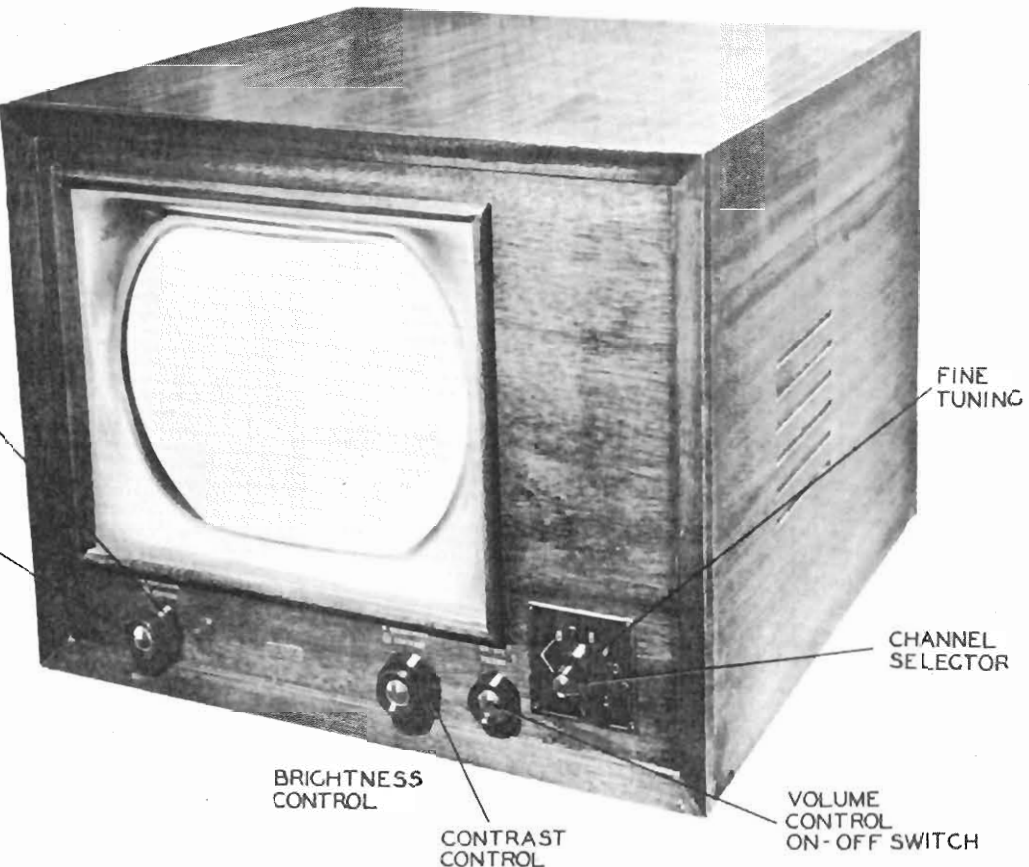


RF TUNER

PARTS LIST AND DESCRIPTIONS

TUBES					RESISTORS				
ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	ITEM No.	RATING		IDENTIFICATION	
		STANDARD REPLACEMENT				RESISTANCE	WATTS		
V401	RF Amp.	6BH6		7CM	R401	22K Ω		RF Grid	
V402	Mixer	6AG5		79D	R402	33K Ω		RF Screen	
V403	Oscillator	6C4		69G	R403	10K Ω		RF Plate	
					R404	100 Ω		RF Cathode	
					R405	4700 Ω		Mixer Coil Shunt	
					R406	1 Meg.		Mixer Grid	
					R407	62K Ω		Mixer Screen	
					R408	6900 Ω		Osc. Plate	
					R409	22K Ω		Osc. Grid	
					R410	470 Ω		Osc. Cathode	

CAPACITORS			COILS		
ITEM No.	RATING		ITEM No.	USE	DC RES.
	CAP.	VOLT			
C401	630		L401	Ant. Input	0 Ω
C402	630		L402	Ant. Input	0 Ω
C403	630		L403	Ant. Input	0 Ω
C404	630		L404	High Band	0 Ω
C405	630			High Band	0 Ω
C406	.68			High Band	0 Ω
C407	.47			High Band	0 Ω
C408	1.5			High Band	0 Ω
C409	1.5			High Band	0 Ω
C410	25			High Band	0 Ω
C411	5000			High Band	0 Ω
C412	1.5			High Band	0 Ω
C413	1.5			High Band	0 Ω
C414	3			High Band	0 Ω
C415	690			High Band	0 Ω
C416	690			High Band	0 Ω



MECK MODEL XQ-776	
TRADE NAME	Meck Models XF-777, XN-752, XP-775, XQ-776, XQA-776, XR-778, XS-786, XT-785
MANUFACTURER	John Meck Industries, Plymouth, Indiana
TYPE SET	Television Receiver
TUBES	Nineteen (2 tube tuner) Twenty (3 tube tuner)
POWER SUPPLY	110-120 Volts AC-60 Cycle
TUNING RANGE	Channels 2 thru 13
RATING	1.6 Amp. at 117 Volts AC

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HOWARD W. SAMS & CO., INC. • Indianapolis 1, 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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VERT. HOLD CONTROL

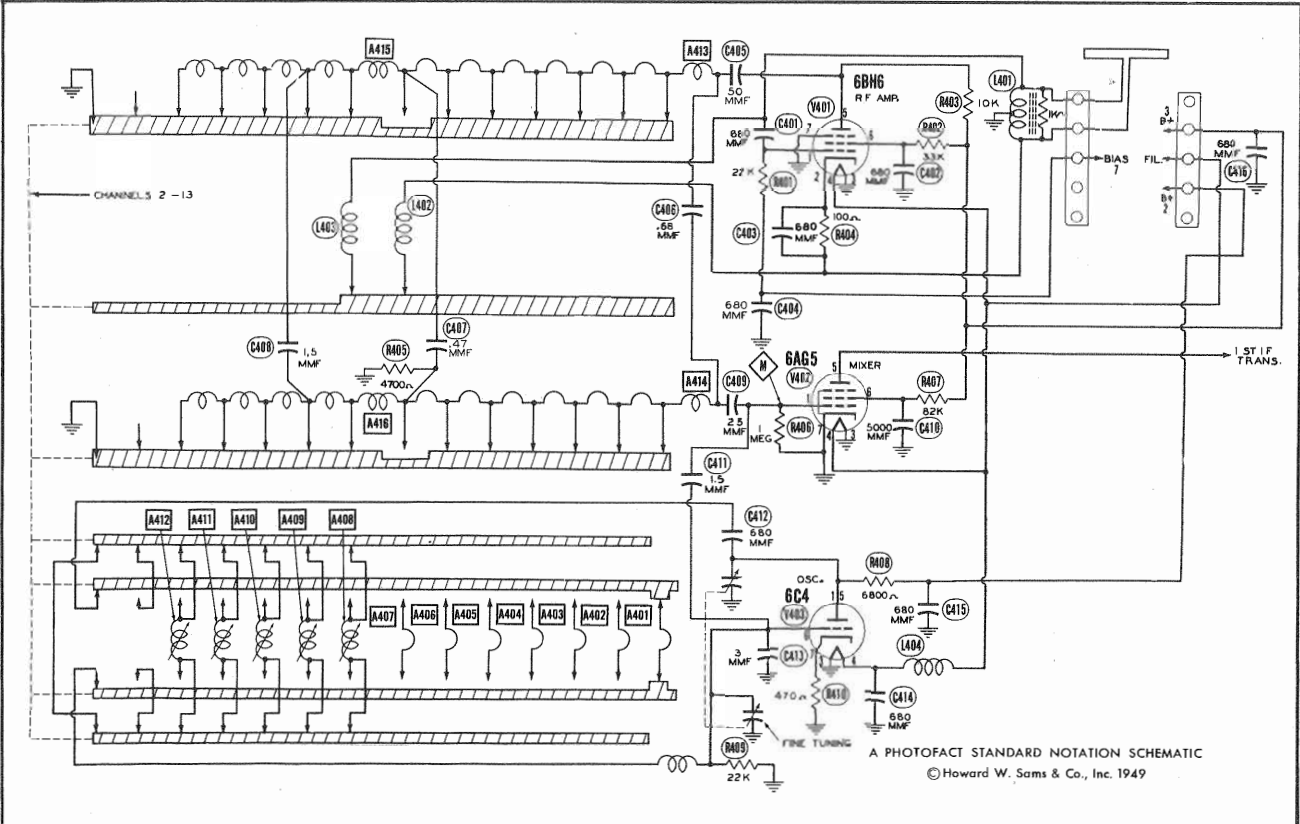
HORIZ. HOLD CONTROL

TRADE NAME
MANUFACTURER
TYPE SET
TUBES

POWER SUPPLY
TUNING RANGE

Alignment Instr
Disassembly In
Horiz. Sweep C
Parts List and I
Photographs
Cabinet-Rear
Capacitor Ide
Chassis-Top
RF Tuner (2 t

"The listing of any avail
case a recommendation
as to the quality and sui
parts have been compile
Inc., by the manufactu
"Reproduction or use, v



RF TUNER

PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE
		STANDARD REPLACEMENT		
V401	RF Amp.	6BH6		7CM
V402	Mixer	6AG5		7BD
V403	Oscillator	6C4		6BG

RESISTORS

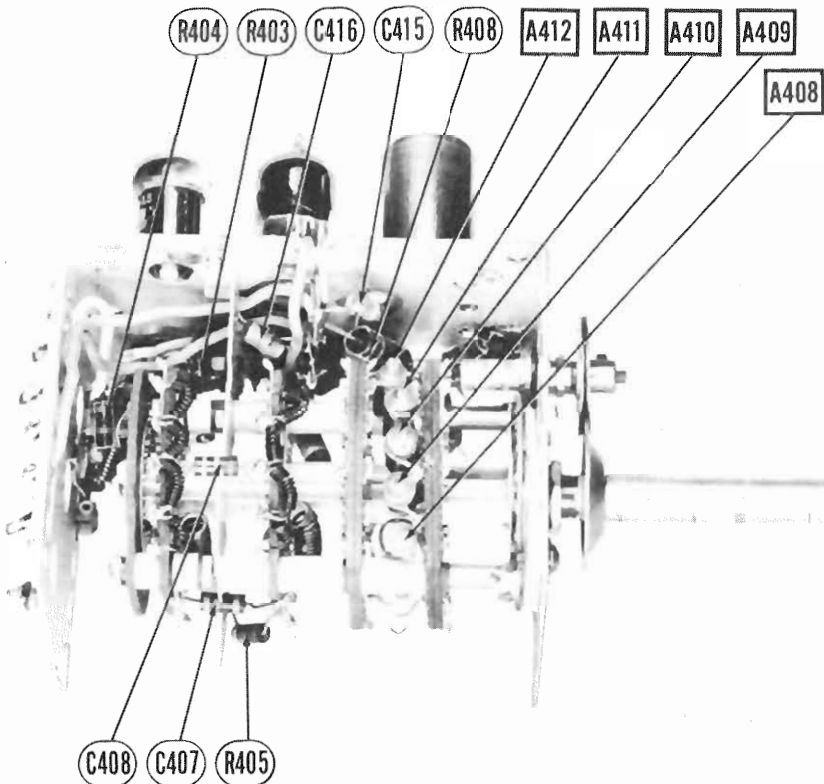
ITEM No.	RATING		IDENTIFICATION
	RESISTANCE	WATTS	
R401	22K	1/2	RF Grid
R402	33K	1/2	RF Screen
R403	10K	1/2	RF Plate
R404	100K	1/2	RF Cathode
R405	4700K	1/2	Mixer Coil Shunt
R406	1 Meg.	1/2	Mixer Grid
R407	82K	1/2	Mixer Screen
R408	6800K	1/2	Osc. Plate
R409	22K	1/2	Osc. Grid
R410	470K	1/2	Osc. Cathode

CAPACITORS

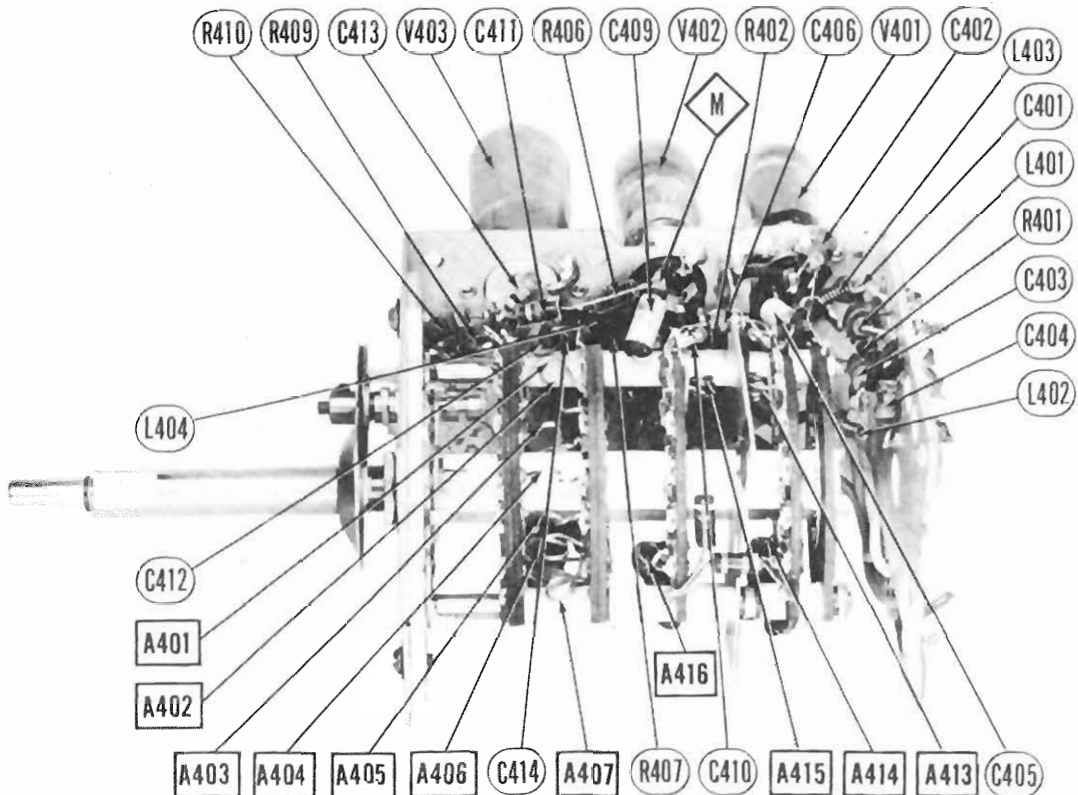
ITEM No.	RATING		IDENTIFICATION
	CAP.	VOLT	
C401	630		RF Coupling
C402	630		RF Screen Bypass
C403	630		RF Cathode Bypass
C404	630		Bias Filter
C405	50		RF Coupling
C406	.68		RF Coupling
C407	.47		RF Coupling
C408	1.5		RF Coupling
C409	25		RF Coupling
C410	5000		Mixer Screen Bypass
C411	1.5		Osc. Coupling
C412	680		Osc. Feedback
C413	3		Osc. Feedback
C414	680		Filament Bypass
C415	680		RF Bypass
C416	680		RF Bypass

COILS

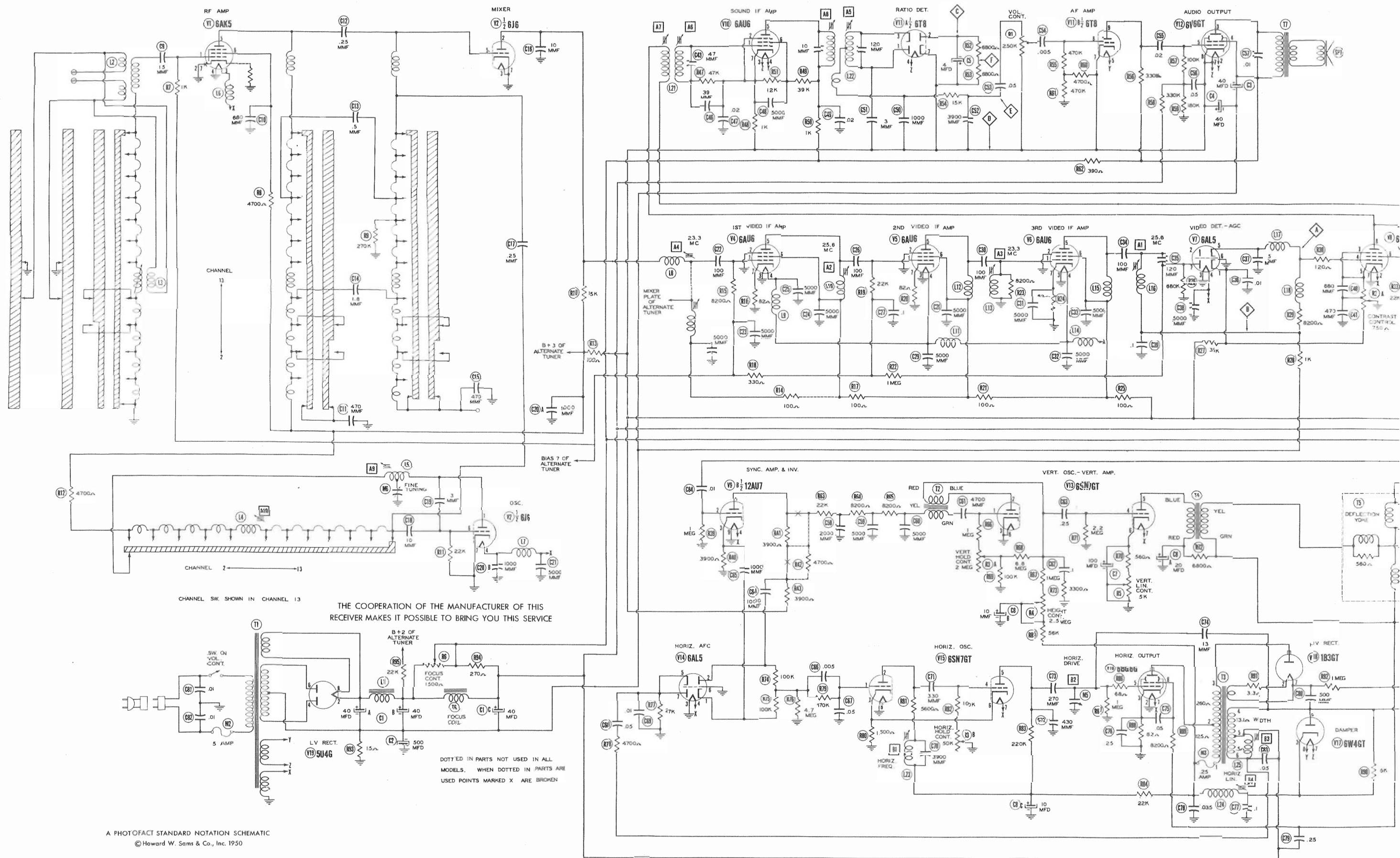
ITEM No.	USE	DC RES.		
		PRI.	SEC.	
L401	Ant. Input	0Ω		Wound on powdered iron core & 1000Ω resistor
L402	Ant. Input			
L403	High Band Ant. Input	0Ω		
L404	High Band Fil. Choke	0Ω		

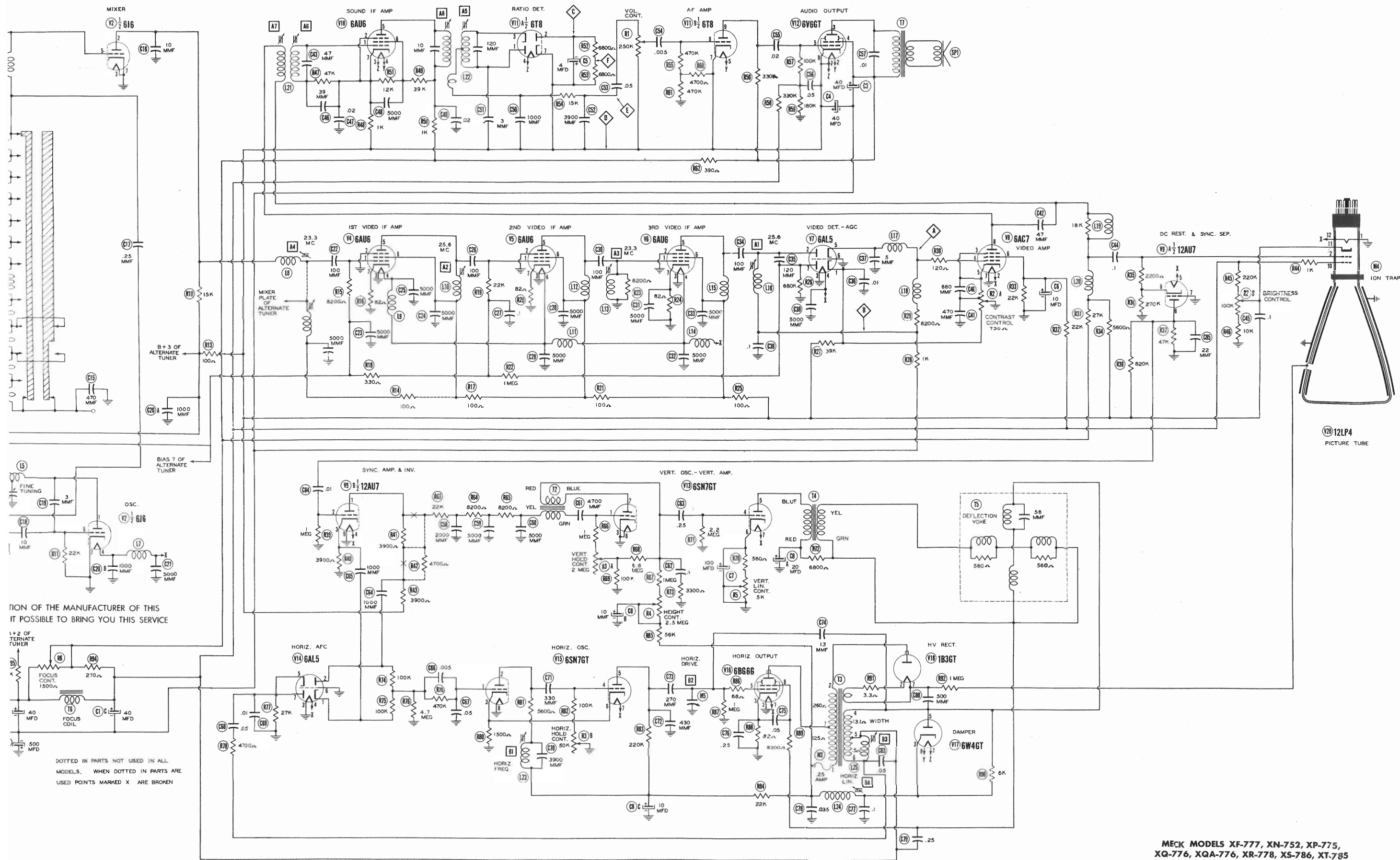


RF TUNER-LEFT SIDE

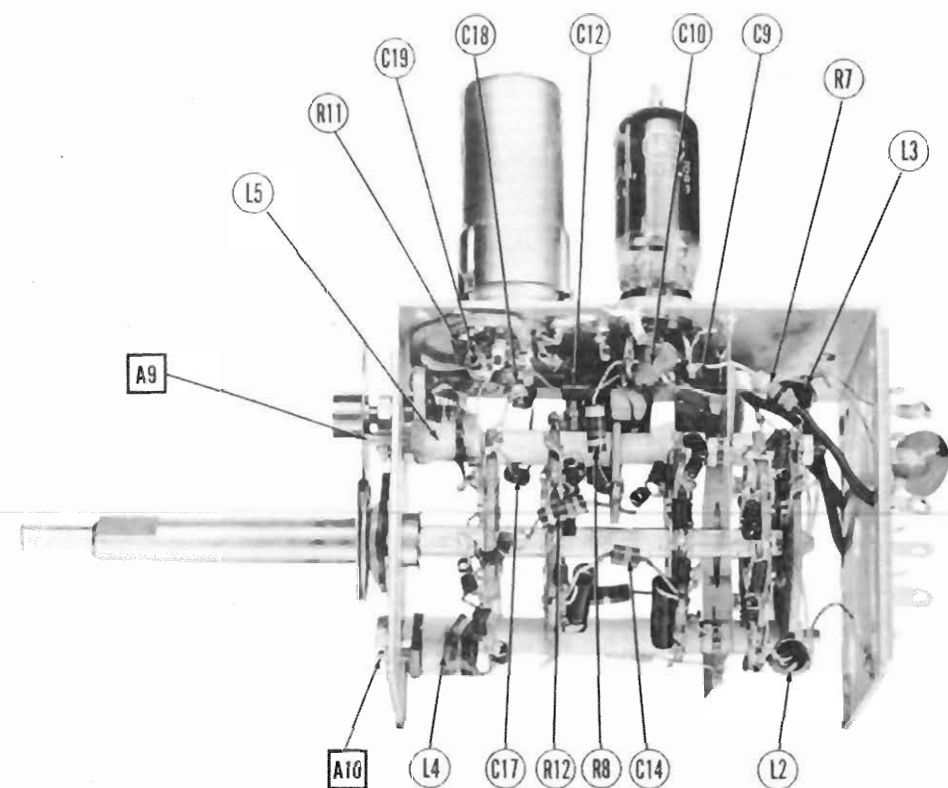


RF TUNER-RIGHT SIDE

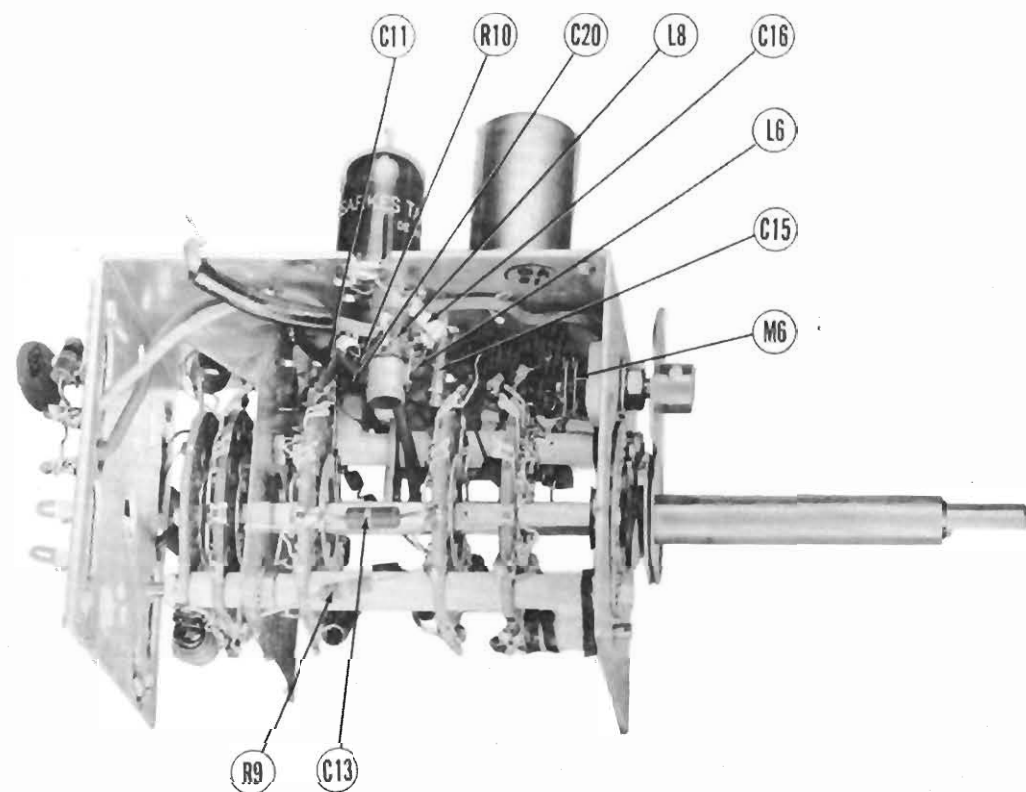




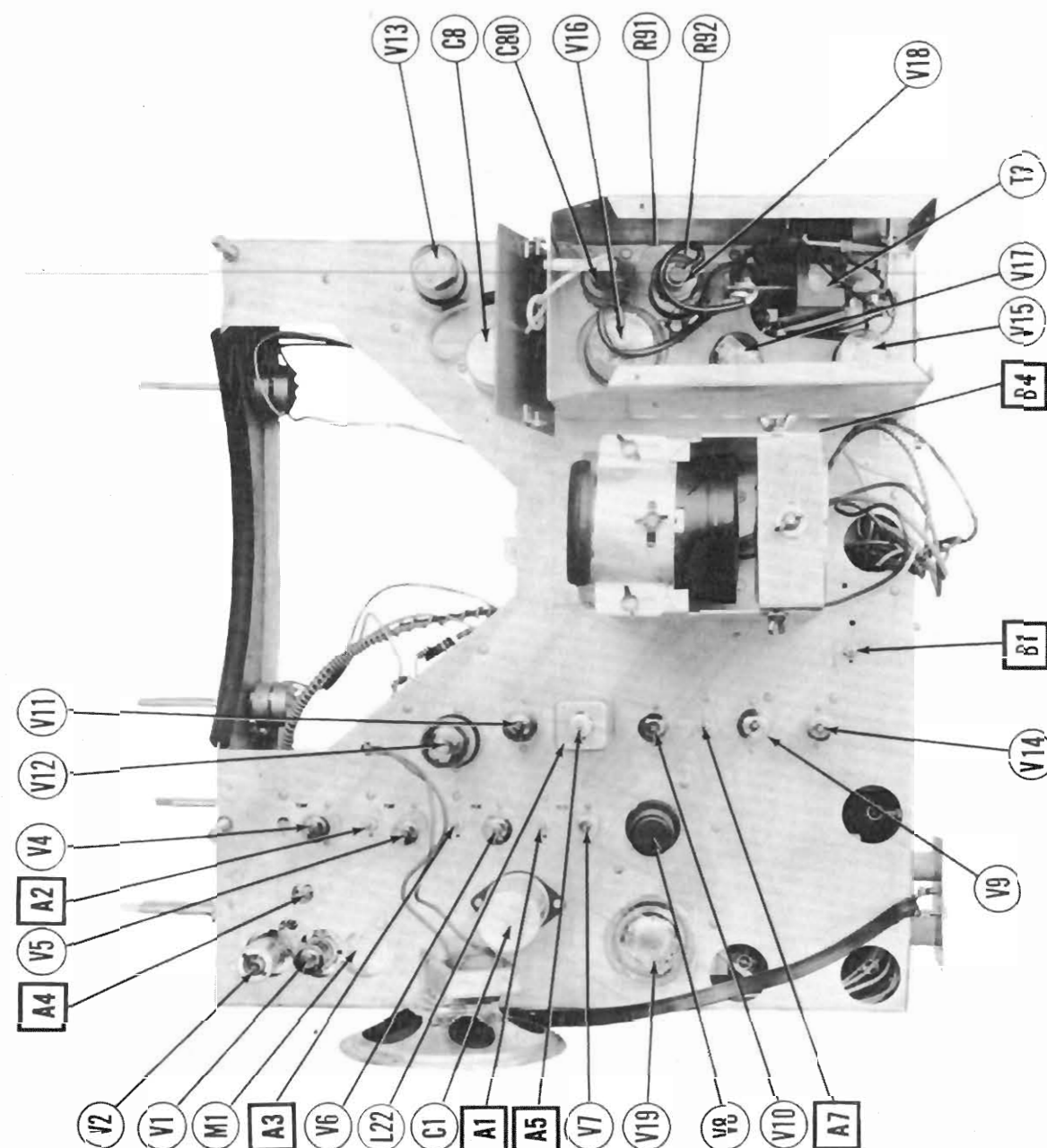
MECK MODELS XF-777, XN-752, XP-775,
XQ-776, XQA-776, XR-778, XS-786, XT-785



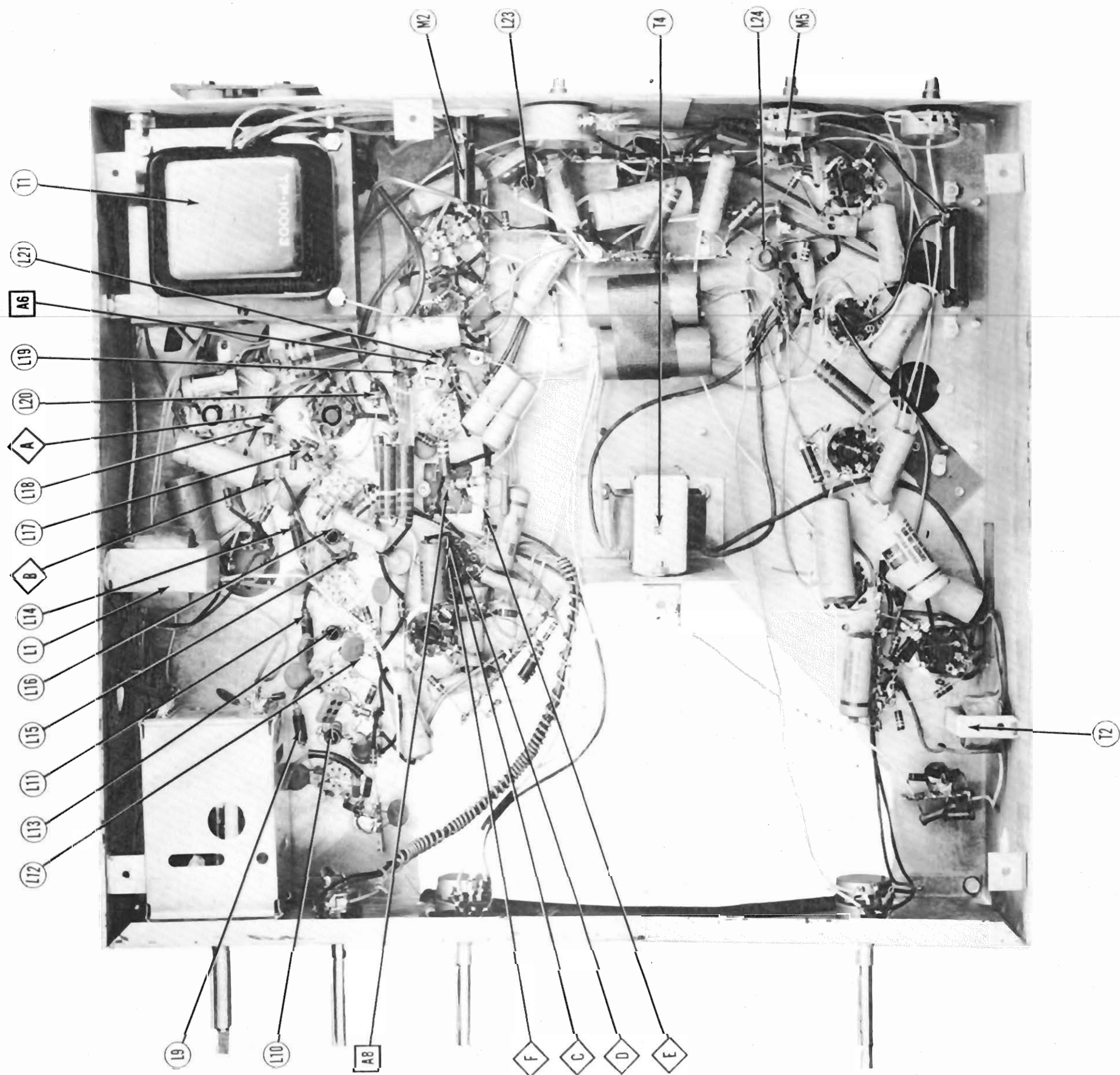
RF TUNER-RIGHT SIDE



RF TUNER-LEFT SIDE



MECK MODELS XF-777, XN-752, XP-775,
XQ-776, XQA-776, XR-718, XS-786, XT-785
CHASSIS TOP VIEW



CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

MECK MODELS XF-777, XN-752, XP-775,
XQ-776, XQA-776, XR-778, XS-786, XT-785

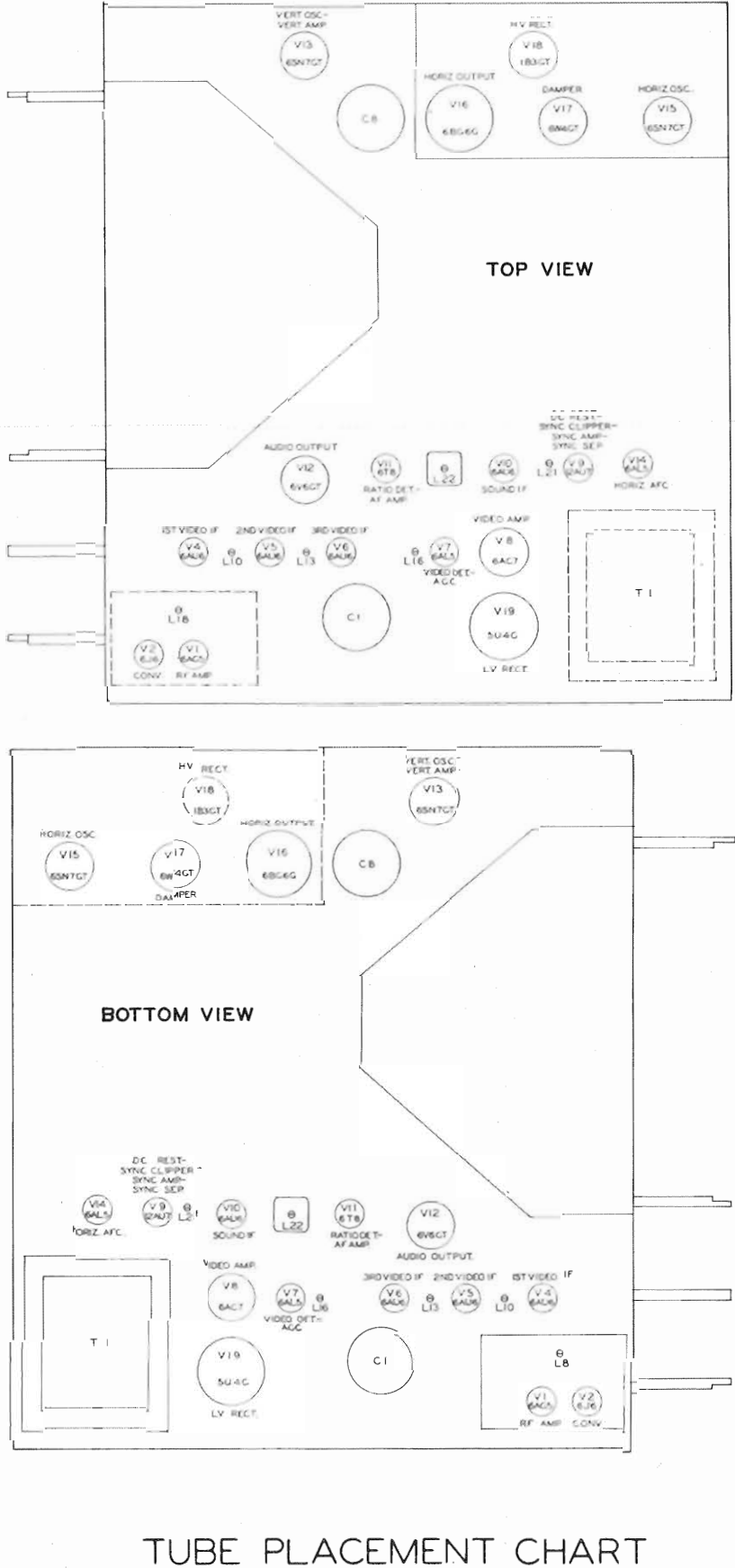
VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS									
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V 1	6AG5	-2VDC	0V.	6.3VAC	0V.	145VDC	130VDC	0V.	
V 2	6J6	110VDC	85VDC	0V.	6.3VAC	-2VDC	1-8VDC	0V.	
V 3	6C4	NOT USED IN ALL MODELS.							
V 4	6AU6	-8VDC	0V.	0V.	6.3VAC	145VDC	145VDC	.5VDC	
V 5	6AU6	-4VDC	0V.	0V.	6.3VAC	145VDC	145VDC	1.2VDC	
V 6	6AU6	0V.	0V.	0V.	6.3VAC	150VDC	150VDC	.9VDC	
V 7	6AL5	.1VDC	-3VDC	0V.	6.3VAC	.3VDC	0V.	-1.7VDC	
V 8	6AC7	0V.	6.3VAC	1.2VDC	6.3VAC	175VDC	175VDC	0V.	195VDC
V 9	12AU7	130VDC	0V.	6.3VDC	6.3VAC	7.1VDC	0V.	1.1VDC	0V.
V 10	6AU6	4.8VDC	7.5VDC	0V.	6.3VAC	225VDC	225VDC	7.5VDC	
V 11	6T8	-2VDC	-2VDC	0V.	6.3VAC	40V.	40V.	40V.	110VDC
V 12	6Y6GT	0V.	6.3VAC	205VDC	225VDC	40V.	40V.	40V.	
V 13	6SN7GT	15VDC	105VDC	0V.	0V.	36VDC	19VDC	6.3VAC	0V.
V 14	6AL5	1.8VDC	-1.2VDC	0V.	6.3VAC	0V.	0V.	0V.	
V 15	6SN7GT	.1VDC	285VDC	11VDC	-3.8VDC	110VDC	11VDC	6.3VAC	0V.
V 16	6BG6G	-1.7VDC	0V.	9.1VDC	0V.	-1.7VDC	0V.	6.3VAC	280VDC
V 17	6W4GT	0V.	0V.	460VDC	0V.	380VDC	0V.	40V.	
V 18	6B2GT	DO NOT MEASURE.							
V 19	5U4G	0V.	440VDC	0V.	390VAC	0V.	390VAC	0V.	440VDC
V 20	12LP4	0V.	1.3VDC	350VDC	140VDC	0V.	0V.	6.3VAC	
TUBE VOLTAGE TESTER.									
* DO NOT MEASURE.									
* MEASURED FROM PIN 8 OF V12.									

RESISTANCE READINGS									
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V 1	6AG5	1.5 Meg.	0Ω	1Ω	0Ω	100Ω	44.8KΩ	0Ω	
V 2	6J6	4.4.8KΩ	15KΩ	0Ω	1Ω	270KΩ	22KΩ	0Ω	
V 3	6C4	NOT USED IN ALL MODELS.							
V 4	6AU6	1.7 Meg.	0Ω	0Ω	1Ω	100Ω	100Ω	82Ω	
V 5	6AU6	1.7 Meg.	0Ω	0Ω	1Ω	100Ω	100Ω	82Ω	
V 6	6AU6	2Ω	0Ω	0Ω	1Ω	100Ω	100Ω	82Ω	
V 7	6AL5	15Ω	100Ω	0Ω	1Ω	9.2KΩ	0Ω	880KΩ	
V 8	6AC7	Inf.	1Ω	750Ω	9.3KΩ	750Ω	117KΩ	0Ω	115KΩ
V 9	12AU7	4.8KΩ	1 Meg.	3.9KΩ	1Ω	1Ω	47KΩ	0Ω	270KΩ
V 10	6AU6	4.8KΩ	100Ω	40Ω	1Ω	100Ω	11KΩ	100Ω	
V 11	6T8	Inf.	13.6KΩ	Inf.	1Ω	1Ω	40Ω	40Ω	130KΩ
V 12	6Y6GT	Inf.	1Ω	1750Ω	145Ω	280KΩ	Inf.	40Ω	40Ω
V 13	6SN7GT	3 Meg.	42.5 Meg.	0Ω	2.2 Meg.	12.8KΩ	560Ω	1Ω	0Ω
V 14	6AL5	4.8 Meg.	4.8 Meg.	0Ω	1Ω	27KΩ	0Ω	27KΩ	
V 15	6SN7GT	5 Meg.	43KΩ	1.5KΩ	150Ω	250KΩ	1.5KΩ	1Ω	0Ω
V 16	6BG6G	1 Meg.	0Ω	82Ω	Inf.	1 Meg.	Inf.	1Ω	15KΩ
V 17	6W4GT	Inf.	Inf.	16KΩ	Inf.	65KΩ	Inf.	40Ω	40Ω
V 18	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	22KΩ
V 19	5U4G	Inf.	22KΩ	Inf.	60Ω	Inf.	60Ω	Inf.	
V 20	12LP4	0Ω	272KΩ	11.3KΩ	85KΩ	10Ω	10Ω	10Ω	
FOCUS CONTROL SET FULLY COUNTERCLOCKWISE FOR THESE MEASUREMENTS.									
* MEASURED FROM PIN 3 OF V17.									
* MEASURED FROM PIN 2 OF V19.									
* MEASURED FROM PIN 8 OF V12.									

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.

MECK MODELS XF-777, XN-752, XP-775, XQ-776, XQA-776, XR-778, XS-786, XT-785



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The high voltage shock hazard may be eliminated by removing the horizontal oscillator tube (V15) from its socket.

VIDEO IF ALIGNMENT

If the set has the three tube tuner, remove the local oscillator tube (V3) from its socket to prevent erroneous indications. If the set has the two tube tuner, remove the converter tube (V2) and replace it with a 6J6 which has pin 1 removed to disable the local oscillator. Keep output of signal generator as low as possible to maintain a usable reading (not more than 2 volts).

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. Direct	High side to ungrounded tube shield floating over converter tube (V2). Low side to chassis.	25.6MC (Unmod.)	Any	DC Probe to Point A. Common to Point B.	A1, A2	Adjust for maximum deflection.
2. Direct	"	23.3MC	"	"	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 converter tube (V2). Low side to chassis.	24MC (10MC SWP)	21.6MC 23.3MC 25.6MC 26.1MC	Any	Vert. Amp. to Point A. Low side to chassis.		Check for response curve similar to figure 1. 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 pin 4 (Grid) of 6AC7 (V8). Low side to chassis.	4.5MC (Unmod.)	Any	DC Probe to Point C. Common to Point D.	A5, A6, A7	Adjust for maximum deflection.
5. .01MFD	"	"	"	DC Probe to Point E. Common to Point F.	A8	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

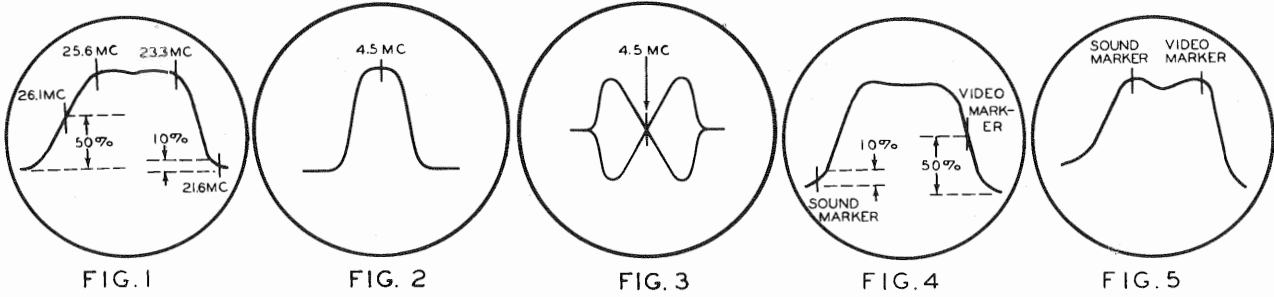
Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4. .01MFD	High side to pin 4 (Grid) of 6AC7 (V8). Low side to chassis.	4.5MC (450KC Sweep)	4.5MC	Any	Vert. Amp. to Point C. Low side to chassis.	A5, A6, A7	Remove stabilizer capacitor C5. Adjust for maximum amplitude and symmetry as per figure 2.
5. .01MFD	"	"	"	"	Vert. Amp. to Point E. Low side to chassis.	A8	Reconnect capacitor C5. Adjust A8 so 4.5MC occurs at center of crossover lines as per figure 3. Slightly retouch A5 for maximum amplitude and straightness of crossover lines.

(TWO TUBE TUNER) OSCILLATOR ALIGNMENT

Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. 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
6. Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	213MC (10MC SWP)	211.25MC 215.75MC	13	Vert. Amp. to Point A. Low side to chassis.	A9	Adjust to place sound marker as shown in figure 4. The video marker should be at 50%.
7. "	"	207MC (10MC SWP) 205.25MC 209.75MC 201MC (10MC SWP) 199.25MC 203.75MC 195MC (10MC SWP) 193.25MC 197.75MC 189MC (10MC SWP) 187.25MC 191.75MC 183MC (10MC SWP) 181.25MC 185.75MC 177MC (10MC SWP) 175.25MC 179.75MC	205.25MC 209.75MC 203.75MC 199.25MC 197.75MC 191.75MC 187.25MC 181.25MC 175.25MC 179.75MC	12 11 10 9 8 7	"		Check all high band channels to see that the sound marker can be properly placed well within the range of the fine tuning control. If not compromise adjustment of A9 may be necessary.
8. "	"	85MC (10MC SWP)	83.25MC 87.75MC	6	"	A10	Adjust to place sound marker as shown in figure 4. The video marker should be at 50%.
9. "	"	79MC (10MC SWP) 77.25MC 81.75MC 69MC (10MC SWP) 67.25MC 71.75MC 63MC (10MC SWP) 61.25MC 65.75MC 57MC (10MC SWP) 55.25MC 59.75MC	77.25MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	5 4 3 2	"		Check all low band channels to see that the sound marker can be properly placed well within the range of the fine tuning control. If not compromise adjustment of A10 may be necessary.



(THREE TUBE TUNER) OSCILLATOR ALIGNMENT

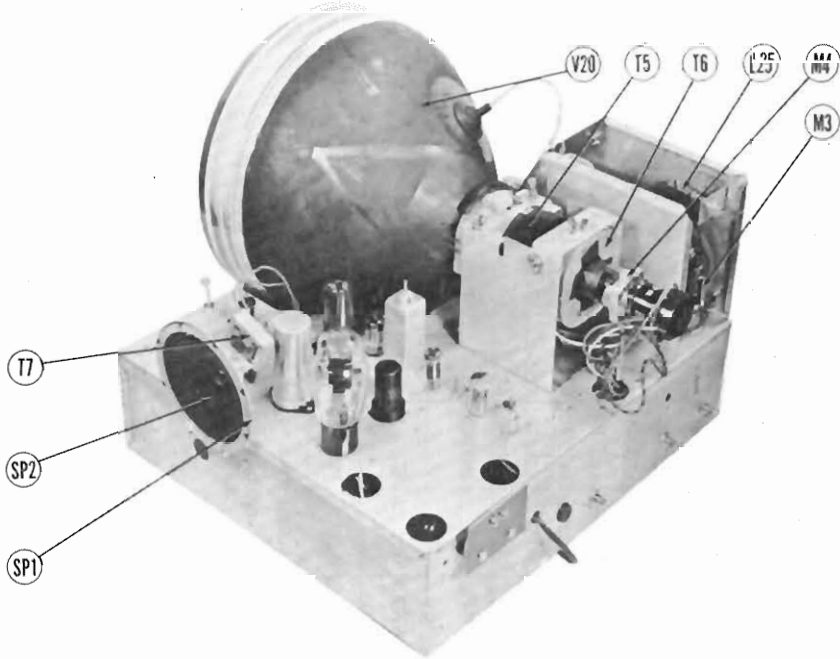
Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. Set the fine tuning control to the mid-position of its range.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
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)	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	13 12 11 10 9 8 7	Vert. Amp. to Point A. Low side to chassis.	A401 A402 A403 A404 A405 A406 A407	Expand or compress coil turns to place sound marker as shown in figure 4. The video marker should be at 50%.
"	"	85MC (10MC SWP) 79MC (10MC SWP) 69MC (10MC SWP) 63MC (10MC SWP) 57MC (10MC SWP)	83.25MC 87.75MC 77.25MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	6 5 4 3 2	"	A408 A409 A410 A411 A412	Adjust to place sound marker as shown in figure 4. The video marker should be at 50%.

(THREE TUBE TUNER) RF ALIGNMENT

Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. 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
Two 120Ω carbon res.	Across antenna terminals with 120Ω in each lead.	213MC (10MC SWP)	211.25MC 215.75MC	13	Vert. Amp. thru 10KΩ to Point A. Low side to chassis.	A413, A414	Expand or compress coil turns for response curve similar to figure 5 with markers above 80%.
"	"	207MC (10MC SWP) 201MC (10MC SWP) 195MC (10MC SWP) 189MC (10MC SWP) 183MC (10MC SWP) 177MC (10MC SWP)	205.25MC 209.75MC 203.75MC 199.25MC 197.75MC 191.75MC 187.25MC 181.25MC 175.25MC 179.75MC	12 11 10 9 8 7	"		Check all high band channels for response curve similar to figure 5. If markers fall below 70% on any channel, make slight adjustment of A413 and A414 with channel switch set for that channel. Recheck all high band channels to see that they have not been seriously effected.
"	"	85MC (10MC SWP)	83.25MC 87.75MC	6	"	A415, A416	Expand or compress coil turns for response curve similar to figure 5 with markers above 80%.
"	"	79MC (10MC SWP) 69MC (10MC SWP) 63MC (10MC SWP) 57MC (10MC SWP)	77.25MC 81.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	5 4 3 2	"		Check all low band channels for response curve similar to figure 5. If markers fall below 70% on any channel, make slight adjustment of A415 and A416 with channel selector set for that channel. Recheck all low band channels to see that they have not been seriously effected.

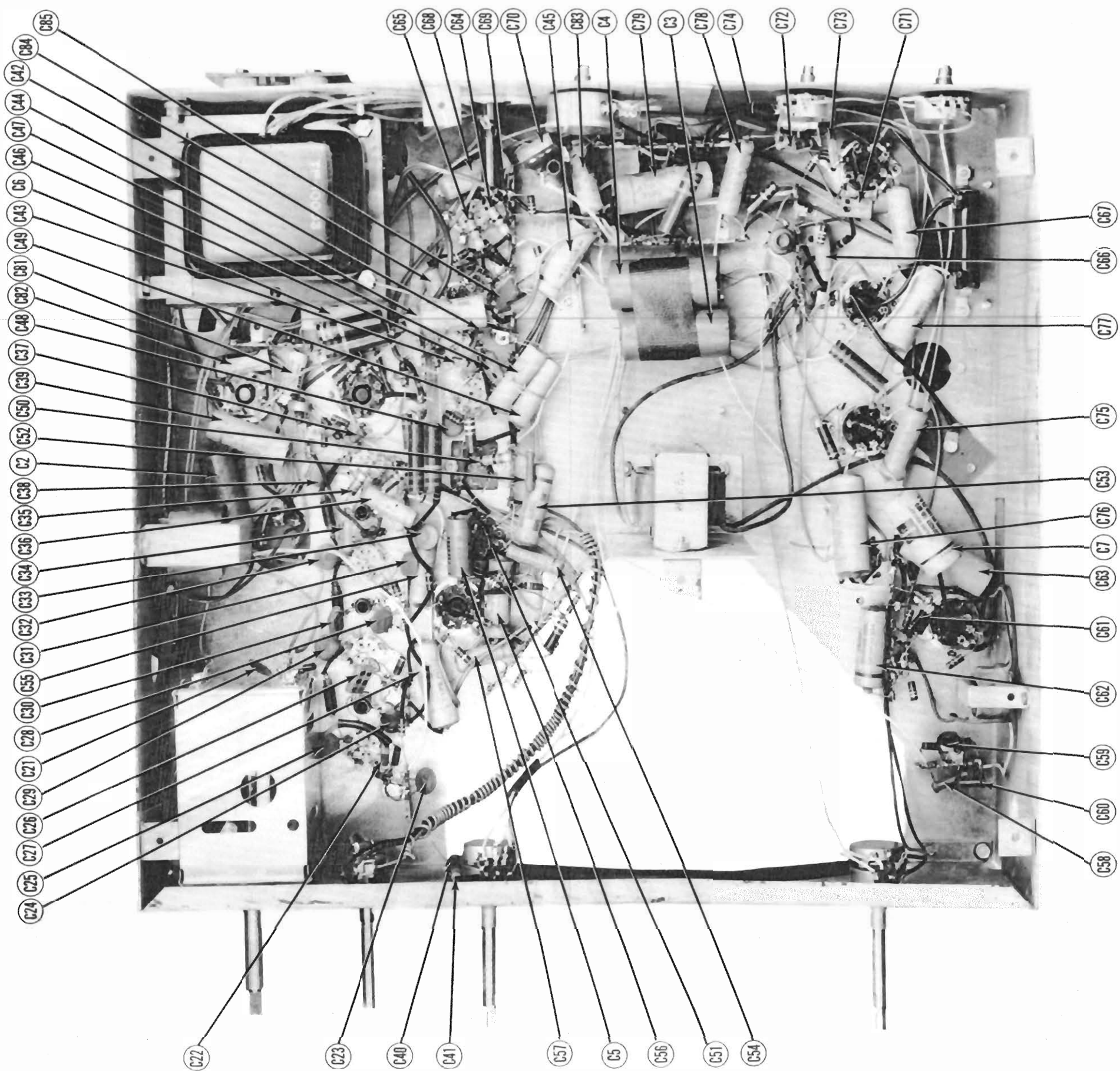


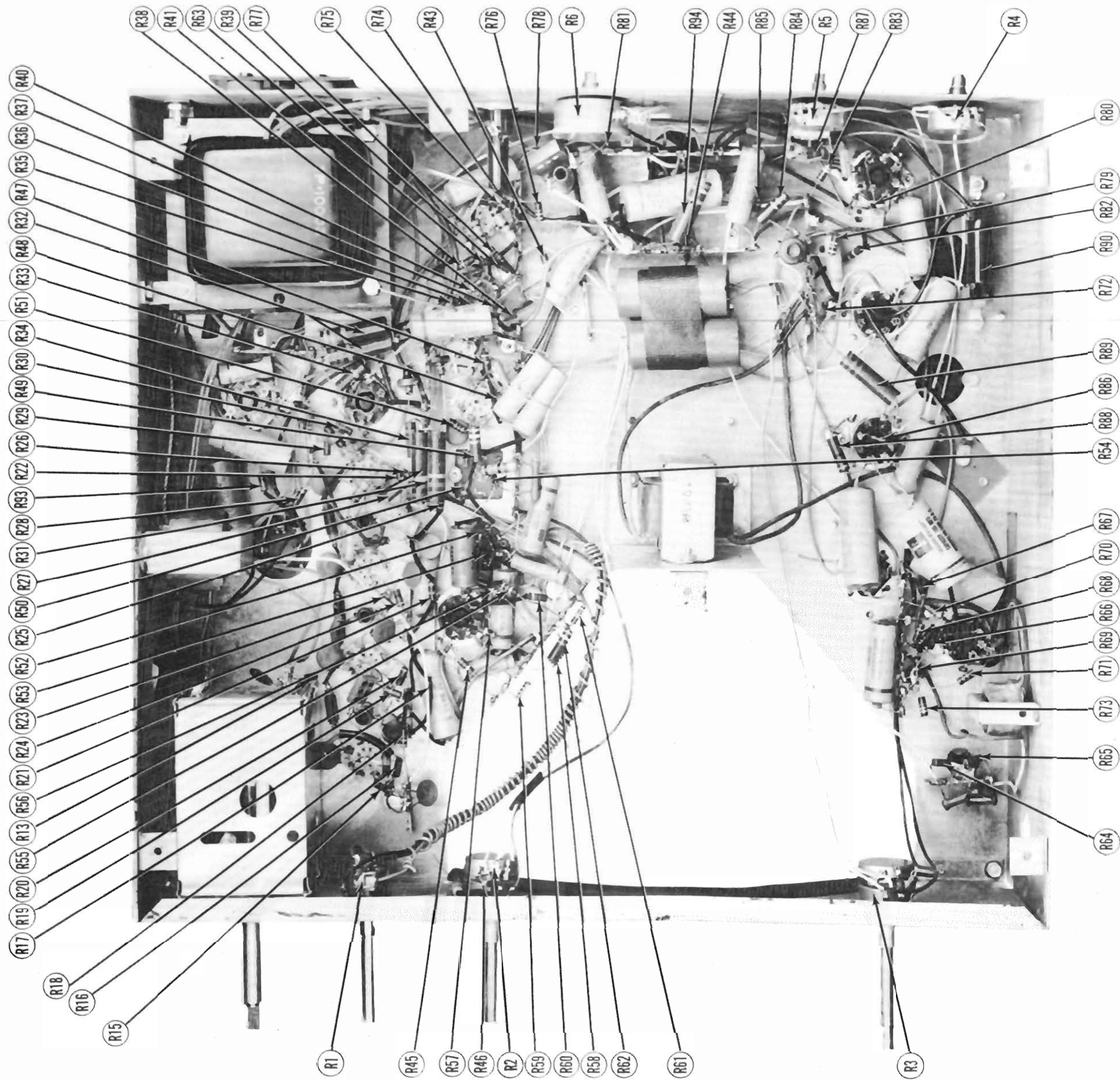
CHASSIS-TOP VIEW

MECK MODELS XF-777, XN-752, XP-775, XQ-776, XQA-776, XR-778, XS-786, XT-785

MECK MODELS XF-777, XN-752, XP-775,
XQ-776, XQA-776, XR-778, XS-786, XT-785

CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION





CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

MECK MODELS XF-777, XN-752, XP-775,
XQ-776, XQA-776, XR-778, XS-786, XT-785

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		MECK PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T7	4.5K Ω	3.3 Ω	300 Ω	.7 Ω	Part of SP1	A-3877 ⑧	A-2930 ⑧	RO-8 ⑧	⑧ Bend mounting tabs down and mount on original bracket.

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			INSTALLATION NOTES
			MECK PART No.	JENSEN PART No.	QUAM PART No.	
SP1A B C	FIELD RES.	V. C. IMP.				
	PM	3.3 Ω	SR-10019	ST-105 ⑨ MOD. P5-X ST-117	5A07 ⑨ 8A21	⑨ Remount output transformer. ⑩ Replace output transformer to match 6-8 Ω voice coil.
	PM	3.3 Ω	SR-10020	MOD. P8-T ST-120 ⑩ MOD. P10-S		
	PM	3.3 Ω	ST-10021		10A31	
SP2A	CONE DIA.	V. C. DIA.				
	4 3/4"	9/16"				

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 μ)	MECK PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.200ADC	32 Ω	1.5 Henry	LG-10021	C-2325 ④	C-2974	TR-4200 ④	④ Drill one new mounting hole.

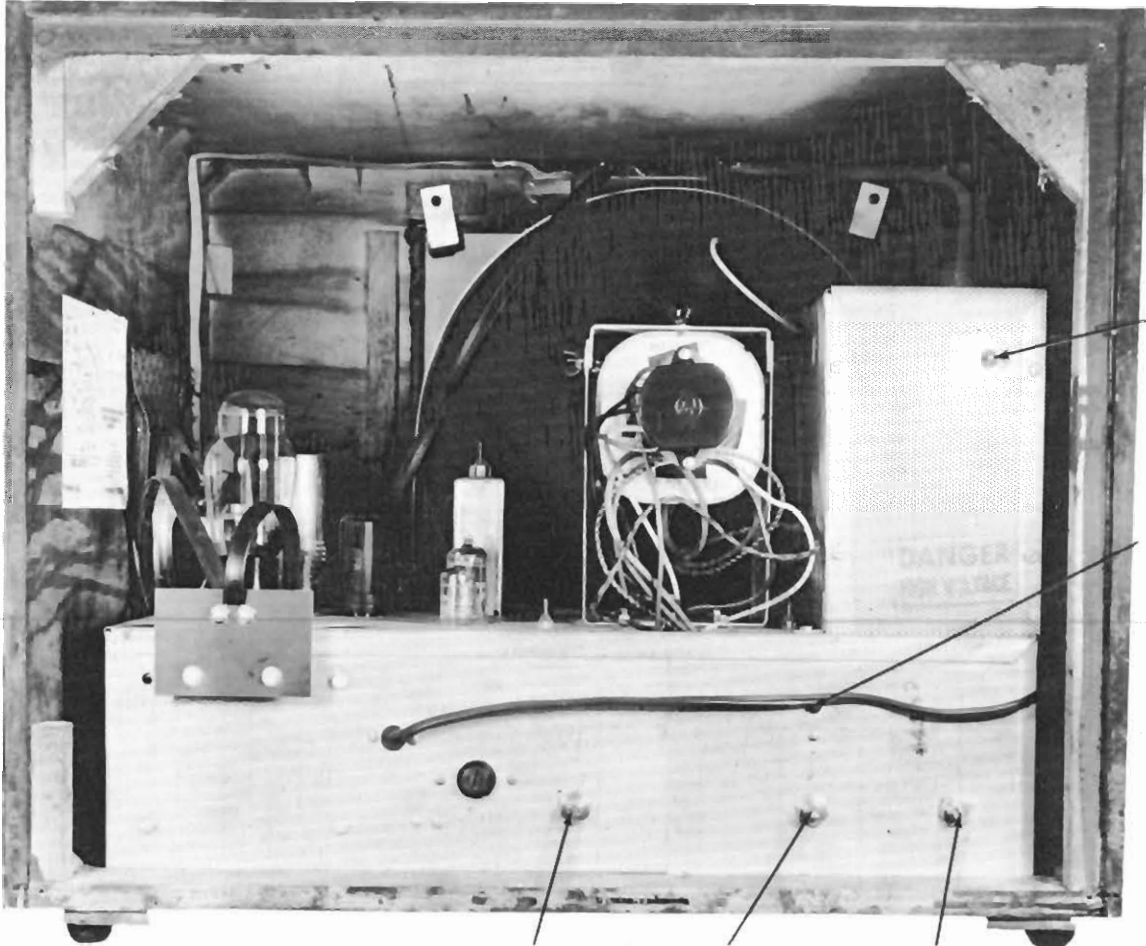
COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	MECK	MEISSNER	
				PART No.	PART No.	
L2	Ant. Coil	0Ω				Low Band High Band Channel 5 Channel 13
L3	Ant. Coil	0Ω				
L4	Osc. Coil	.1Ω				
L5	Osc. Coil	.1Ω				
L6	Fil. Choke	.1Ω				
L7	Fil. Choke	.1Ω				
L8	1st Video IF	.3Ω				
L9	Fil. Choke	0Ω		LG-10019		
L10	2nd Video IF	.1Ω				
L11	Fil. Choke	0Ω		LG-10019		
L12	RF Choke	4.5Ω		LG-10020		120 microhenries 600 microhenries Wound on 18KΩ resistor 150 microhenries 600 microhenries
L13	3rd Video IF	.1Ω				
L14	Fil. Choke	0Ω		LG-10019		
L15	RF Choke	4.5Ω		LG-10020		
L16	4th Video IF	.1Ω				
L17	Peaking	9.3Ω		LG-10014	19-1921	
L18	Peaking	22.5Ω		LG-10016		
L19	Peaking	10Ω		LG-10018	19-1921 †	
L20	Peaking	14Ω		LG-10016		
L21	Sound IF	1.9Ω	1.9Ω			
L22	Ratio Det.					
	Trans.	4.9Ω	.2Ω			
L23	Ringing	110Ω				
L24	Horiz. Lin.	39Ω		TO-10024		
L25	Horiz. Size	.2Ω		TO-10023		

† Add 18K Ω resistor in parallel.

MISCELLANEOUS

ITEM No.	PART NAME	MECK PART No.	NOTES
M1A	RF Tuner		Two tubes
B	RF Tuner		Three tubes
M2	Fuse		5A 250V Type 3AG
M3	Fuse		.25A 250V Type 3AG
M4	Ion Trap		
M5	Trimmer		Horiz. drive
M6	Trimmer		Fine Tuning
	Knob	K-10083	Volume
	Knob	K-10084	Channel selector
	Knob	K-10085	Fine Tuning
	Knob	K-10086	Vert. hold, Horiz. hold, Contrast, Brightness (Inner dual control)
	Knob	K-10087	Vert. hold, Horiz. hold, Contrast, Brightness, (Outer dual control)



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.
- Adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.
- Adjust the horizontal drive trimmer (B2) clockwise as far as possible without crowding the right half of the picture.
- Adjust the horizontal size slug (B3) until the picture fills the mask horizontally.
- Adjust the horizontal linearity slug (B4) until the picture is symmetrical from left to right. Readjustment of B2 may be necessary for optimum results.

DISASSEMBLY INSTRUCTIONS

1. Remove seven push-on type control knobs.
2. Remove five 1/4" hex head screws holding rear cover. Remove cover.
3. Disconnect built-in antenna lead at chassis terminal.
4. Remove six 5/16" hex head bolts holding chassis. Remove chassis.

MECK MODELS XF-777, XN-752, XP-775,
XQ-776, XQA-776, XR-778, XS-786, XT-785

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		MECK PART No.	STANDARD REPLACEMENT		
V1A	RF Amp.	6AG5 or 6CB6	6AG5 or 6CB6	7BD	Two tube tuner
B	RF Amp.	6AK5	6AK5	7BD	Alternate two tube tuner
C	RF Amp.	6AG5	6AG5	7BD	Three tube tuner
V2A	Converter	6J6	6J6	7BF	Two tube tuner
B	Converter	6J6	6J6	7BF	Alternate two tube tuner
C	Mixer	6AG5	6AG5	7BD	Three tube tuner
V3	Oscillator	6C4	6C4	6DG	Three tube tuner
V4	1st Video IF	6AU6	6AU6	7BK	
V5	2nd Video IF	6AU6	6AU6	7BK	
V6	3rd Video IF	6AU6	6AU6	7BK	
V7	Video Det. -AGC	6AL5	6AL5	6BT	
V8	Video Amp.	6AC7	6AC7	8N	
V9	DC Rest. -Sync.	12AU7	12AU7	9A	
	Clipper-Amp. -Sep.	6AU6	6AU6	7BK	
V10	Sound IF	6T8	6T8	9E	
V11	Ratio Det. -AF Amp.	6V6GT	6V6GT	7AC	
V12	Audio Output				
V13	Vert. Osc. -Vert. Amp.	6SN7GT	6SN7GT	8BD	
V14	Hor. AFC	6AL5	6AL5	6BT	
V15	Hor. Osc.	6SN7GT	6SN7GT	8BD	
V16	Hor. Output	6BG6G	6BG6G	5BT	
V17	Damper	6W4GT	6W4GT	4CG	
V18	HV Rec.	1B3GT	1B3GT	3C	
V19	LV Rec.	5U4G	5U4G	5T	
V20	Picture Tube	12LP4	12LP4	12D	

CAPACITORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		MECK PART No.	AEROVOX PART No.			
C65	1000		GP1000M	D6-192	1W5D1	Hor. Sync. Coupling
C66	0.005		P688-005	D6-502	PTE6D1	AFC Filter
C67	0.05		P688-05		PTE6S1	AFC Filter
C68	0.05		P688-05		PTE6S1	Hor. Feedback
C69	0.01		P688-01	D6-103	PTE6S1	Voltage Divider
C70	3900					Fixed Trimmer
C71	330		1468-0003	D6-331	5W5T3	Hor. MV Feedback
C72	430		1469-0004		5R5T4	Hor. Discharge
C73	270		1468-00025	D6-271	5W5T5	Hor. Sweep Coupling
C74	13					Hor. Feedback
C75	0.05		P688-05		PTE6S5	Hor. Output Screen Byp.
C76	25		684-25		GT6P25	Hor. Output Cath. Byp.
C77	1		P688-1		PTE6P1	Damper Filter
C78	0.035		P688-035			Hor. Sweep Coupling
C79	25		684-25		GT6P25	HV Filter
C80	500		15000			Line Filter
C81	0.01		P688-01	D6-103	PTE6S1	Line Filter
C82	0.01		P688-01	D6-103	PTE6S1	Line Filter
C83	0.05		P688-05		PTE6S5	Fixed Trimmer *
C84	0.01		P688-01	D6-103	PTE6S1	Sync. Coupling *
C85	22		1468-000025	D6-250	5W5Q25	Sync. Clipper Plate Byp. *

* Not used in all models.
† Some models use 370MMF in this application.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		CENTRALAB PART No.	INSTALLATION NOTES
		MECK PART No.	IRC PART No.		
R1A	250KΩ		Q13-130	M-64-Z	Volume control
B	Switch		76-1	SW-A	Attach to R1A per instructions
R2A	750Ω		VC-12118		Contrast control-panel-tapped at 500Ω
B	100KΩ				Brightness control-rear
R3A	2 Meg.		B11-139 *		Vert. hold control-panel
B	50KΩ		B11-123 *		Horiz. hold control-rear
C	Shaft End		E-202 *		Attach per instr. in "Concentritik"
R4A	2.5 Meg.		Q11-239	AM-83	Height control
B	Shaft		Not Req.	KSS-3 #	Attach to R4A per instructions
R5A	5000Ω		VC-12120	AM-19-5	Vert. linearly control
B	Shaft		Not Req.	KSS-3 #	Attach to R5A per instructions
R6	15000		VC-12122	SVS-928	Focus control-Wire Wound

* Additional parts to be used with "Concentritik".
File slot in shaft to duplicate original.

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		MECK PART No.	IRC PART No.	
R7	1000Ω 10%		BTS-1000	RF Grid
R8	4700Ω 10%			RF Screen
R9	270KΩ		BTS-270K	Conv. Coil Shunt
R10	15KΩ			Conv. Plate
R11	22KΩ			Osc. Grid
R12	4700Ω 10%			Osc. Plate
R13	100Ω			Decoupling
R14	100Ω			Decoupling-See Note 1
R15	8200Ω			1st Video IF Grid
R16	82Ω			1st Video IF Cathode
R17	100Ω			1st Video IF Decoupling
R18	330Ω			AGC Network
R19	22KΩ			2nd Video IF Grid
R20	82Ω			2nd Video IF Cathode
R21	100Ω			2nd Video IF Decoupling
R22	1 Meg.			AGC Network
R23	8200Ω			3rd Video IF Coil Shunt
R24	82Ω			3rd Video IF Cathode
R25	100Ω			3rd Video IF Decoupling
R26	680KΩ			AGC Rect. Diode Load
R27	39KΩ			Voltage Divider
R28	1000Ω			Bias Network
R29	8200Ω			Video Det. Diode Load
R30	120Ω			Parasitic Supp.
R31	27KΩ			Video Amp. Plate-See Note 2
R32	22KΩ			Video Amp. Screen-See Note 3
R33	22KΩ			Voltage Divider
R34	5600Ω			Voltage Divider
R35	2200Ω			Picture Tube Grid
R36	270KΩ			DC Rest. Load
R37	47KΩ			DC Rest. Load-See Note 1
R38	820KΩ			Voltage Divider-See Note 4
R39	1 Meg.			Sync. Sep. Grid-See Note 1
R40	3900Ω			Sync. Sep. Cathode
R41	3900Ω			Sync. Sep. Plate-See Note 5
R42	4700Ω			Sync. Sep. Plate-See Note 1
R43	3900Ω			Sync. Sep. Plate
R44	1000Ω			Acc. Anode Decoupling
R45	220KΩ			Voltage Divider
R46	10KΩ			Voltage Divider
R47	47KΩ			Sound IF Grid-See Note 6
R48	1000Ω			Sound IF Cathode
R49	39KΩ			Sound IF Screen
R50	1000Ω			Sound IF Decoupling
R51	12KΩ			Voltage Divider
R52	6800Ω			Ratio Det. Diode Load
R53	6800Ω			Ratio Det. Diode Load
R54	15KΩ			De-emphasis
R55	470KΩ			AF Amp. Grid
R56	330KΩ			AF Amp. Plate
R57	100KΩ			Output Grid
R58	330KΩ 5%			Voltage Divider

RESISTORS (CONT.)

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		MECK PART No.	IRC PART No.	
R59	180KΩ 5%		BTS-180K-5%	Voltage Divider
R60	4700Ω		BTS-4700	Voltage Divider
R61	470KΩ 10%		BTS-470KΩ	Voltage Divider
R62	390Ω		BTA-390	Filter
R63	22KΩ		BTS-22K	Integrator Network
R64	8200Ω		BTS-8200	Integrator Network
R65	8200Ω		BTS-8200	Integrator Network
R66	1 Meg.		BTS-1 Meg.	Vert. Osc. Grid-See Note 7
R67	1 Meg.		BTS-1 Meg.	Vert. Osc. Plate
R68	6.8 Meg.		BTS-6.8 Meg.	Voltage Divider
R69	100KΩ		BTS-100K	Voltage Divider
R70	560Ω		BTS-560	Vert. Amp. Cathode
R71	2.2 Meg.		BTS-2.2 Meg.	Vert. Amp. Grid
R72	6800Ω		BTS-6800	Vert. Amp. Decoupling-See Note 8
R73	3300Ω		BTS-3300	Vert. Peaking
R74	100KΩ		BTS-100K	Horiz. Phase Det. Load
R75	100KΩ		BTS-100K	Horiz. Phase Det. Load
R76	4.7 Meg.		BTS-4.7 Meg.	Horiz. Phase Det. Load
R77	27KΩ		BTS-27K	Feedback Network
R78	4700Ω		BTS-4700	Feedback Network
R79	470KΩ		BTS-470K	Horiz. AFC Filter Network
R80	1500Ω		BTS-1500	Horiz. Osc. Cathode
R81	5600Ω		BTS-5600	Horiz. Osc. Plate
R82	100KΩ		BTS-100K	Horiz. Osc. Grid
R83	220KΩ 10%		BTS-220K	Horiz. Osc. Plate-See Note 9
R84	22KΩ		BTA-22K	Filter
R85	56KΩ		BTS-56K	Decoupling
R86	68Ω			Parasitic Supp.
R87	1 Meg.		BTS-1 Meg.	Horiz. Output Grid
R88	82Ω		BW-1-82	Horiz. Output Cathode
R89	8200Ω		BT-2-8200	Horiz. Output Screen-See Note 11
R90	6000Ω 10%		DG-6000	Damper Filter-Wire Wound
R91	3.3Ω			HV Rect. Filament
R92	1 Meg.			HV Filter
R93	15Ω		BW-1-15	Bias Network
R94	270Ω		BW-2-270	Focus Coil Shunt-See Note 10
R95	22KΩ		BT-2-22K	Voltage Dropping-See Note 1

Note 1. Not used in all models.
Note 2. Some models use two 56KΩ, 2 watt resistors in parallel to obtain required resistance and wattage.
Note 3. Some models use a 43KΩ, 2 watt and a 56KΩ 2 watt resistors in parallel to obtain required resistance and wattage.
Note 4. Some models use a 1 Meg. resistor in this application.
Note 5. Some models use 27KΩ resistor in this application.
Note 6. Some models use 470KΩ resistor in this application.
Note 7. Some models use 680KΩ resistor in this application.
Note 8. Models using 16" picture tube use 2700Ω resistor in this application.
Note 9. Some models use 270KΩ resistor in this application.
Note 10. Some models use 330Ω resistor in this application.
Note 11. Models using 16" picture tube use 6900Ω resistor in this application.

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA		STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
		MECK PART No.	IRC PART No.			
T1	117VAC 1.7A	720VCT 200ADCT	5VAC 3A	TP-10003		

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING	REPLACEMENT DATA		NOTES
		MECK PART No.	STANCOR PART No.	
T2A	200Ω	TO-10020 ①	A-811 ④	Vert. Block Osc. Trans.
B	230Ω	TO-10022 ⑤	A-821 ④	Vert. Block Osc. Trans.
T3A	385Ω 13.6Ω	TO-10020 ⑥	A-828 ④	Hor. Output Trans.
	Tap ④ 125Ω			
B	295Ω	TO-10028 ⑦		Hor. Output Trans.
	Tap ④ 102Ω			
T4A	760Ω	TO-10021-D ⑩	A-8113 ④	Vert. Output Trans.
B	560Ω	TO-10021 ⑩	A-8116 ④	Vert. Output Trans.
T5A	140Ω	TO-10026	MD-3 ④	Vert. Deflection Coil
B	62Ω			Vert. Deflection Coil
T6	255Ω	TO-10025	FC-10	Focus Coil

① Drill one new mounting hole.
② Either T2A or T2B may be used in this application.
③ Used in 10" and 12" models.
④ Used in 16" models.
⑤ Drill new mounting holes.
⑥ Either T4A or T4B may be used.