

CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove back and TV knobs. Remove antenna terminal strip and convergence board.
2. Loosen 4 screws holding tuner and lift tuner assembly from screws.
3. Disconnect yoke anode, picture tube socket, and speakers.
4. Remove convergence assemblies from picture tube.

5. Remove 4 bolts from bottom of cabinet and remove chassis.

PICTURE TUBE REMOVAL

1. Remove chassis and lay cabinet face down on a soft surface.
2. Remove shield and 8 corner bracket screws. Lift tube and mounting assembly from cabinet.
3. Remove bracket assembly by loosening bolts.

MUNTZ MODELS 1411M/W, 1511M/W, 1512M/W (Ch. C18A01)

SET 727 FOLDER 3

PHOTOFACT® Folder

with CIRCUITRACE®



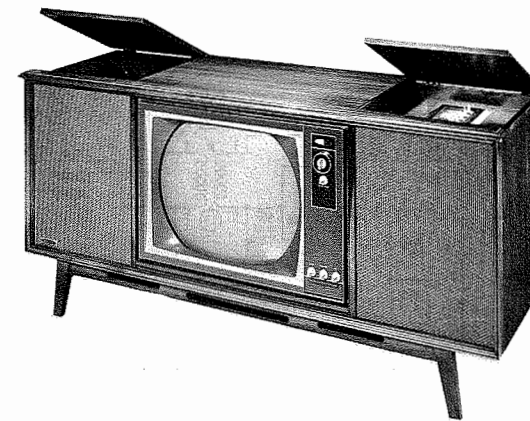
MUNTZ MODELS 1411M/W, 1511M/W, 1512M/W (Ch. C18A01)

IMPORTANT FILING NOTICE

Some models covered by this PHOTOFACT Folder employ chassis in addition to the TV chassis. PHOTOFACT Folders covering these additional chassis are packaged immediately behind this Folder and should be filed with this Folder in the yellow filing jacket provided. For specific coverage see index below.

INDEX

AM-FM Radio Chassis AS-8050	Set 727, Folder 3-A
AM-FM Radio Chassis AS-8042/-1	Set 727, Folder 3-B
Stereo Amp. Chassis AS-8041	Set 727, Folder 3-C
Stereo Amp. Chassis AS-8043	Set 727, Folder 3-D



MODEL 1512

TRADE NAME	Muntz Models 1411M/W, 1511M/W, 1512M/W (Chassis C18A01)
SUPPLIER	For current address, see Master Index.
TYPE SET	Color Television Receiver with AM-FM Radio used in some models
TUBES	VHF: Twenty-Six, UHF: Twenty-Seven
POWER SUPPLY	110-120 Volts AC, 60 Cycles
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Inter-carrier)
	RATING 315 Watts, 3.1 Amps. @ 117 Volts AC

FOR SERVICE INFORMATION ON RECORD CHANGER VM1245 — SEE SIMILAR UNIT PHOTOFACT SET 646 FOLDER 10

MISC ADJUSTMENTS PAGE 7
BLOCK DIAGRAM PAGE 22

SERVICING IN THE FIELD

SAFETY GLASS

The safety glass is an integral part of the picture tube.

FUSE OR FUSE DEVICE

A 1½" length of fuse wire is used for filament protection. (For location, see M1 in photo "Chassis - Bottom View".)

A Circuit Breaker is used for low voltage power supply protection and may be reset by depressing the reset button. (See "Tube Placement Chart" for location.)

VHF OSCILLATOR ADJUSTMENT

The fine tuning mechanically engages osc. slug for adjustment (one slug for each channel).

AGC

The AGC may be varied by means of an AGC Control. (See "Tube Placement Chart" for location.)

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Coarse adjustment of the horizontal hold is accomplished by the proper setting of the Horiz. Oscillator Coil (Wave-form Slug, B1). (See "Tube Placement Chart" for location.)

HORIZONTAL LINEARITY

The linearity may be varied by a Horizontal Efficiency coil. (See "Tube Placement Chart" for location.)

FOCUS

The focus may be varied by means of a Focus Coil. (See "Tube Placement Chart" for location.)

CENTERING

Horizontal and Vertical Centering is accomplished by 2 controls located at rear of chassis.

HOWARD W. SAMS & CO., INC. Indianapolis 6, 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. MB912

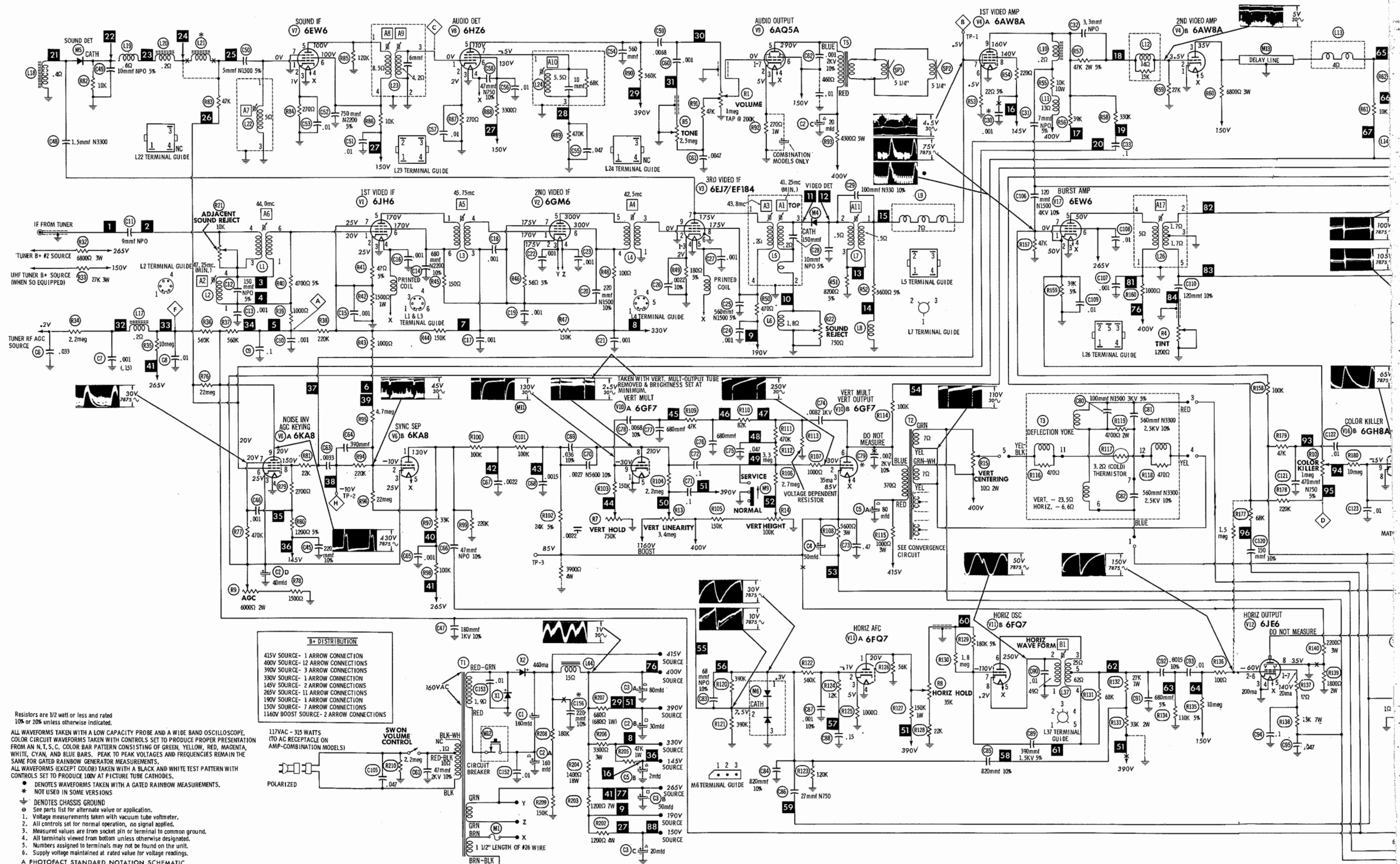
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DATE 12-64

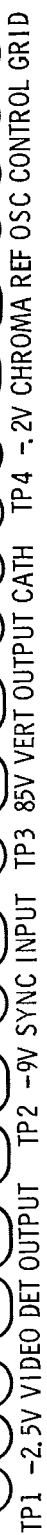
SET 727 FOLDER 3

MUNTZ MODELS 1411M/W, 1511M/W, 1512M/W (Ch. C18A01)

SET 727 FOLDER 3



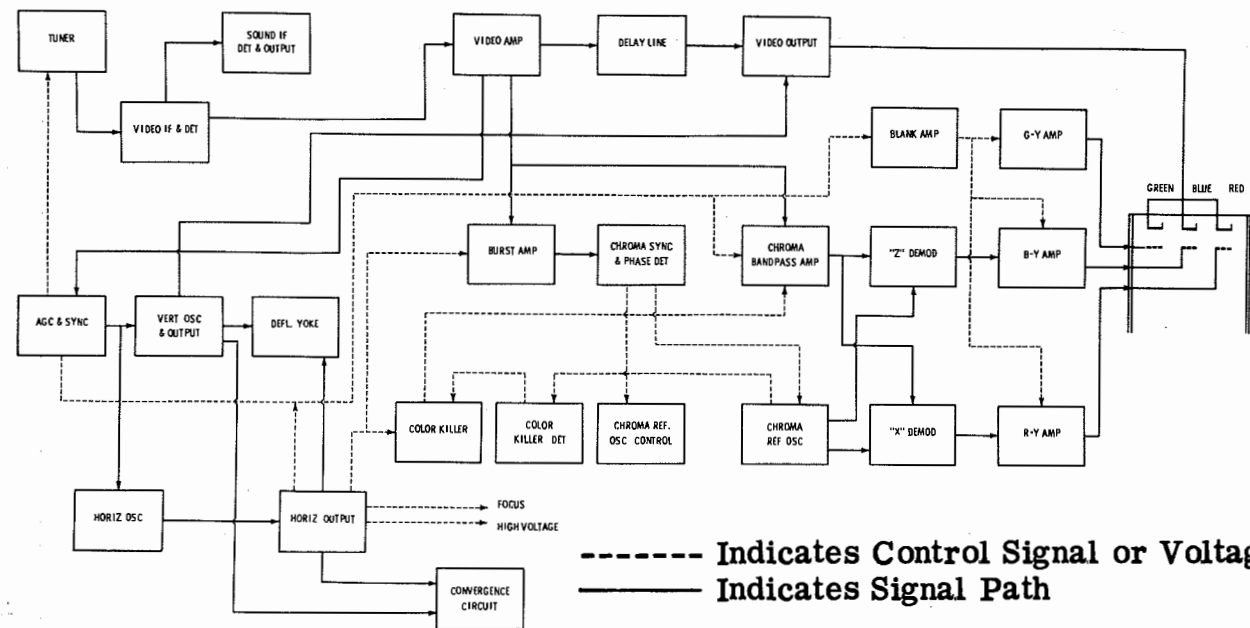
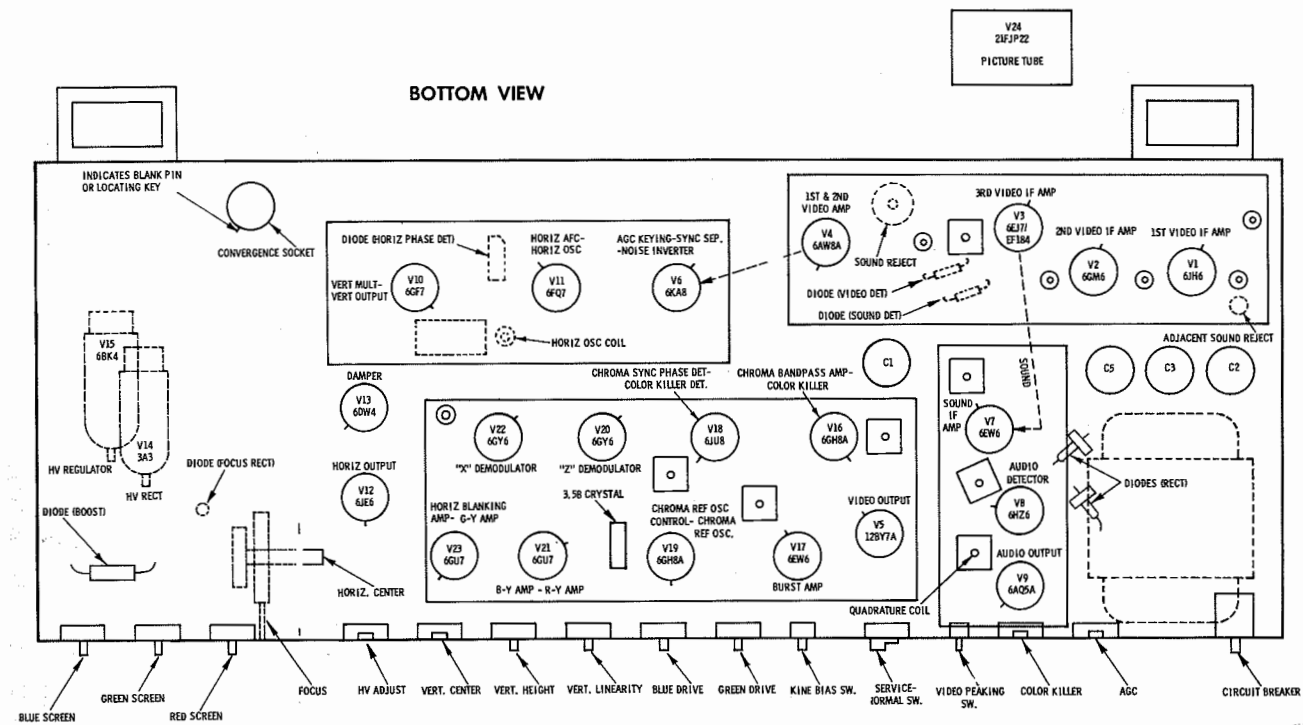




**MUNTZ MODELS 1411M/W,
1511M/W, 1512M/W (Ch. C18A01)**

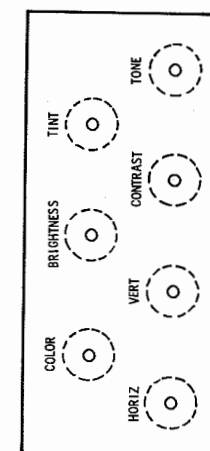
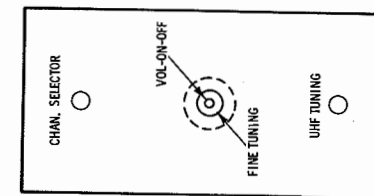
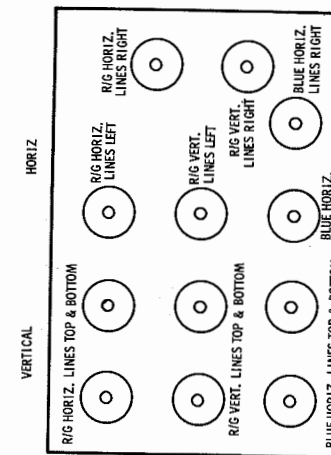
PAGE 24

TUBE PLACEMENT CHART

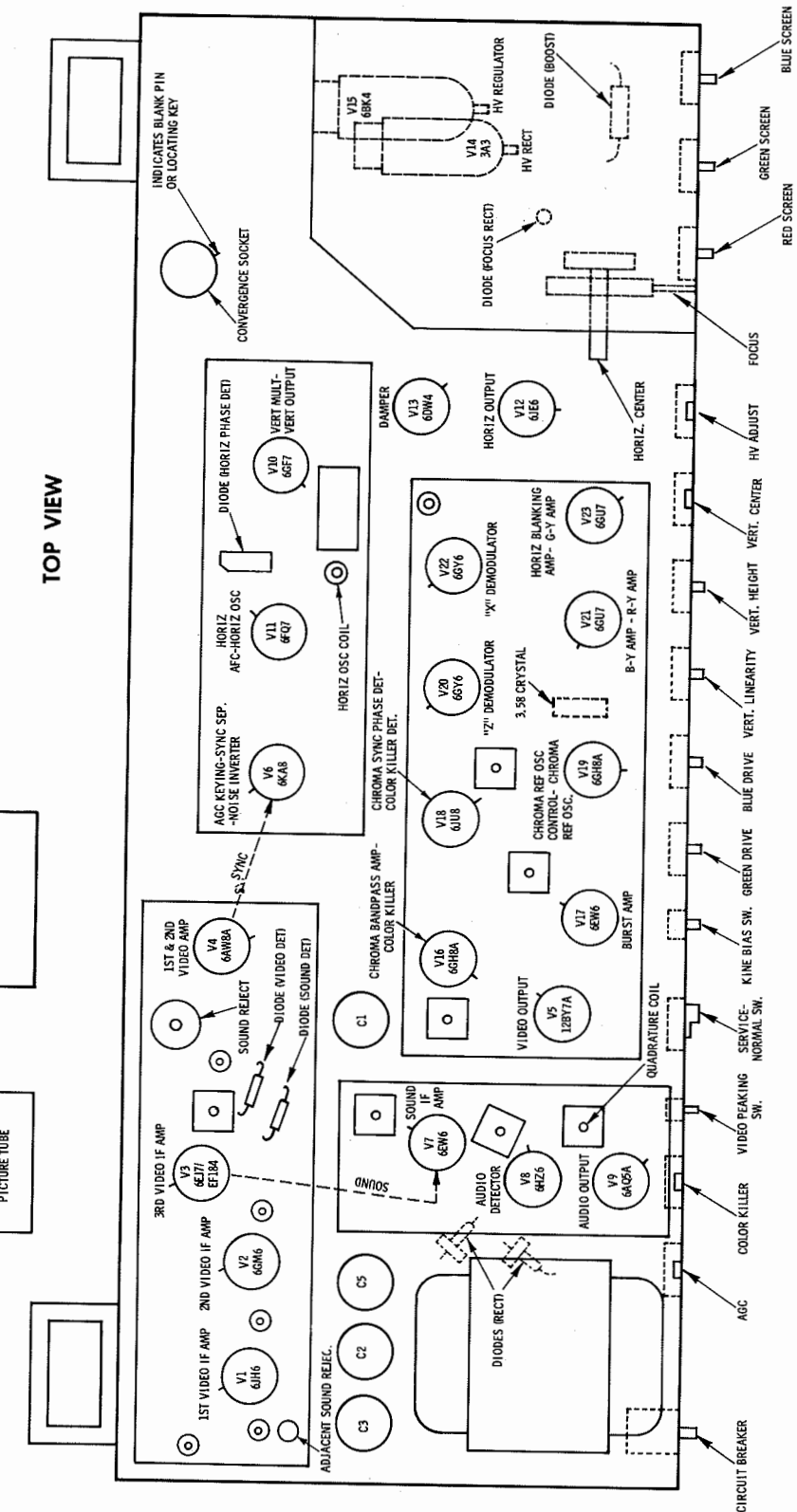


BLOCK DIAGRAM

TUBE PLACEMENT CHART

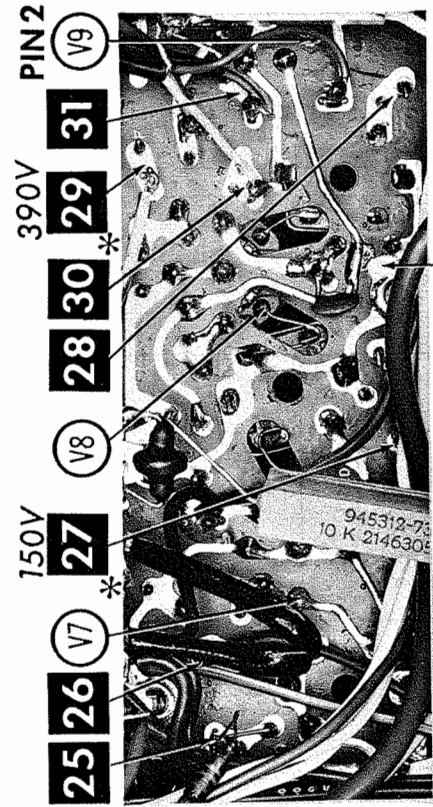


V24
21FJP22
PICTURE TIRE



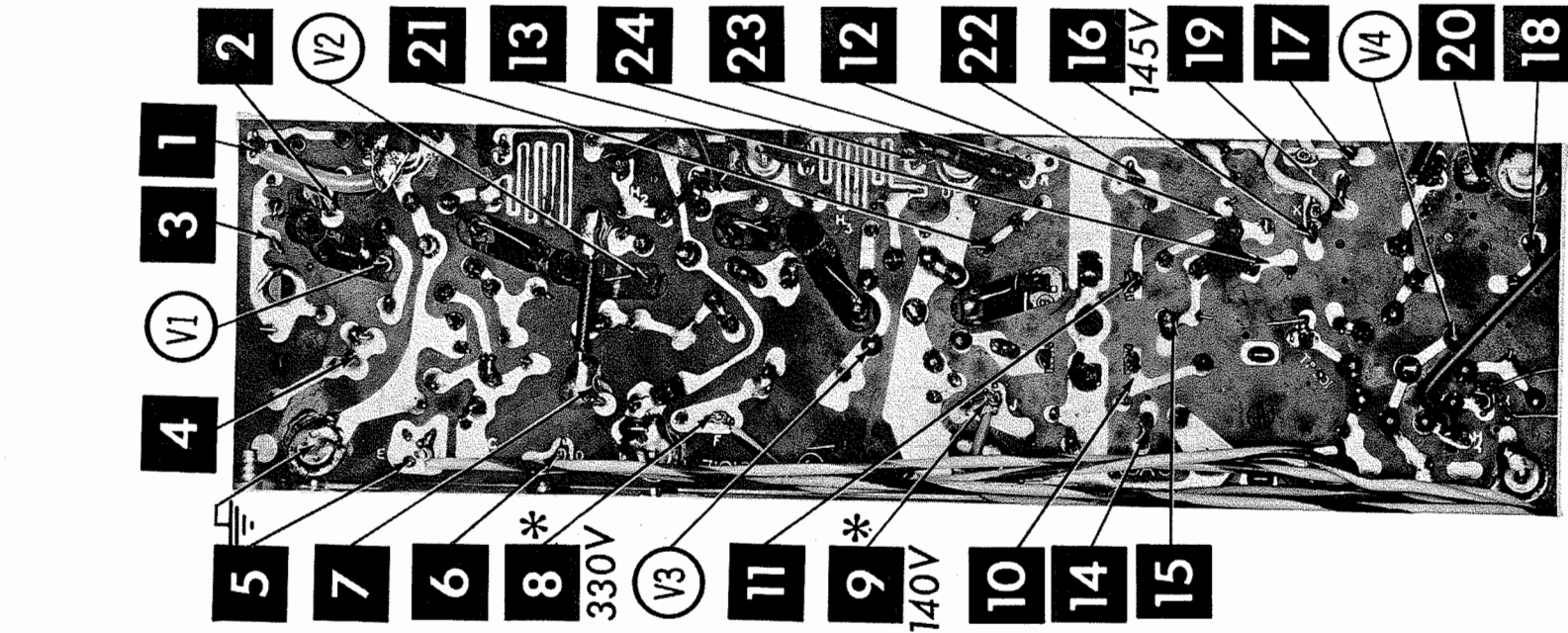
**MUNTZ MODELS 1411M/W,
1511M/W, 1512M/W (Ch. C18A01)**

FOLDER 3

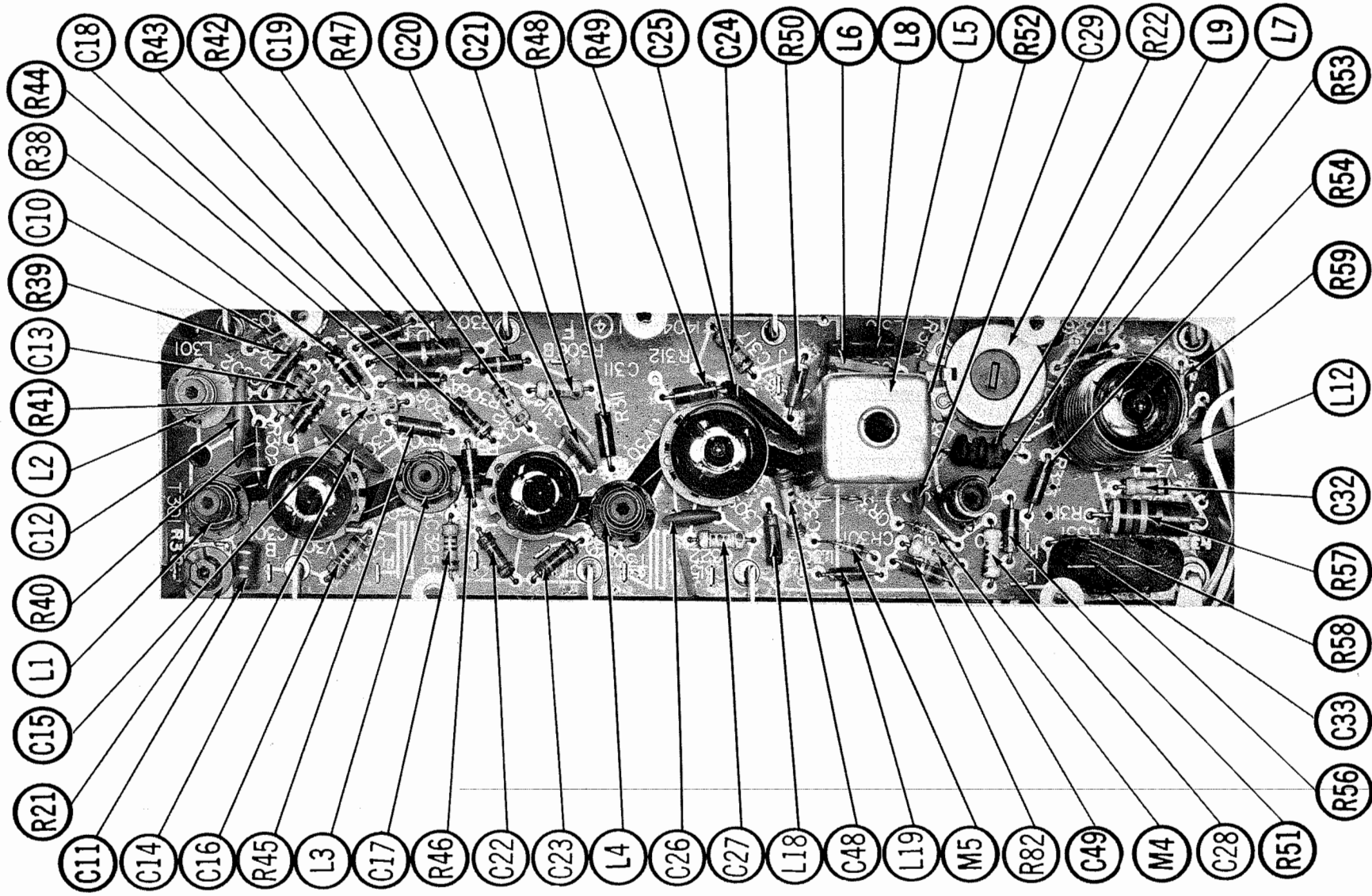


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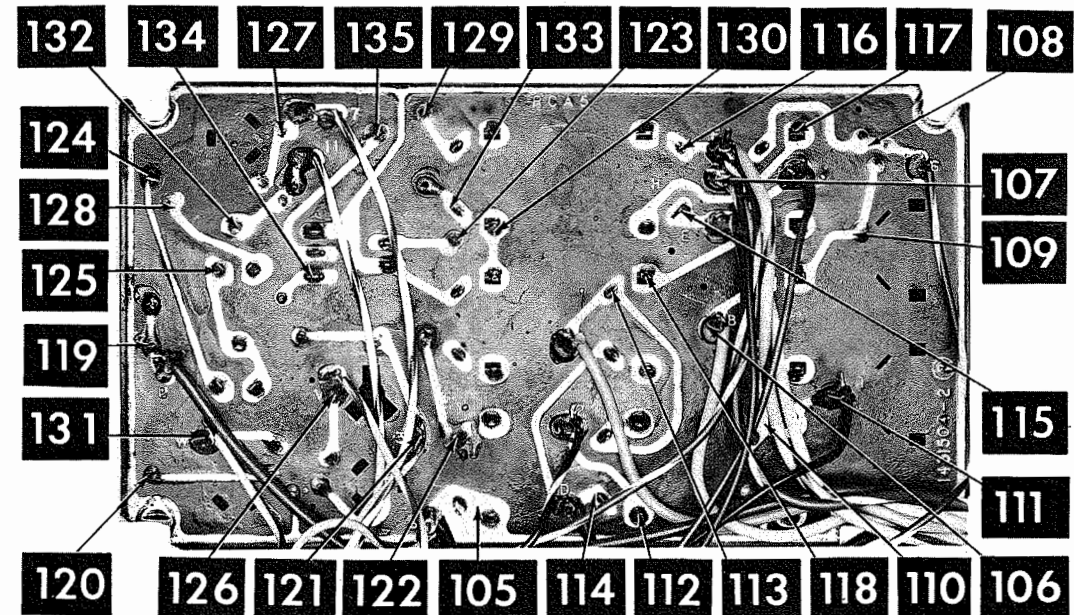
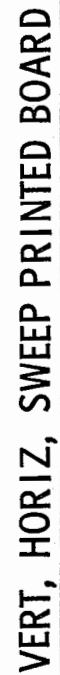
SOUND PRINTED BOARD



*SOURCE



VIDEO IF PRINTED BOARD
MUNTZ MODELS 1411M/W,
1511M/W, 1512M/W (Ch. C18A01)



CONVERGENCE PRINTED BOARD

ALIGNMENT INSTRUCTIONS

Use an isolation transformer and maintain voltage at 117 volts. Allow a 20-minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: A1 thru A11..... GENERAL CEMENT 8806, 8889, 9302 ... WALSCO 2511, 2543, 2588
Mixer Plate Coil .. GENERAL CEMENT 9286, 9300, 9302 ... WALSCO 2510, 2511, 2547

VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from those shown. Connect a variable bias supply to the IF AGC line (point Ⓢ) and adjust to obtain a response curve which shows no indication of overload. Disable Oscillator section of Mixer-Osc. Set the Channel Selector to any non-interfering channel.

INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1. Connect DC probe of a VTVM thru a 47K resistor to point Ⓢ. Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		41.25MC 47.25MC	A1, R22 A2, R21	Adjust for MINIMUM. Keep cores of L5 (A1) and L2 (A2) at coil end away from board.
2. Connect DC probe of a VTVM thru a 47K resistor to point Ⓢ. Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		43.8MC 42.5MC 45.75MC 44.0MC	A3 A4 A5, A6, Mixer Plate Coil	Adjust for maximum with core nearest printed board end of coil for A3, A4, A5 and A6. Adjust Mixer Plate Coil for maximum with core at top of coil.
3. Connect vertical input of a scope to point Ⓢ. Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep)	41.25MC 42.17MC 42.75MC 45.0MC 45.75MC 47.25MC		Adjust for maximum gain and symmetry of response with markers as shown in Figure 1. In order to obtain a proper response, it may be necessary to slightly retouch A3, A4, A5, A6, and Mixer Plate Coil for optimum response.

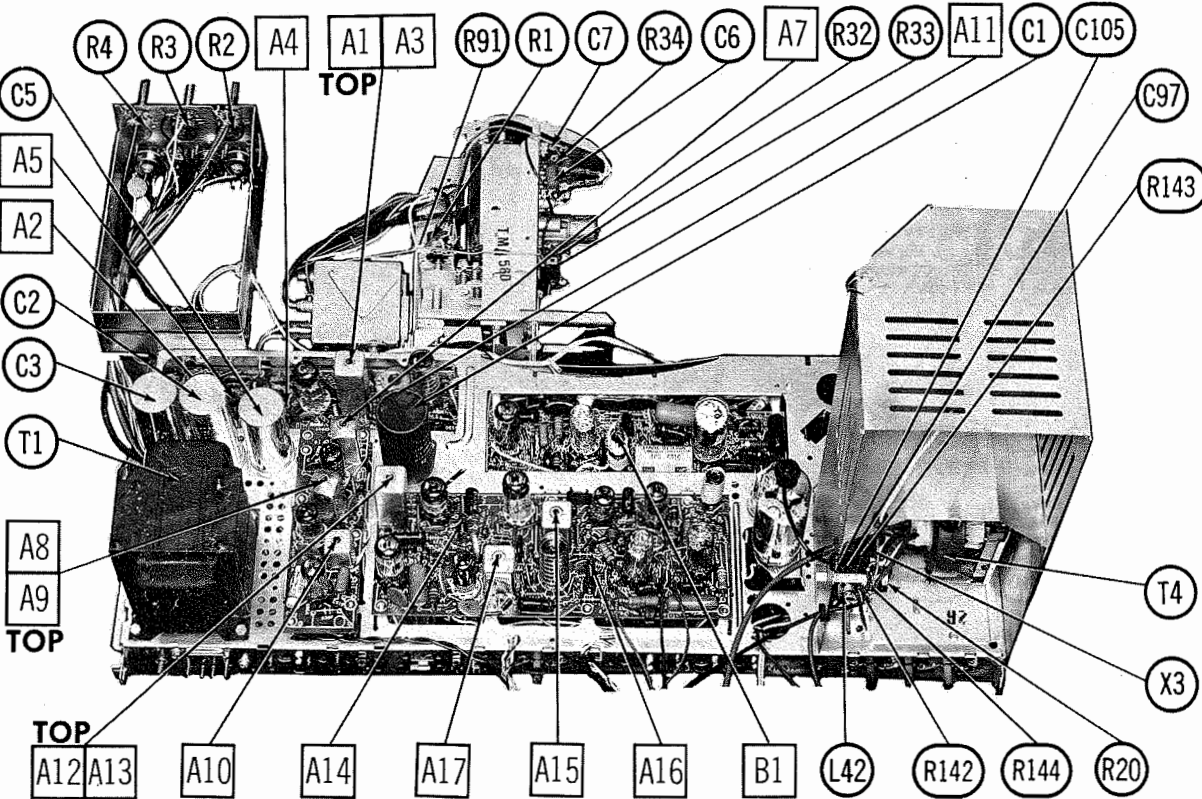
SOUND IF ALIGNMENT

Connect a VTVM thru a detector probe to point Ⓢ. Tune in a TV station and adjust A7, A8, and A9 for maximum deflection. Remove VTVM. Reduce the signal at the antenna terminals until distortion occurs in the sound. Adjust A10 clockwise from the fully out position to the second peak for maximum sound. Continue to reduce the signal and adjust A10 for MINIMUM distortion and maximum sound until no further improvement can be made.

4.5 MC TRAP ALIGNMENT

Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A11 for MINIMUM beat interference.

TV ALIGNMENT CONT'D ON PAGE 17



CHASSIS-TOP VIEW

ALIGNMENT INSTRUCTIONS (cont)

CHROMA BANDPASS ALIGNMENT

The following alignment will require the use of an RF Modulator (RCA WG304A or equivalent). Connect a -15 volt supply to point Ⓢ. Connect a -2 volt supply to point Ⓢ. Connect a -15 volt supply to point Ⓢ. Positive of all supplies to ground. Connect a jumper from point Ⓢ to ground. Turn the color intensity to maximum. Remove the Horizontal Output tube and connect a 2000Ω, 100W resistor from 400V Source to ground.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4. High side thru .1mfd to grid of Bandpass Amp., V16, low side to ground.	3.58MC (3-5MC Sweep)	3.08MC 4.08MC		Vert. Amp. thru Detector Probe to pin 1 of demodulators point Ⓢ, low side to ground.	A12,	Adjust for response curve similar to Fig. 2.
5. High side of sweep gen. to Video Sweep Input of RF demodulator. High side of signal gen. (set at 45.75MC) to picture carrier input. Output of RF modulator to mixer grid test point on tuner, low side to ground.	Sweep generator to 3MC (6MC Sweep)	"		"	A14	Adjust for response curve similar to Fig. 3. If necessary retouch A12 to flatten top of response.

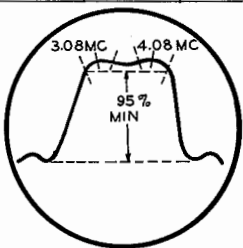


FIG. 2

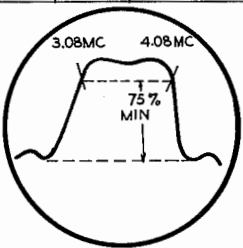


FIG. 3

VHF TUNER ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: A201, A202, A203 GENERAL CEMENT #8868, 9087, 9089... WALSCO #2528, 2541, 2587

OSCILLATOR ADJUSTMENTS

The oscillator for each channel is preset by means of the fine tuning control. Adjust fine tuning for best picture and sound on each channel. If any channel cannot be properly tuned in with the fine tuning, adjust overall oscillator adjustment and recheck all available channels.

RF AND MIXER ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect a variable bias to the RF AGC line at point Ⓢ. Adjust bias to obtain response curve which shows no indication of overloading.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Across antenna terminals with 120Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. Input to Point Ⓢ, low side to ground	A201, A202	Adjust for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2. "	195MC	193.25MC 197.75MC	10	Across Video Det. load resistor.	A203	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3. "	See Chart	See Chart	12 thru 2	Vert. Input to Point Ⓢ, low side to ground.		Check response on all channels and make compromise adjustments of A201 and A202 if required.

CHANNEL & FREQUENCY CHART

SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR COUPLING	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR COUPLING	MARKER GENERATOR FREQUENCY	CHANNEL
57MC	55.25MC 59.75MC	2	85MC	83.25MC 87.75MC	6	195MC	193.25MC 197.75MC	10
63MC	61.25MC 65.75MC	3	177MC	175.25MC 179.75MC	7	201MC	199.25MC 203.75MC	11
69MC	67.25MC 71.75MC	4	183MC	181.25MC 185.75MC	8	207MC	205.25MC 209.75MC	12
79MC	77.25MC 81.75MC	5	189MC	187.25MC 191.75MC	9	213MC	211.25MC 215.75MC	13

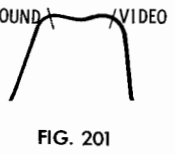
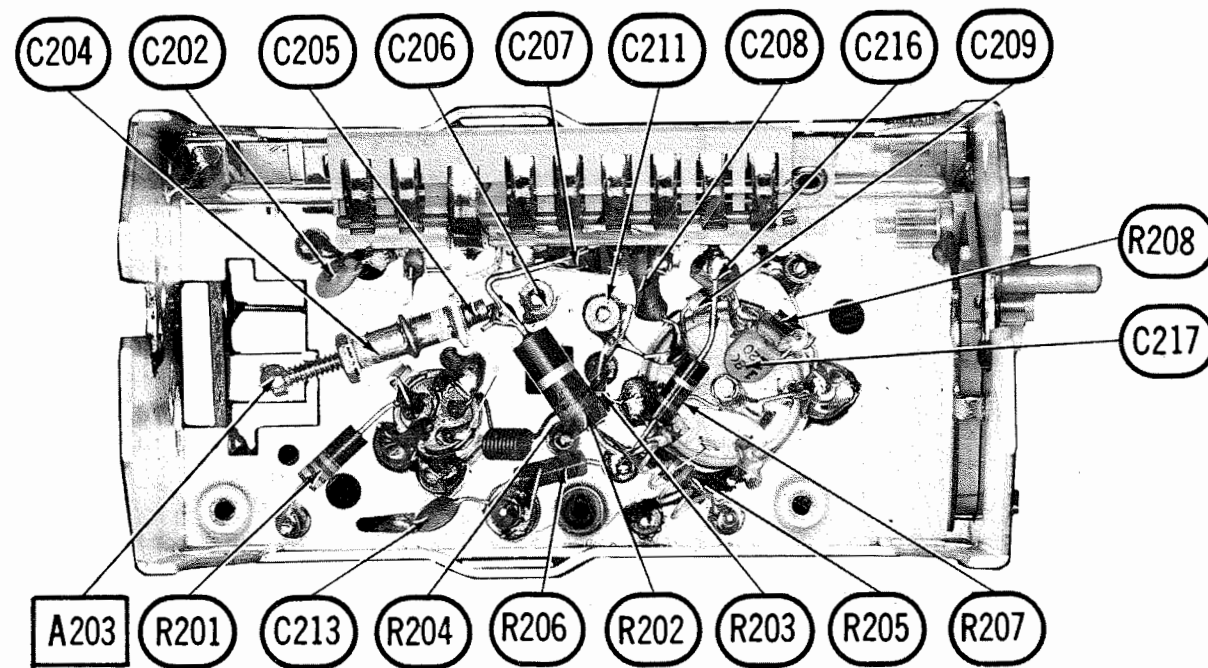
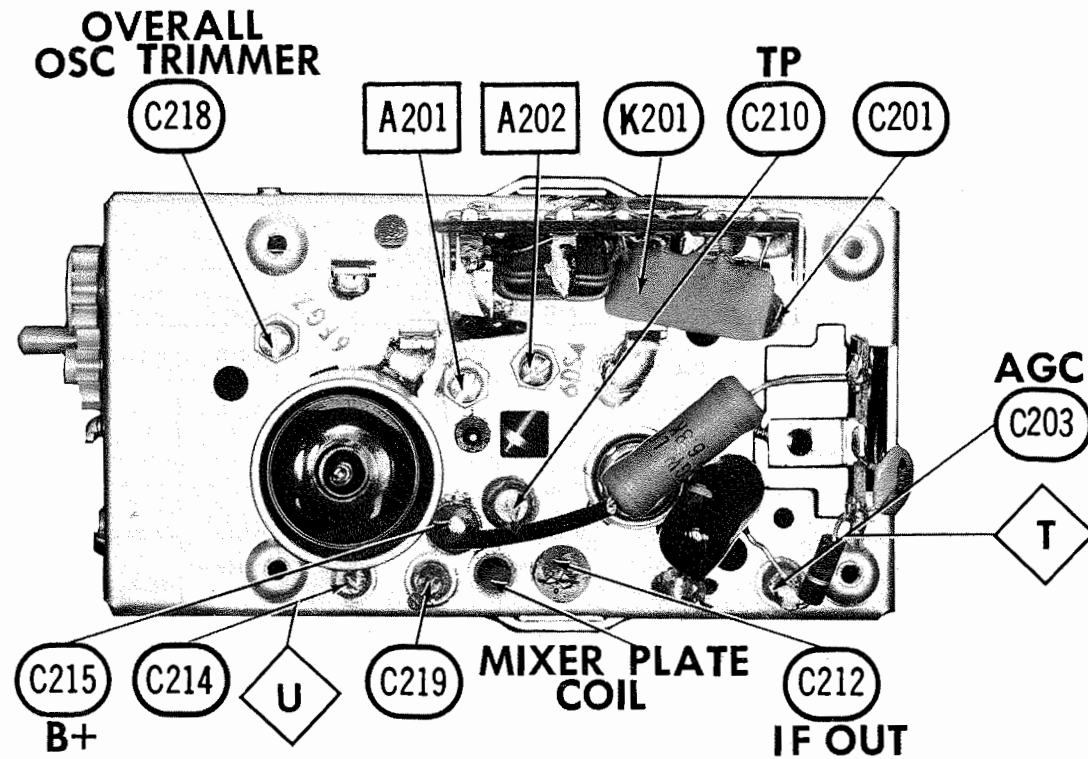


FIG. 201

MUNTZ MODELS 1411M/W,
1511M/W, 1512M/W (Ch. C18A01)

MISCELLANEOUS ADJUSTMENTS (cont)



VHF TUNER PR9021

CONVERGENCE ADJUSTMENTS

Step	Control	Use to Converge (or Straighten)	Remarks
1.			Perform Center Dot Convergence using Convergence Magnets. If more range is needed, reverse magnet holder in clip. See Fig. A.
2.	R-G Vert. Lines, Top (R27)	Red and Green Vertical Bars at top of screen.	Touch up both controls for best convergence from top to bottom along vertical center line (Fig. B).
3.	R-G Vert. Lines, Bottom (R26)	Red and Green Vertical Bars at bottom of screen.	
4.	R-G Horiz. Lines, Top (R24)	Red and Green Horizontal Bars at top of screen.	Touch up both controls for best convergence of horizontal bars along vertical center line (Fig. B).
5.	R-G Horiz. Lines, Bottom (R23)	Red and Green Horizontal Bars at bottom of screen.	
6.	Blue Horiz. Lines, Top (R30)	Blue Horizontal Bars at top of screen.	Touch up both controls for best convergence of horizontal bars along vertical center line (Fig. C).
7.	Blue Horiz. Lines, Bottom (R29)	Blue Horizontal Bars at bottom of screen.	
8.			Perform Center Dot Static Convergence (Fig. A).
9.	Blue Horiz. Lines, Right	Blue Horizontal Bars at right side of screen.	Touch up both controls for best convergence along horizontal center line (Fig. D).
10.	Blue Horiz. Lines, Left	Blue Horizontal Bars at left side of screen.	
11.	R-G Vert. Lines, Right	Red and Green Vertical lines at right side of screen.	(Fig. E)
12.	R-G Horiz. Lines, Right	Red and Green Horizontal bars at right side of screen.	Use control to converge blue bar with red and green bars on right side of screen (Fig. E)
13.	R-G Vert. Lines, Left	Red and Green Vertical bars at left side of screen.	(Fig. E)
14.	R-G Horiz. Lines, Left	Red and Green Horizontal bars at left side of screen.	Use control to converge blue bar with red and green bars at left side of screen (Fig. E).

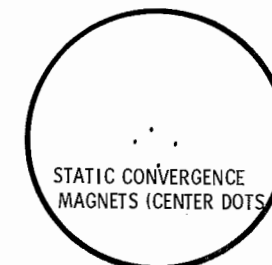


FIG. A

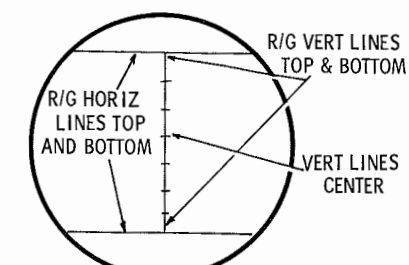


FIG. B
(RED & GREEN ONLY)

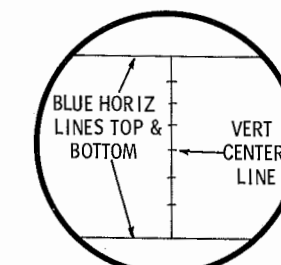


FIG. C
(BLUE BARS)

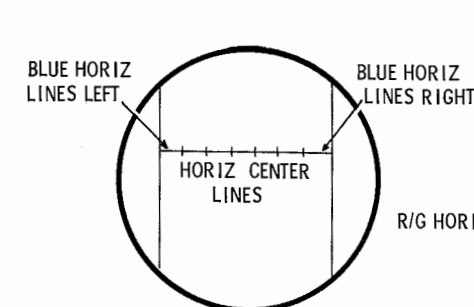


FIG. D
(BLUE BARS)

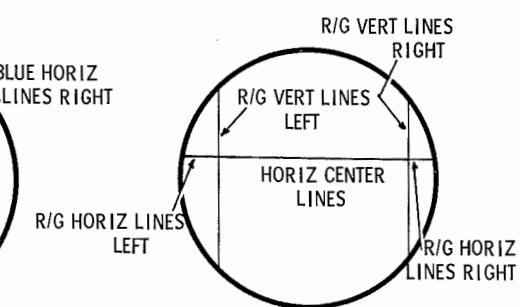
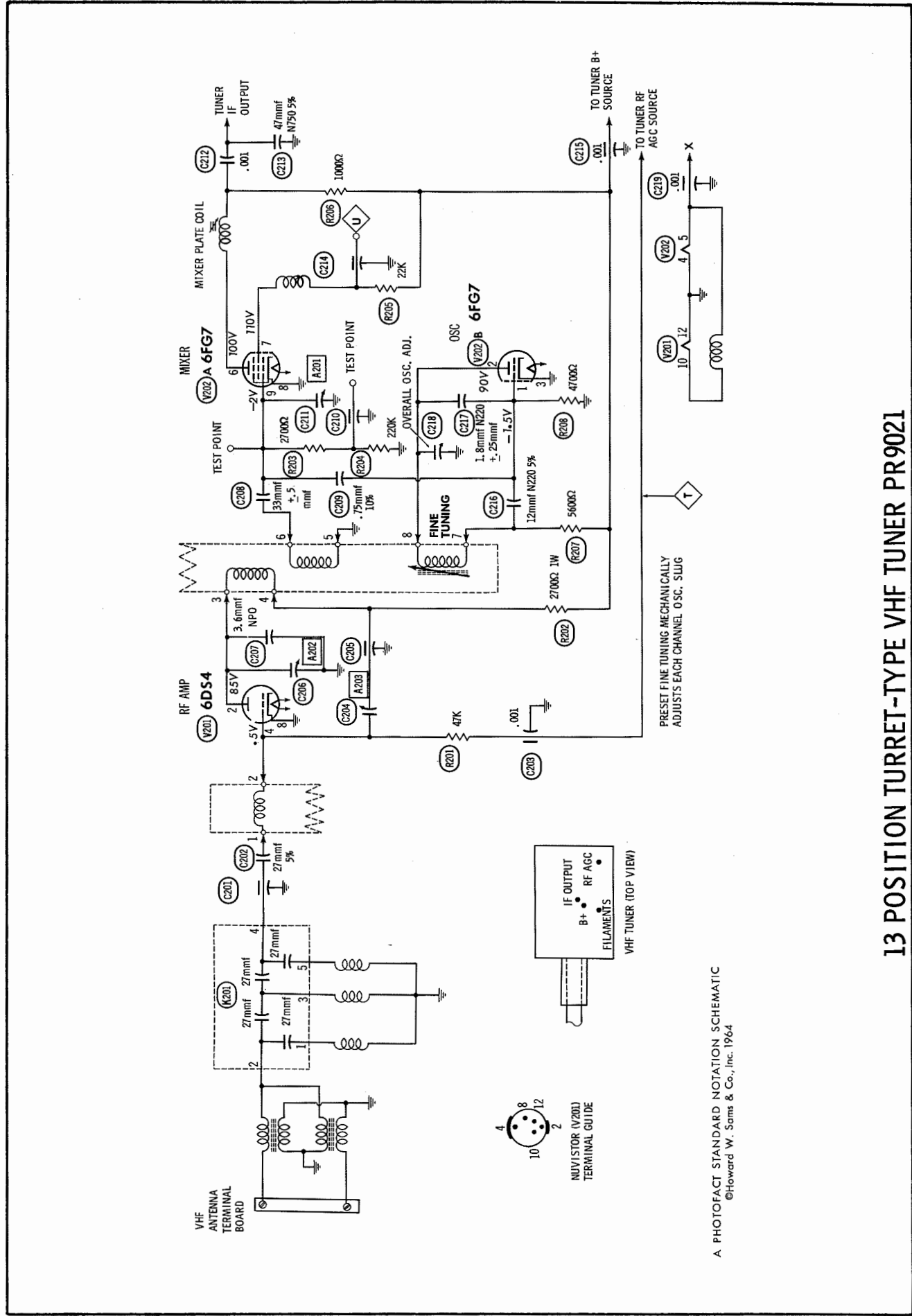


FIG. E

MUNIZ MODELS 1411M/W,
1511M/W, 1512M/W (Ch. C18A01)

FOLDER 3



13 POSITION TURRET-TYPE VHF TUNER PR9021

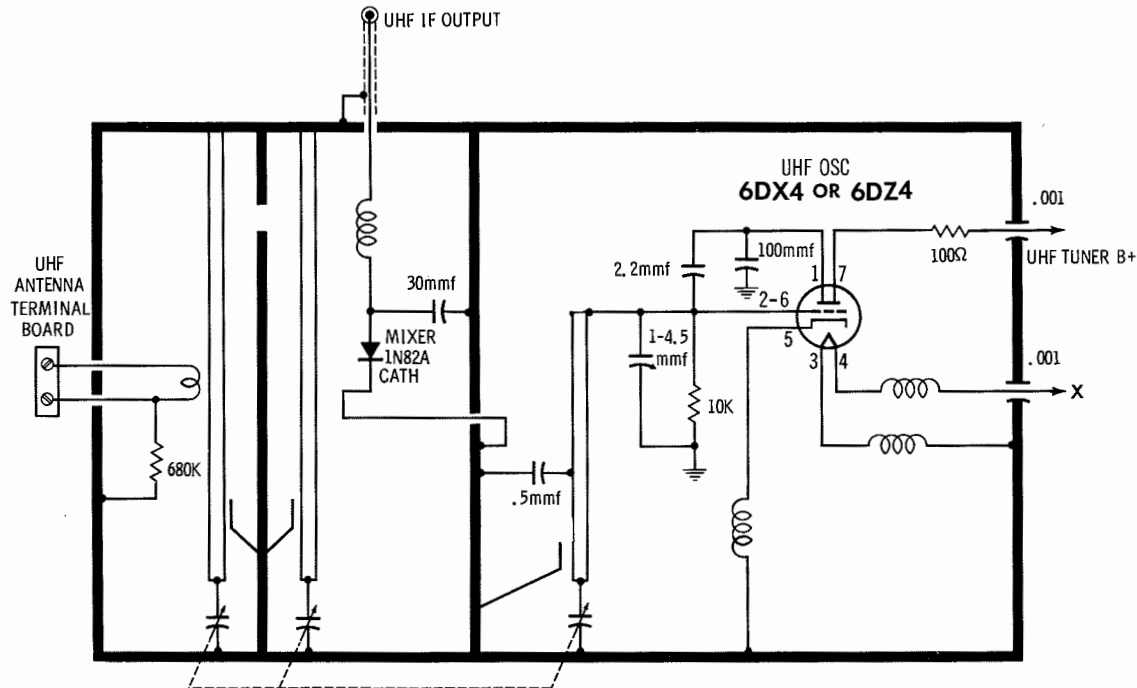
VHF TUNER PARTS LIST AND DESCRIPTION

TUBES					
AMPEREX		GENERAL ELECTRIC		RCA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	6DS4	V202	Mixer - Osc.	6FG7

FIXED CAPACITORS								
ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	27	5%	EF-001	TCZ-27 MFT-1000	C10Q25C	CCF-102	CNO427 CT280A	10TCC-Q27
C202	.001							
C203								
C204								
C205								
C206								
C207	3.6 NPO		EF-001	MFT-1000 DTZ-47	C10Q47U	CCF-102	CT280A CN7447	10TCU-Q47
C208	33 ±.5mmf							
C209	.75mmf 10%							
C210								
C211								
C212	.001							
C213	47 N750 5%		EF-001	MFT-1000	C10Q47U	CCF-102	CT280A	10TCR-Q22
C214	.001							
C215	12 N220 5%							
C216	1.8 N220 ±.25mmf							
C217								
C218								
C219	.001		EF-001	MFT-1000		CCF-102	CT280A	

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

COMPONENT COMBINATIONS				
ITEM No.	USE	DESCRIPTION	MUNTZ PART NO.	REPLACEMENT DATA
X201	Antenna Network	27mmf, 27mmf, 27mmf, 27mmf	13P-010-01	



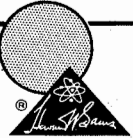
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UHF TUNER PRO338

MUNTZ MODELS 1411M/W,
1511M/W, 1512M/W (Ch. C18A01)

FOLDER 3

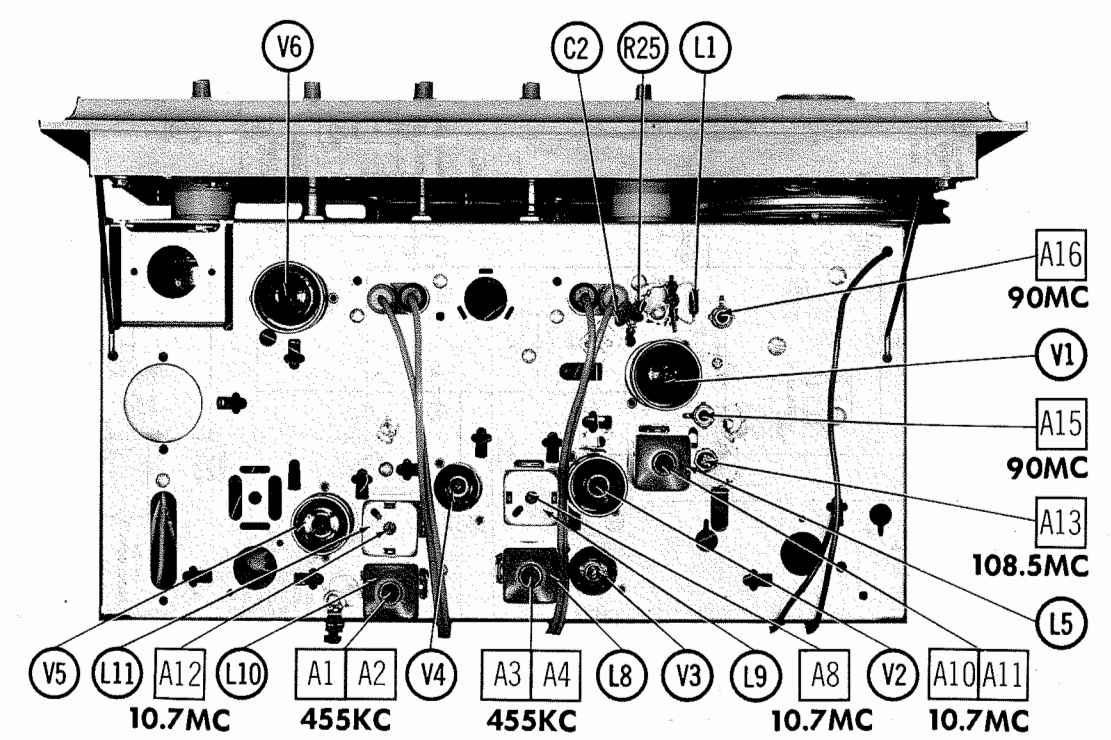
PHOTOFACT® Folder



MUNTZ AM-FM
RADIO CHASSIS AS-8050

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 727 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.



MUNTZ AM-FM
RADIO CHASSIS AS-8050

TRADE NAME: Muntz Chassis AS-8050
SUPPLIER: For Current Address, See Master Index.
TYPE SET: AM Radio
TUBES: Six
POWER SUPPLY: Obtained from Amp Chassis AS-8043
TUNING RANGE: 530-1620 KC(IF 455 KC)

HOWARD W. SAMS & CO., INC. Indianapolis 6, 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. MA896 MB912

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DATE 12-64 SET 727 FOLDER 3-A



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PARTS LIST AND DESCRIPTION (CONTINUED)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

COILS (SWEEP CIRCUITS) (cont)

COILS (SWEET CIRCLES) (CONT.)								
ITEM No.	USE	REPLACEMENT DATA						
		MUNTZ PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	WORKMAN PART No.
L39	Dynamic Convergence (Right R/G Vert. Line) (2.8MH-6.8MH)	108085						T149
L40	Dynamic Convergence Right R/G Horiz. Line (1.2MH-4.6MH)	113394						
L41	Dynamic Convergence Horiz. Right Blue (Pri. 3.8MH-9.5MH) (Sec. .13MH-.17MH)	108180						
L42	Focus	LC-9128						
L43	Convergence Yoke							
A	Blue Section	109164						
B	Green Section	109164						
C	Red Section	109164						

FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA						NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000-)	MUNTZ PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L44	.4 ADC	15.8Ω	.5 Hy.	LC-9121-2	C-4133	C-2708	26C81	C-40X	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	MUNTZ PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	128VAC 170VAC @ 3.1A	160VAC @ .44A DC	6.3VAC @ 2.5A	TP-9191 (906153-501)		P-9000C		R-300A	
	SEC. 3	SEC. 4	SEC. 5						
	6.3VAC @ 12A								

* TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		MUNTZ PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	Vert. Output Yoke (Horiz. 12.4MH) 700 (Vert. 40MH)	TO-9103 LC-9127 (109457)		YO-700C DY-90AC		A-305X YC-300-1	① Remove two 560Ω resistors.
T3		(903562-507)					
T4	Horiz. Output	TO-9104 (113382)				D-304	
		(906152-501)					

* COMPONENT CONNECTION DATA

ORIGINAL →	HV TRANSFORMER		VERTICAL OUTPUT										YOKE				
	Original Connections		Original Connections										Original Connections				
REPLACEMENT ↓	P	D	C	1	C	2	F	C	B	B	B	B	1	3	4	5	
MERIT																	
STANCOR																	
THORDARSON																	
TRIAD	P	D	C	1	C	2	F	C	B	B	B	B	1	3	4	5	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MUNTZ PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T5	5100Ω	8-8Ω	TO-9105	A-2902	A-3337	24806	S-53X	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MUNTZ PART No.	QUAM PART No.	
SP1	10" PM	SK-0037-1	10C12PA	
SP2	5 1/4" PM	SK-0025-1	52A1	
	3 1/2" PM Tweeter	SK-0031	3A1STZ.4	
	10" PM	SK-0037-1	10C12PA	
	5 1/4" PM	SK-0025-1	52A1	
	3 1/2" PM Tweeter	SK-0031	3A1STZ.4	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			MUNTZ PART No.		LITTELFUSE PART No.	
M1	1 1/4"	#26	FUSE	HOLDER	FUSE	HOLDER
			copper wire			

PHONO CARTRIDGE & NEEDLES

*NEEDLE LISTINGS SHOWN ARE FOR RESPECTIVE REPLACEMENT CARTRIDGES ONLY.

ITEM No.	REPLACEMENT DATA				NOTES
	MUNTZ PART No.	ASTATIC PART No.	ELECTRO-VOICE PART No.	SONOTONE PART No.	
M2		133	N50	132	2619
			N327		2679

MISCELLANEOUS

ITEM No.	PART NAME	MUNTZ PART No.	NOTES
M3	VHF Tuner	PR9021	
M7	Crystal	CX-9000	
M8	Switch	SW-9001	
M9	Switch	SW-9002	
M10	Switch	SW-9001	
M11	Switch		
M12	Circuit Breaker	PR-9016	
M13	Delay Line	LM-9105	
M14	Magnet	AS-9013	
M15	Printed Circuit Board	AS-9011	
	Printed Circuit Board	AS-9009	
	Printed Circuit Board	AS-9008	
	Printed Circuit Board	AS-9012	
	Printed Circuit Board	AS-9010	

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART NO.	MODEL					
		1411	1511	1512	1513	1514	1515
Mask - Picture Tube	ES-9005	X	X	X	X	X	X
Mask - Muntz Logo	ES-0121	X	X	X	X	X	X
Mask - Control	ES-9007	X	X	X	X	X	X
Mask - Logo	ES-9006	X	X	X	X	X	X
Knob-VHF Channel Selector	KB-0106-1	X	X	X	X	X	X
Knob-VHF Fine Tuning	KB-0105	X	X	X	X	X	X
Knob-UHF Channel Selector	KB-0107-1 ▲	X	X	X	X	X	X
Knob-UHF Channel Indicator	KB-0112 ▲	X	X	X	X	X	X
Knob-Vert. & Horiz. Hold Contrast	KB-9003	X	X	X	X	X	X
Knob-Off-Volume, Color, Tint and Brightness	KB-0104-1	X	X	X	X	X	X
Knob-Focus	KB-9004	X	X	X	X	X	X

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869 (17KV) or 8868 (25KV)
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8738 (Two Conductor)
Power Cord (Interlock Type)	Use BELDEN No. 8530 (Solid) Available in 12 Colors
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8275 (Foam Core) or 8285 (Foam Jacketed)
Antenna Rotor Cable	Use BELDEN No. 8484 (Flat) or 8484 (Round) - 4 Conductor
	8485 (Round) - 5 Conductor
	8488 (Round) - 8 Conductor

PARTS LIST AND DESCRIPTION

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

TUBES

ITEM No.	USE	TYPE	REPLACEMENT DATA		
			AMPEREX	GENERAL ELECTRIC	RCA
V1	1st Video IF Amp.	6JH6			
V2	2nd Video IF Amp.	6GM6			
V3	3rd Video IF Amp.	6EJ7/EF184			
V4	1st & 2nd Video Amp.	6AW8A			
V5	Video Output	12BY7A			
V6	AGC Keying - Sync Sep. - Noise Inverter	6KA8			
V7	Sound IF	6EW6			
V8	Audio Detector	6H2Z			
V9	Audio Output	6AQ5A			
V10	Vert. Mult. - Vert. Output	6GF7			
V11	Horiz. AFC - Horiz. Osc.	6FQ7			
V12	Horiz. Output	6J8			
V13	Damper	6DW4			

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	MUNTZ PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V24	21FJP22	21FJP22 ①	21FJP22 ①	21FJP22 ②	① Aluminized ② Silver Screen "85"

POWER RECTIFIERS

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS				DIODES
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	.44A	CX-9001	1N1697	1N540 or 1N2070 or 1N2094 ①	1N1764 or 1N2864 or 1N3196	60H or F-6	
X2	.44A	CX-9001	1N1697	1N540 or 1N2070 or 1N2094 ①	1N1764 or 1N2864 or 1N3196	80H or F-8	
X3							
X4	.0015A	SR-9000					
X5	.005A	SR-9001	1N1692	1N2091 or A100 or D100	1N3754	PG33-140H-Q PG33-16H-Q 20H or F-2	
X6	.025A		1N1692	A50 or D50	1N2858	S-648 or S-654	
B	.013A		1N1692	A50 or D50	1N2858		
C	.021A		1N1692	A50 or D50	1N2858		
M4							1N60
M5							1N60
M6							86C1

① A dual unit, VB600, may be used for X1 and X2.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	MUNTZ PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	180	250	CE-9108	AFH51-37-25 ①	AA0315 ①	XC1-19 ①	TMS-1480 ①	WP131.5 ①
C2A	180	250	CE-9107	AFH4-108-38	CC0330	XC3-29	TMT-3738	FP427.69
B	30	450			BR200-250	QT1-26	TD-200-300	TVL-4714.4
C	20	450						
D	40	150						
C3A	80	450	CE-9106	AFH4-108-35	CC0370	XC3-30	TMT-3763	FP427.67
B	50	450			BR50-50	QT1-15	TD-50-150	TVLS4714.6 *
C	20	250						
D	50	50						
C4	50	150						
C5A	80	450	CE-9105	PR51480	BR50-150	QT1-17	TD-50-150	TC49
B	2	350		AFH2-98 ②	AA0510	XC1-8	TMS-1800	FP230.7
					BR2-550	QT1-1	TD-2-450	TVLS2738.5 *

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

① Use insulating sleeve and mounting wafer. ② Use MW-4 mounting plate.

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.
C6	.033	200V	P288N-033	DD-303	WMF2833	ADP-2-333	PVC2133	4PS-533
C7	.001	(.15) ↑	BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C8	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C9	.1	200V	P288N-1	DF-104	PKM2P1	2DP-3-104	GEM-201	2TM-P10
C10	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C11	9	NPO		TCZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-V82
C12	150	NPO 5%		DTZ-150	C10T15C		CNO-315	10TCC-T15
C13	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C14	.001	N2200 10%	#102237					
C15	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C16	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C17	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C18	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C19	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C20	.220	N1500 10%	#CC-9005					
C21	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C22	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C23	.001		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10

PARTS LIST AND DESCRIPTION (CONTINUED)

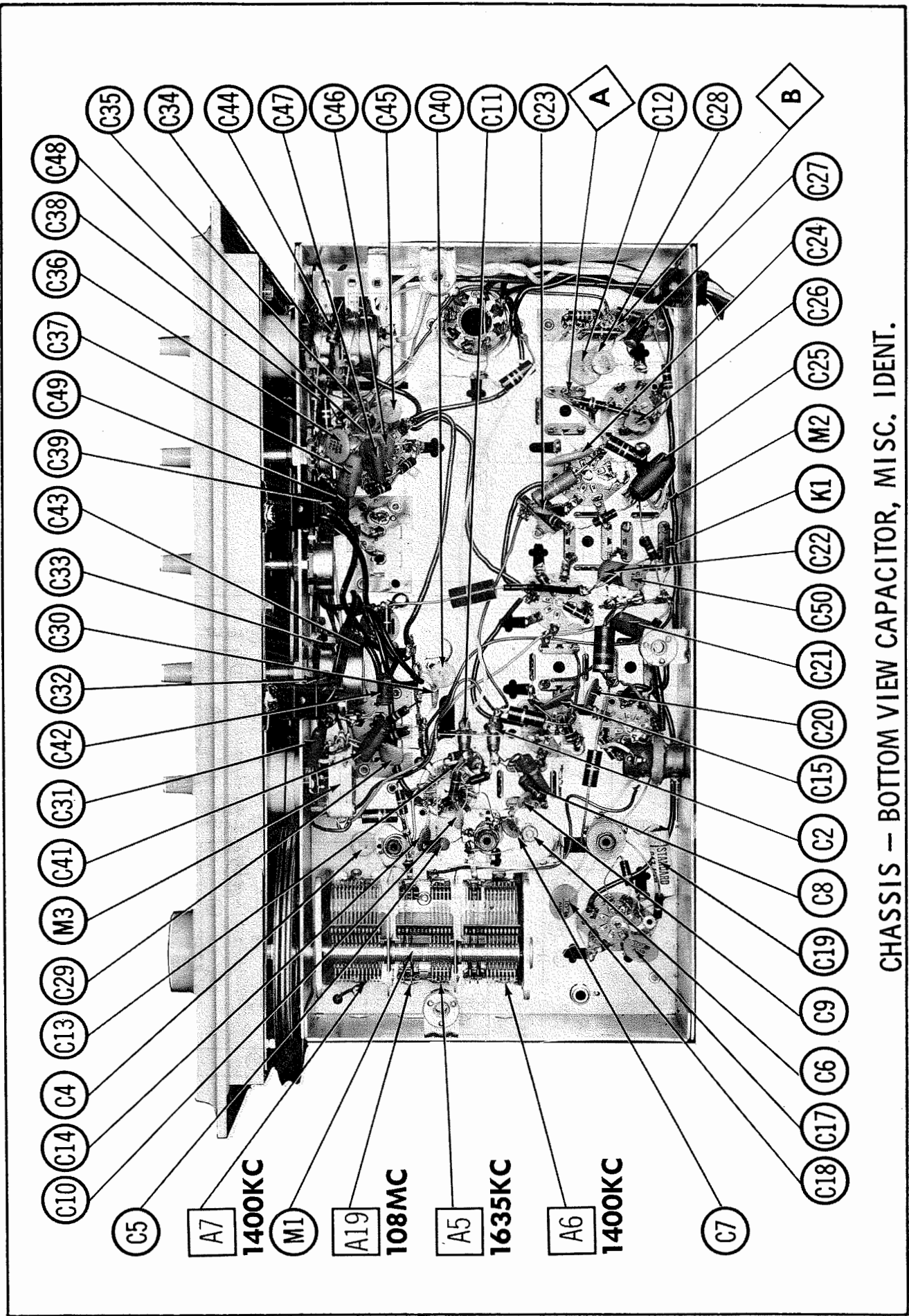
Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOPART No.	MALLORY PART No.	SPRAGUE PART No.
C24	.001	#109142	1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C25	560 N1500 5%		DI-2200	CF-222	JB6D22	CCD-222	GP222	10T8-D22
C26	.0022 10%		1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10
C27	.001		1000	TCZ-10	C10Q1C	*	CNO-410	10TCC-Q10
C28	10 NPO 5%		#105304	BPD-001	DD-102	BYA10D1	CCD-102	B-210
C29	100 N3300 10%			DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C30	.001			TCZ-6R7	C10V33C	CCTO-3R3	CNO-533	10TCC-V33
C31	7 NPO 5%			DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C32	3.5 NPO 5%			DF-104	PKM2P1	2DP-3-104	GEM-201	2TM-P10
C33	.1 400V			DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C34	.1 200V			DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C35	.01			DI-2200	CF-222	JB6D22	CCD-222	GP222
C36	.0022 10%			DI-390	DD-391	LA10T39-C4	CCD-391	GP339
C37	390 10%	#103411	1000	DD-391	LA10T39-C4	CCD-391	GP339	10T8-T39
C38	390 10%		1000	DD-391	LA10T39-C4	CCD-391	GP339	10T8-T39
C39	.22 200V		1000	DD-391	LA10T39-C4	CCD-391	GP339	10T8-T39
C40	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C41	.001		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C42	.001		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C43	.001		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C44	.001		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C45	.220 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C46	.001		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C47	180 1KV 10%	#103411	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C48	1.5 N3300		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C49	10 NPO 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C50	5 N1500 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C51	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C52	750 N2200 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C53	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C54	560		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C55	.047 200V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C56	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C57	.01	#CPM-9000	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C58	47 N750 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C59	.0068		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C60	.001		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C61	.0047		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C62	.001 2KV 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C63	.0033		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C64	390 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C65	.001		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C66	47 NPO 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C67	.0022	#113387	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C68	.0015		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C69	.038 600V 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C70	.0027 N5600 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C71	.1 600V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C72	.1 600V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C73	.47 200V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C74	.0082 1KV		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C75	.047 200V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C76	880		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C77	880	#CPM-9000	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C78	.0068 400V 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C79	.001 2KV 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C80	100 N1500 3KV 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C81	560 N3300 2.5KV 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C82	560 N3300 2.5KV 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C83	68 NPO 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C84	820 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C85	820 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C86	27 N750 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C87	.001	#109806	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C88	.15 200V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C89	390 1.5KV 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C90	.01 400V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C91	980		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C92	.0015 600V 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C93	.01 600V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C94	.1 600V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C95	.047 600V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C96	68 4KV 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C97	130 N2200 6KV	#CC-9002	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C98	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C99	.01 1.4KV		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C100	.1 800V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C101	22 1KV		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C102	.068 800V 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C103	.082 800V ±10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C104	.01 1.4KV		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C105	27 N750		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C106	120 N1500 4KV 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C107	.001	#113595	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C108	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C109	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C110	120 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C111	330 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C112	330 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C113	330 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C114	330 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C115	10 NPO 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C116	.047 200V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C117	.01	#112864	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C118	820 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C119	.001		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C120	150 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C121	470 N750 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C122	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C123	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C124	1.3 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C125	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C126	.1 200V		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C127	.4 NPO ±5mmf	#112864	1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C128	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C129	.01		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C130	10 NPO 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C131	220 N750 10%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C132	8 NPO 5%		1000	DD-103	BYA10S1	CCD-103	B-110	5HK-S10

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOPART No.	MALLORY PART No.	SPRAGUE PART No.
C133	.01	#109260	BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C134	82 NPO 10%		ADM-15-151	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C135	.047 200V 5%		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C136	.01 N150		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C137	.01		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C138	.01 600V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C139	.01 600V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C140	.01 600V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C141	.33 N150		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C142	.01 600V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C143	.01 600V	#CC-9007	DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C144	.22 400V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C145	.01 600V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C146	.01 600V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C147	.058 400V 10%		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C148	.1 400V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C149	.1 200V		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C150	.12 200V 10%		DD-503	DD-103	BYA10S1	CCD-103	B-110	5HK



CHASSIS — BOTTOM VIEW CAPACITOR, MISC. IDENT.

SET 727 FOLDER 3-B

MUNTZ AM-FM
RADIO CHASSIS AS-8042/8042-1



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. MA896 MB912

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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DATE 12-64

SET 727 FOLDER 3-B

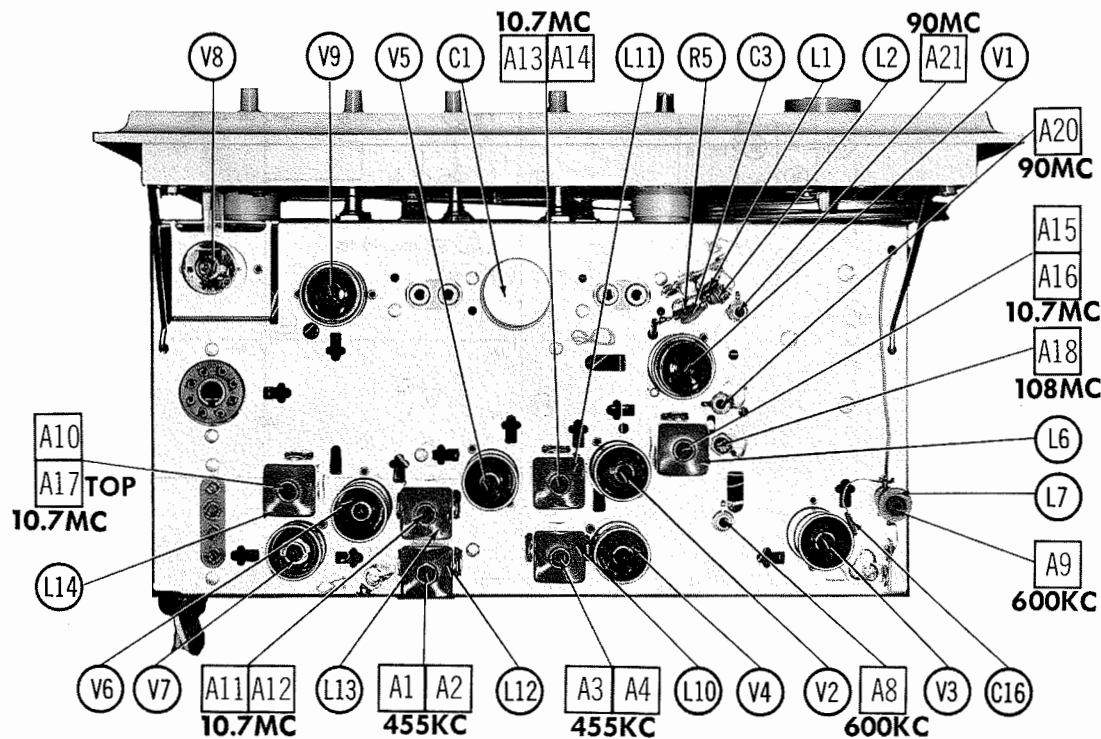
PHOTOFACT® Folder



IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 727 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.

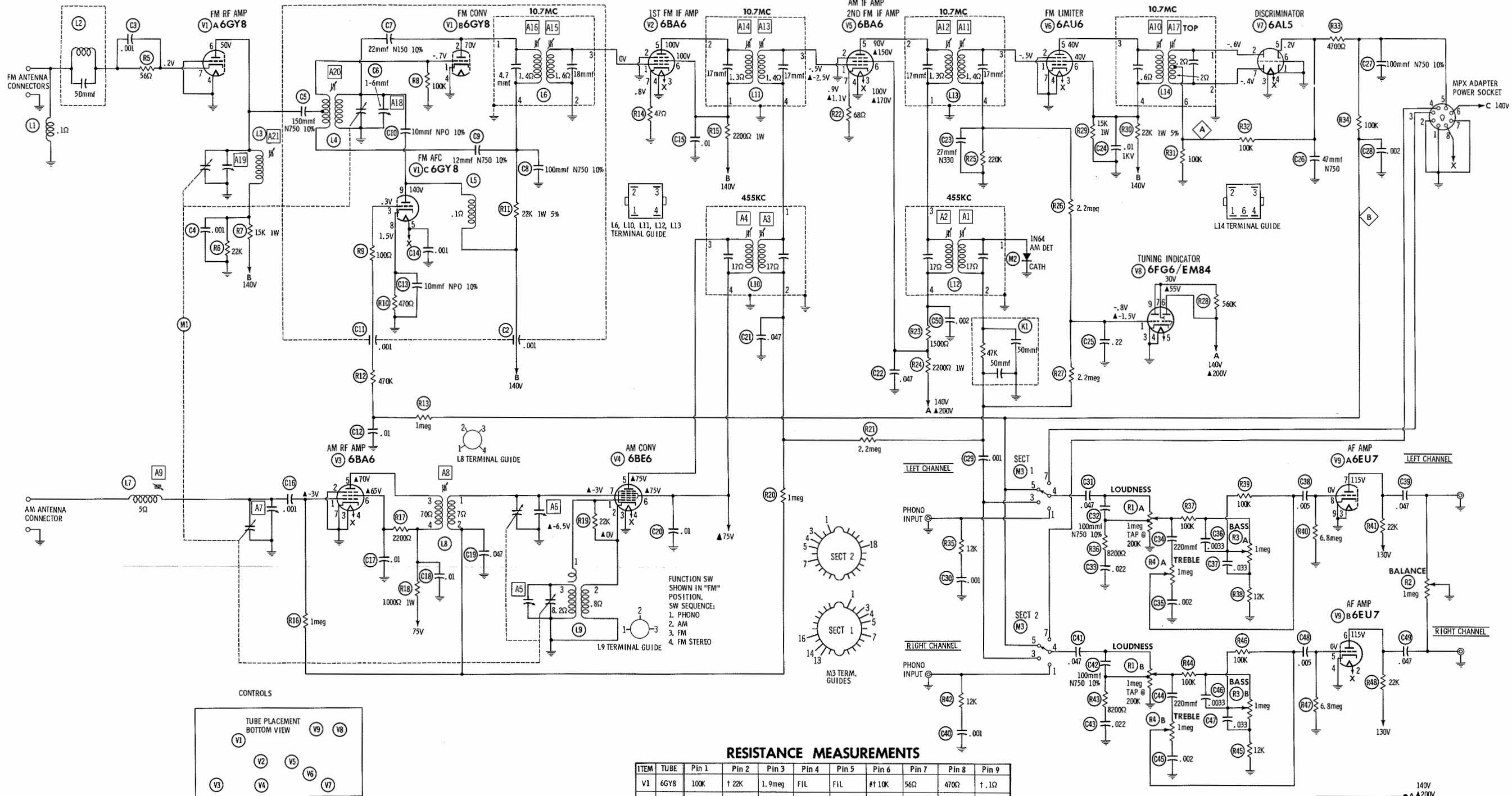
MUNTZ AM-FM
RADIO CHASSIS AS-8042/8042-1



TRADE NAME: Muntz Chassis AS-8042
SUPPLIER: For Current Address, See Master Index.
TYPE SET: AM-FM Stereo Tuner
TUBES: Nine
POWER SUPPLY: Obtained from Amp Chassis AS-8041
TUNING RANGE: AM 530-1635KC (IF 455KC) FM 88-108MC (IF 10.7MC)

MUNTZ AM-FM
RADIO CHASSIS AS-8042/8042-1

SET 727 FOLDER 3-B

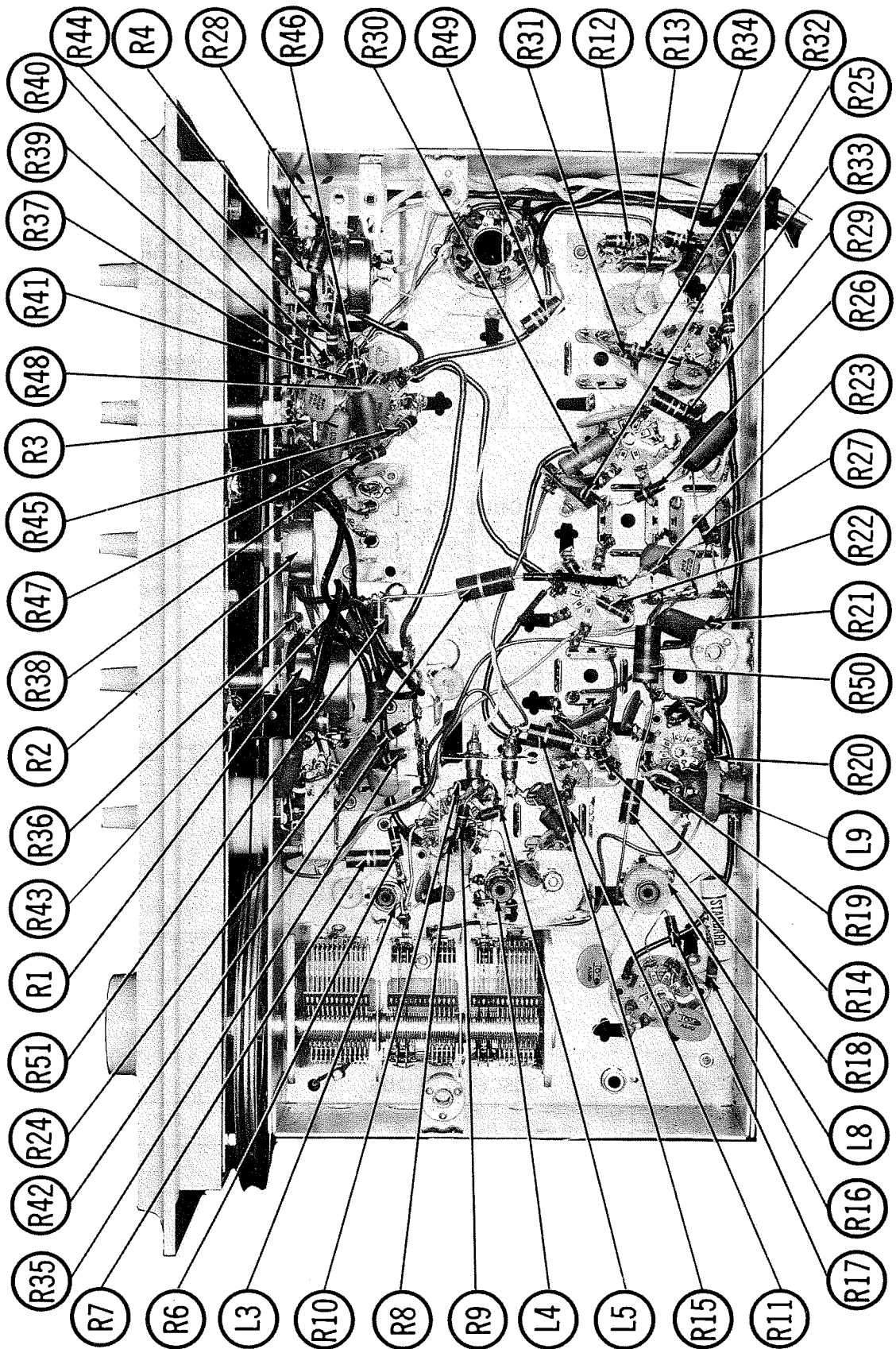


Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated.
 See parts list for alternate value or application.
 1. Voltage measurements taken with vacuum tube voltmeter.
 2. All controls set for normal operation, no signal applied.
 3. Measured values are from socket pin or terminal to common ground.
 4. All terminals viewed from bottom unless otherwise designated.
 5. Numbers assigned to terminals may not be found on the unit.
 6. Supply voltage maintained at rated value for voltage readings.

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MUNTZ AM-FM
 RADIO CHASSIS AS-8042/8042-1

FOLDER 3-B



CHASSIS — BOTTOM VIEW RESISTOR, INDUCTOR IDENT.

ALIGNMENT INSTRUCTIONS

Maintain line voltage at 117 volts. Use only enough generator output to obtain a suitable indication. Allow a 15 minute warmup for receiver and equipment.
CAUTION: Use isolation transformer, if available. If not, observe polarity when connecting test equipment.
Suggested Alignment Tools:
A1 thru A4, A8 thru A17, A20, A21 GENERAL CEMENT: 8606, 8606L, 8869 WALSCO: 2543, 2544, 2588
A5, A6, A7, A18, A19 GENERAL CEMENT: 8868, 9087, 9089 WALSCO: 2528, 2541, 2587

AM ALIGNMENT — SELECTOR IN AM POSITION

Fashion loop of several turns of wire and connect generator across loop. Set volume control at maximum.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. 455KC (400v Mod.)	Tuning gang fully open.	Output Meter across Voice coil.	A1, A2, A3, A4	Adjust for maximum. Repeat until no further improvement can be made.
2. 1635KC	"	"	A5	Adjust for maximum.
3. 1400KC	Tune to signal.	"	A6, A7	"

FM ALIGNMENT USING AM SIGNAL GENERATOR — SELECTOR IN FM POSITION

High side to ungrounded shield over FM converter tube, low side to ground.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. 10.7MC (Unmod.)	Point of non-interference.	DC probe of VTVM to point Δ ; common to ground.	A10, A11, A12, A13, A14, A15, A16	Adjust for maximum.
6. "	"	DC probe to point Δ ; common to ground.	A17	Adjust for zero reading. A positive or negative reading will be obtained on either side of the correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR — SELECTOR IN FM POSITION

High side to ungrounded shield over FM converter, low side to ground. Use only enough marker signal to obtain indication. Use 80v frequency modulated signal with 450KC sweep. Use 120v sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. 10.7MC (450KC Swp.)	Point of non-interference	Vert. amp. of Scope to point Δ ; low side to ground.	A10, A11, A12, A13, A14, A15, A16	Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown.
6. "	"	Vert. amp. to point Δ ; low side to ground.	A17	Adjust A 17 (Secondary) to place marker at center of crossover lines similar to Fig. 2. Adjust A 10 (Primary) for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT

Connect generator across antenna terminals with 120 Ω carbon resistors in series with each lead.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
7. 108MC	Set at high end.	DC probe of VTVM to point Δ ; common to ground.	A18, A19	Adjust for maximum.
8. 90MC	Tune to signal.	"	A20, A21	Rock tuning and adjust for maximum. Repeat steps 7 and 8 until no further improvement can be made.

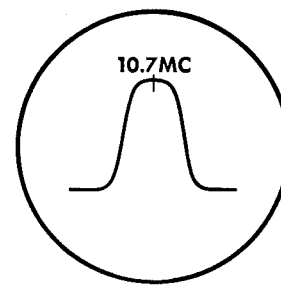


FIG. 1

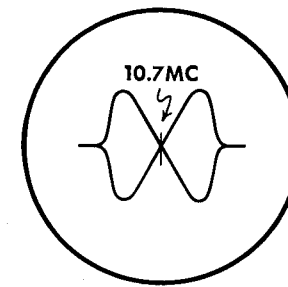


FIG. 2

PARTS LIST AND DESCRIPTION

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

TUBES

• AMPEREX •			• GENERAL ELECTRIC •			• RCA •			• SYLVANIA •		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	FM RF Amp-FM Conv.--- FM AFC	6GY8	V6	FM Limiter	6AU6	V7	Ratio Det.	6AL5	V8	Tuning Indicator	6FG6/EM84
V2	1st FM IF Amp.	6BA6	V8	Tuning Indicator	6FG6/EM84	V9	AF Amp.	6EU7			
V3	AM RF Amp.	6BA6									
V4	AM Conv.	6BE6									
V5	2nd FM IF-AM IF Amp.	6BA6									

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	MUNTZ PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	20 20	300 300	CE-8012	AFH2-37	BB0310	XC2-14	TMD-2295	FP227A	TVL-2755

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C2	.001	#CC-8010	EF-001	MFT-1000	CCF-102	CT280A		
C3	.001		BPD-001	DD-102	BYA10D1	CCD-102	B210	5HK-D10
C4	.001		BPD-001	DD-102	BYA10D1	CCD-102	B210	5HK-D10
C5	150 N750 10%			TCN-150	C10T15U	CCTN-151	CN7315	10TCU-T15
C6	1-6			829-6		CV-3	CT552	
C7	22 N150 10%					*		10TCP-Q22
C8	100 N750 10%			TCN-100	C10T1U	CCTN-101	CN7310	10TCU-T10
C9	12 N750 10%			TCN-12			CN7412	10TCU-Q12
C10	10 NPO 10%			DTZ-10	C10Q1C	CCTO-100	CNO410	10TCC-Q10
C11	.001		NPO-DI-10					
C12	.01	#CC-8009	EF-001	MFT-1000	CCF-102	CT280A		
C13	.01		BPD-01	DD-103	BYA10S1	CCD-103	B110	5HK-S10
C14	.01		NPO-DI-10	DTZ-10	C10Q1C	CCTO-100	CNO410	10TCC-Q10
C15	.01		BPD-001	DD-102	BYA10D1	CCD-102	B210	5HK-D10
C16	.001		BPD-01	DD-103	BYA10S1	CCD-103	B110	5HK-S10
C17	.01		BPD-001	DD-102	BYA10D1	CCD-102	B210	5HK-D10
C18	.01		BPD-01	DD-103	BYA10S1	CCD-103	B110	5HK-S10
C19	.047 100V		BPD-01	DD-103	BYA10S1	CCD-103	B110	5HK-S10
C20	.01		P288N-047	DD-503	WMF1S47	1DP-2-473	PVC1147	2PS-S47
C21	.047 100V		BPD-01	DD-103	BYA10S1	CCD-103	B110	5HK-S10
C22	.047 400V	#CC-8009	P288N-047	DD-503	WMF1S47	1DP-2-473	PVC1147	2PS-S47
C23	27 N330		P488N-047	DD-503	PM4S47	4DP-3-473	GEM4147	4TM-S47
C24	.01 1KV					*		10TCP-Q27
C25	.22 50V		BPD-01	DD-103	BYA10S1	CCD-103	B110	5HK-S10
C26	47 N750		P288N-22	DD-202	WMF1P22	1DP-3-224	PVC1022	2PS-P22
C27	100 N750 10%		N750-DI-47	DTN-47	C10Q47U	CCTN-470	CN7310	10TCU-T10
C28	.002			TCN-100	C10T1U	CCTN-101	CN7310	10TCU-T10
C29	.001		BPD-002	DD-202	BYA10D2	CCD-202	B220	5HK-D20
C30	.001		BPD-001	DD-102	BYA10D1	CCD-102	B210	5HK-D10
C31	.047 100V		BPD-001	DD-102	BYA10D1	CCD-102	B210	5HK-D10
C32	100 N750 10%	#CC-8009	P288N-047	DD-503	WMF1S47	1DP-2-473	PVC2147	2PS-S47
C33	.022 200V			TCN-100	C10T1U	CCTN-101	CN7310	10TCU-T10
C34	.002		P288N-022	DD-203	WMF2S22	4DP-2-223	PVC2122	2PS-S22
C35	.0033		DI-220	DD-221	LA10T22-S3	CCD-221	GP322	10TS-T22
C36	.0033		BPD-002	DD-202	BYA10D2	CCD-202	B220	5HK-D20
C37	.033 100V		BPD-0033	DD-332	BYA10D33	CCD-332	B233	5HK-D33
C38	.005		P288N-033	DD-303	WMF1S33	1DP-1-333	PVC1133	4PS-S33
C39	.047 400V		BPD-005	DD-502	BYA10D5	CCD-502	B250	5HK-D50
C40	.001		P488N-047	DD-503	PM4S47	4DP-3-473	GEM4147	4TM-S47
C41	.047 100V		BPD-001	DD-102	BYA10D1	CCD-102	B210	5HK-D10
C42	100 N750 10%	#CC-8009	P488N-047	DD-503	WMF1S47	1DP-2-473	PVC1147	2PS-S47
C43	.022 200V			TCN-100	C10T1U	CCTN-101	CN7310	10TCU-T10
C44	.002		P288N-022	DD-203	WMF2S22	4DP-2-223	PVC2122	2PS-S22
C45	.0033		DI-220	DD-221	LA10T22-S3	CCD-221	GP322	10TS-T22
C46	.0033		BPD-002	DD-202	BYA10D2	CCD-202	B220	5HK-D20
C47	.033 100V		BPD-0033	DD-332	BYA10D33	CCD-332	B233	5HK-D33
C48	.005		P288N-033	DD-303	WMF1S33	1DP-1-333	PVC1133	4PS-S33
C49	.047 400V		BPD-005	DD-502	BYA10D5	CCD-502	B250	5HK-D50
C50	.002		P488N-047	DD-503	PM4S47	4DP-3-473	GEM4147	4TM-S47
			BPD-002	DD-202	BYA10D2	CCD-202	B220	5HK-D20

Muntz Part Number

PARTS LIST AND DESCRIPTION (CONTINUED)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			MUNTZ PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1A	Loudness, Left	1meg	VC-8034	F12-1meg, R12-1meg, TFS212		B13-137X, B13-137X, SK9, QCM or (BU1, CF44T, CR32T, SS4, SS7A, DC1)*	FC16T254, RU16T254, SL45
B	Loudness, Right	1meg					
R2	Balance	1meg	VC-8033	F1-1meg, SFS212 or (AB-69, AK-33)	A47-1meg-S, R5-3/16	B11-137, SK9 or (BU1, CF17, SS4, DC1)*	UA16L, SD3500, or (RU16L, SL35, IS1625) or (U54, DS37)
R3A	Bass, Left	1meg	VC-8032	F2-1meg, R2-1meg, TFS212 or (AB-70, SR-70, AK-33)	DA-1meg-Z, R-1meg-Z, R5-3/16	B13-137, B13-137, SK9, QCM or (BU1, CF28, CR21, SS4, SS7A, DC1)*	FA16A, RU16A, SL45
B	Bass, Right	1meg					
R4A	Treble, Left	1meg	VC-8031	F1-1meg, R1-1meg, TFS212, KR-1 or (AB-69, SR-69, AK-33, KR-1)	DA-1meg-S, R-1meg-S, R5-3/16 SWE-12	B11-137, BU-137, SK9, QCM, 76-1 or (BU1, CF17, CR12, SS4, SS7A, GC)*	FA16L, RU16L, SL45, US41
B	Treble, Right, Switch	1meg					

* "SNAPTROL"

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		MUNTZ PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	RF Choke (1uh)	LC-9125	BC-561	4602	RTC-8515	T855	① Wound on 50uuf cap.
L2	FM Ant. ①	LC-8017					
L3	FM RF	LC-8016					
L4	FM Osc.	LC-8015					
L5	RF Choke (1uh)	LC-9125	BC-561	4602	RTC-8515	T855	† Drill new mounting holes.
L6	1st FM IF	LI-8004	FM-254	1457	RTC-8599	T633	
L7	AM Ant. Loading	LA-8002					
L8	AM RF	LR-8002	BC-388	70-RF	RTC-8732	T501	
L9	AM Osc.	LO-8008	BC-393†	69-Osc.†	RTC-8648†	T508†	
L10	1st AM IF	LI-8006	BC-352	14-C1	RTC-8632	T607	
L11	2nd AM IF	LI-8005	FM-254	1457	RTC-8599	T633	
L12	2nd AM IF	LI-8006	BC-353	14-C2	RTC-8633	T608	
L13	3rd FM IF	LI-8005	FM-254	1457	RTC-8599	T633	
L14	Discriminator	LO-8005-1	FM-255A	1459A		TB691*	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PART NO.	REPLACEMENT DATA
K1	Diode RF Filter	47K, 50mmf, 50mmf	CC-8001	Aerovox PA-99 CRL PC-52 Sprague D-3

MISCELLANEOUS

ITEM No.	PART NAME	MUNTZ PART No.	NOTES
M1	Tuning Capacitor	CT-8013	5 Gang AM-FM AM Detector (1N64) Function
M2	Diode	CX-0036	
M3	Switch	SW-8007	

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in 12 Colors
8524 (Stranded) Available in 12 Colors
Power Cord Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft.
17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type) Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)

MUNTZ AM-FM
RADIO CHASSIS AS-8042/8042-1

FOLDER 3-B

PARTS LIST AND DESCRIPTION (CONTINUED)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

TRANSFORMER (AUDIO OUTPUT)

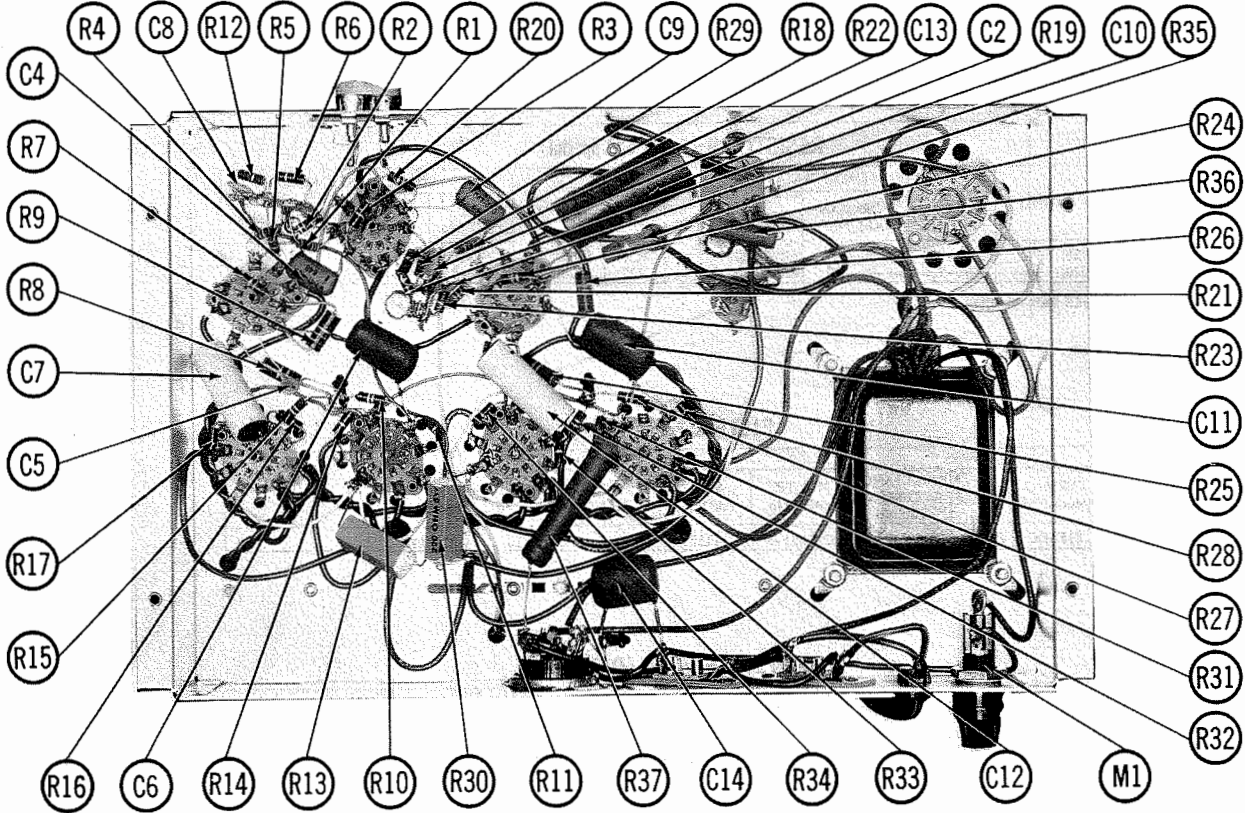
ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MUNTZ PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	6000Ω CT	6-8Ω	TA-8008	A-4081	A-3870	24S14	S-55X	
T3	6000Ω CT	6-8Ω	TA-8008	A-4081	A-3870	24S14	S-55X	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			MUNTZ PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG	3A @ 125V Slo-Blo	FU-0005-3	PR-0307	313003 (3AG, 3A, 125V, S/B)	342012	MDX3	HKP

WIRING DATA

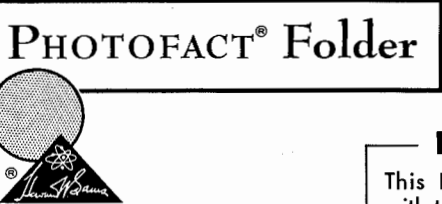
General-use Unshielded Hook-up Wire Use BELDEN No. 6530 (Solid) Available in 12 Colors
8524 (Stranded) Available in 12 Colors
Power Cord Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft.
17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type) Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)



CHASSIS—BOTTOM VIEW

SET 727 FOLDER 3-C

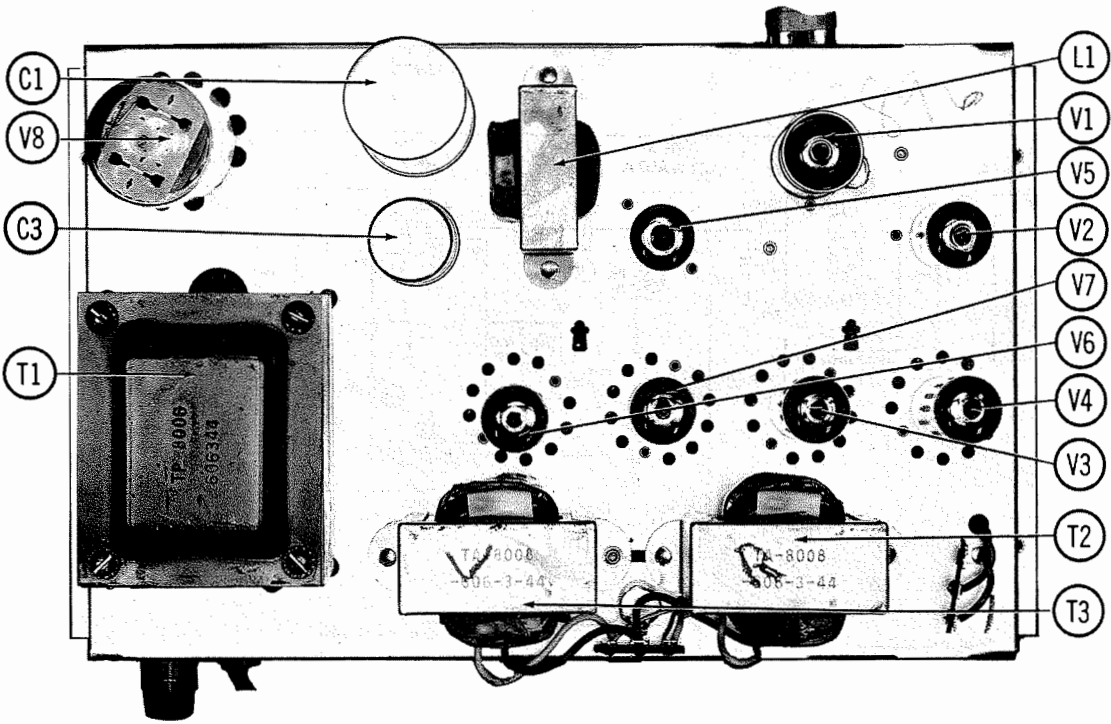
MUNTZ STEREO
AMP CHASSIS AS-8041



MUNTZ STEREO
AMP CHASSIS AS-8041

IMPORTANT FILING NOTICE

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TRADE NAME	Muntz Chassis AS-8041	
SUPPLIER	For current address, see Master Index.	
TYPE SET	Stereo Power Amplifier	
TUBES	Eight	
POWER SUPPLY	110-120 Volts AC, 60 Cycles	RATING 140 Watts, 1.5 Amps. @ 117 Volts AC

MUNTZ STEREO
AMP CHASSIS AS-8041

SET 727 FOLDER 3-C

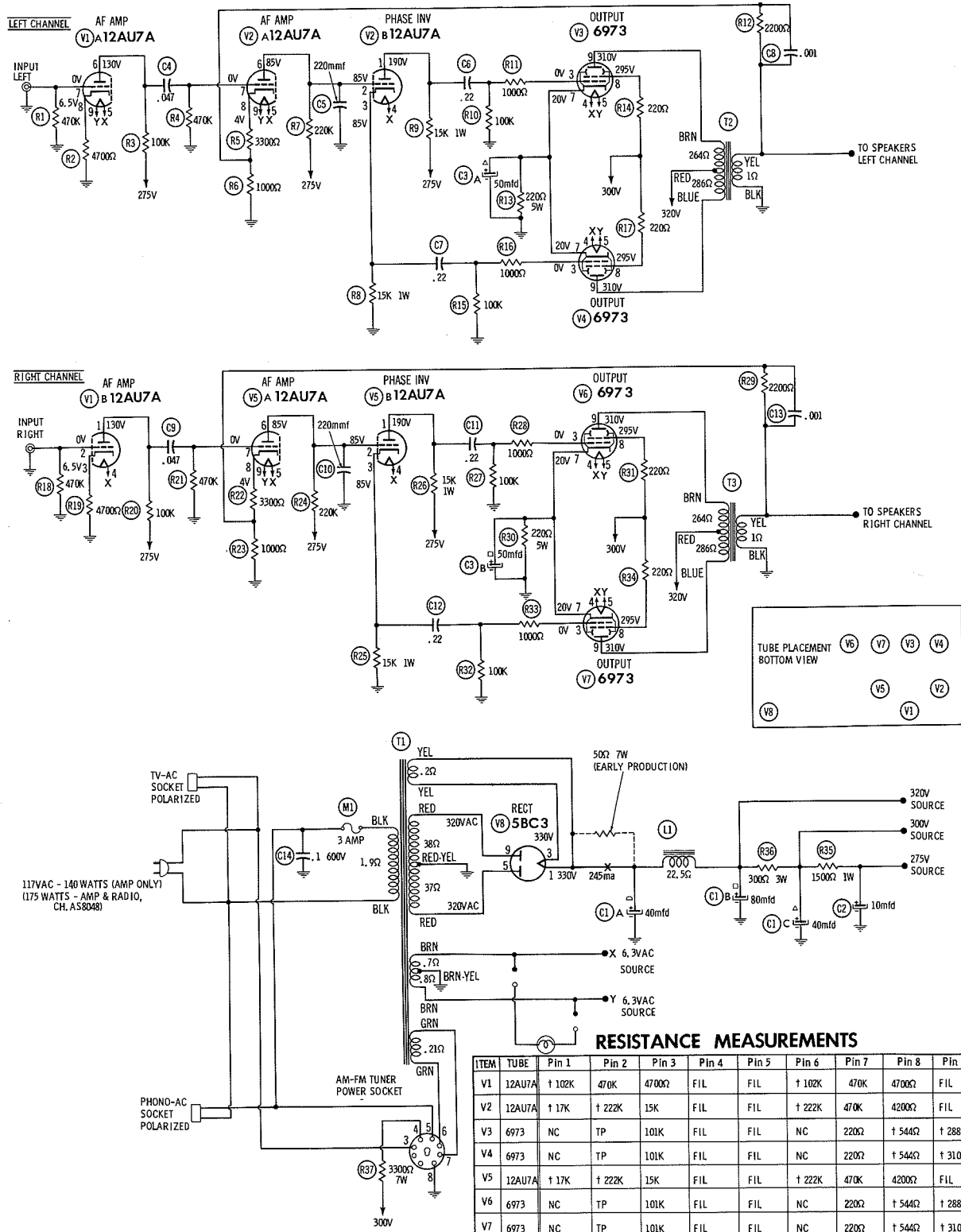
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



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DATE 12-64 SET 727 FOLDER 3-C



Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated.

See parts list for alternate value or application.

1. Voltage measurements taken with vacuum tube voltmeter.

2. All controls set for normal operation, no signal applied.

3. Measured values are from socket pin or terminal to common ground.

4. All terminals viewed from bottom unless otherwise designated.

5. Numbers assigned to terminals may not be found on the unit.

6. Supply voltage maintained at rated value for voltage readings.

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MUNTZ STEREO
 AMP CHASSIS AS-8041

PARTS LIST AND DESCRIPTION

Replacement parts shown may be superseded by the availability of newly introduced replacements.
 Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	AF Amp.	12AU7A	V5	AF Amp. - Phase Inverter	12AU7A
V2	AF Amp. - Phase Inverter	12AU7A	V6	Output	6973
V3	Output	6973	V7	Output	6973
V4	Output	6973	V8	Rectifier	5BC3

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA
CAP.	VOLT.	MUNTZ PART No.
C1A	40	CE-8010
B	80	AFH3-154-30
C	40	CC0370
C2	10	BR20-350
C3A	50	PR51620
	50	AFH2-06
	50	BR10-450
	50	BB0085
	50	QT1-6
	50	XC2-37
	50	TD-10-450
	50	TMD-2045
	50	TC62
	50	WP202.1A
	50	TVA-1604
	50	TVL-2320

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA
			AEROVOX PART No.
C4	.047 400V		P488N-047
C5	.220		DI-220
C6	.22 200V		P288N-22
C7	.22 400V		P488N-22
C8	.001		BPD-001
C9	.047 400V		P488N-047
C10	.220		DI-220
C11	.22 200V		P288N-22
C12	.22 400V		P488N-22
C13	.001		BPD-001
C14	.1 600V		P688N-1
			DD-503
			DD-221
			PM4547
			LA10T22-S3
			WMF2P22
			WMF4P22
			BYA10D1
			PM4547
			LA10T22-S3
			WMF2P22
			WMF4P22
			BYA10D1
			PM6P1
			4DP-3-473
			CCD-221
			2DP-4-224
			2DP-5-224
			CCD-102
			4DP-3-473
			CCD-221
			2DP-4-224
			2DP-5-224
			CCD-102
			B210
			GEM4147
			GP322
			10TS-T22
			2PS-P22
			4PS-P22
			6TM-P10

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	ITEM No.	RATING	REPLACEMENT DATA
		IRC PART No.			IRC PART No.
R13	220Ω 5W	PW5-200	R36	300Ω 3W	PW5-300
R30	220Ω 5W	PW5-200	R37	3300Ω 7W	PW10-3300
		5W-SQ-200			5W-SQ-300
		5W-SQ-200			7G-3300
		#RW-220-15			#RG-3301-13
		#RW-220-15			#RG-300-17

Muntz Part Number

FILTER CHOKE

ITEM No.	RATINGS	REPLACEMENT DATA	NOTES
	CURRENT (Measured)	DC RES.	
L1	.245ADC	22.5Ω	.43 Hy.
			LC-0081-3
			C-4115
			C-2343
			26C79
			C-34X

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA	NOTES
	PRI.	SEC. 1	
T1	117VAC @ 1.8A	640VCT @ .245A DC	5VAC @ 3A
	SEC. 3	SEC. 4	SEC. 5
	6.3VCT @ 2.5A	6.3VAC @ 2.8A	
			TP-8006

MUNTZ STEREO
 AMP CHASSIS AS-8041

FOLDER 3-C

PARTS LIST AND DESCRIPTION (CONTINUED)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			REMARKS
		IRC PART No.	WORKMAN PART No.		
R2	270Ω 3W	PW5-250	5W-SQ-250		
R5	270Ω 3W	PW5-250	5W-SQ-250		
R7	220Ω 3W	PW5-200	5W-SQ-225		

ITEM No.	RATING	REPLACEMENT DATA			REMARKS
		IRC PART No.	WORKMAN PART No.		
R8	270Ω 10W	PW10-250	10W-SQ-250		*RW-270-110
R9	1800Ω 7W	PW10-1750	7W-SQ-1800		*RG-1801-17

* Muntz part number.

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	MUNTZ PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ .78A	500VCT @ .133ADC	6.3VCT @ 3.6A	TP-8003					
	SEC. 3	SEC. 4	SEC. 5						
	6.3VAC @ 2.1A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MUNTZ PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	2360Ω	3-4Ω	TA-8009	A-2928	A-3876	22S45	S-1X	
T3	2360Ω	3-4Ω	TA-8009	A-2928	A-3876	22S45	S-1X	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			MUNTZ PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG	3A @ 250V, Pigtail	①		318003. (3AG, 3A @ 250V, Pigtail)		6JV3	

① Alternate part #FU-0005-3.

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord	Use BELDEN No. 8524 (Stranded) Available in 12 Colors
Power Cord (Interlock Type)	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft.
	17109 (Plastic) or 17129 (Rubber) - 9 Ft.
	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)

SET 727 FOLDER 3-D

PHOTOFACT® Folder

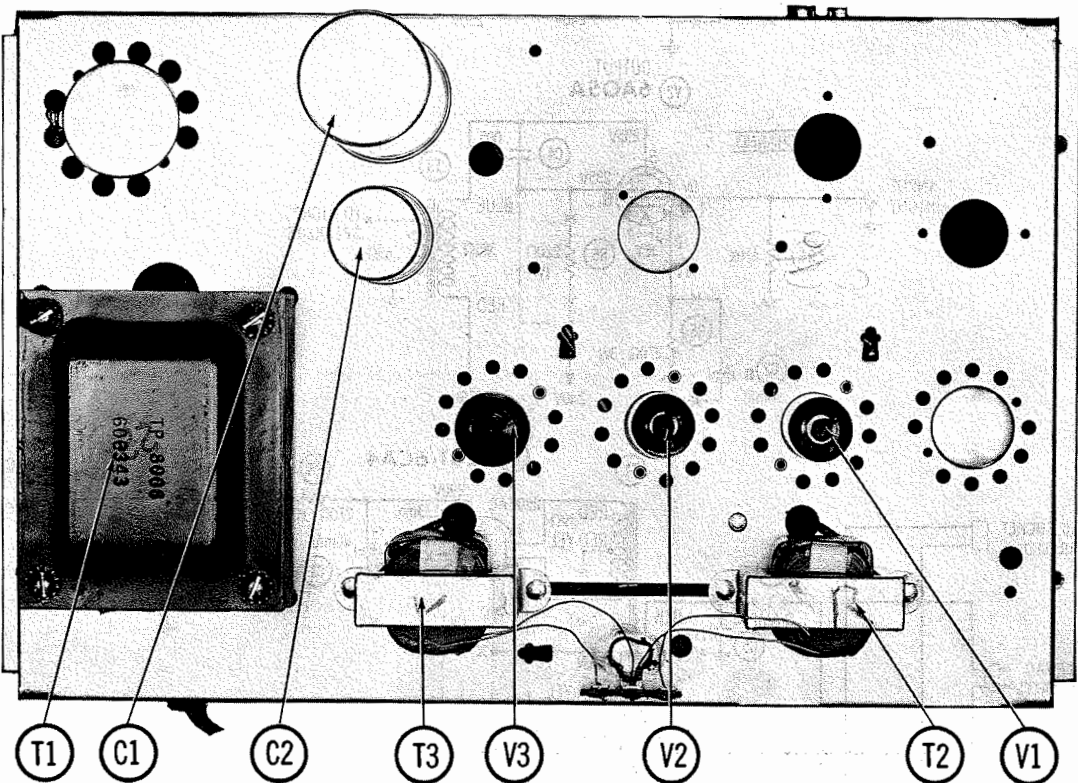


MUNTZ STEREO
AMP CHASSIS AS-8043

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 727 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.

MUNTZ STEREO
AMP CHASSIS AS-8043



MUNTZ STEREO
AMP CHASSIS AS-8043

TRADE NAME: Muntz Chassis AS-8043
SUPPLIER: For Current Address, See Master Index.
TYPE SET: Stereo Amplifier
TUBES: Three
POWER SUPPLY: 110-120 Volts AC, 60 Cycles RATING: 54 Watts, .59 Amps @ 117 Volts AC

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

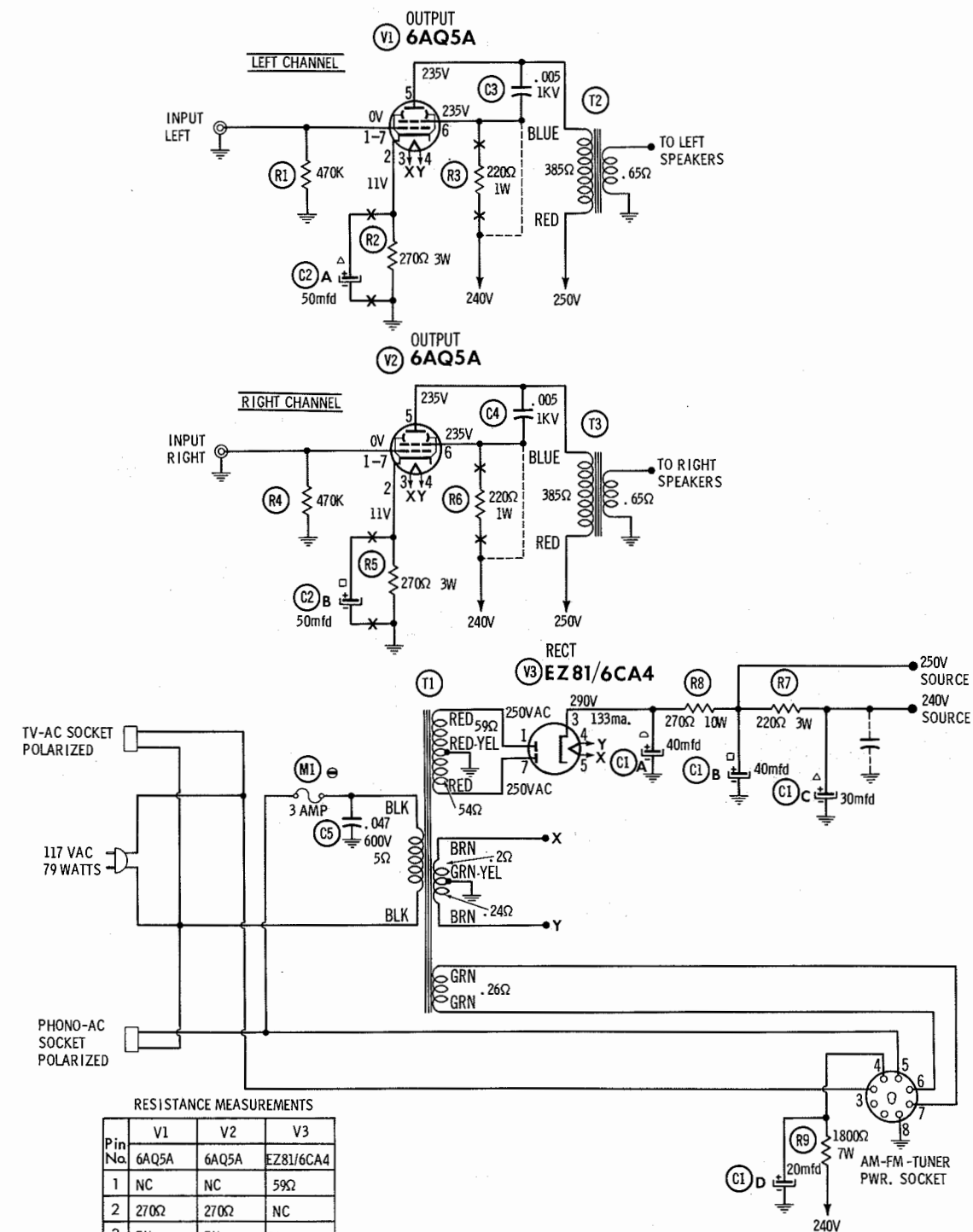


The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. MA896 MB912

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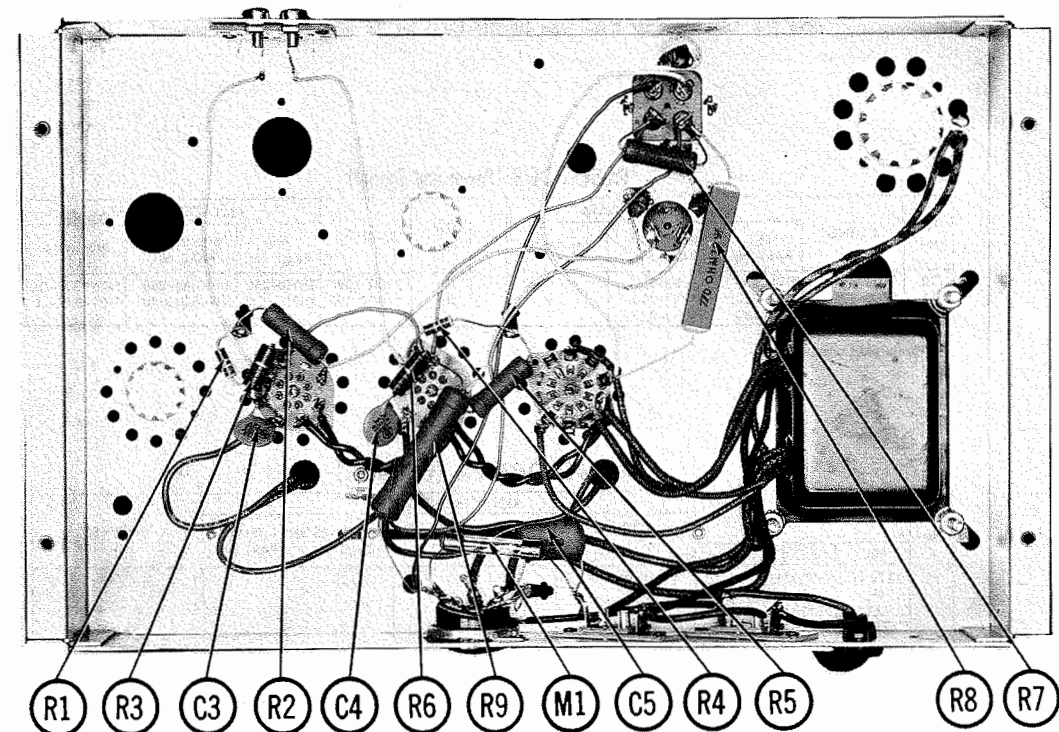
DATE 12-64 SET 727 FOLDER 3-D

SET 727 FOLDER 3-D



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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**MUNTZ STEREO
AMP CHASSIS AS-8043**



CHASSIS—BOTTOM VIEW

PARTS LIST AND DESCRIPTION

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

TUBES

• AMPEREX •		• GENERAL ELECTRIC •		• RCA •		• SYLVANIA •	
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE	
V1	Output	6AQ5A		V3	Rect.	EZ81/6CA4	
V2	Output	6AQ5A					

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	MUNTZ PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	SPRAGUE PART No.
C1A	40	350	CE-8002	AFH4-06-40	DDO178.8	XC4-80	TMQ-4502	TVL-4720
C1B	40	350						
C1C	30	350						
C1D	20	350						
C2A	50	50	CE-8011 ①	AFH2-06	BBO085	XC2-37	TMD-2045	WP202.1A
C2B	50	50						

① Some versions may use 2-8mfd @ 25V, part #CE-0018 in this application.

FIXED CAPACITORS

FIXED CAPACITORS								
ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C3	.005 1KV		BPD-005	DD-502	BYA10D5	CCD-502	B250	5HK-D50
C4	.005 1KV		BPD-005	DD-502	BYA10D5	CCD-502	B250	5HK-D50
C5	.047 600V		P688N-047		PM6847	6DP-3-473	GEM6147	6TM-847

**MUNTZ STEREO
AMP CHASSIS AS-8043**

FOLDER 3-D