

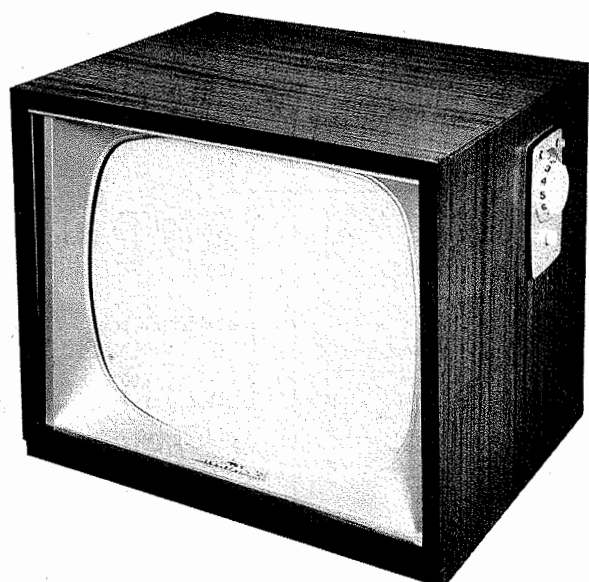
DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 3 push-on type knobs from the side.
2. Remove 2 wood screws holding the knob escutcheon and remove the remaining knobs.
3. Remove 6 wood screws holding the rear cover. Remove the rear cover.
4. Remove 2 wing nuts holding the speaker .
5. Remove 4 chassis bolts from the bottom, holding the chassis mounting board.
6. Remove the chassis.

CAUTION NOTE

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



821 Series

TRADE NAME	Muntz	MODELS	821 Series, 824 Series, 827 Series
MANUFACTURER	Muntz TV Inc., 1000 Grey Avenue, Evanston, Illinois		
TYPE SET	Television Receiver		
TUBES	Eleven		
POWER SUPPLY	110-120 Volts AC, 60 Cycle	RATING	125 Watts, 1.25 Amp. @ 117 Volts AC
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)		

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. One slug for HIGH band adjustment is located at 4 o'clock, and should be adjusted first. The LOW band adjustment is located at 9 o'clock. Adjust for best picture and sound.

PICTURE TUBE SAFETY GLASS CLEANING

Remove the wood screws holding the trim strip at the top edge of the safety glass. Tilt glass out at the top and lift up to remove.

FOCUS

The focus may be varied by the position of a strap on the base of the Picture Tube. The strap can be connected between pins 6 and 2, or 6 and 10. Readjust the Beam Alignment Magnet for the best focus consistent with maximum brightness.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENTS

For adjustment of the Horizontal Oscillator, it is necessary

to remove the rear cover and supply power to set. Set the Horizontal Hold at the center of its range and adjust the Horizontal Frequency slug (B1) until the picture synchronizes horizontally. (For location, see tube placement chart.)

SOUND IF DETECTOR BUZZ ADJUSTMENT

To eliminate intercarrier buzz, adjust the Discriminator secondary (A10) located on top of chassis.

FUSE DEVICE

A 5Ω fusible resistor (R77) is used for low voltage power supply protection. (For location, see tube placement chart.)

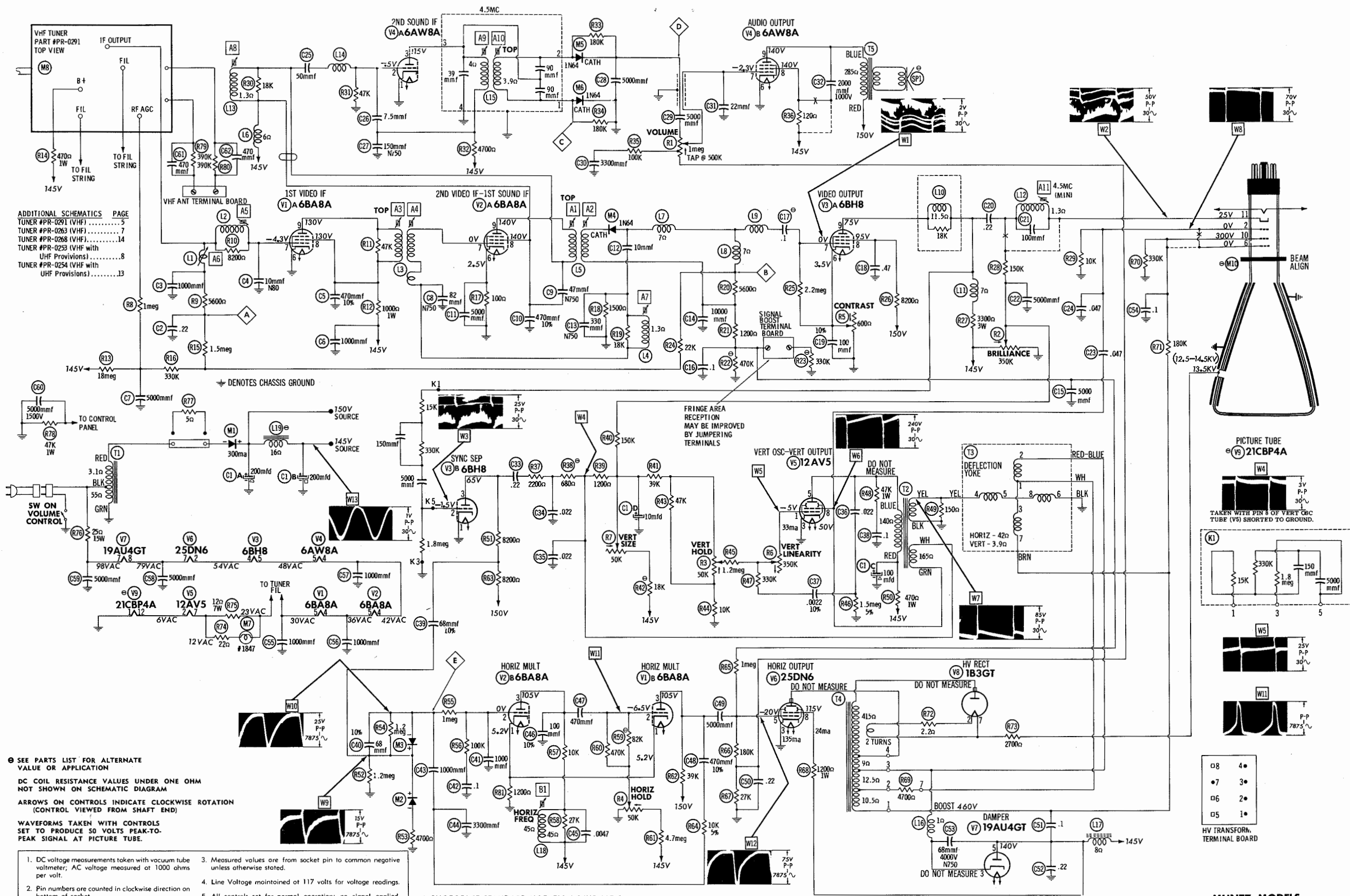
CENTERING

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.

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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MUNTZ MODELS
821 Series, 824 Series, 827 Series

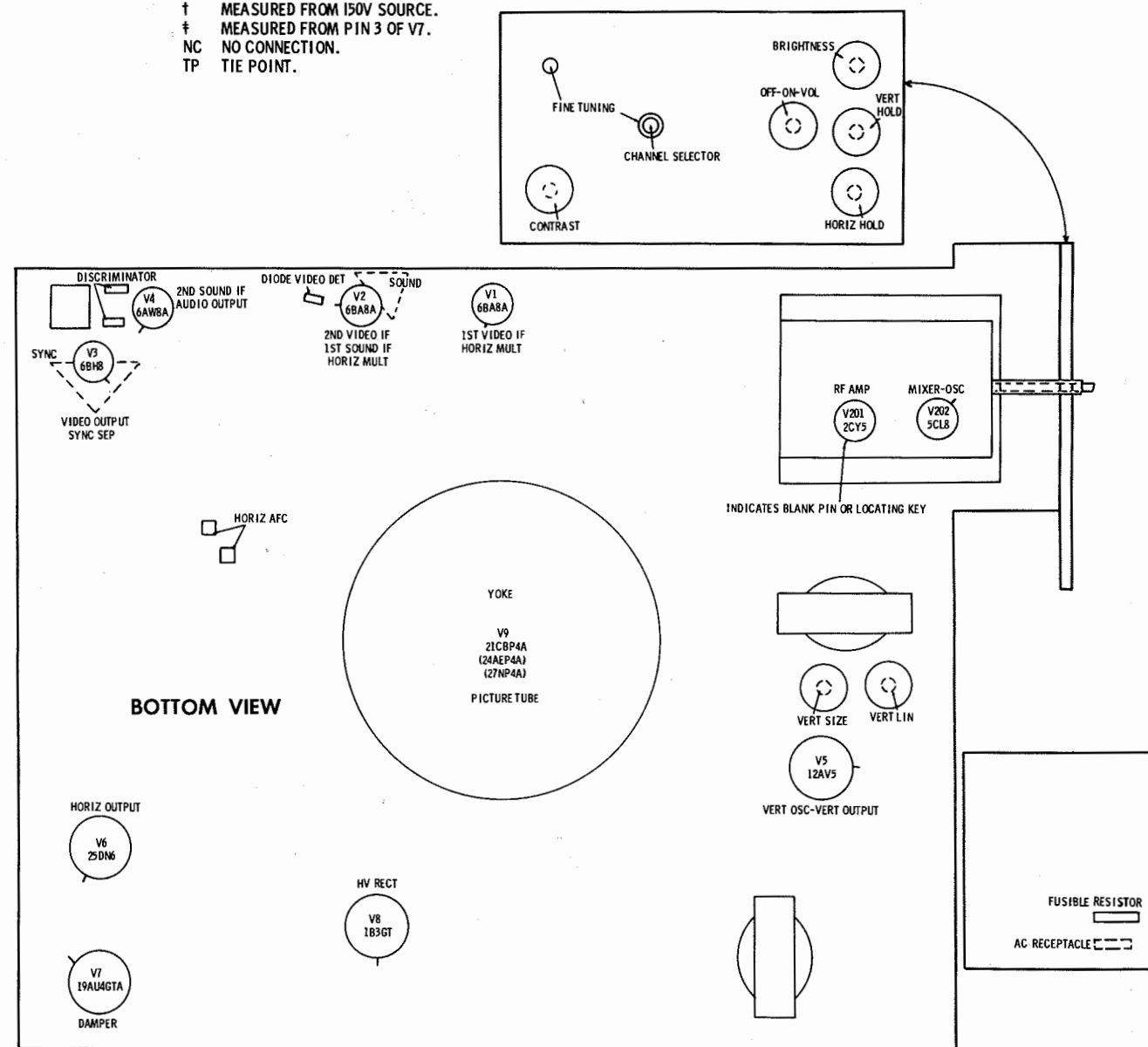
MUNTZ MODELS
821 Series, 824 Series, 827 Series

FOLDER 2

RESISTANCE MEASUREMENTS

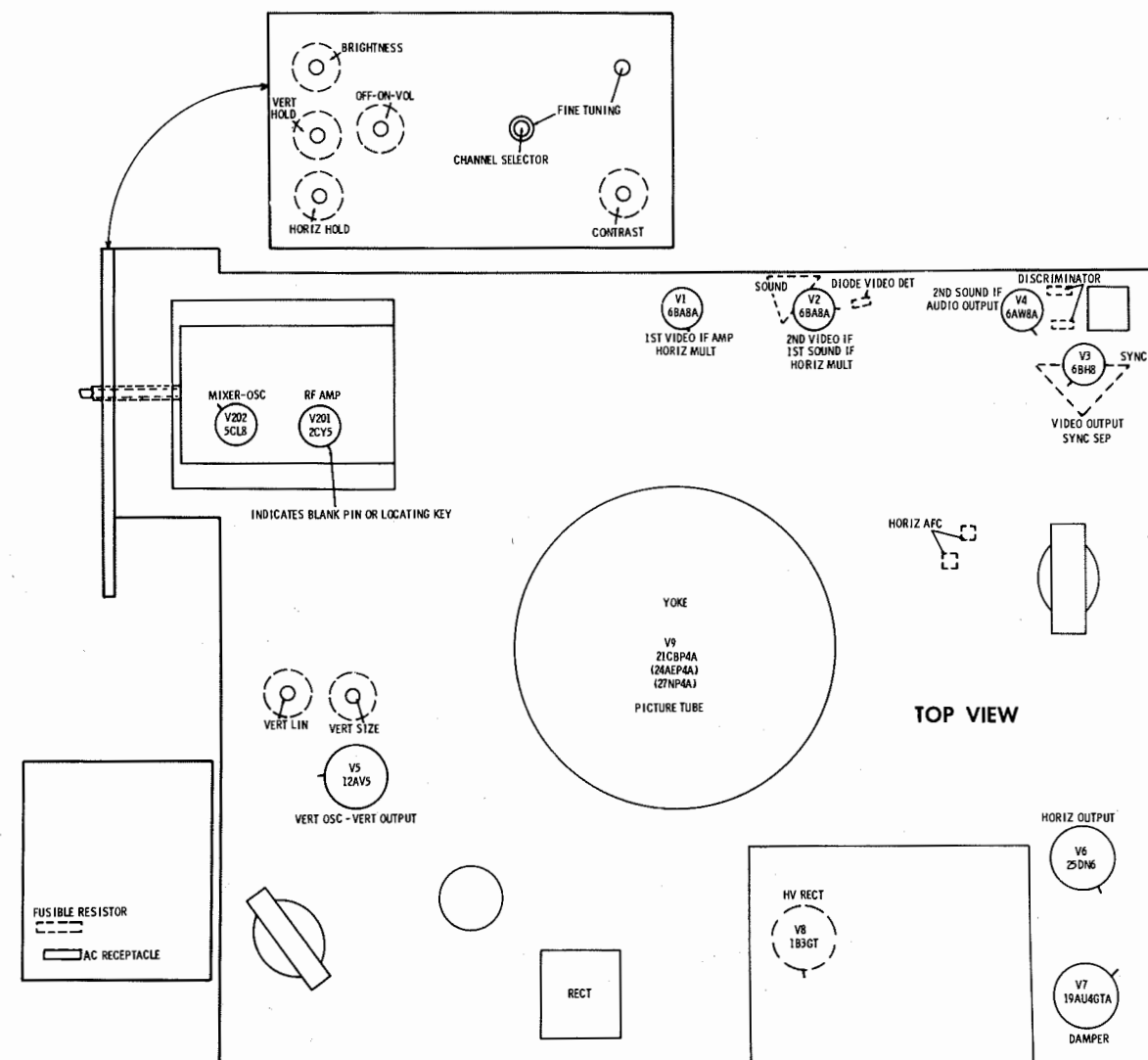
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BA8A	1200Ω	•70K	†39K	13Ω	11.5Ω	0Ω	1.7meg	†1000Ω	†1000Ω
V2	6BA8A	1200Ω	1.9meg	†10K	14.5Ω	13Ω	100Ω	1500Ω	†22Ω	†23Ω
V3	6BH8	0Ω	1.8meg	†16K	17.5Ω	16Ω	•120Ω	2.2meg	†8200Ω	†3300Ω
V4	6AW8A	0Ω	47K	†4700Ω	14.5Ω	16Ω	0Ω	27K	†136Ω	†285Ω
V5	12AV5	•1.3meg	1.5Ω	0Ω	TP	†626Ω	TP	3.5Ω	•†23K	
V6	25DN6	TP	17.5Ω	0Ω	TP	170K	TP	20Ω	†1200Ω	TOP CAP †10Ω
V7	19AU4GTA	TP	NC	†450K	NC	†24Ω	TP	20Ω	23Ω	
V8	1B3GT		PINS	1 THRU 8	HAVE	INFINITE	RESISTANCE			TOP CAP †425Ω
V9	21CBP4A	0Ω	10K	PIN 10 †170K	PIN 11 •180K	PIN 12 1.5Ω				
V201	2CY5	1.6meg	0Ω	10Ω	10.5Ω	†486Ω	†8000Ω	0Ω		
V202	5CL8	15K	†5100Ω	0Ω	11.5Ω	10.5Ω	†486Ω	†486Ω	0Ω	220K

† THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.
 • THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.
 † MEASURED FROM 150V SOURCE.
 ‡ MEASURED FROM PIN 3 OF V7.
 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 indicated symptoms. Refer to tube placement chart for location and type of tube.

POWER SUPPLY FAILURE

No raster, no sound Fusible Resistor (R77), Rectifier (M1)

SWEEP FAILURE

No raster, has sound M2, V2, V1, V8, V7, V8, V9
 No vertical deflection V5
 Poor vert. linearity or foldover V5
 Poor horiz. linearity or foldover V2, V1, V8, V7
 Narrow picture V2, V1, V8, V7, M1
 Vert. off freq. V5
 Horiz. off freq. V2, V1

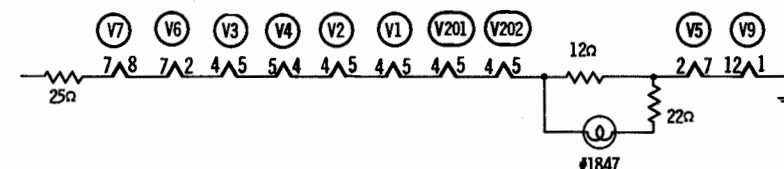
LOSS OF PICTURE OR SOUND

No pic, no sound, has raster V1, V2, Diode (M3)
 No pic, no sound, has snow V201, V202
 No pic, has sound, has raster V3, V9
 Has pic, no sound V2, V4, Diode (M4, M5)

SYNC FAILURE

No vert. sync V3
 No horiz. sync V3, Rectifier (M2)
 No vert. or horiz. sync V3

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



ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

USE AN ISOLATION TRANSFORMER TO PROTECT THE TEST EQUIPMENT.
The High Voltage lead should be securely taped and kept away from the chassis.
Allow a 20 minute warm-up period for the receiver and test equipment.

VIDEO IF ALIGNMENT

Connect the negative lead of a 5.5 volt bias supply to point A. Positive 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.

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	.001mfd	High side to pin 7 (grid) of 6BA8 (V2). Low side to chassis.	44MC 10MC Swp)	41.25MC 42.5MC 43.0MC 44.75MC 45.75MC 47.25MC	Any non-interfering channel	Vert. Amp. thru 10K to point B. Low side to chassis. (Across Video Detector Load)	A1, A2	Adjust for response similar to Fig 1 peaking at approximately 44.25MC.
2.	"	High side to pin 7 (grid) of 6BA8 (V1). Low side to chassis.	"	"	"	"	A3, A4	Adjust for response similar to Fig. 2.
3.	Direct	High side to ungrounded tube shield floating over Mixer-Osc. tube (V202). Low side to chassis.	"	"	"	"	A5	Adjust for response similar to Fig. 2 peaking at approximately 44.5MC.
4.	"	"	"	"	"	"	A6 & Mixer Plate Coil	Adjust A6 for maximum gain of response similar to Fig. 3. Adjust Mixer Plate Coil to control steepness of low frequency side of response curve. If necessary, retouch A5 to obtain desired response.

SOUND IF ALIGNMENT

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
5.	.01mfd	High side to point B. Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	DC probe thru 10K to point C. Common to chassis.	A7, A8, A9	Adjust for maximum deflection.
6.	"	"	"	"	DC probe thru 10K to point D. Common to chassis.	A10	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

4.5MC TRAP ALIGNMENT

Tune in a strong black and white TV signal and adjust the Fine Tuning until a 4.5MC beat pattern can be seen in the picture. Adjust A11 for MINIMUM beat interference. Adjust carefully as this is a critical adjustment.

TUNER ALIGNMENT INSTRUCTIONS LOCATED ON PAGE 6.

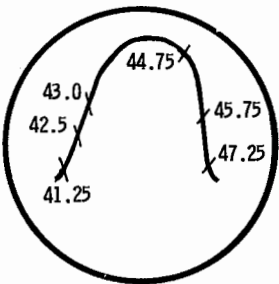


FIG. 1

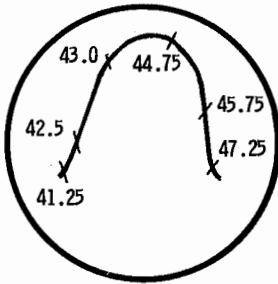


FIG. 2

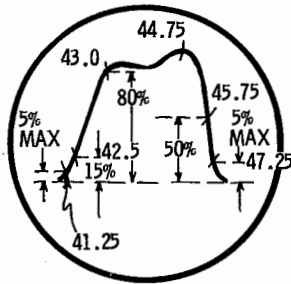
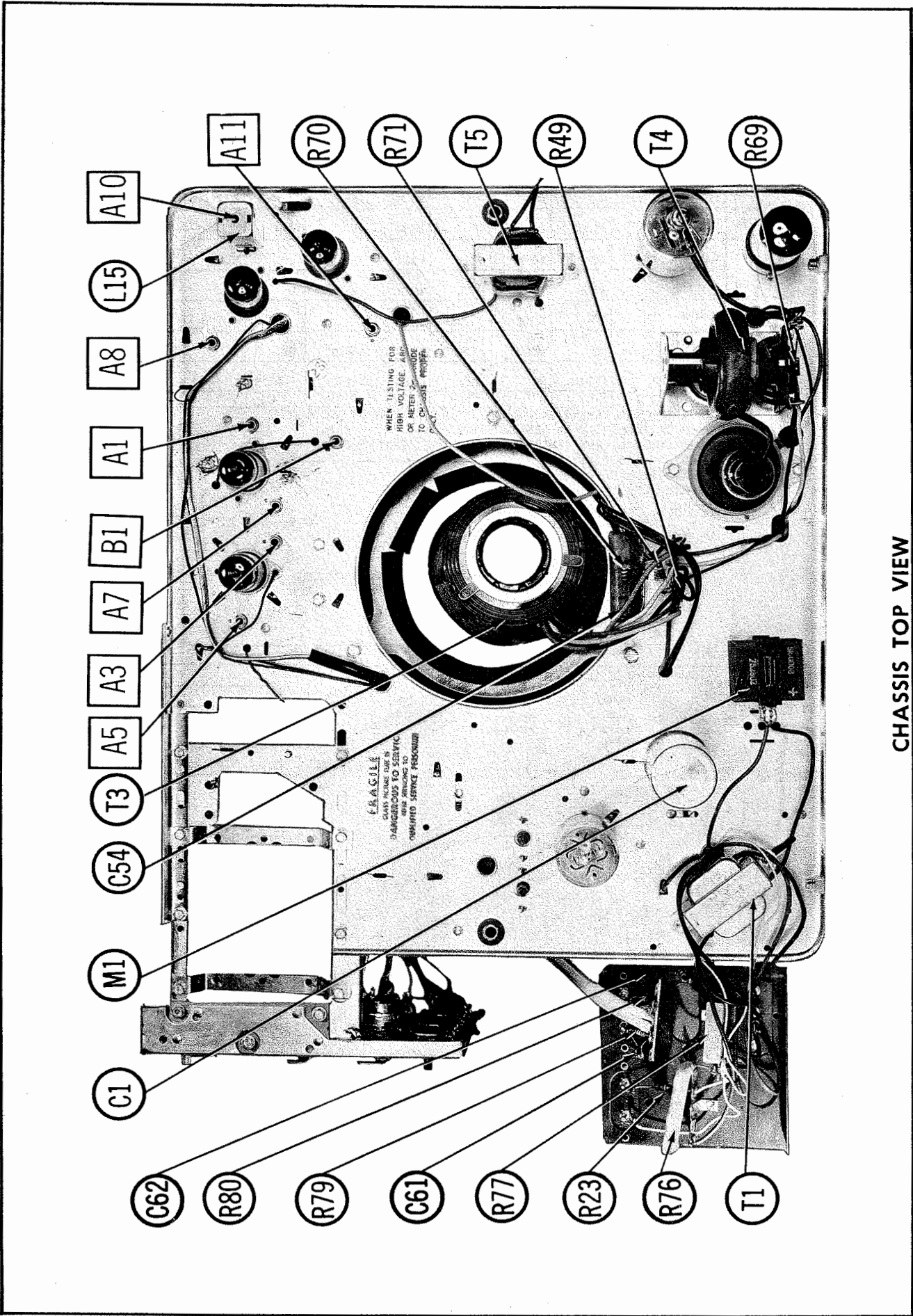
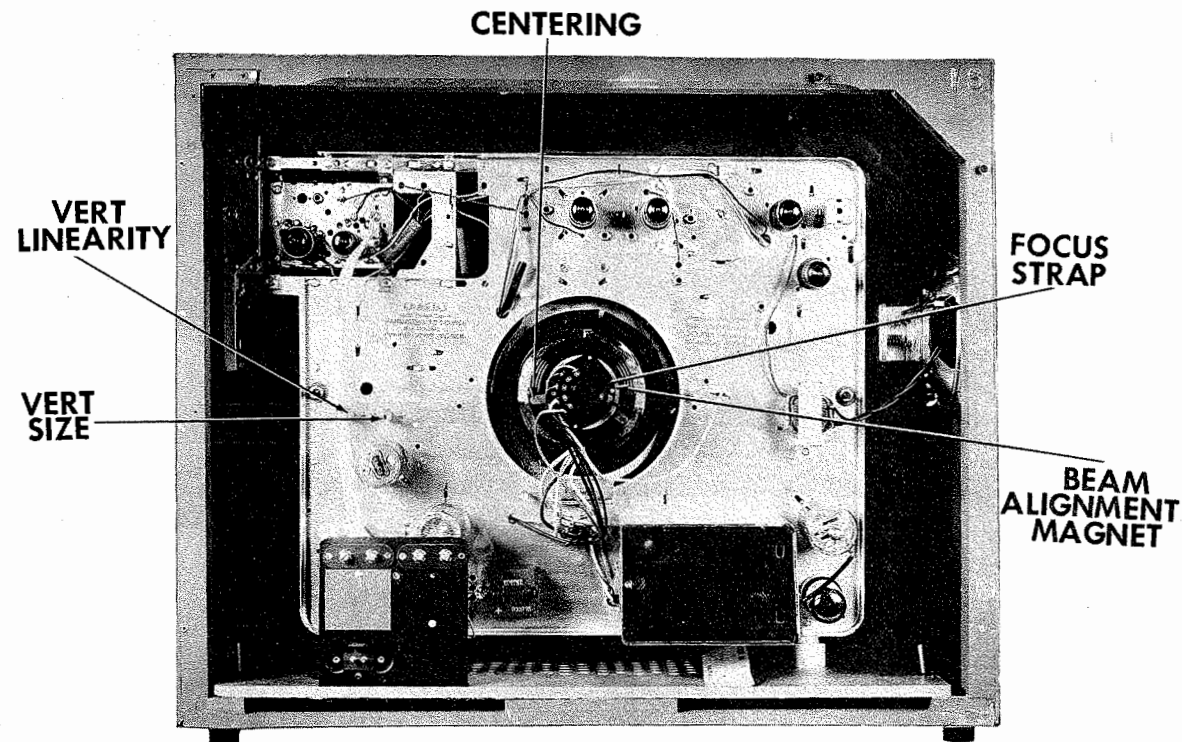


FIG. 3



MUNTZ MODELS
821 Series, 824 Series, 827 Series
ME1A DOL S155VHD

FOLDER 2



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably with a test pattern. Allow the receiver a few minutes warm-up time.

Adjust controls for a normal picture.

Connect a clip lead across the Horizontal Frequency Coil (L18).

Connect a clip lead from point \diamond to chassis.

Adjust the Horizontal Hold (R4) until a single picture is attained.

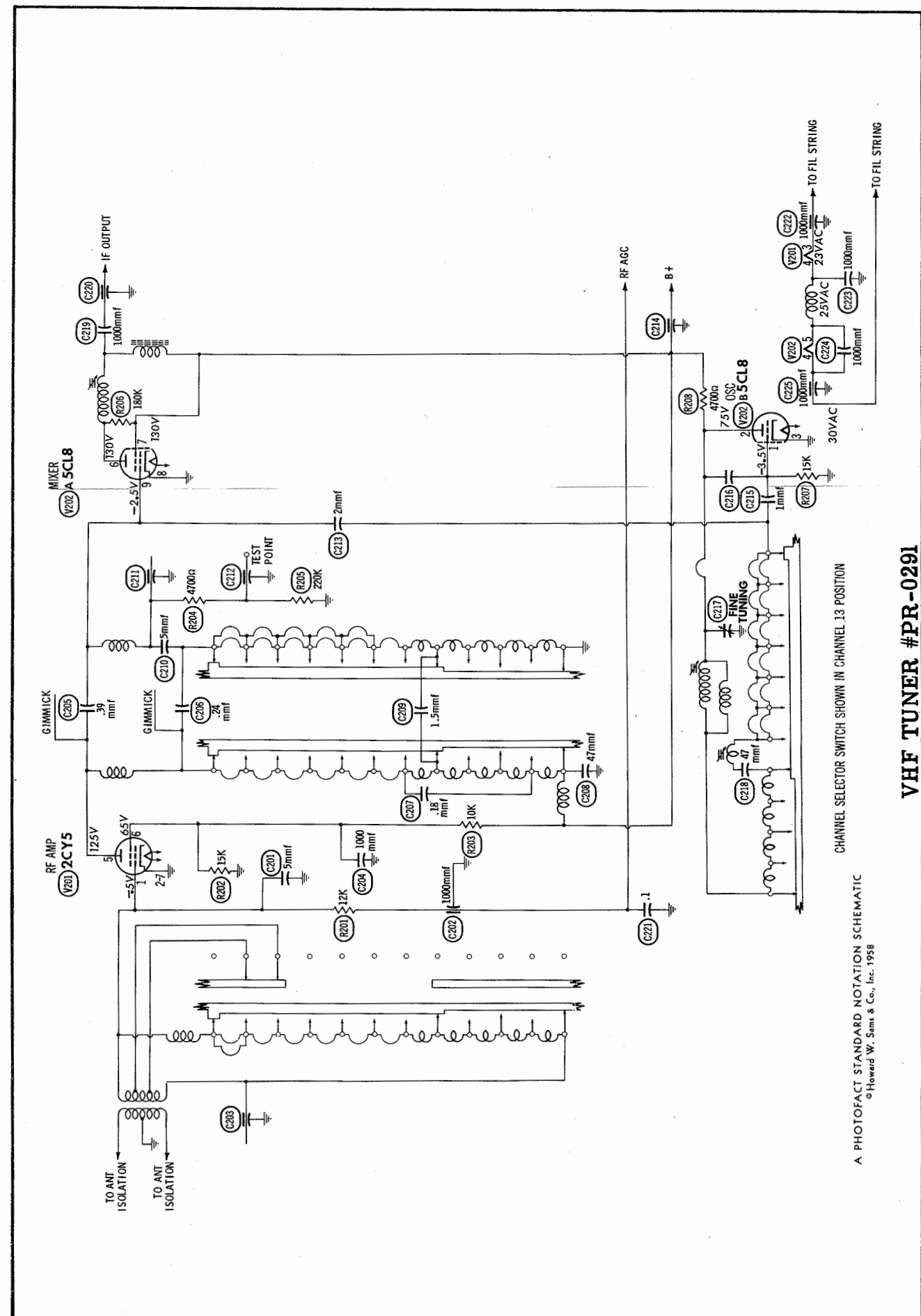
Remove the short from L18. Adjust the Horizontal Frequency slug (B1), with the slug entering the coil from the chassis side, until a sin-

gle picture is obtained. Turn B1 1/4 turn counterclockwise from this position for final setting of the slug.

Remove the clip lead from point \diamond and the picture should snap into sync.

Turn the Horizontal Hold fully clockwise, then turn slowly counter-clockwise until the picture falls into sync. With this setting of the Horizontal Hold, the picture should remain in sync regardless of the signal level.

Measure the DC voltage between point \diamond and chassis. It should measure 1 to 2 volts positive if the circuit is operating properly.



MUNTZ MODELS
821 Series, 824 Series, 827 Series
1620-PR # RENULT FHA

FOLDER 2

TUNER PARTS LIST AND DESCRIPTIONS
TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V201	RF Amp.	2CY5	

ITEM No.	USE	TYPE	NOTES
V202	Mixer-Osc.	5CL8	

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		MUNTZ PART No.	REPLACEMENT DATA					NOTES
	CAP.	VOLT		AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C201	5			DI-000005	DD-050	L10V5	ZT-555	5GA-V5	
C202	1000			EF-001	MFT-1000			503C-D1	
C203									
C204	1000			BPD-001	DD-102	BYA6D1	DC521	5HK-D1	
C205	.39								
C206	.24								
C207	.18								
C208	47			BPD-000047	DD-470	L10Q47	UC-5447	5GA-Q47	
C209	1.5			NPO-SI 1.5	TCZ-1R5	C10V15C	ZT-5515	5TCCB-V15	
C210	5			DI-000005	DD-050	L10V5	ZT-555	5GA-V5	
C211									
C212									
C213	2								
C214									
C215	1								
C216									
C217									
C218	47			BPD-000047	DD-470	L10Q47	UC-5447	5GA-Q47	
C219	1000			BPD-001	DD-102	BYA6D1	DC521	5HK-D1	
C220		200							
C221	.1			P268N-1	DF-104	CUB2P1	GEM-201	ZTM-P1	
C222	1000			EF-001	MFT-1000			503C-D1	
C223	1000			BPD-001	DD-102	BYA6D1	DC521	5HK-D1	
C224	1000			BPD-001	DD-102	BYA6D1	DC521	5HK-D1	
C225	1000			EF-001	MFT-1000			503C-D1	

RESISTORS

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

ITEM No.	RATING		MUNTZ PART No.	NOTES
	OHMS	WATT		
R201	12K			
R202	15K			
R203	10K			
R204	4700Ω			

ITEM No.	RATING		MUNTZ PART No.	NOTES
	OHMS	WATT		
R205	220K			
R206	180K			
R207	15K			
R208	4700Ω			

TUNER ALIGNMENT INSTRUCTIONS

VHF OSCILLATOR ALIGNMENT FOR TUNERS #PR-0254, PR-0266, PR-0261

Set the Fine Tuning to the center of its range. One slug for HIGH band adjustment is located at 4 o'clock, and should be adjusted first. The LOW band adjustment is located at 9 o'clock. Adjust for best picture and sound.

VHF OSCILLATOR ALIGNMENT FOR TUNERS #PR-0253, PR-0263

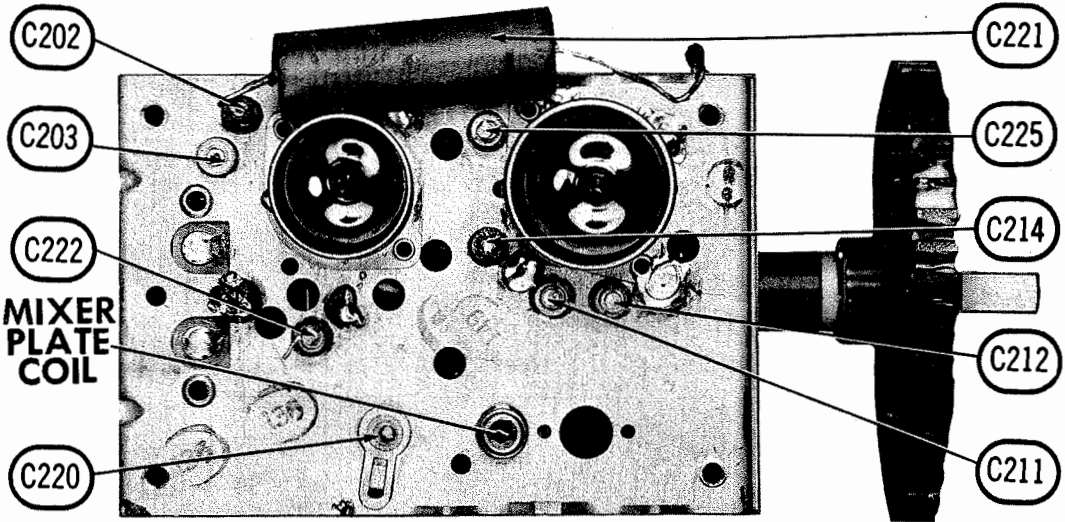
Set the Fine Tuning at the center of its range. The adjustments are accessible, one at a time, as the Channel Selector is rotated. Adjust for best picture and sound.

VHF RF AND MIXER ALIGNMENT

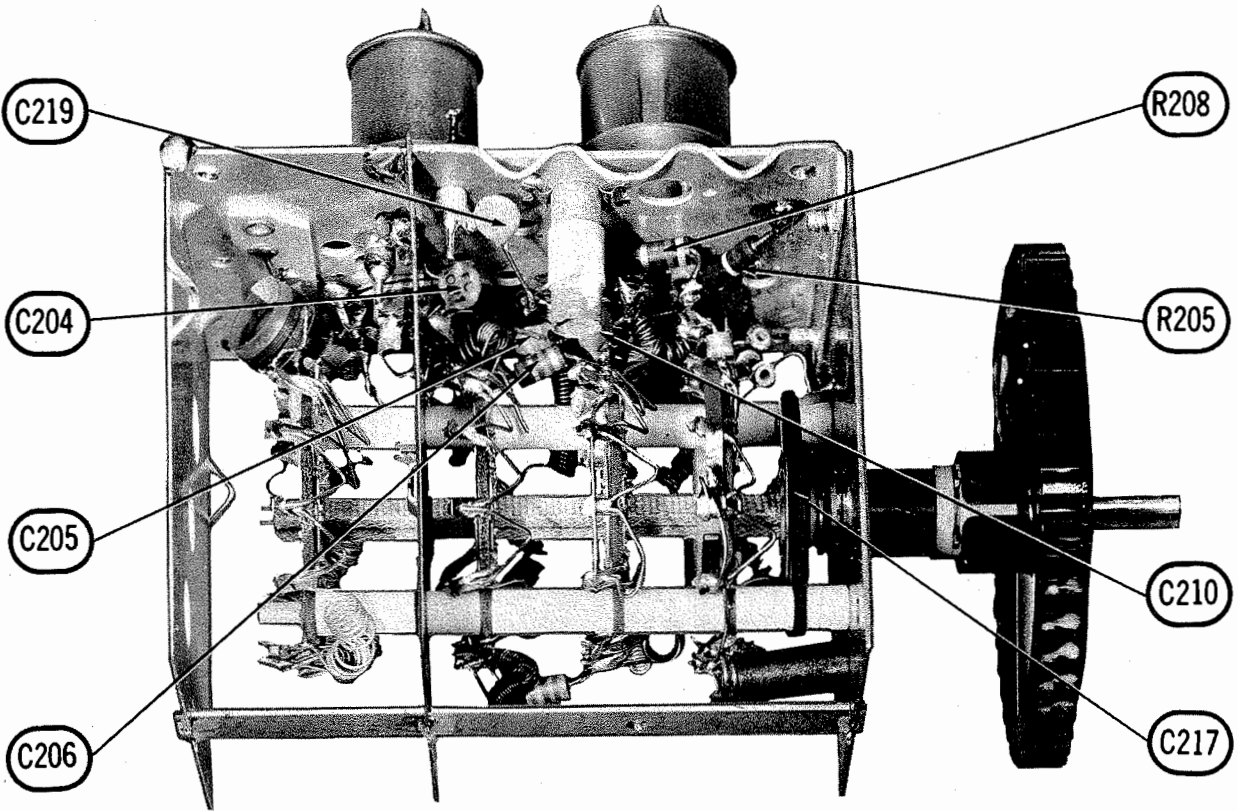
This portion of the receiver has been properly aligned at the factory and is very stable. Alignment of this portion should not be required in the field.

UHF TUNER ALIGNMENT

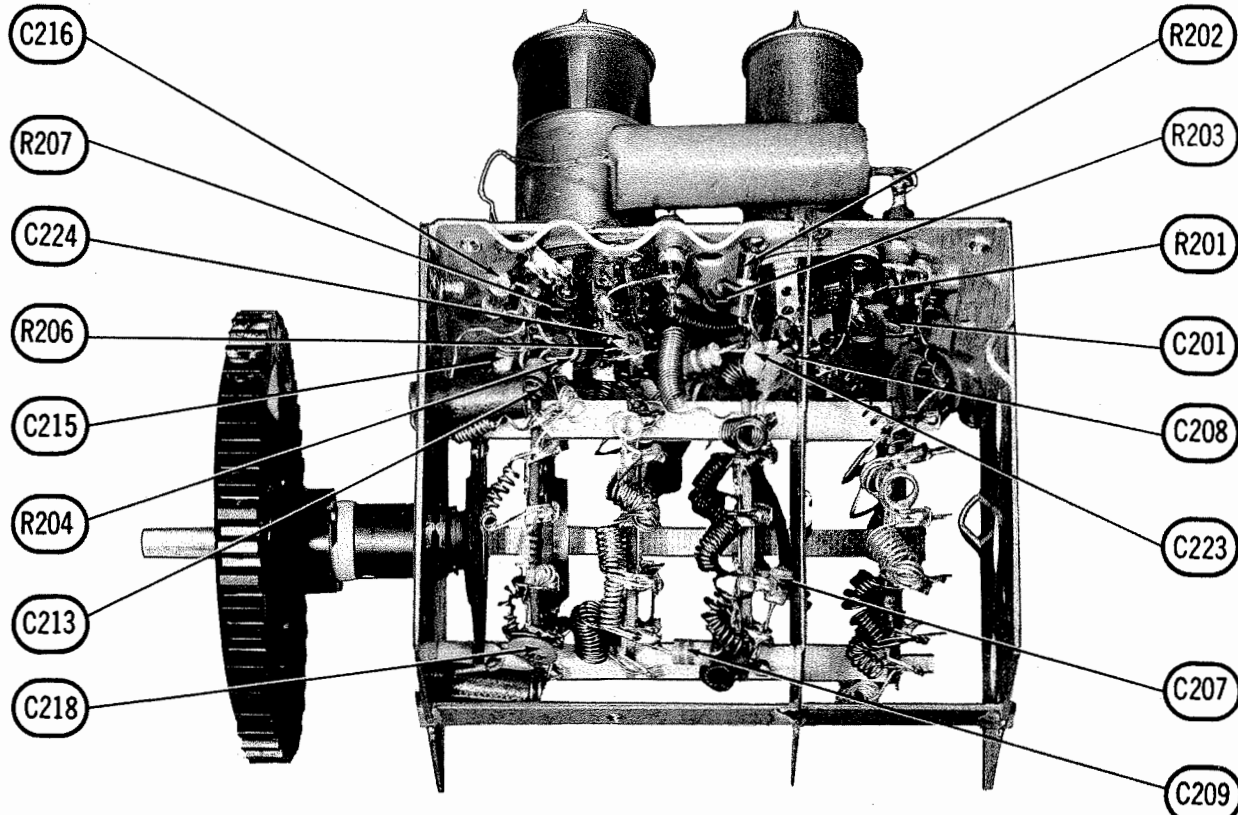
This portion of the receiver has been properly aligned at the factory and is very stable. Alignment of this portion should not be required in the field.



RF TUNER—TOP VIEW



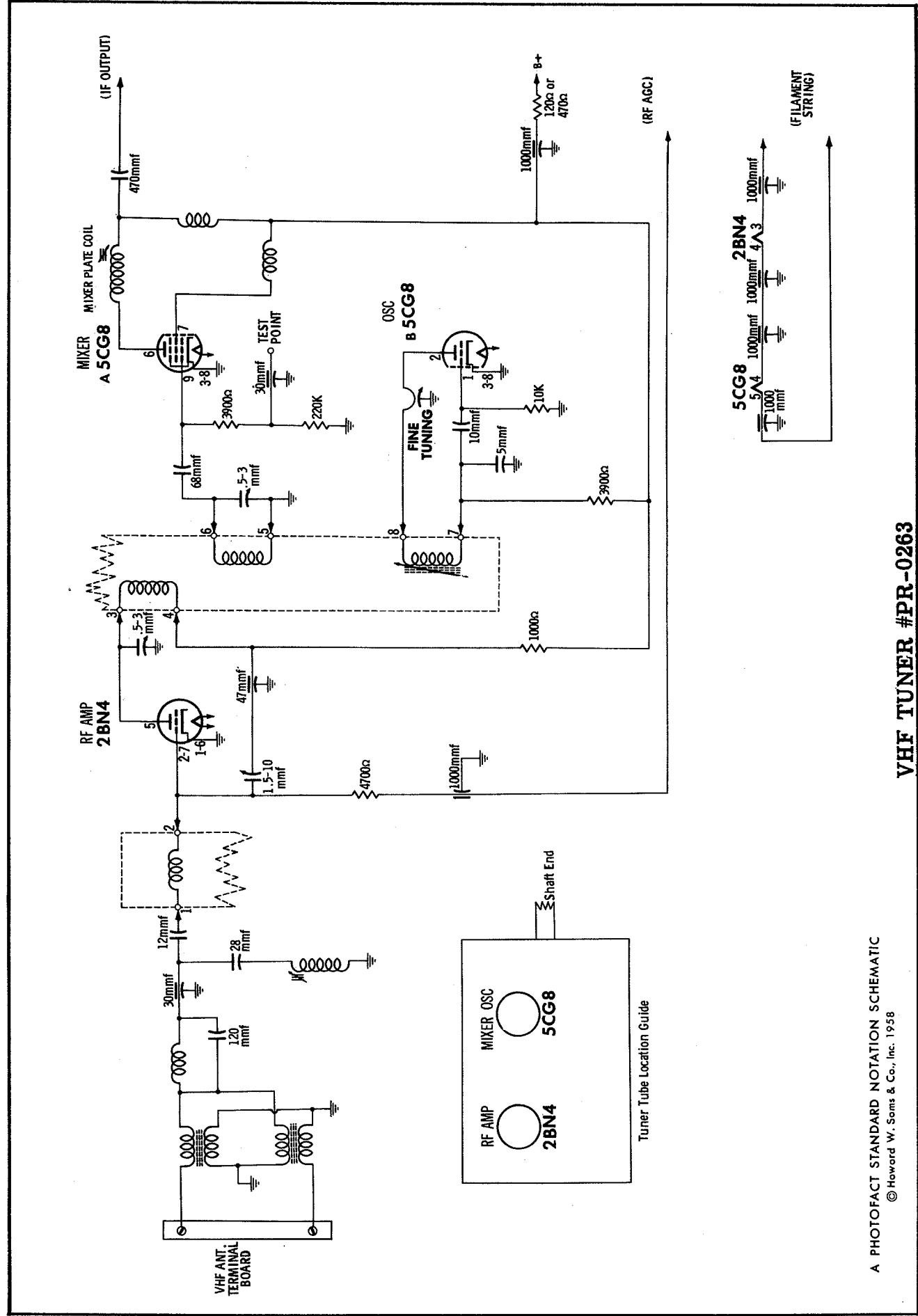
RF TUNER-LEFT SIDE

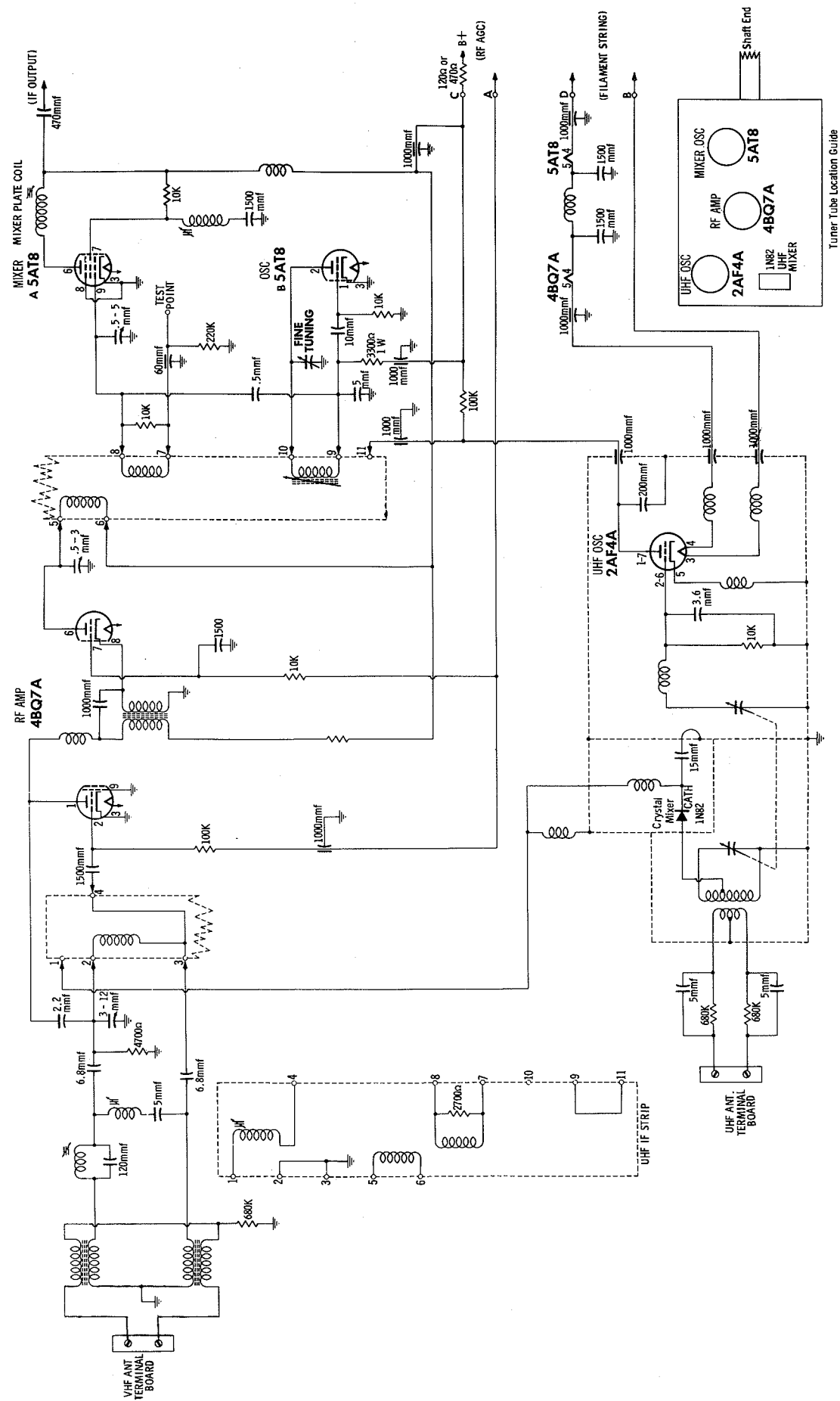


RF TUNER-RIGHT SIDE

MUNTZ MODELS
821 Series, 824 Series, 827 Series

FOLDER 2

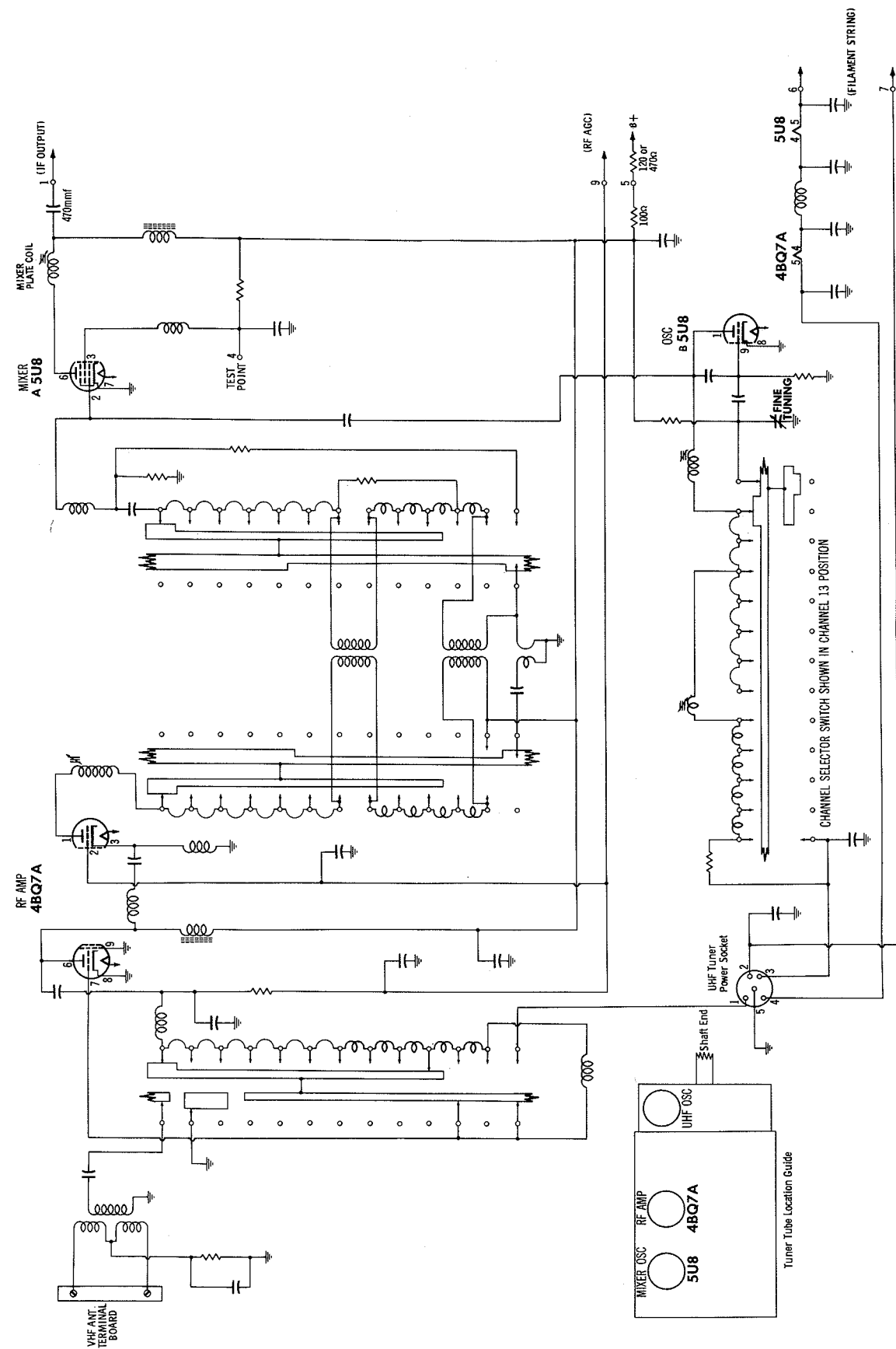




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UHF-VHF TUNER #PR-0253

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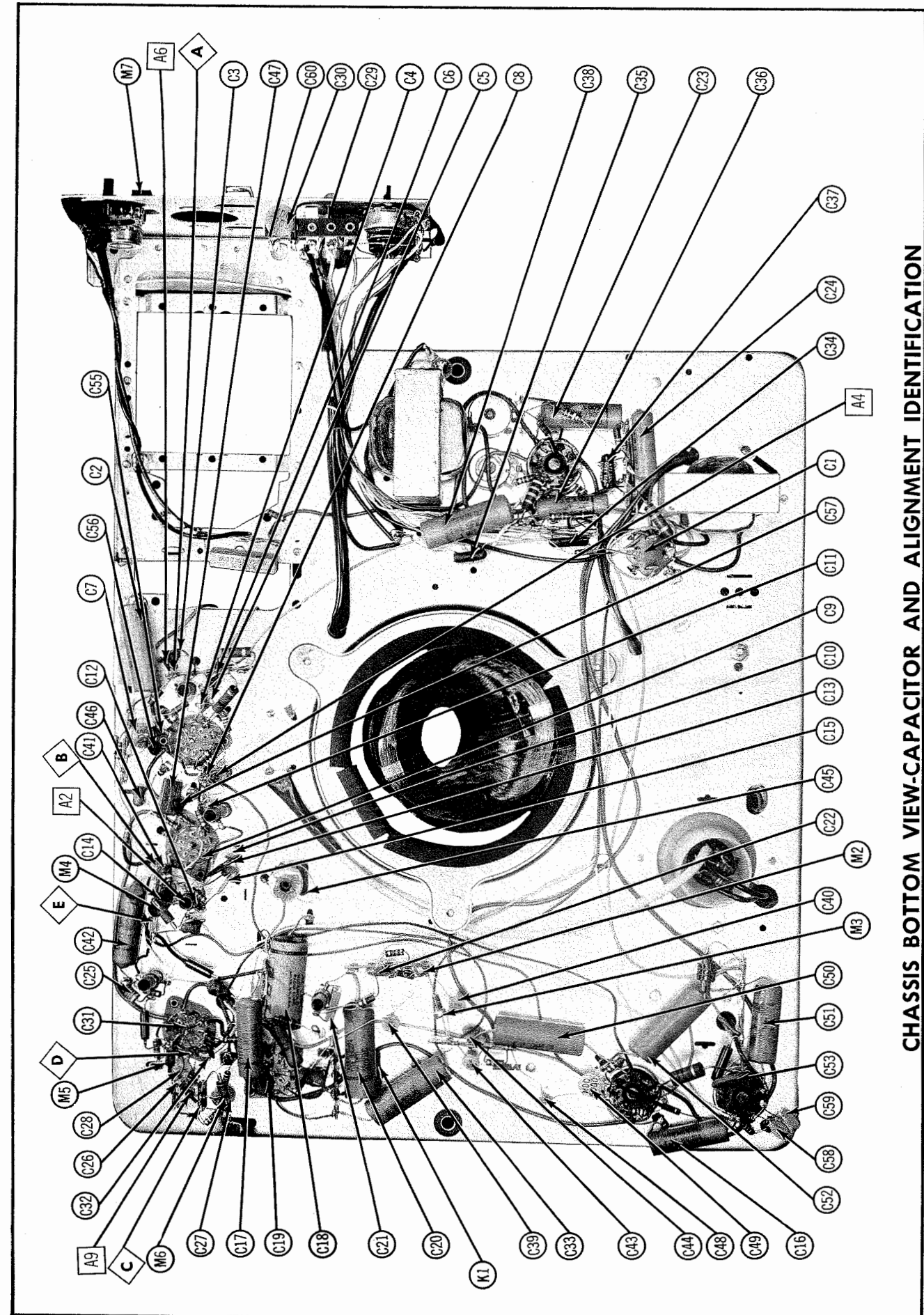
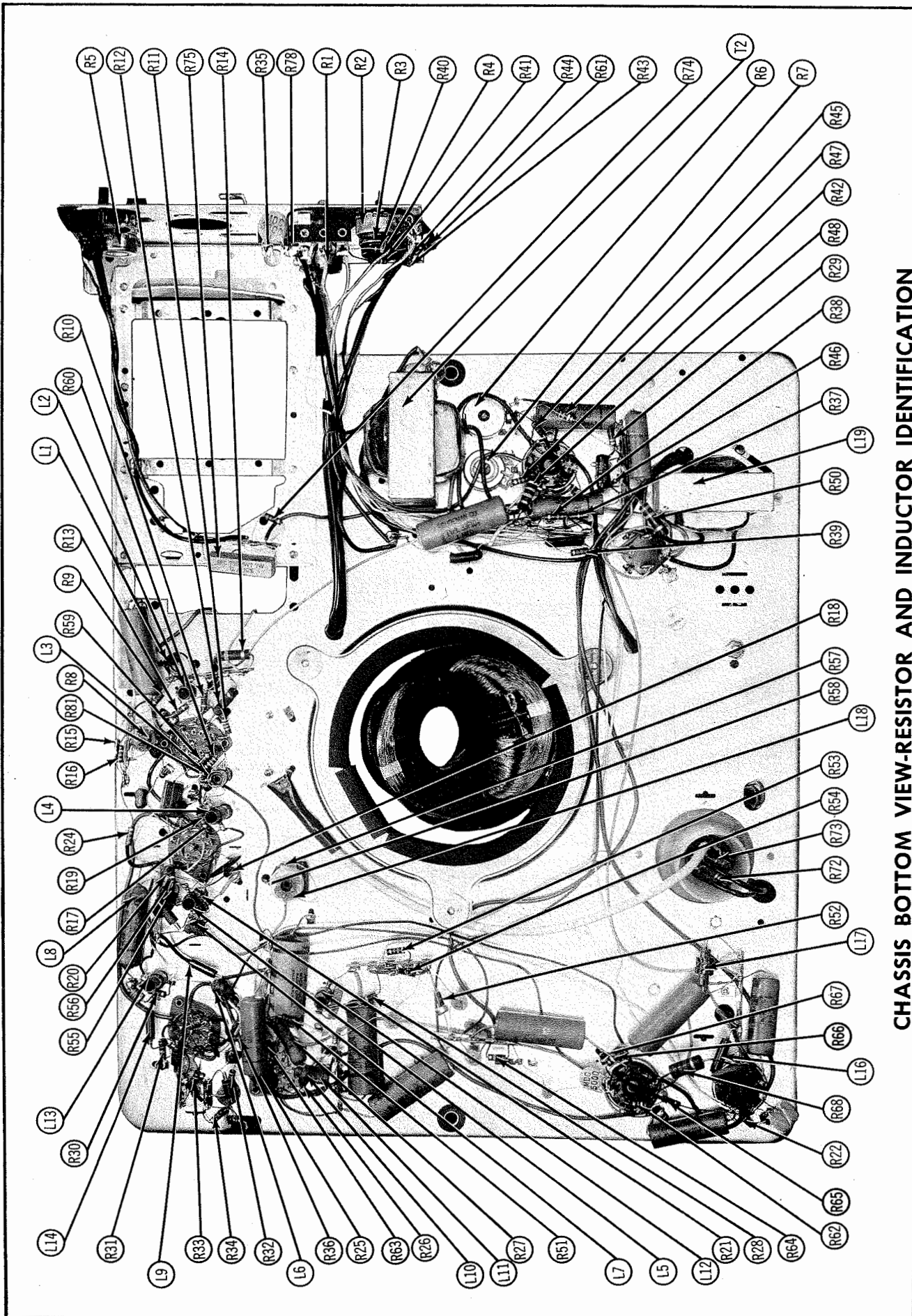
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TUNER #PR-0254 (VHF with UHF provisions)

821 Series, 824 Series, 827 Series

MUNTZ MODELS

FOLDER 2



TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	1st. Video IF Amp. - Horiz. Mult.	6BA8A		V4	2nd. Sound IF Amp. - Audio Output	8AW8A	
V2	2nd. Video IF Amp. - Horiz. Mult.	6BA8A		V5	Vert. Osc. - Vert. Output	12AV5	
V3	Video Output-Sync Sep.	6BH8		V6	Horiz. Output	25D8B	
				V7	Damper	19AD4GTA	
				V8	HV Rectifier	1B3GT	

PICTURE TUBE

ITEM No.	REPLACEMENT DATA	NOTES
V9	21CBP4A 24AEP4A 27NP4A	21CBP4-A ① 24AEP4 ① 27NP4 ②

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA	NOTES
CIA	200	CE-0042	
B	150	AFH84-38-95	
C	150	D0338	
D	75	FP411.8	

* Non-catalog item.

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
C2	.22	CP-0055	
C3	1000	CC-0131	
C4	10	CC-0123	
C5	470	CC-0159	
C6	1000	CC-0131	
C7	5000	CC-0080	
C8	82	CC-0157	
C9	47	CC-0156	
C10	470	CC-0159	
C11	5000	CC-0080	
C12	10	CC-0123	
C13	330	CC-0140	
C14	10000	CC-0167	
C15	5000	CC-0080	
C16	.1	CP-0026	
C17	.1	CP-0026	
C18	.47	CP-0045	
C19	100	CP-0045	
C20	.22	CM-0054	
C21	100	CC-0080	
C22	5000	CP-0084	
C23	.047	CP-0084	
C24	.047	CP-0088	
C25	50	CC-0124	
C26	7.5	CC-0153	
C27	150	CC-0158	
C28	5000	CC-0080	
C29	5000	CC-0080	
C30	3300	CC-0168	
C31	22	CC-0155	
C32	2000	DAC-3	
C33	.22	CP-0055	
C34	.022	CP-0052	
C35	.022	CP-0052	
C36	.022	CP-0053	
C37	.0022	CPM-0100	
C38	.1	CP-0013	
C39	.68	CC-0146	
C40	.68	CC-0146	
C41	1000	CC-0131	
C42	.1	CP-0026	
C43	1000	CC-0131	
C44	3300	CC-0168	
C45	.0047	CPM-0113	
C46	100	CC-0163	
C47	470	CM-0048	
C48	470	CC-0159	
C49	5000	CC-0060	
C50	.22	CP-0055	
C51	.1	CP-0034	
C52	.22	400	
C53	.68	CC-0137	
C54	.1	CP-0013	
C55	1000	CC-0131	
C56	1000	CC-0131	
C57	1000	CC-0131	
C58	5000	CC-0060	
C59	5000	CC-0060	
C60	5000	CC-0133	
C61	470	BPD-00047	
C62	470	BPD-00047	

① Some versions may use .022mfd @ 200V in this application.

PARTS LIST AND DESCRIPTIONS CONTROLS

ITEM No.	RATING	REPLACEMENT DATA	INSTALLATION NOTES
RIA	1meg	VC-0080	Volume, Tap @ 500K
B	Shaft	BT-71	
C	Switch	Not Req.	
R2A	350K	VC-0061	Brilliance
B	Shaft	Not Req.	
R3A	50K	VC-0062	Vert. Hold
B	Shaft	Not Req.	
R4A	50K	VC-0062	Horiz. Hold
B	Shaft	Not Req.	
R5A	600Ω	VC-0059	Contrast
B	Shaft	Not Req.	
R6A	350K	VC-0061	Vert. Ldn.
B	Shaft	Not Req.	
R7A	50K	VC-0062	Vert. Size
B	Shaft	Not Req.	

* Use KR with CRL "red label" and KB with "blue label" controls.

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA	NOTES
R8	1meg	RC-1004-18	
R9	5000Ω	RC-5601-18	
R10	8200Ω	RC-8201-18	
R11	47K	RC-4702-18	
R12	1000Ω	RC-1001-11	
R13	10meg	RC-1805-18	
R14	470Ω	RC-470-11	
R15	1.5meg	RC-1504-18	
R16	330K	RC-3303-18	
R17	100Ω	RC-100-18	
R18	1500Ω	RC-1501-18	
R19	18K	RC-1802-18	
R20	5600Ω	RC-5601-18	
R21	1200Ω	RC-1201-18	
R22	470K	RC-4703-18	
R23	330K	RC-3303-18	
R24	22K	RC-2202-18	
R25	2.2meg	RC-2204-18	
R26	8200Ω	RC-8201-18	
R27	3300Ω	RC-3301-13	
R28	150K	RC-1503-18	
R29	10K	RC-1002-18	
R30	18K	RC-1802-18	
R31	47K	RC-4702-18	
R32	4700Ω	RC-4701-18	
R33	180K	RC-1803-18	
R34	180K	RC-1803-18	
R35	100K	RC-1003-18	
R36	120Ω	RC-120-18	
R37	2200Ω	RC-2201-18	
R38	680Ω	RC-680-18	
R39	1200Ω	RC-1201-18	
R40	150K	RC-1503-18	
R41	39K	RC-3902-18	
R42	18K	RC-1802-18	
R43	47K	RC-4702-18	
R44	10K	RC-1002-18	
R45	1.2meg	RC-1204-18	

Note 1. Some versions use 680K in this application (Part #RC-6803-18).
Note 2. Some versions use 470K in this application (Part #RC-4703-18).
Note 3. Some versions use 10K in this application (Part #RC-1002-18).
Note 4. Some versions use 68K in this application (Part #RC-6802-18).
Note 5. Some versions use 2200Ω in this application.

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA	NOTES
T1	125V tap @ 17V @ .7A	TP-0031	

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA	NOTES
T2	Vert. Output	TO-0051	
T3A	Yoke-Horiz. (24MH)	LC-0085-1	
B	(90°)-Vert. (4.3MH)	DF-609	
M9	Rear Cover & Centering Device	A-2851	
T4	Horiz. Output	PR-0234	

① Use original rear cover and centering device.
② Connect yoke terminal #3 to terminal #3 of T4, yoke terminal #2 and #7 to resistor (R69), yoke terminal #1 to terminal #1 of T4.
③ Connect yoke terminal #3 to terminal #3 of T4, yoke terminal #2 to terminal #7 of T4, yoke terminal #1 to terminal #1 of T4.
④ Drill new mounting hole(s).

* HORIZONTAL OUTPUT TRANSFORMER CONNECTION DATA

Use Original Width Coil Unless Replacement Type Is Listed

ORIGINAL TERMINAL CONNECTIONS	Holldorson Replacement Connections	Merit Replacement Connections	Ram Replacement Connections	Stancor Replacement Connections	Thordarson Replacement Connections	Triad Replacement Connections
4	9	4	9	7	7	4
3	7	3	7	4	4	3
2	NC See Note ⑤	2	NC See Note ⑤	T	T	2
1	1	1	1	1	1	1

⑤ Install new damping network consisting approximately 100mΩ @ 2K and 1000Ω

1/2 watt connected in series across horizontal yoke terminals #2 and #1.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA	NOTES
T5	6000Ω 3-4Ω	TO-0049-1	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA	NOTES
SP1	5" PM 3-4Ω	SK-0025-1	
	6" PM 3-4Ω	SK-0026	
	8" PM 3-4Ω	SK-0022-3	
		SK-0023-2	

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA	NOTES
L1	1st. IF Coupling Coil	LC-0096	
L2	1st. Video IF	LC-0087	
L3	2nd. Video IF	LC-0089	
L4	1st. Sound IF	LC-0095	
L5	3rd. Video IF	LC-0090	
L6	Shunt Peaking Coil	LC-0057-11	
L7	Series Peaking Coil	LC-0101-1	
L8	Shunt Peaking Coil	LC-0101-1	
L9	RF Choke	LC-0091	
L10	Series Peaking Coil	LC-0101-2	
L11	Shunt Peaking Coil	LC-0101-1	
L12	4.5MC Trap	LC-0095-1	
L13	2nd. Sound IF	LC-0095-1	
L14	RF Choke	LC-0091	
L15	Discriminator	LO-0078	
L16	Resonant Choke	LC-0098	
L17	RF Choke	LC-0097	

* Disregard tap. * Replace coil only. * Parallel with a 18K resistor.

TRANSFORMER (HORIZ. OSC.)

ITEM No.	DC RES.	REPLACEMENT DATA	NOTES
L18	45Ω	LO-0077	

FILTER CHOKE

ITEM No.	RATINGS	REPLACEMENT DATA	NOTES
L19	.270A 16Ω	LC-0100-1 ① C5041 ②	

① Alternate Part #LC-0081.
② Drill new mounting hole.

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	MUNTZ PART No.	REPLACEMENT DATA
K1	Sync Coupling	5000mfd, 150mfd, 15K, 330K, 1.5meg	PAK-0100	

RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA	NOTES
M1	.300A	CX-0035 ①	
M2		SR-0004 ①	
M3		SR-0004 ①	

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA	NOTES
M4	IN64	CX-0036	
M5	IN64	CX-0036	
M6	IN64	CX-0036	

MISCELLANEOUS

ITEM No.	PART NAME	MUNTZ PART No.	NOTES
M7	Lamp	LS-0004-3	Type #1847
M8	Tuner	PR-0291	VHF
	Tuner	PR-0288	VHF
	Tuner	PR-0283	VHF
	Tuner	PR-0254	UHF-VHF
	Tuner	PR-0253	UHF-VHF
M9	Centering Device	PR-0234	Includes Yoke Rear Cover
M10	Magnet	PR-0287	Beam Alignment Model 821 Series
	Magnet	PR-0229	Beam Alignment Model 827 Series
	Magnet	PR-8284	Beam Alignment Model 824 Series

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869
Shielded Hook-up Wire	Use BELDEN No. 8865 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-In	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8486 (Round) - 8 Conductor