

VIEW-RESISTOR IDENTIFICATION



DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 6 push-on type control knobs from the side.
2. Remove 6 metal screws and the rear cover.
3. Remove 2 metal screws and the handle.
4. Remove speaker leads, yoke plug and picture tube socket.
5. Place receiver front down on a pad.
6. Remove 2 chassis bolts from the bottom.
7. Tilt the chassis in to the left, out at the right and remove the HV lead.
8. Remove the chassis.
9. Remove 2 speaker nuts and the speaker.

CAUTION NOTE

ONE SIDE OF AC LINE CONNECTED TO CHASSIS
Care should be exercised when connecting test equipment or physically contacting the chassis.

SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

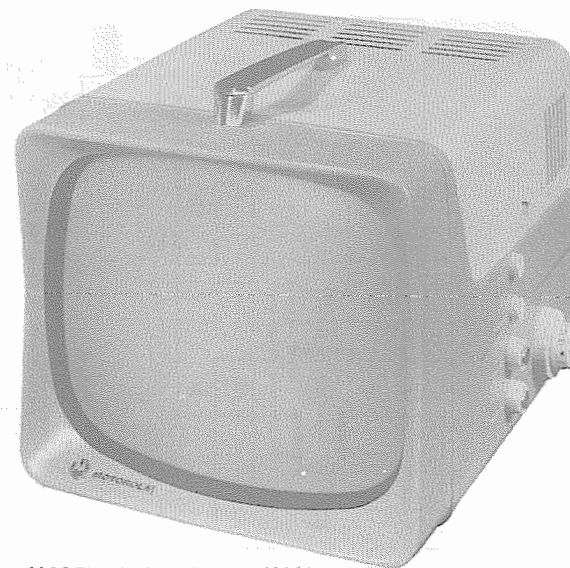
Touch-up adjustment of the VHF oscillator is possible by removing the channel selector and fine tuning knobs. Set the fine tuning at the center of its range. The adjustments (located in a circle around the shaft) should be made in sequence from the highest to the lowest channel in the area. Channel 13 adjustment is located at 3 o'clock, proceed in a counter clockwise direction adjusting for best picture and sound.

PICTURE TUBE SAFETY GLASS CLEANING

1. Remove 2 metal screws and the handle.
2. Remove 2 metal screws from the bottom along the front edge. NOTE: A special tool, Motorola part #66T742501 may be required.
3. Pull the bottom of the front out and swing up to remove.

FOCUS

The focus may be varied by the position of a strap on the



MODEL 14P4-1 (Ch. TS423A)

MODELS

CHASSIS

14P3-2, 14P4-1, 14P5-1, 14P5-2, 14P5-3	TS-423
14P4-1	TS-423A
Y14P3-2, Y14P4-1, Y14P5-1, Y14P5-2, Y14P5-3	TS-423Y
14P6-1, 14P7-1, 14P7-2, 14P8-1, 14P8-2	TTS-423
Y14P6-1, Y14P7-1, Y14P7-2, Y14P8-1, Y14P8-2	TTS-423Y
14P3-1	WTS-423
Y14P3-1	WTS-423Y

base of the picture tube. The strap can be connected between pins 6 and 10 or 6 and 1. Readjust the ion trap for the best focus consistent with maximum brightness.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Set the horizontal hold control at the center of its range and adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.

FUSES

A 3Ω fusible resistor (R88) is used for LV power supply protection. (For location, see tube placement chart).

CENTERING

Centering is accomplished mechanically by adjusting two magnetic rings around the neck of the picture tube. Rotate the two rings around the neck of the tube until the picture is properly centered.

MOTOROLA MODELS Y14P3-1, -2, Y14P4-1, Y14P5-1, -2, -3, Y14P6-1, Y14P7-1, -2, Y14P8-1, -2, 14P3-1, -2, 14P4-1, 14P5-1, -2, -3, 14P6-1, 14P7-1, -2, 14P8-1, -2 (Ch. TS-423, A, Y, TTS-423, Y, WTS-423, Y)

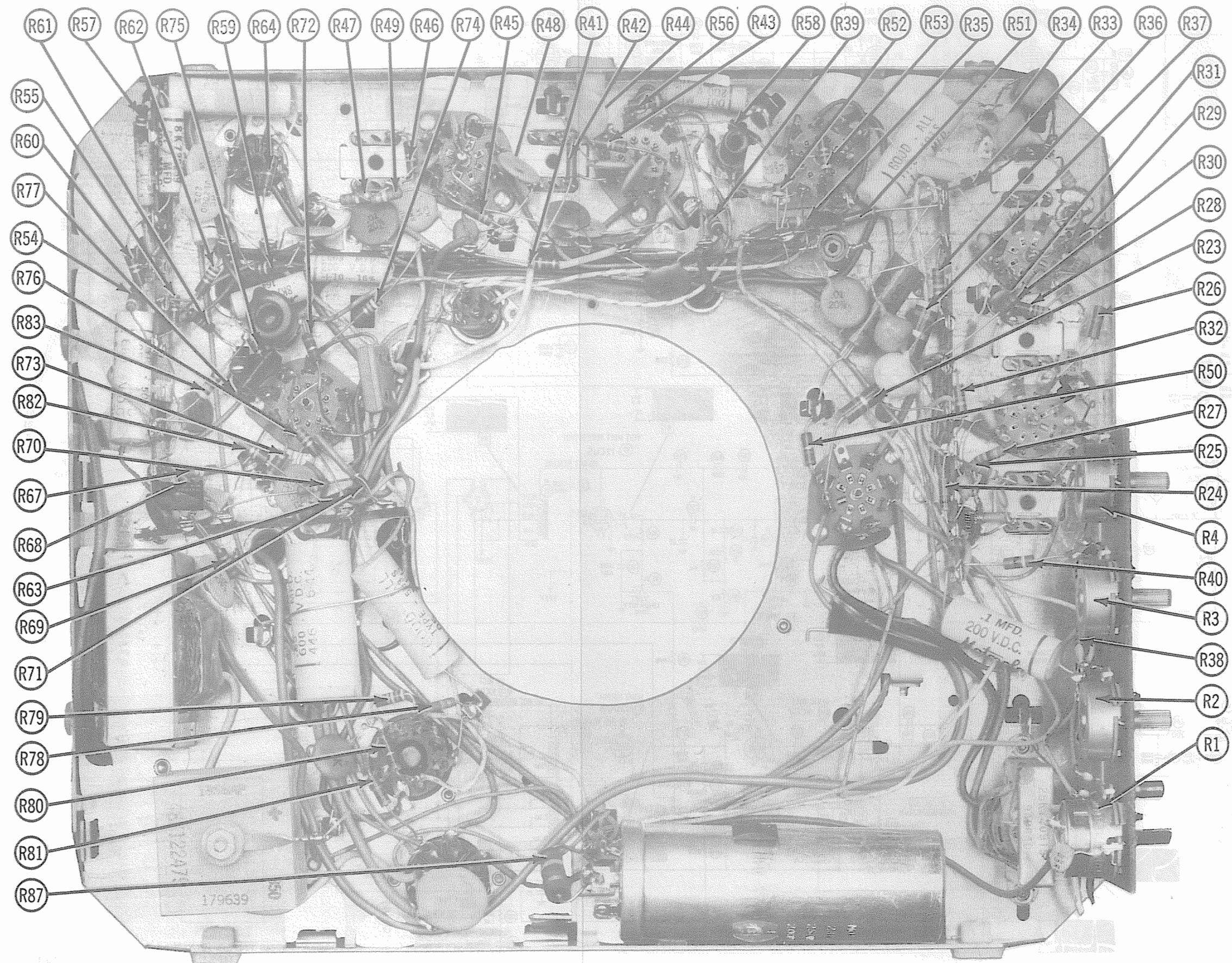
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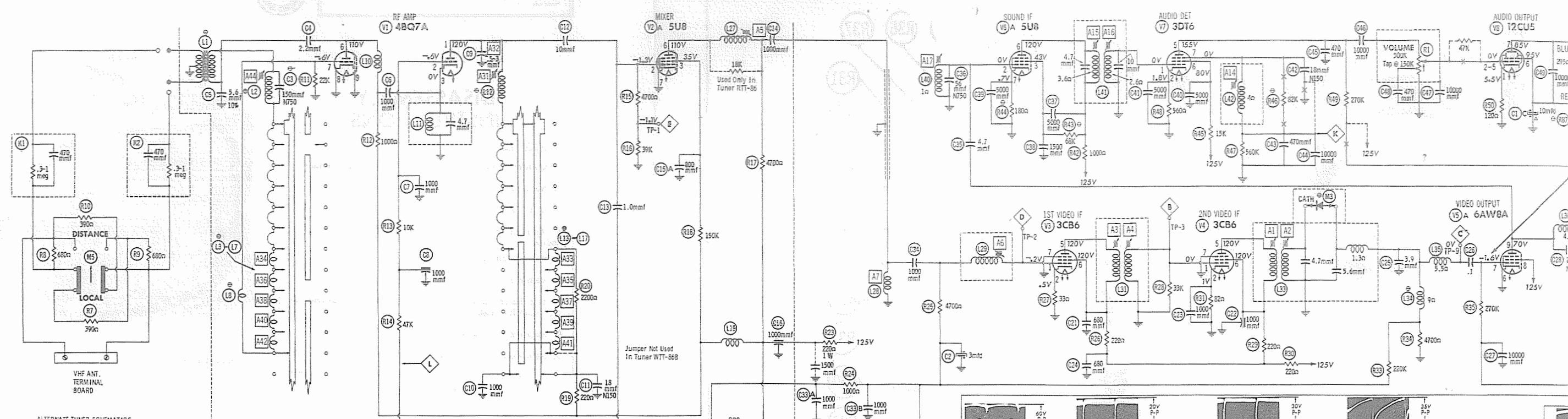
DATE 8-57

SET 366

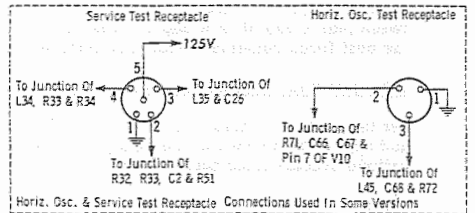
FOLDER 7



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION



ALTERNATE TUNER SCHEMATICS LOCATED ON PAGES 12, 13, & 14. ALTERNATE VIDEO IF CIRCUIT SCHEMATIC LOCATED ON PAGE 13.

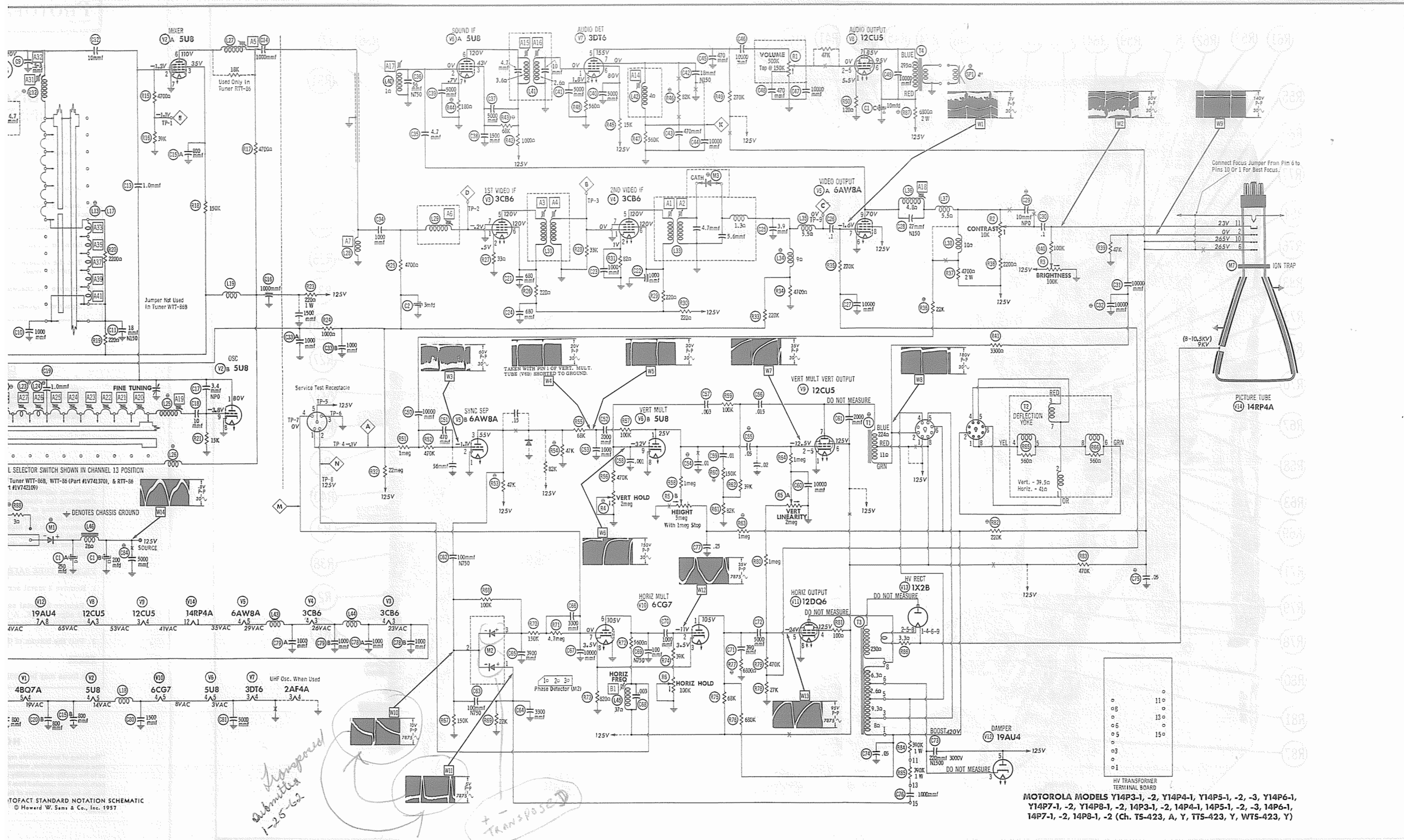


- SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
- DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM.
- ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM FRONT END)
- WAVE FORMS TAKEN WITH CONTROLS SET TO PRODUCE 50 VOLTS PEAK-TO-PEAK SIGNAL AT PICTURE TUBE
1. DC voltage measurements taken with vacuum tube voltmeter; AC voltage measured at 1,000 ohms per volt.
 2. Pin numbers are omitted 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. All controls set for normal operation; no signal applied.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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*Submerged
1-25-62*

+ TRANSPOSED



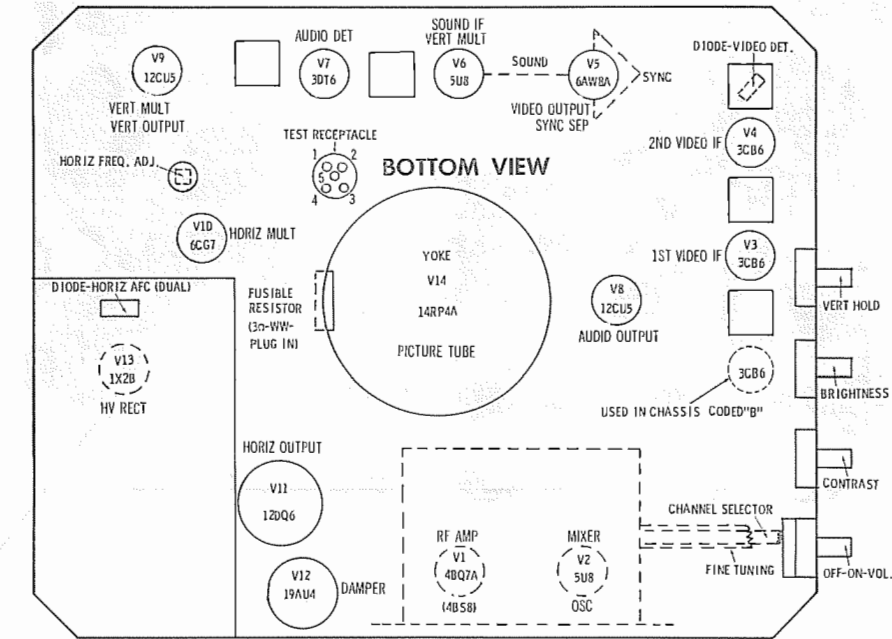
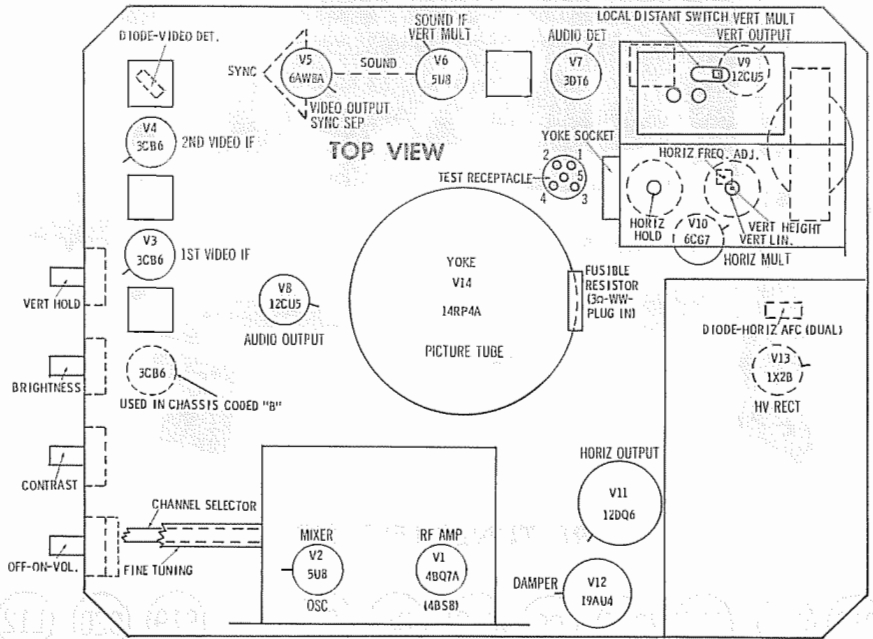
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RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	4BQ7A	† 460Ω	250K	1Ω	4.5Ω	5.5Ω	† 1400Ω	22K	0Ω	0Ω
V2	5U8	† 3500Ω	40K	† 150K	4.5Ω	3.5Ω	† 4900Ω	0Ω	0Ω	15K
V3	3CB6	150K	33Ω	5.5Ω	6.5Ω	† 460Ω	† 460Ω	0Ω		
V4	3CB6	.1Ω	82Ω	6.5Ω	7.5Ω	† 460Ω	† 460Ω	0Ω		
V5	6AW8A	0Ω	1.7Meg	† 47K	8.5Ω	7.5Ω	0Ω	300K	† 26Ω	† 3000Ω
V6	5U8	• † 2.7meg	1Ω	† 69K	2Ω	1Ω	† 1000Ω	180Ω	0Ω	• 950K
V7	3DT6	2.6Ω	560Ω	1Ω	0Ω	† 490K	† 15K	560K		
V8	12CU5	120Ω	0Ω	12Ω	14Ω	0Ω	† 6800Ω	† 7100Ω		
V9	12CU5	0Ω	• 1.8Meg	12Ω	10Ω	• 1.8Meg	† 26Ω	† 260Ω		
V10	6CG7	† 68K	• 130K	820Ω	3.5Ω	2Ω	† 5600Ω	5Meg	820Ω	0Ω
V11	12DQ6	TP	20Ω	TP	† 125Ω	• 380K	TP	17Ω	0Ω	TOP CAP † 6Ω
V12	19AU4	NC	NC	†	NC	† 26Ω	TP	17Ω	14Ω	
V13	1X2B	PINS 1 THRU 9 HAVE INFINITE RESISTANCE								TOP CAP † 235Ω
V14	14RP4A	8.5Ω	47K	PIN 6 † 180K	PIN 10 † 180K	PIN 11 • 110K	PIN 12 10Ω			

† MEASURED FROM OUTPUT OF M1.
† MEASURED FROM PIN 3 OF V12.
• THIS READING WILL VARY, CONTROL SET FOR NORMAL OPERATION.
† THIS READING CAN VARY GREATLY, (10K MINIMUM), DUE TO THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.
NC NO CONNECTION
TP TIE POINT

TUBE PLACEMENT CHART



TUBE PLACEMENT CHART

TUBE FAILURE CHECK CHART

The following chart lists tubes whose failures are most likely to produce the indicated symptoms. Refer to tube placement chart for location and type of tube.

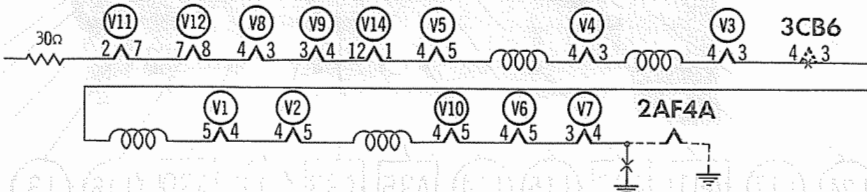
POWER SUPPLY FAILURE
No raster, no sound - Fusible Resistor (R88), Rectifier (M1)

LOSS OF PICTURE OR SOUND
No pic, no sound, has raster - V3, V4, Diode (M3), V5, 3rd. Video IF (3CB6) "B" Coded
No pic, no sound, has snow - V1, V2
No pic, has sound, has raster - V5, V14
Has pic, no sound - V6, V7, V8

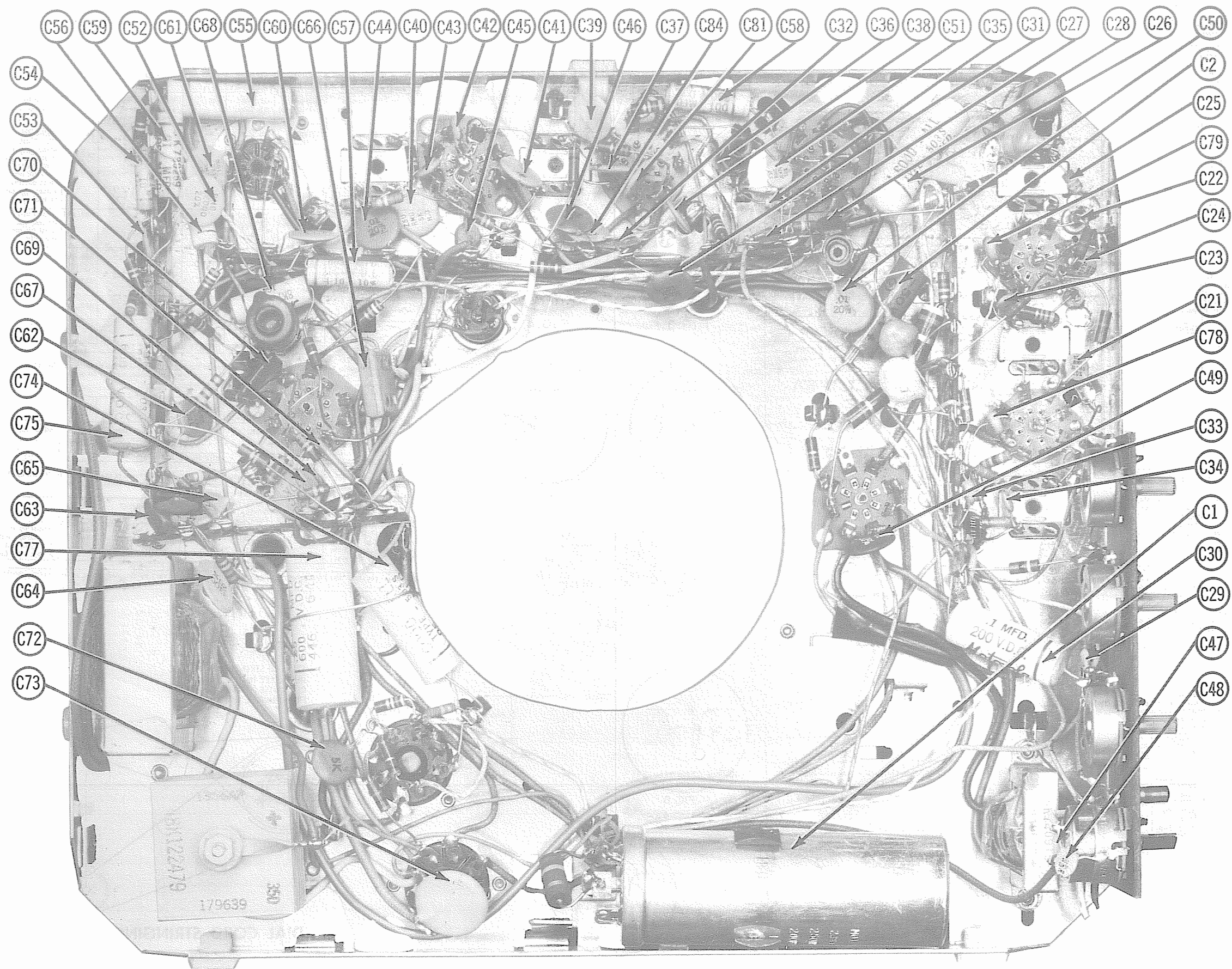
SYNC FAILURE
No vert. sync - V5
No horiz. sync - V5, Diode (M2)
No vert. or horiz. sync - V5

SWEEP FAILURE
No raster, has sound - Diode (M2), V10, V11, V12, V13, V14
No vertical deflection - V6, V9
Poor vert. linearity or foldover - V6, V9
Poor horiz. linearity or foldover - V10, V11, V12
Narrow picture - V10, V11, V12, Rectifier (M1)
Vert. off freq. - V6, V9
Horiz. off freq. - V10

This receiver employs tubes used in a series filament network, an open filament in any tube in the series will cause the set to be inoperative. (See circuit below).



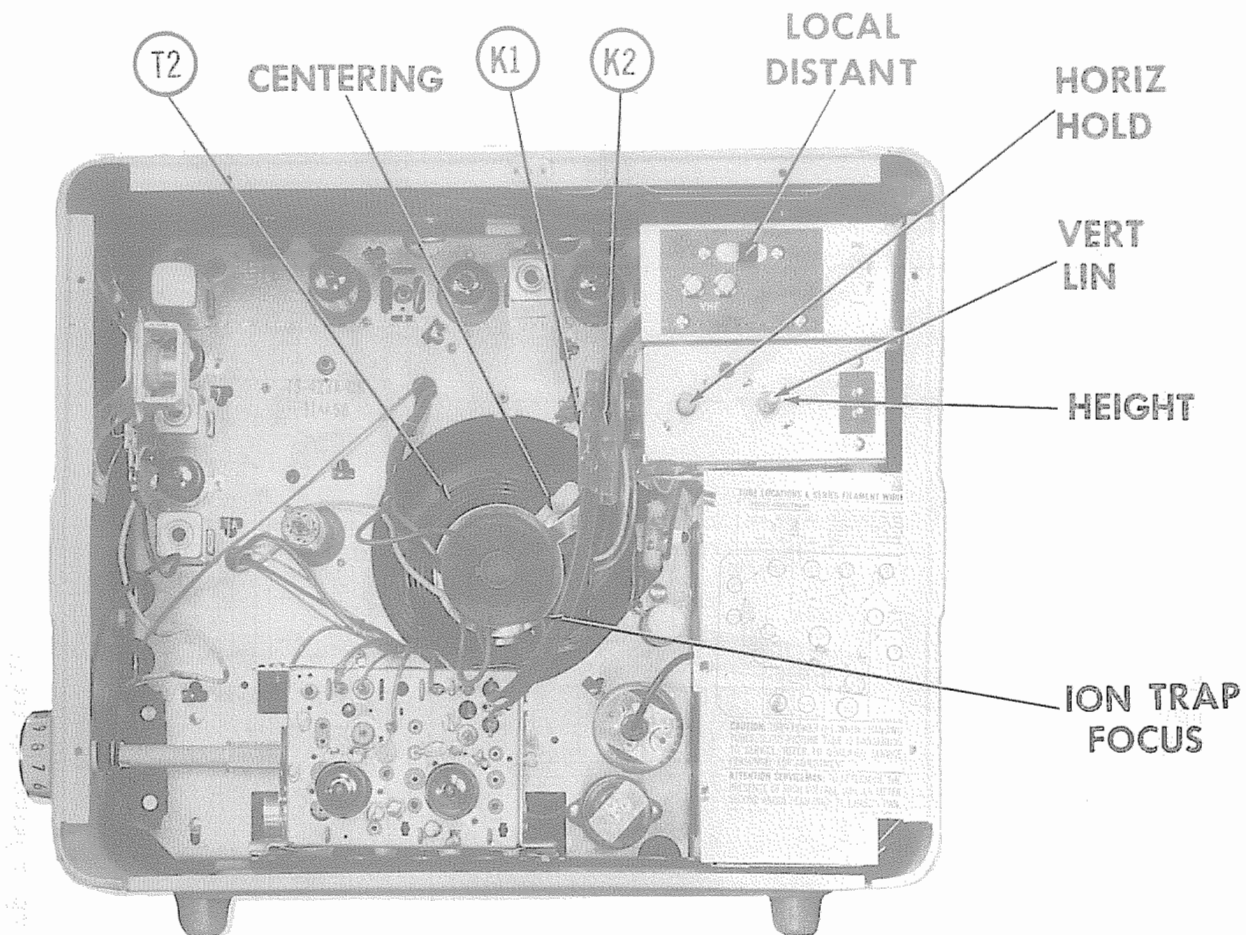
MOTOROLA MODELS Y14P3-1, -2, Y14P4-1, Y14P5-1, -2, -3, Y14P6-1, Y14P7-1, -2, Y14P8-1, -2, 14P3-1, -2, 14P4-1, 14P5-1, -2, -3, 14P6-1, 14P7-1, -2, 14P8-1, -2 (Ch. TS-423, A, Y, TTS-423, Y, WTS-423, Y)



MOTOROLA MODELS Y14P3-1, -2, Y14P4-1, Y14P5-1, -2, -3, Y14P6-1, Y14P7-1, -2, Y14P8-1, -2, 14P3-1, -2, 14P4-1, 14P5-1, -2, -3, 14P6-1, 14P7-1, -2, 14P8-1, -2 (Ch. TS-423, A, Y, YTS-423, Y, WTS-423, Y)

CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION

SET 366 FOLDER 7



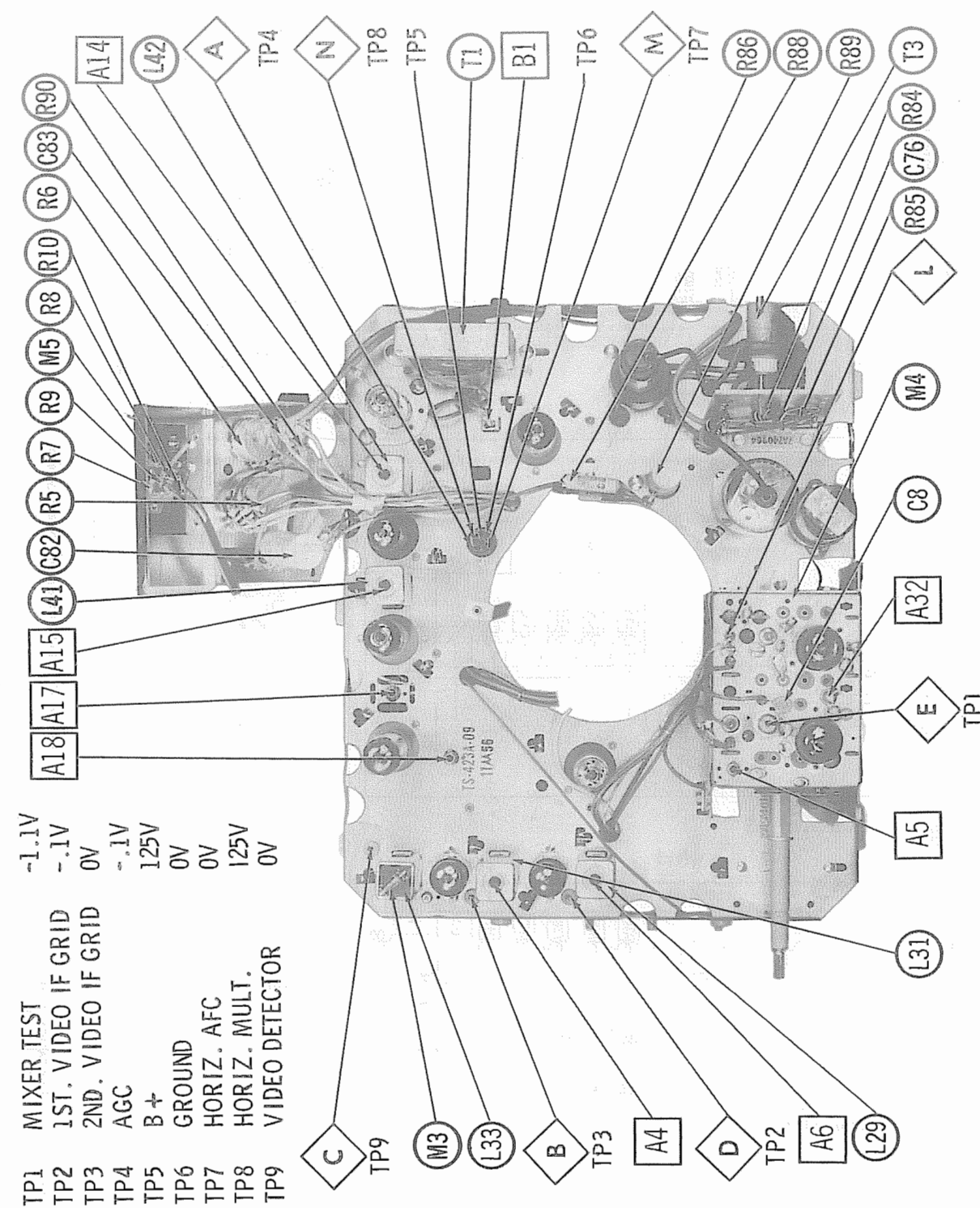
CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

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

Adjust the brightness and contrast controls for a normal picture.

1. Connect a piece of wire from point \diamond to chassis, thereby grounding the AFC circuit.
2. Connect a .1MFD 400 volt capacitor from point \diamond to chassis thereby shorting the horizontal frequency coil.
3. Adjust the horizontal hold control to the point where the picture remains stable horizontally.
4. Remove the capacitor from point \diamond and adjust the horizontal frequency slug (B1) to the point where the picture again remains stationary horizontally.
5. Remove the short from point \diamond and adjust the horizontal hold control until the picture remains in sync over 30 degrees of its range when switching off channel and back again.



CHASSIS TOP VIEW

MOTOROLA MODELS V14P3-1, -2, V14P4-1, V14P5-1, -2, -3, V14P6-1, V14P7-1, -2, V14P8-1, -2, 14P9-1, -2, 14P10-1, 14P11-1, 14P12-1, 14P13-1, 14P14-1, 14P15-1, 14P16-1, 14P17-1, -2, 14P18-1, -2 (Ch. 15-423, A, V, 115-423, V, 115-423, V)

COMPONENT COMBINATIONS

RECTIFIERS

① Selenium type.	④ Germanium type.
② Used in Chassis Coded "A".	⑤ Two (2) required.
③ Alternate part used in Chassis Coded "B".	

MISCELLANEOUS

CABINETS & CABINET PARTS

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

UHF ANT.
TERMINAL
BOARD

.33mmf

1mmf

1.5mmf

1.2-3.3 mmf

Crystal Mixer

CATH

1mmf

.22 mmf

33mmf

TEST POINT

1000 mmf

TEST POINT

UHF OSC
2AF4A

10mmf

1000mmf → UHF Tuner B+

7 1

2-6

5 4 3

2.5-6mmf

180Ω

Gimnick

1000mmf → (Filament String)
To Pin 4
Of V7

12K

UHF Tuner Part #77K742138 Used With VHF Tuner:
VTT-84Y., WTT-85Y & RTT85Y.

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ALTERNATE VIDEO IF CIRCUIT

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	RF Amplifier	4B0TA	Note 1	V8	Audio Output	12CU5	
V2	Mixer-Oscillator	5UB		V9	Vert. Mult. -Vert. Output	12CU5	
V3	1st. Video IF Amplifier	3CB6		V10	Horiz. Mult.	6CG7	
V4	2nd. Video IF Amplifier	3CB6		V11	Horiz. Output	12DQ6	
V5	Video Output-Sync Sep.	6AW8A		V12	Damper	19AU4	
V6	Sound IF-Vert. Mult.	5UB		V13	HV Rectifier	1X2B	
V7	Audio Detector	3DT6					

Note 1. In some versions a 4BS8 may be used.

PICTURE TUBE

ITEM No.	REPLACEMENT DATA	NOTES
	MOTOROLA PART No.	SYLVANIA PART No.
V14	14RP4A ① 14RP4	14RP4A ② 14RP4

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA	NOTES
	CAP. VOLT.	MOTOROLA PART No.	AEROVOX PART No.
C1A	250	23B740590	PR3-012
C1B	200		
C1C	150		
C2	50	23A090543	SRE50V2

FIXED CAPACITORS

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

ITEM No.	RATING	REPLACEMENT DATA	NOTES
	CAP. VOLT.	MOTOROLA PART No.	AEROVOX PART No.
C3	150	21R124608	N750-SI 150
C4	2.2	21R115948	NPD-SI 2.2
C5	5.6	21A732738	
C6	1000	21R115386	BPD-001
C7	1000	21R115386	BPD-001
C8	1000	21A739920	EF-001
C9	5-3	21K735085	
C10	1000	21R115386	BPD-001
C11	18	21R120578	
C12	10	21R124579	BPD-00001
C13	1.0	21R14071	NPD-SI 1.0
C14	1000	21R115386	BPD-001
C15A	800	21R400943	BPD-2X001
C15B	800		
C16	1000	21A739920	EF-001
C17	5.4	21R124489	NPD-SI 3.3
C18	10	21R12470	BPD-00001
C19	1.0	21R124552	NPD-SI 1.0
C20A	800	21R400943	BPD-2X001
C20B	800		
C21	680	21R40124	BPD-00068
C22	1000	21A737426	BPD-001
C23	1000	21R115386	BPD-001
C24	680	21R40124	BPD-00068
C25	3.9	21R115953	
C26	1	21R121573	P288N-1
C27	10000	21R482726	BPD-01
C28	27	21R119886	
C29	10	21R124579	NPD-SI 10
C30	1	21R121573	P288N-1
C31	10000	21R121946	BPD-01
C32	10000	21R121946	BPD-01
C33A	1000	21R400937	BPD-2X001
C33B	1000		
C34	1000	21R40127	BPD-001
C35	4.7	21R115954	NPD-SI 4.7
C36	56	21R124472	N750-SI 56
C37	5000	21K125403	BPD-005
C38	1500	21K122498	BPD-005
C39	5000	21K125403	BPD-005
C40	5000	21K125403	BPD-005
C41	5000	21K125403	BPD-005
C42	18	21R120578	
C43	470	21K121797	BPD-00047
C44	10000	21R121946	BPD-01
C45	470	21R40121	BPD-00047
C46	10000	21R121946	BPD-01
C47	10000	21R121946	BPD-01
C48	470	21R40121	BPD-00047
C49	10000	21R121946	BPD-01
C50	10000	21R482726	BPD-01
C51	470	21R125402	BPD-00047
C52	2000	21R125165	BPD-002
C53	1000	21R40127	BPD-001
C54	.01		
C55	.05	8R121567	BPD-05
C56	.015	8R122256	BPD-01
C57	.003	8K740911	BPD-003
C58	.001	8K740910	BPD-001
C59	.01	8K739258	BPD-01
C60	10000	21R121946	BPD-01
C61	2000	21R125165	BPD-002
C62	100	21R400537	N750-SI 100
C63	100	21R400537	N750-SI 100
C64	3300	21R120422	BPD-003
C65	3300	21K125162	BPD-004
C66	3300	21R120422	BPD-003
C67	10000	21R482726	BPD-01
C68	.003	8K740911	BPD-003
C69	100	21R400537	N750-SI 100
C70	1000	21R6663	1464-1000
C71	390	21B735757	1464-00039
C72	5000	21R115312	BPD-005
C73	220	21R125168	
C74	.05	8R122185	BPD-05
C75	.05	8R122185	BPD-05
C76	1000	21R115386	BPD-001
C77	.25	8R122264	P688N-25

PARTS LIST AND DESCRIPTIONS
CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA	NOTES
	CAP. VOLT.	MOTOROLA PART No.	AEROVOX PART No.
C78A	1000	21R400937	BPD-2X001
C78B	1000	21R400937	BPD-2X001
C80	1500	21K122498	BPD-0015
C81	5000	21R115312	BPD-005
C82	25		P488N-25
C83	1500	21R115312	BPD-005
C84	5000		

- ① Chassis coded "A-11" and higher use a 15MMF in this application.
- ② Not used in Chassis TS-423B and TTS-423B.
- ③ In chassis coded "A-03" an .05MFD paper tube ④ 800V (part #8R122185) is used.
- ⑤ Not used in a chassis with a coding lower than "A-09".
- ⑥ Chassis coded lower than "A-09" use an .02MFD (Part #21R121566) in this application.
- ⑦ Some versions use an .01MFD in this application.
- ⑧ Not used in a chassis with a coding lower than "A-02".
- ⑨ Not used in some versions.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA	INSTALLATION NOTES
	RESISTANCE WATTS	MOTOROLA PART No.	CENTRALAB PART No.
R1A	500K	18A740790	BT-67
B	Shaft		Not Req.
C	Switch		ICB-1
R2A	10K	18K741213	B-14
B	Shaft		Not Req.
R3A	100K	18C740680	B-40
B	Shaft		Not Req.
R4A	2Meg	18K740682	B-75
B	Shaft		Not Req.
R5A	2Meg	18B741520	FI-67
B	5Meg		R2-83
R6A	100K	18K741521	AB-40
B	Shaft		AK-19

* Use extra mounting nut behind panel.

* Concentric Equivalent, K-5 Kit, Base Elements & Shafts, B11-139, P9-021 (Panel) B11-141, R11-028 (Rear)

* Use 1Meg resistor in series with the right hand terminal.

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA	NOTES
	OHMS WATT	MOTOROLA PART No.	IRC PART No.
R7	390K	6R5554	BTS-390
R8	680K	6R6040	BTS-680
R9	680K	6R6040	BTS-680
R10	390K	6R5554	BTS-390
R11	22K	6R6028	BTS-22K
R12	1000K	6R6229	BTS-100K
R13	10K	6R6054	BTS-10K
R14	47K	6R6056	BTS-47K
R15	4700K	6R6039	BTS-4700
R16	39K	6R6487	BTS-39K
R17	4700K	6R6039	BTS-4700
R18	150K	6R6396	BTS-150K
R19	220K	6R3933	BTS-220
R20	2200K	6R6069	BTS-2200
R21	15K	6R2119	BTS-15K
R22	3300K	6R5561	BTS-3300
R23	220K	6R6389	BTA-220
R24	1000K	6R6301	BTS-4700
R25	4700K	6R6080	BTS-220
R26	220K	6R3933	BTS-220
R27	33K	6R2036	BTS-33
R28	33K	6R6410	BTS-33
R29	220K	6R3933	BTS-220
R30	220K	6R3933	BTS-220
R31	82K	6R2035	BTS-82
R32	22Meg	6R488158	
R33	220K	6R6015	BTS-4700
R34	4700K	6R6080	BTS-270K
R35	270K	6R6414	BTS-270K
R36	22K	6R6028	BTS-22K
R37	4700K	6R119928	BTS-4700
R38	2200K	6R6048	BTS-2200
R39	47K	6R6048	BTS-47K
R40	100K	6R6075	BTS-100K
R41	3300K	6R5581	BTS-3300
R42	1000K	6R6229	BTS-100K
R43	68K	6R6074	BTS-68K
R44	180K	6R5660	BTS-180
R45	15K	6R6477	BTS-15K
R46	82K	6R5644	BTS-82K
R47	560K	6R5697	BTS-560K
R48	560K	6R6291	BTS-560

Note 1. Chassis with a code lower than "A-09" use a 10K in this application.

Note 2. Chassis coded "B" use a 39K in this application.

Note 3. Chassis coded "B" use a 270K in this application.

Note 4. Not used in some versions.

Note 5. Some versions may use a 150K in this application.

Note 6. Chassis with a code lower than "A-09" use a 22K in this application.

Note 7. Chassis with a code lower than "A-09" use a 100K in this application.

Note 8. Chassis coded "B" use a 2.2Meg in this application.

Note 9. Chassis with a code lower than "A-02" use a 12K in this application.

Note 10. Chassis with a code lower than "A-06" use a 470K in this application.

Note 11. Some versions may use a 680K, 2W in this application.

Note 12. Some versions may use a 50K or 7.5K in this application.

(Manufacturer states to replace with a 5K (Part #17K742136)).

Note 13. Chassis coded "B" use a 25K, 15W in this application.

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA	NOTES
		MOTOROLA PART No.	Halldorson PART No.
T1	Vert. Output	25B741322-A	Z1900 ①②
T2A	Alt. Vert. Output	25B741322	Z1900 ①②
T2B	Yoke: Horiz. (24MH)	24D740942	DF610 ④⑤
T2C	(50K) Vert. (40MH)		MDF-92 ④⑤
T3	Yoke Rear Cover & Centering Device		235D ④⑤
	Yoke Clamp	48A721145	V-314
	Horiz. Output	42A736175	V-314
	Primary Coil	24C740969 ⑤	Y90F19/43 ④⑤
	Secondary Coil	24C740912	A-8147
		24B740941	A-8147
			26S75 ①②
			26S75 ①②
			Y-16 ④⑤
			Y-41 & NW1 ④
			YCI
			CLI

① Connect as auto transformer.

② Use 6 to 1 turns ratio.

③ Drill new mounting hole(s).

④ Connect same as original.

⑤ Use original rear cover and centering device.

⑥ Includes primary coil part #24C740912 and secondary coil part #24B740941.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA	NOTES
	PRI. SEC.	MOTOROLA PART No.	Halldorson PART No.
T4	3700K 3-4K	25K740915	Z1105 ①②
			A-2998
			A-3876 ②
			22545 ②
			S-12X
			① Tape taps on primary winding.
			② Drill one new mounting hole.

SPEAKER

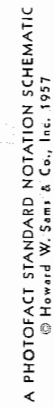
ITEM No.	TYPE	REPLACEMENT DATA	NOTES
	SIZE FIELD V. C. IMP.	MOTOROLA PART No.	QUAM PART No.
SPI	4" 4"	50D741021 ①	4A07
		50K742419 ②	4A07
			① Used in Models 14P3-1, -2, Y14P3-1, -2, 14P4-1, Y14P4-1, 14P5-1, -2, -3, Y14P5-1, -2, -3
			② Used in Models 14P6-1, Y14P6-1, 14P7-1, -2, Y14P7-1, -2, 14P8-1, -2, Y14P8-1, -2

COILS (RF-IF)

ITEM No.	USE	MOTOROLA PART No.	NOTES	ITEM No.	USE	MOTOROLA PART No.	NOTES
L1	Ant. Coll	24B740572 ①		L15	RF Coll	24K740465 ②	Channel 4
L2	40MC Trap	24B730500 ①④		L16	RF Coll	24K740465 ②	Channel 5
L3	Ant. Coll	24C740040 ①	Channel 2	L17	RF Coll	24K740465 ②	Channel 6
L4	Ant. Coll	24C740040 ①	Channel 3	L18	Flt. Choke	24K730391	
L5	Ant. Coll	24C740040 ①	Channel 4	L19	RF Choke	24K740842	
L6	Ant. Coll	24C740040 ①	Channel 5	L20	Osc. Coll	24C739381 ③	Channel 2
L7	Ant. Coll	24C740040 ①	Channel 6	L21	Osc. Coll	24C739382 ③	Channel 3
L8	Ant. Coll	24K739384 ①	Channel 13	L22	Osc. Coll	24C739383 ③	Channel 4
L9	Flt. Choke	24A740456		L23	Osc. Coll	24K739384 ③	Channel 5
L10	Neut. Coll	24A739397		L24	Osc. Coll	24K739385 ③	Channel 6
L11	Cath. Choke	24C741456	Includes 4.7 MMF Cap.	L25	Osc. Coll	24K739386 ③	Channel 13
				L26	RF Coll	24A739380 ③	
L12	RF Coll	24A739361 ②	Channel 13	L27	Mixer Plate Coll	24B740435	
L13	RF Coll	24K740465 ②	Channel 2				
L14	RF Coll	24K740465 ②	Channel 3				

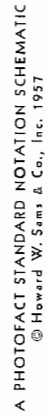
REPLACEMENT DATA

ITEM No.	USE
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VHF Tuner VTT-84 (Part #1V740763) & VTT-84Y (Part #1V740770)

VHF Tuner VTT-84 (Part #1V740763) & VTT-84Y (Part #1V740770)



VHF Tuner WTT-86Y (Part #1V741377) & RTT-86Y (Part #1V742127)

VHF Tuner WTT-86Y (Part #1V741377) & RTT-86Y (Part #1V742127)

MOTOROLA MODELS Y14P3-1, -2, Y14P4-1, Y14P5-1, -2, -3, Y14P6-1, Y14P7-1, -2, Y14P8-1, -2, 14P3-1, -2, 14P4-1, 14P5-1, -2, -3, 14P6-1, 14P7-1, -2, 14P8-1, -2 (Ch. TS-423, A, V, TTS-423, Y, WTS-423, Y)

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

USE AN ISOLATION TRANSFORMER TO PROTECT THE TEST EQUIPMENT.
Remove deflection yoke plug to eliminate interference from the horizontal sweep circuits.

VIDEO IF ALIGNMENT FOR TS-423 AND WTS-423 CHASSIS (NO CODE OR CODED "A")

Connect the negative lead of a 3 volt bias supply to point (A). Positive to chassis.
Disable tuner oscillator by grounding pin 9 (grid) of 5U8 (V2). Turn contrast control fully counter clockwise.
Connect the synchronized sweep voltage from the sweep 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.
Use only enough sweep generator output to provide a usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .005MFD	High side to point (B). Low side to chassis.	44MC (10MC Swp)	42.25MC 45.75MC	13	Vert. Amp. thru 47K to point (C). Low side to chassis.	A1, A2	Starting with slugs (A1 & A2) turned as far apart as possible (just entering coils), adjust for response similar to Fig. 1 with markers as indicated.
2. "	High side to point (D). Low side to chassis.	"	"	"	"	A3, A4	Starting with slugs (A3 and A4) turned as far apart as possible (slugs just entering coils), adjust for response curve similar to Fig. 2 with markers as indicated.
3. "	High side to point (E). Low side to chassis.	"	"	"	"	A5, A6, A7	Adjust A5 and A6 for response curve similar to Fig. 3 with markers as indicated. If markers exceed 50% on curve, adjust A7 by expanding coil turns to obtain desired response. Restore mixer-osc. (V2) to normal operation.

VIDEO IF ALIGNMENT FOR TS-423 AND WTS-423 CHASSIS (CODED "B")

Connect the negative lead of a 3 volt bias supply to point (D). Positive to chassis.
Disable tuner oscillator by grounding pin 9 (grid) of 5U8 (V2). Turn contrast control fully counter clockwise.
Connect the synchronized sweep voltage from the sweep 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.
Use only enough sweep generator output to provide a usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4. .001MFD	High side to point (E). Low side to chassis.	44MC (10MC Swp)	42.25MC 45.75MC	13	Vert. Amp. thru 47K to point (D). Low side to chassis.	A8	Adjust for maximum gain and correct 42.25MC marker position as in Fig. 4.
5. "	"	"	"	"	"	A9	Adjust for maximum gain and correct 45.75MC marker position as in Fig. 4.
6. "	"	"	"	"	"	A10	Adjust for flat response of curve (Fig. 4).
7. "	High side to point (F). Low side to chassis.	"	42.25MC 45.75MC	"	"	A11, A12	Adjust for maximum gain with markers as shown in Fig. 5.
8. "	"	"	41.25MC	"	"	A13	Adjust to place marker in trap notch as in Fig. 5. Restore mixer-osc. (V2) to normal operation.

SOUND IF ALIGNMENT (FOR STRONG SIGNAL AREAS)

Connect the DC probe of the VTVM to point (G). Common to chassis. Switch VTVM to measure negative voltage.
Connect the antenna and tune in a TV station. Turn contrast control fully clockwise.
Set the volume control to normal volume. Adjust A14 for maximum deflection on the VTVM. There are two points of adjustment which will produce a high indication. Use the one which produces the higher reading. After the correct tuning point has been located, make a final adjustment of A14 adjusting for MINIMUM sound distortion. Reduce the signal input, by removing the antenna connection or connecting an attenuator between the antenna lead and the antenna connection, until the picture has become considerably weakened. Adjust A15 and A16 for best signal to noise ratio as determined by ear. Make this adjustment by starting with the cores turned farthest apart (cores just entering coils).
Adjust A17 for best signal to noise ratio as determined by ear.
If necessary repeat complete sound alignment.

SOUND IF ALIGNMENT (FOR WEAK SIGNAL AREAS)

Connect the DC probe of the VTVM to point (G). Common to chassis. Switch the VTVM to measure negative voltage. Connect the antenna and tune in a TV station. Turn contrast control fully clockwise. Set volume control for normal volume.
Using the maximum available signal, make a rough adjustment of A13, A16, A17 and A14 for maximum deflection on VTVM. If two peaks appear, use one producing the highest reading on the VTVM.
Retouch A14 for MINIMUM sound distortion.
Using the weakest signal available, retouch A15, A16 and A17 for best signal to noise ratio.
If necessary, repeat above procedure several times.

4.5MC TRAP ALIGNMENT

Tune in a TV station (local) and advance the contrast control. Turn "Local-Distant" switch to distant position. Adjust the fine tuning until the 4.5MC beat interference can be seen in the picture. Adjust A18 to find the two points at which the sound beat is just noticeable in the picture. Adjust the core between these two points, using the least amount of inductance (the core furthest out of the coil), for no beat interference.

VHF OSCILLATOR ALIGNMENT

Connect a clip lead from point (H) to chassis.
Connect the synchronized sweep voltage from the sweep 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.
Adjust generator to provide .7 to 1 volt peak to peak pattern on the scope.
Set the fine tuning control to the center of its range.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
6. Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	213MC (10MC Swp)	211.25MC	13	Vert. Amp. thru 47K to point (H). Low side to chassis.	A19	Adjust to place video marker at 50% as in Fig. 6.
		207MC (10MC Swp)	205.25MC	12		A20	
		201MC (10MC Swp)	199.25MC	11		A21	
		195MC (10MC Swp)	193.25MC	10		A22	
		189MC (10MC Swp)	187.25MC	9		A23	
		183MC (10MC Swp)	181.25MC	8		A24	
		177MC (10MC Swp)	175.25MC	7		A25	
		85MC (10MC Swp)	83.25MC	6		A26	
		79MC (10MC Swp)	77.25MC	5		A27	
		69MC (10MC Swp)	67.25MC	4		A28	
		63MC (10MC Swp)	61.25MC	3		A29	
		57MC (10MC Swp)	55.25MC	2		A30	

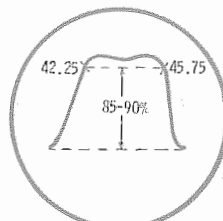


FIG. 1

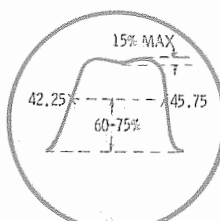


FIG. 2

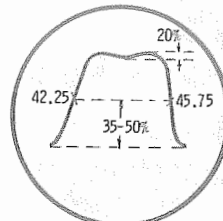


FIG. 3

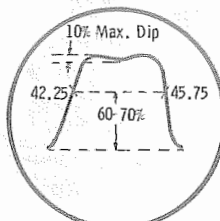


FIG. 4

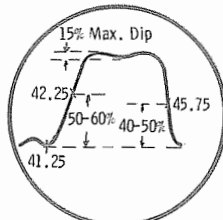


FIG. 5

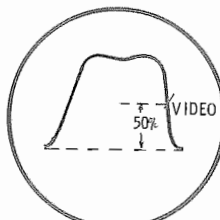


FIG. 6

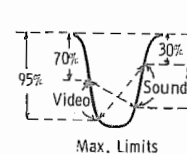


FIG. 7

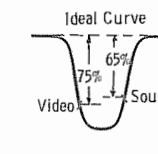


FIG. 8

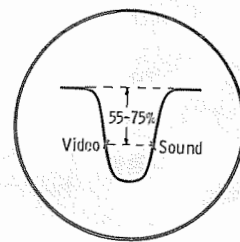


FIG. 9

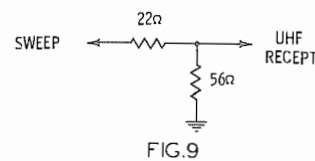


FIG. 10

VHF RF AND MIXER ALIGNMENT

Connect a clip lead from point (I) to chassis.
Connect the synchronized sweep voltage from the sweep 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.
Use only enough sweep generator output to provide a usable pattern on scope.
Preset A44 by turning clockwise until its effect is out of the tuner's bandpass on channel 2.
Preset A32 by turning until top of screw is approximately 1/4 inch above tuner chassis. This will place adjustment at center of its range.
Preset A31 to place slug approximately half way out of coil.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
10. Two 120Ω Carbon Resistors	Across VHF antenna terminals with 120Ω in each lead.	213MC (10MC Swp)	211.25MC 215.75MC	13	Vert. Amp. thru 47K to point (I). Low side to chassis.	A31	Adjust for maximum amplitude of response curve similar to Fig. 7.
11. "	"	177MC (10MC Swp)	175.25MC 179.75MC	7	"	A32	Adjust for response curve similar to Fig. 7 with markers as shown. Repeat steps 10 and 11 if necessary to obtain desired response. If markers fall too low on response curve of tuners VITB4 or VITB4Y, twist one lead of capacitor (A43) and adjust by compressing or expanding coil turn of this loop.
12. "	"	85MC (10MC Swp)	83.25MC 87.75MC	6	"	A33, A34	Adjust in sequence, first adjustment for proper marker position; second adjustment for maximum gain and proper tilt. (See Fig. 8).
13. "	"	79MC (10MC Swp)	77.25MC 81.75MC	5	"	A35, A36	"
14. "	"	69MC (10MC Swp)	67.25MC 71.75MC	4	"	A37, A38	"
15. "	"	63MC (10MC Swp)	61.25MC 65.75MC	3	"	A39, A40	"
16. "	"	57MC (10MC Swp)	55.25MC 59.75MC	2	"	A41, A42	"

IF TRAP ALIGNMENT

Connect a clip lead from point (J) to chassis.
Connect the synchronized sweep voltage from the sweep 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.
Adjust generator to provide .7 to 1 volt peak to peak pattern on the scope.
Set fine tuning control to the center of its range.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
17. Two 120Ω Carbon Resistors	Across VHF antenna terminals with 120Ω in each lead.	44MC (10MC Swp)	44MC	2	Vert. Amp. thru 47K to point (J). Low side to chassis.	A44	Adjust for MINIMUM amplitude.

UHF IF ALIGNMENT

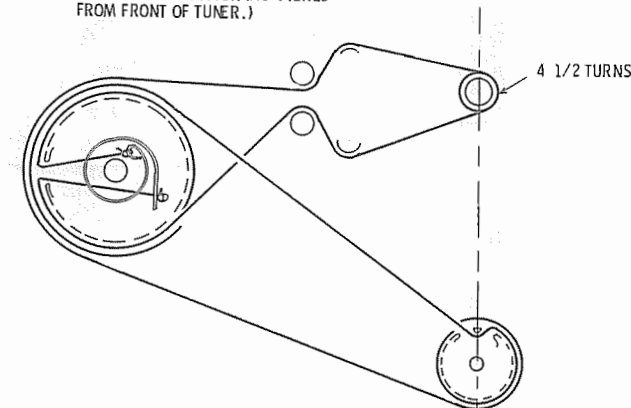
Unplug the UHF tuner's output cable from the VHF tuner.
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough sweep generator output to provide a usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
18. Fig. 9	High side thru matching network (Fig. 9) to UHF input receptacle. Low side to tuner chassis.	44MC (10MC Swp)	41.25MC 43.75MC	UHF	Vert. Amp. thru 47K to point (K). Low side to chassis.	A45, A46	Adjust by expanding or compressing coil turns. Adjust A45 for proper marker positions and A46 for maximum gain and proper tilt. (See Fig. 10).

UHF TUNER ALIGNMENT

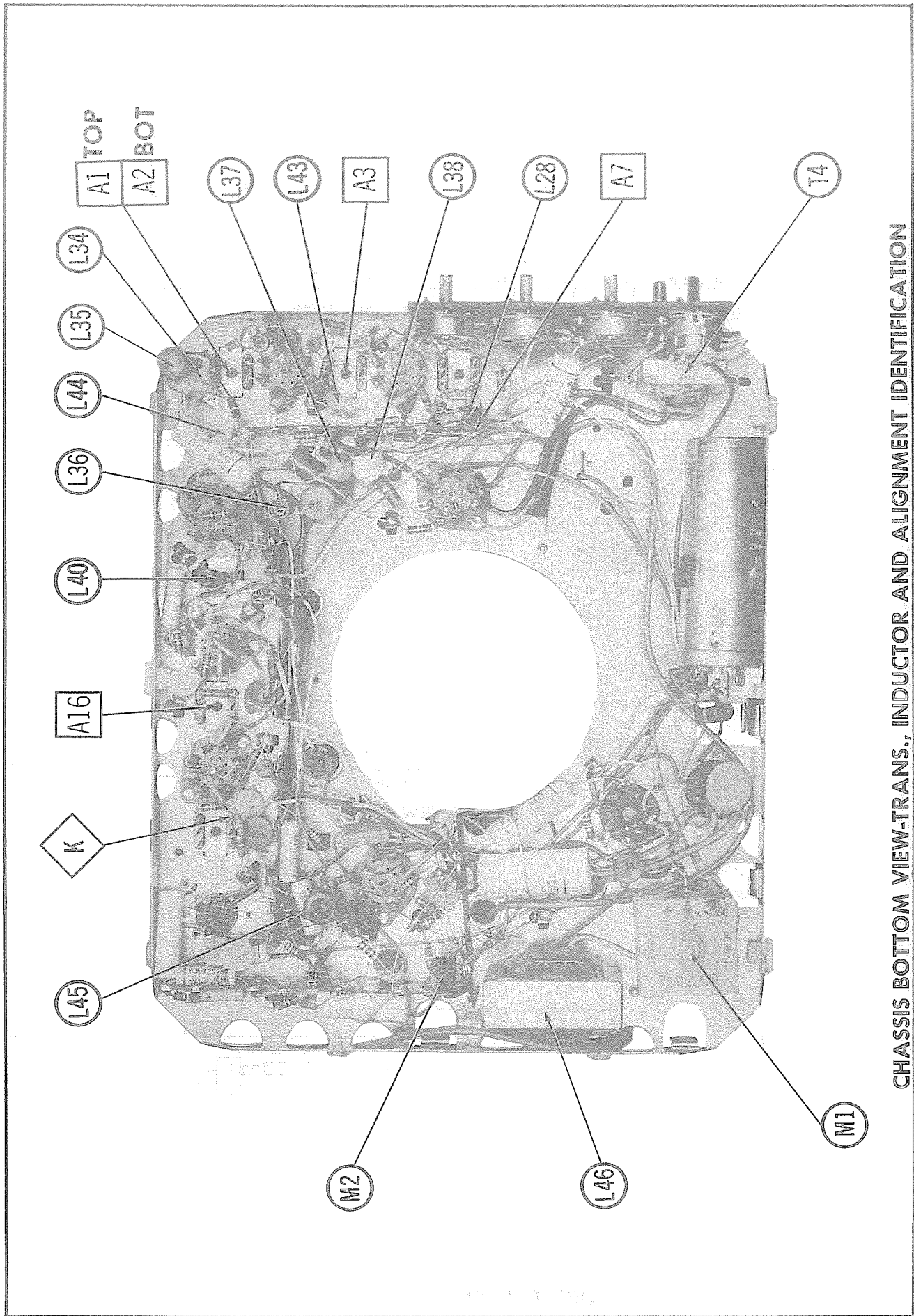
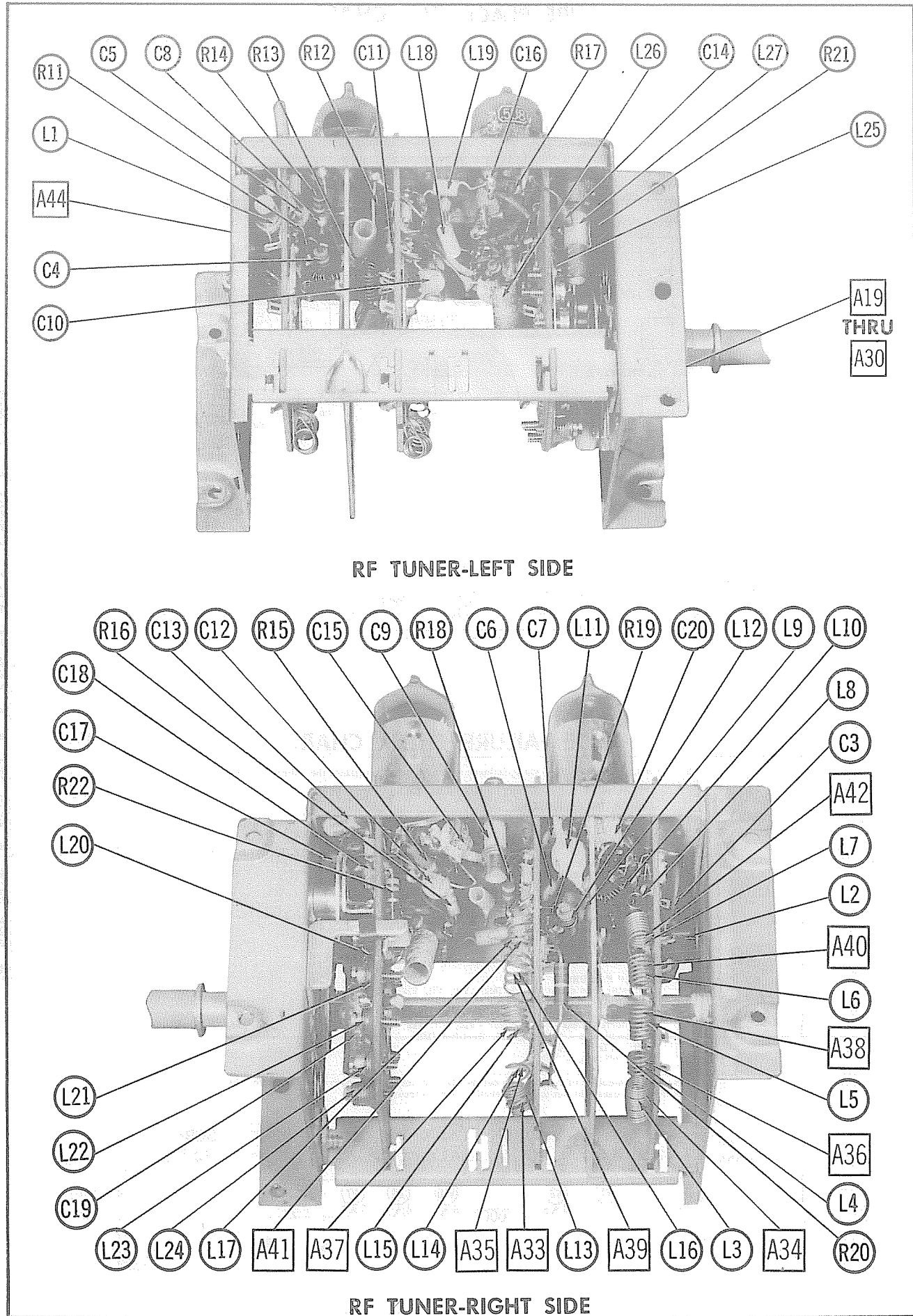
This portion of the receiver has been properly aligned at the factory and is very stable. Alignment of this portion should not be required in the field.

START RE-STRINGING WITH LARGE UHF PULLEY IN MAX. COUNTER-CLOCKWISE POSITION (AS VIEWED FROM FRONT OF TUNER.)



DIAL CORD STRINGING

MOTOROLA MODELS Y14P3-1, -2, Y14P4-1, Y14P5-1, -2, -3, Y14P6-1, Y14P7-1, -2, Y14P8-1, -2, Y14P9-1, -2, Y14P10-1, -2, -3, Y14P11-1, -2, Y14P12-1, -2, Y14P13-1, -2, Y14P14-1, -2, Y14P15-1, -2, Y14P16-1, -2, Y14P17-1, -2, Y14P18-1, -2, Y14P19-1, -2, Y14P20-1, -2, Y14P21-1, -2, Y14P22-1, -2, Y14P23-1, -2, Y14P24-1, -2, Y14P25-1, -2, Y14P26-1, -2, Y14P27-1, -2, Y14P28-1, -2, Y14P29-1, -2, Y14P30-1, -2, Y14P31-1, -2, Y14P32-1, -2, Y14P33-1, -2, Y14P34-1, -2, Y14P35-1, -2, Y14P36-1, -2, Y14P37-1, -2, Y14P38-1, -2, Y14P39-1, -2, Y14P40-1, -2, Y14P41-1, -2, Y14P42-1, -2, Y14P43-1, -2, Y14P44-1, -2, Y14P45-1, -2, Y14P46-1, -2, Y14P47-1, -2, Y14P48-1, -2, Y14P49-1, -2, Y14P50-1, -2, Y14P51-1, -2, Y14P52-1, -2, Y14P53-1, -2, Y14P54-1, -2, Y14P55-1, -2, Y14P56-1, -2, Y14P57-1, -2, Y14P58-1, -2, Y14P59-1, -2, Y14P60-1, -2, Y14P61-1, -2, Y14P62-1, -2, Y14P63-1, -2, Y14P64-1, -2, Y14P65-1, -2, Y14P66-1, -2, Y14P67-1, -2, Y14P68-1, -2, Y14P69-1, -2, Y14P70-1, -2, Y14P71-1, -2, Y14P72-1, -2, Y14P73-1, 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