩ (±1%) resistors in series from Point B to chassis. The junction of these two resistors is alignment Point C as shown on the schematic.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
5. .05MFD	High side to pin 1 (Grid) of 6AU6 (V5). Low side to chassis.	4.5MC (Unmod.)	Any	DC Probe to Point A. Common to chassis.	A4, A5	Adjust for maximum deflection.
6. .05MFD	"	"	"	DC Probe to Point B. Common to chassis.	A6	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 120V sawtooth voltage in scope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
5. .05MFD	High side to pin 1 (Grid) of 6AU6 (V5). Low side to chassis.	4.5MC (450KC Sweep)	4.5MC	Any	Vert. Amp. to Point A. Low side to chassis.	A4, A5	Disconnect stabilizer capacitor C3. Adjust for maximum amplitude and symmetry as per figure 2.
6. .05MFD	"	"	"	"	Vert. Amp. to Point B. Low side to chassis.	A6	Reconnect capacitor C3. Adjust A6 to place 4.5MC at center of crossover lines as per figure 3. SLIGHTLY retouch A5 for maximum amplitude and straightness of crossover lines.

OSCILLATOR ALIGNMENT (AR0T05 TUNER)

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

Connect a 3 volt battery as in Video IF Alignment.

The RF and Mixer portion of this tuner is pre-set at the factory, and is very stable and should not normally require adjustment in the field.

Set the fine tuning control to the mid-position of its range. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	213MC (10MC SWP)	211.25MC 215.75MC	13	Vert. Amp. to "Video Test Point". Low side to chassis.	A7	Adjust to place sound marker as shown in figure 4. The video marker should be at 50% response.
8. "	"	207MC (10MC SWP)	205.25MC	12	"		Check all high band channels to see that the sound marker can be placed well within the range of the fine tuning control. If not, a compromise adjustment of A7 will be necessary.
		201MC (10MC SWP)	209.75MC	11			
		195MC (10MC SWP)	199.25MC	10			
		189MC (10MC SWP)	203.75MC	9			
		183MC (10MC SWP)	197.75MC	8			
		177MC (10MC SWP)	193.25MC	7			
			187.25MC				
9. "	"	85MC (10MC SWP)	83.25MC 87.75MC	6	"	A8	Adjust to place sound marker as shown in figure 4. The video marker should be at 50% response.
10. "	"	79MC (10MC SWP)	77.25MC	5	"		Check all low band channels to see that the sound marker can be placed well within the tuning range of the fine tuning control. If not, a compromise adjustment of A8 will be necessary.
		69MC (10MC SWP)	81.75MC	4			
		63MC (10MC SWP)	87.25MC	3			
		57MC (10MC SWP)	71.75MC	2			
			61.25MC				

TV ALIGNMENT INSTRUCTIONS (CONT.)

RF ALIGNMENT (AR0T03 TUNER)

Remove the 1st IF tube (V3) from its socket.

Connect a 1.5 volt battery as in Video IF Alignment.

The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
11.	Two 120Ω carbon res.	Across the antenna terminals with 120Ω in each lead.	207MC (10MC SWP)	205.25MC 209.75MC	12	Vert. Amp. thru 10KΩ to Point D. Low side to chassis.	A9, A10, A11	Adjust for response curve similar to figure 5 with markers as shown.
12.	"	"	213MC (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)	211.25MC 215.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 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 for response curve similar to figure 5. If optimum response is desired on any particular channel, make a slight adjustment of A9, A10, and A-11 with channel selector set for that channel. Recheck all channels to see that they have not been seriously effected.

OSCILLATOR ALIGNMENT (AR0T03 TUNER)

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

Connect a 3 volt battery as in Video IF Alignment.

Replace the 1st IF tube (V3) in its socket.

Set the fine tuning control to the mid-position of its range.

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
13.	Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	213MC (10MC SWP) 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)	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.75MC 175.25MC 179.75MC 83.25MC 87.75MC 77.25MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	13 12 11 10 9 8 7 6 5 4 3 2	Vert. Amp. to "Video Test Point." Low side to chassis.	A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23	Adjust to place video marker at 50% response as shown in figure 4.

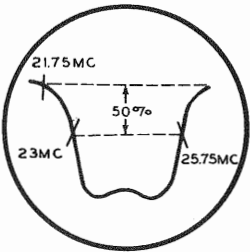


FIG. 1

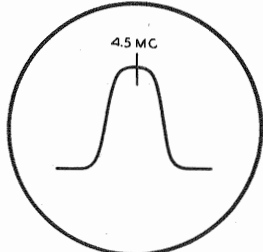


FIG. 2

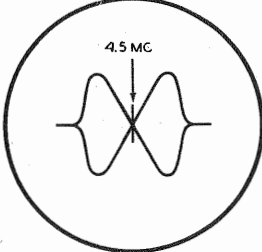


FIG. 3

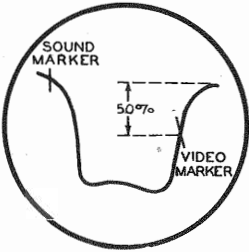


FIG. 4

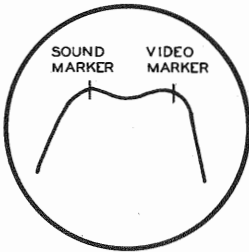
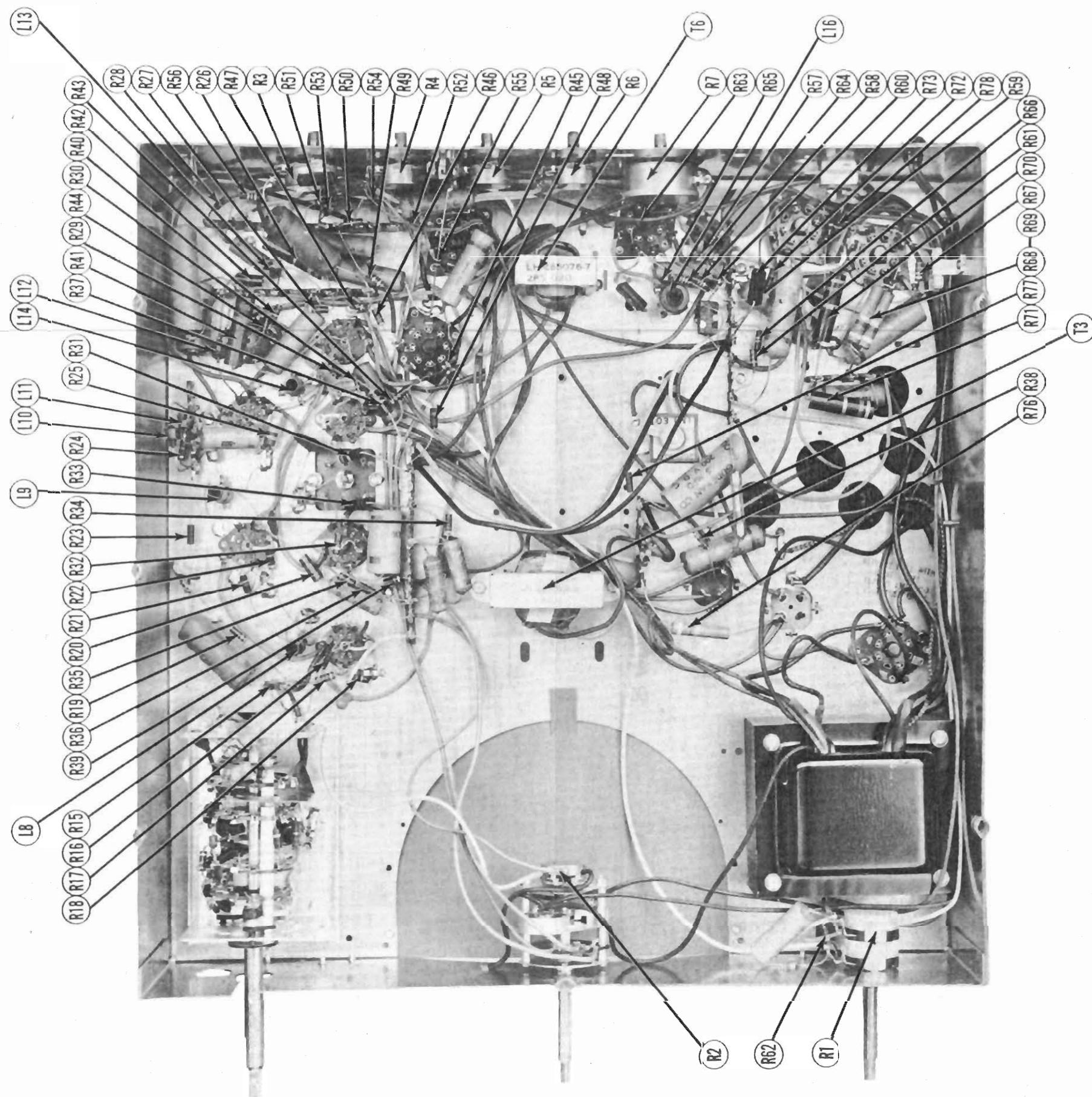
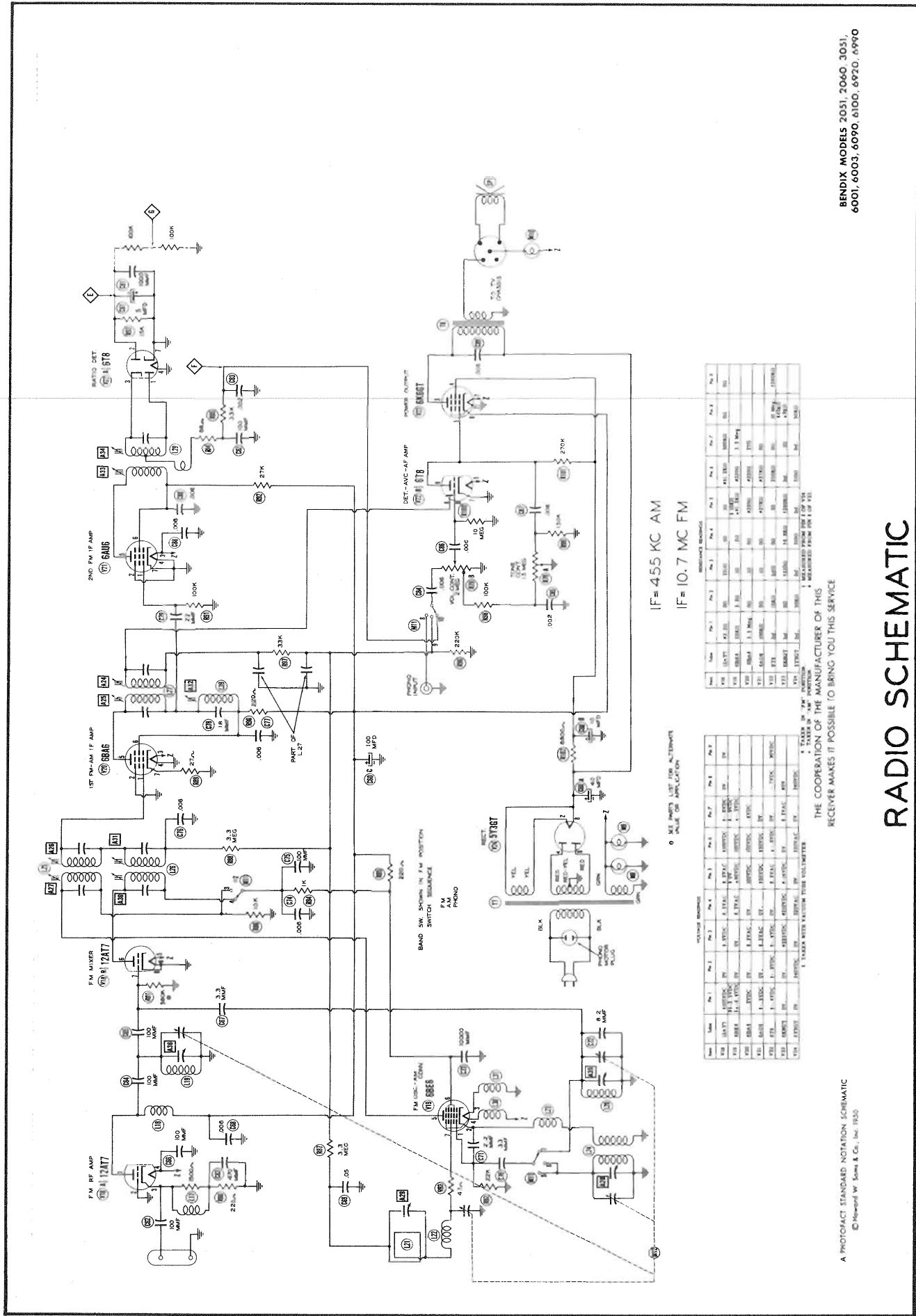


FIG. 5

BENDIX MODELS 2051, 2060, 3051, 6001, 6003, 6090, 6100, 6920, 6990



**BENDIX MODELS 2051, 2060, 3051, 6001, 6003, 6090, 6100, 6920, 6990**



RADIO PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	BENDIX PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T7	117VAC ② .47A	600VCT .050ADC	5VAC ② 2A	6.3VAC ② 3A	TPOH03	P-6119 ⑤	P-2951 ⑤	

⑤ Drill new mounting holes.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE	DC RES.	PRI.	SEC.	BENDIX PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
T8	7500Ω	3.5Ω	530Ω	.5Ω	TA0025	A-3877	A-3930	RO-13	

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
		PRI.	SEC.	BENDIX PART No.	MEISSNER PART No.	IRC PART No.	
L17	FM Ant. Loading Coil	.1Ω		LAOF02		CLA-3.3	Wound on 1.5KΩ resistance. 3.3 microhenries
L18	RF Choke	3.2Ω		LFOA12			
L19	FM RF Coil	0Ω		L10F02			
L20	FM Osc. Coil	0Ω		L07F01			
L21	Loop Ant.	1.2Ω					
L22	AM Ant. Loading Coil	0Ω		LFOA11			2 microhenries
L23	RF Choke	2.7Ω		LFOA13			
L24	AM Osc. Coil	.5Ω	6.4Ω	T00B00	14-1073		
L25	1st AM IF	16Ω	16Ω	T10C14	16-6758		
L26	1st FM IF	.6Ω	.6Ω	T10C15	16-3487		
L27	2nd AM IF	8.5Ω	8.5Ω	T10D27	16-6758		
L28	2nd FM IF	.2Ω		L10F03	16-3487		
L29	Ratio Det.						
L30	Trans.	1.4Ω	.1Ω	TROR00	17-3487		
L31	Fl. Choke	.1Ω		LFOA00			
L31	Fl. Choke	.1Ω		LFOA00			

PHONO CARTRIDGE and NEEDLE

ITEM No.	REPLACEMENT DATA				REMARKS	
	BENDIX PART No.	ASTATIC PART No.		SHURE PART No.		
		CARTRIDGE	NEEDLE	CARTRIDGE		NEEDLE
M7		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
					BENDIX PART No.		
M8	Bayonet	6-8	.15	Blue	#44		Type #44
M9	Bayonet	6-8	.15	Blue	#44		Type #44
M10	Bayonet	6-8	.15	Blue	#44		Type #44 (Jewel light)

MISCELLANEOUS

ITEM No.	PART NAME	BENDIX PART No.	NOTES
M11	Switch	SR3D00	
M12	Tuning Cap.	CV0F00	Function Phono-AM-FM (15-494MMF, 22-220MMF)

BENDIX MODELS 2051, 2060, 3051,  
6001, 6003, 6090, 6100, 6920, 6990



## RADIO PARTS LIST AND DESCRIPTIONS

**TUBES (SYLVANIA or Equivalent)**

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		BENDIX PART No.	STANDARD REPLACEMENT		
V18	FM RF Amp. -FM Mixer	12AT7	12AT7	9A	
V19	FM Osc. -AM Conv.	6BE6	6BE6	7CH	
V20	1st FM-AM IF Amp.	6BA6	6BA6	7BK	
V21	2nd FM IF Amp.	6AU6	6AU6	7BK	
V22	Ratio Det. -DET. - AVC-AF Amp.	6T8	6T8	9E	
V23	Power Output	6K6GT	6K6GT	7S	
V24	Rectifier	5Y3GT	5Y3GT	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						IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	BENDIX PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNIELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C60A B C	40 100 100	450 450 200	CE3A06	AFH82J16E		UPT4145-820		TVL-3762	<ul style="list-style-type: none"> <li>■ Filter</li> <li>■ Filter</li> <li>▲ Decoupling</li> </ul>
C61	5	50	CE1T06	PRSI50/4		BR550		TVA-1303	Stabilizing Cap.
C62	100	500	CM22A101M	1468-0001	D6-101	5WS71	GP1K-100	1FM-31	Ant. Coupling
C63	470		CC9M42	SI470	D6-471	5WS75	GP2K-470	19C15	FM RF Cath.
C64	100		CC9A34	SI100	D6-101	5WS71	GP1K-100	19C11	RF Coupling
C65	100		CC9A34	SI100	D6-101	5WS71	GP1K-100	19C11	RF Coupling
C66	100	500	CM22A101M	1468-0001	D6-101	5WS71	GP1K-100	1FM-31	FM RF Fil.
C67	3.3		CC9A16	SI3.3NPO	TCZ-3.3		NPOK-3.3		Osc. Coupling
C68	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-01	6TM-26	Decoupling
C69	.05	200	CP2T40	P288-05	DF-503	PTE4S5		2TM-15	AVC Filter
C70	33		CC8B28	SI33	D6-330	5WSQ4	GP1K-33	19C24	Osc. Grid Cap.
C71	2.2		CC9A14		TCZ-2.2				Osc. Feedback
C72	8.2		CC7S21				N470K-8.2		Fixed Trimmer
C73	10000		CC9R80	BPD-01	DD-103	PTE4S1	811-01	36C2	Osc. Anode Bypass
C74	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-01	6TM-26	Conv. Plate Dec.
C75	100		CC9A34	SI100	D6-101	5WS71	GP1K-100	19C11	Conv. Plate Dec.
C76	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-01	6TM-26	AVC Filter
C77	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-01	6TM-26	1st IF Decoupling
C78	18	500	CM6S16		TCZ-18		NPOK-18		Fixed Trimmer
C79	22	500	CM22A120M	SI22	D6-220	5WSQ25	GP1K-22	19C23	IF Coupling
C80	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-01	6TM-26	2nd IF Decoupling
C81	1000		CC9M50	SI1000	D6-102	1WSD1	GP2L-001	19C1	RF Bypass
C82	100	500	CM22A101M	1468-0001	D6-101	5WS71	GP1K-100	1FM-31	Diode Load Cap.
C83	.002	600	CP6T12	P688-002	D6-202	PTE6D2	GP2M-002	6TM-22	De-emphasis
C84	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-005	6TM-26	Audio Coupling
C85	.002	600	CP6T12	P688-002	D6-202	PTE6D2	GP2M-002	6TM-22	Tone Compensation
C86	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-005	6TM-26	Audio Coupling
C87	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-005	6TM-26	Tone Compensation
C88	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-005	6TM-26	Filament Bypass
C89	.006	600	CP6T20	P688-006	D6-562	PTE6D6	811-005	6TM-26	Output Plate

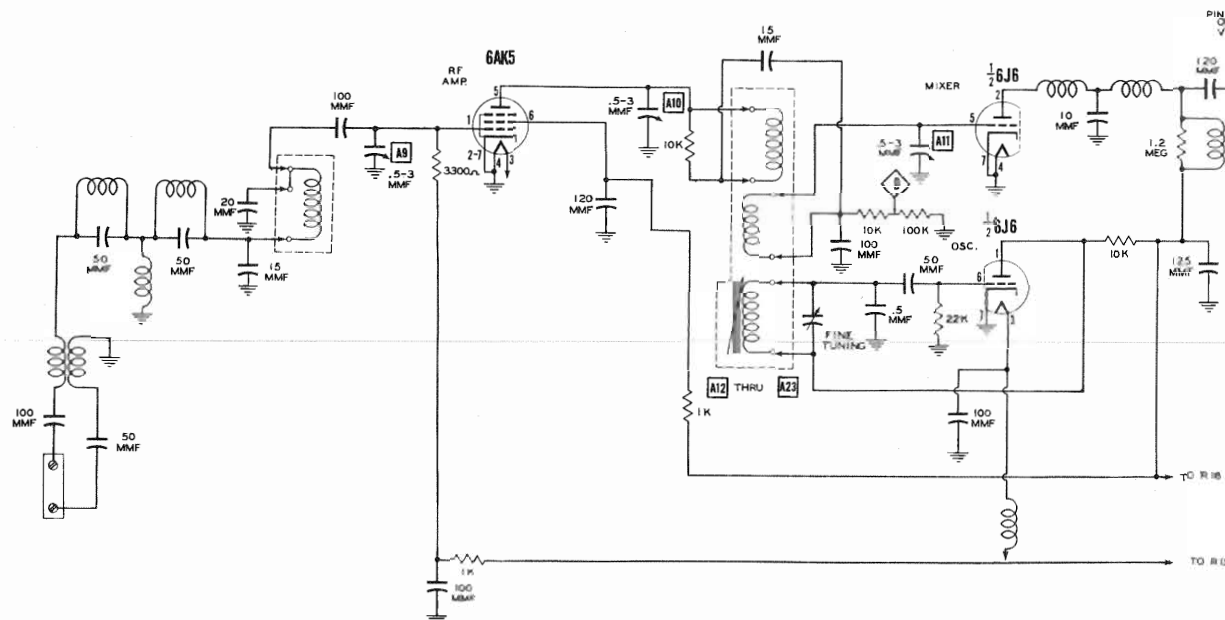
## CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESISTANCE	WATTS	BENDIX PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R79A B	15 Meg. 2 Meg.	1	RV4D01			SBBT-534	Tone control-front (4 Meg. control min.) Volume control-rear-tapped at 1 Meg.

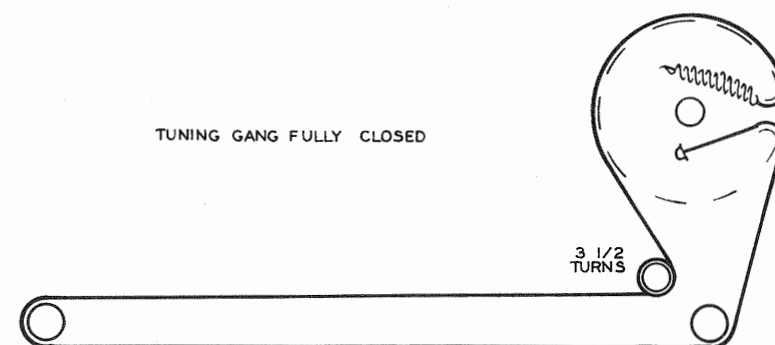
## RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	BENDIX PART No.	IRC PART No.	
R80	220Ω	2	RC22A221M	BTS-220	FM RF Amp. Cathode
R81	560KΩ		RC22A564M	BTS-560	FM Mixer Grid-See Note 6
R82	22KΩ		RC22A223M	BTS-22K	Osc. Grid
R83	47Ω		RC22A470M		Parasitic Suppressor
R84	1000Ω		RC22A102M	BTS-1000	Plate Decoupling
R85	22Ω		RC22A221M	BTS-220	Decoupling
R86	10KΩ		RC25A103M	BTB-10K	Voltage Divider
R87	3.3 Meg.		RC22A335M	BTS-3.3 Meg.	AVC Network
R88	3.3 Meg.		RC22A335M	BTS-3.3Meg.	AVC Network
R89	27Ω		RC22A270K		FM-AM IF Amp. Cathode
R90	220Ω	RC22A221M	BTS-220	FM-AM IF Amp. Decoupling	
R91	100KΩ	RC22A104M	BTS-100K	Limiter Grid	
R92	27KΩ	RC22A273K	BTS-27K	Limiter Decoupling	
R93	15KΩ	RC22A153M	BTS-15K	Ratio Det. Diode Load	
R94	68Ω	RC22A680M	BW-1-68	Balancing	
R95	33KΩ	RC22A333M	BTS-33K	De-emphasis	
R96	220KΩ	RC22A224M	BTS-220K	Det. Diode Load	
R97	33KΩ	RC22A333M	BTS-33K	Diode Filter	
R98	100KΩ	RC22A104M	BTS-100K	Tone Compensation	
R99	150KΩ	RC22A154M	BTS-150K	Tone Compensation	
R100	10 Meg.	RC22A106M	BTS-10 Meg.	AF Amp. Grid	
R101	270KΩ	RC22A274K	BTS-270K	AF Amp. Plate	
R102	8800Ω	RC24A682M	BTA-6800	Filter	

Note 6. Some models use a 470K $\Omega$  resistor in this application.



ALTERNATE TUNER <sup>#</sup>AROT03



## RADIO DIAL CORD STRINGING

**BENDIX MODELS 2051, 2060, 3051,  
6001, 6003, 6090, 6100, 6920, 6990**

# TV PARTS LIST AND DESCRIPTIONS

## CONTROLS

### TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		BENDIX PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
V1A	RF Amp.	6AG5	6AG5	7BD	
B	RF Amp.	6CB6	6CB6	6CK	
V2	Converter	6J6	6J6	7BF	
V3	1st Video IF	6CB6	6CB6	6CK	
V4	2nd Video IF	6AU6	6AU6	7BK	
V5	Video Amp.	6AU6	6AU6	7BK	
V6	Sound IF Amp.	6AU6	6AU6	7BK	
V7	Ratio Det.-AF Amp.	6T8	6T8	9E	
V8	Audio Output	6AS5	6AS5	7CV	
V9	Sync. Limiter	6AU6	6AU6	7BK	
V10	DC Rest.	6AU6	6AU6	7BK	
V11	Vert. Output	6SN7GT	6SN7GT	8BD	
V12	Hor. AFC-Hor. Osc.	6K6GT	6K6GT	7S	
V13	Hor. Output	6SN7GT	6SN7GT	8BD	
V14	Damper	6BQ6GT	6BQ6GT	6AM	
V15	HV Rect.	6W4GT	6W4GT	4CG	
V16	LV Rect.	1B3GT	1B3GT	3C	
V17A	Picture Tube	5U4G	5U4G	5T	
B	Picture Tube	16KP4	16KP4	12D	
C	Picture Tube	16RP4	16RP4	12D	
D	Picture Tube	14CP4	14CP4	12D	
		14EP4	14EP4	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
		BENDIX PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	
C1A	80	CE3A07	AF1682J		UPT84245		TVL-3743
B	40						
C	10						
C2A	40	CE3A03	AFH8216E		UPT4145-820		TVL-3762
B	10						
C	100						
C3	10	CE1T10	PR850/10		BR105		TVA-1304
C4	2		PR850/4		BR105		TVA-1301
C5	500		SI500	D6-501			19C32
C6	15		SI15	D6-150			19C22
C7	1000		BPD-001	D6-102			19C1
C8	25			TCZ-.5			
C9	.5						
C10	1.8						
C11	470		SI470	D6-471			19C15
C12	470		SI470	D6-471			19C15
C13	1.5		SI1.5NPO	TCZ-1.5			
C14	10		SI10NPO	TCZ-10			
C15	3						
C16	10		SI10NPO	TCZ-10			
C17A	1000		BPD-2 x 001	DD-2-102			29C7
B	1000						
C18	100		SI100	D6-101			19C11
C19A	1500		BPD-2 x 0015	DD-2-152			29C6
B	1500						
C20	66	CC6A32	SI66	D6-680			19C10
C21	.2	CP2T56	P488-22	GT4P2			2TM-2
C22A	1500	CC2T00	BPD-2 x 0015	DD-2-152			29C6
B	1500						
C23	.5	CC6B00	SI5	DD-2-502			36C2
C24	.05	CP2T40	P288-35	2TM-15			1FM-21
C25	.2	CP4T56	P488-22	4TM-2			6TM-22
C26	1.5	CC6A12	SI1.5NPO	TCZ-1.5			6TM-26
C27	22	CC6A26	SI22	D6-220			6TM-26
C28	4000	CC2T01	BPD-2 x 004	DD-2-502			36C2
B	4000						
C29	1000	CP0M10	1468-001	D6-102			1FM-21
C30	1000	CC9M50	SI1000	D6-102			1FM-21
C31	.002	CP6T12	P688-002	D6-202			6TM-22
C32	.002	CP6T12	P688-002	D6-202			6TM-22
C33	.006	CP6T20	P688-006	D6-562			6TM-26
C34	.006	CP6T20	P688-006	D6-562			6TM-26
C35	.2	CP2T56	P488-22	GT4P2			2TM-2
C36A	4000	CC2T01	BPD-2 x 004	DD-2-502			36C2
B	4000						
C37	.05	CP2T40	P288-35	2TM-15			1FM-21
C38	.05	CP4T40	P488-05	DF-503			4TM-15
C39	.05	CP4T40	P488-05	DF-503			4TM-15
C40	.03	CP6T36	P688-03	PTE6S3			6TM-13
C41	2700	CM2A472K	SI2700	D6-272			1FM-21
C42	1000	CP3S10	1468-001	D6-102			1FM-21
C43	.2	CP2T56	P488-22	GT4P2			2TM-2
C44	.003	CP6T14	P688-003	D6-302			6TM-22
C45	47	CC6A32	1468-00605	D6-470			1FM-45
C46	.05	CP4T40	P488-05	DF-503			4TM-15
C47	.2	CP2T56	P488-22	GT4P2			2TM-2
C48	.02	CP2T34	P688-02	D6-203			6TM-12
C49	220	CM32C221K	1468-00025	D6-221			1FM-325
C50	27	CC6B27	SI27	D6-270			19C27
C51	1200	CM3A122K	SI1200	D6-122			6TM-22
C52	470	CM2A471K	1468-0005	D6-471			1FM-35
C53	100	CM2C101J	1468-0001	D6-101			1FM-31
C54	.05	CP4T40	P488-05	DF-503			4TM-15
C55	.2	CP2T56	P488-22	GT4P2			2TM-2
C56	.2	CP2T56	P488-22	GT4P2			2TM-2
C57	.5	CP2T65	P288-5	GT2P5			2TM-5
C58	.00047	PI0088-0005	PI0088-0005	DF-503			4TM-15
C59	.05	CP4T40	P488-05	DF-503			4TM-15

\* Some models use .2MFD in this application. Mfr's Part No. CP2T56.

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESIST-ANCE	WATTS	BENDIX PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	2000Ω	1/2	RVOD02		RTV-156	SBB-618	Contrast control, front
B	100KΩ	1/2					Horiz. hold control-rear
R2A	Switch	1/2	RVOS04				TV-Off-Radio switch-front
B	500KΩ	1/2					Volume control-rear
R2A	500KΩ	1/2	RVOS03	Q13-133	AG-60-Z	B-60-S	Volume control
B	Shaft	1/2	Not Req.	Not Req.	FS-3	Not Req.	Attach to R2A per instructions
C	Switch	1/2	Not Req.	76-1	SWB	Not Req.	Attach to R2A per instructions
R3A	50KΩ	1/2	RVOC12	Q11-123	AM-44-S	AN-31	Brightness control
B	Shaft	1/2	Not Req.	Not Req.	FKS-1/4	AK-1	Attach to R3A per instructions
R4A	600KΩ	1/2	RV4C11		AG-58-S	B-4	Vert. linearity control
B	Shaft	1/2	Not Req.	Not Req.	FKS-1/4		Attach to R4A per instructions
R5A	3 Meg.	1/2	RV4C07	Q11-140	AG-84-S	AN-84	Height control
B	Shaft	1/2	Not Req.	Not Req.	FKS-1/4	AK-1	Attach to R5A per instructions
R6A	2 Meg.	1/2	RV4C10	Q11-139	AG-83-S	AN-75	Vert. hold control
B	Shaft	1/2	Not Req.	Not Req.	FKS-1/4	AK-1	Attach to R6A per instructions
R7	2500Ω	1/2	RVOW04		RTV-183	VK-132	Focus control-Wire Wound

Note 1. Used in combination models only.  
Note 2. Used in "TV only" models.

### RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES	
		BENDIX	IRC		
	RESISTANCE	WATTS	PART No.	PART No.	ALL RESISTORS ARE $\pm 10\%$ UNLESS OTHERWISE STATED
R8	4700Ω		RC22A472K	BTS-4700	RF Coil Shunt-See Note 3
R9	2200Ω 20%		RC22A222M	BTS-2200	RF Amp. Grid
R10	2200Ω		RC22A222K	BTS-2200	RF Amp. Decoupling
R11	220KΩ 20%		RC22A224M		Conv. Grid
R12	22KΩ 20%		RC22A223M		Osc. Grid
R13	15KΩ 20%		RC22A153M		Conv. Plate
R14	4700Ω		RC22A472K	BTS-4700	Osc. Plate
R15	680Ω 20%		RC22A681M	BTS-680	AGC Network
R16	150Ω 20%		RC22A151M	BTS-150	Decoupling
R17	33KΩ		RC22A333K		1st Video IF Amp. Grid
R18	56Ω		RC22A560K		1st Video IF Amp. Cathode
R19	680Ω 20%		RC22A681M	BTS-680	AGC Network
R20	100Ω 20%	1	RC24A101M	BTA-100	1st Video IF Amp. Decoupling
R21	10KΩ		RC22A103K		2nd Video IF Amp. Grid
R22	82Ω		RC22A82K	BTS-82	2nd Video IF Amp. Cathode
R23	1.5 Meg. 20%		RC22A155M	BTS-1.5 Meg.	AGC Network-See Note 4
R24	5600Ω		RC22A562K	BTS-5600	Video Det. Load
R25	1.2 Meg.		RC22A125K	BTS-1.2 Meg.	Video Amp. Grid-See Note 5
R26	6800Ω		RC25A682K	BTA-6800	Video Amp. Plate
R27	47KΩ	2	RC22A473K	BTS-47K	Isolation
R28	100KΩ 20%		RC22A104M	BTS-100K	Voltage Divider
R29	47KΩ 20%		RC22A473M		Sound IF Amp. Grid
R30	680Ω 20%		RC22A681M	BTS-680	Sound IF Amp. Decoupling
R31	4700Ω		RC24A472K	BTA-4700	Sound IF Amp. Decoupling
R32	12KΩ		RC22A123K	BTS-12K	Ratio Det. Diode Load
R33	33Ω 20%		RC24A330M		Balancing
R34	47KΩ		RC22A473K	BTS-47K	De-emphasis
R35	10 Meg. 20%		RC22A106M	BTS-10 Meg.	AF Amp. Grid
R36	10Ω 20%		RC22A100M	BW-1-10	AF Amp. Cathode
R37	82KΩ	1	RC24A823K	BTA-82K	AF Amp. Plate
R38	6800Ω 20%		RC22A682M	BTS-6800	Audio Output Screen
R39	47Ω 20%		RC22A470M	BW-1-47	Feedback
R40	2.2 Meg. 20%		RC22A225M	BTS-2.2 Meg.	Sync. Limiter Grid
R41	22KΩ 20%	2	RC25A223M	BTA-22K	Sync. Limiter Cathode
R42	22KΩ 20%		RC22A223M	BTS-22K	Sync. Limiter Plate
R43	47KΩ 20%	1	RC22A473M	BTS-47K	Sync. Limiter Plate
R44	330KΩ 20%		RC22A334M	BTS-330K	Picture Tube Grid
R45	100KΩ		RC22A104K	BTS-100K	Sync. Clipper Grid
R46	10KΩ		RC22A103K	BTS-10K	Sync. Clipper Cathode
R47	12KΩ		RC22A123K	BTS-12K	Sync. Clipper Cathode
R48	2700Ω 20%		RC22A272M	BTS-2700	Sync. Clipper Plate
R49	39KΩ		RC22A393K	BTS-39K	Integrator
R50	15KΩ		RC22A153K	BTS-15K	Integrator
R51	820Ω		RC22A822K	BTS-8200	Differentiator
R52	2.2 Meg. 20%		RC22A225M	BTS-2.2 Meg.	Vert. Output Grid
R53	68KΩ 20%		RC22A683M	BTS-68K	Feedtack
R54	33KΩ 5%		RC22A333J	BTS-33K-5%	Vert. Peak
R55	680KΩ 20%		RC22A684M	BTS-680K	Vert. Osc. Plate
R56	590KΩ		RC22A594K	BTS-590K	Voltage Divider
R57	560KΩ		RC22A564K	BTS-560K	Horiz. AFC Grid
R58	180KΩ		RC22A184K	BTS-180K	Horiz. AFC Cathode
R59	100KΩ 20%		RC22A104M	BTS-100K	Horiz. AFC Cathode
R60	620Ω		RC22A622K	BTS-6200	Horiz. AFC Filter Network
R61	330KΩ 20%		RC22A334M	BTS-330K	Voltage Divider
R62	120KΩ		RC22A124K	BTS-120K	Voltage Divider
R63	3.3 Meg. 20%		RC22A335M	BTS-3.3 Meg.	Voltage Divider
R64	180KΩ		RC22A184K	BTS-180K	Horiz. Osc. Grid
R65	680Ω		RC22A682K	BTS-6800	Horiz. Osc. Transformer Shunt
R66	120KΩ		RC22A124K	BTS-120K	Horiz. Osc. Plate
R67	560KΩ		RC22A564K	BTS-560K	Horiz. Output Grid-See Note 4
R68	47Ω	2	RC25A47K	BTB-470	Horiz. Output Cathode
R69	47Ω	2	RC25A47K	BTB-470	Horiz. Output Cathode
R70	4700Ω		RC25A472K	BTB-4700	Horiz. Output Screen
R71	4700Ω		RC25A472K	BTB-4700	Horiz. Output Screen
R72	10KΩ 20%	1	RC22A101M	BTS-10K	Filter
R73	2200Ω 20%	2	RC25A222M	BTB-2200	Vert. Output Decoupling
R74	680KΩ	2	RC25A684K		HV Filter
R75	680KΩ	2	RC25A684K		HV Filter
R76	470Ω	2	RC25A471K	BTB-470	Focus Coil Shunt
R77	22Ω 20%		RC22A22M	BW-1-22	Centering Network
R78	220KΩ 20%	1	RC24A224M	BTA-220K	Line Isolation