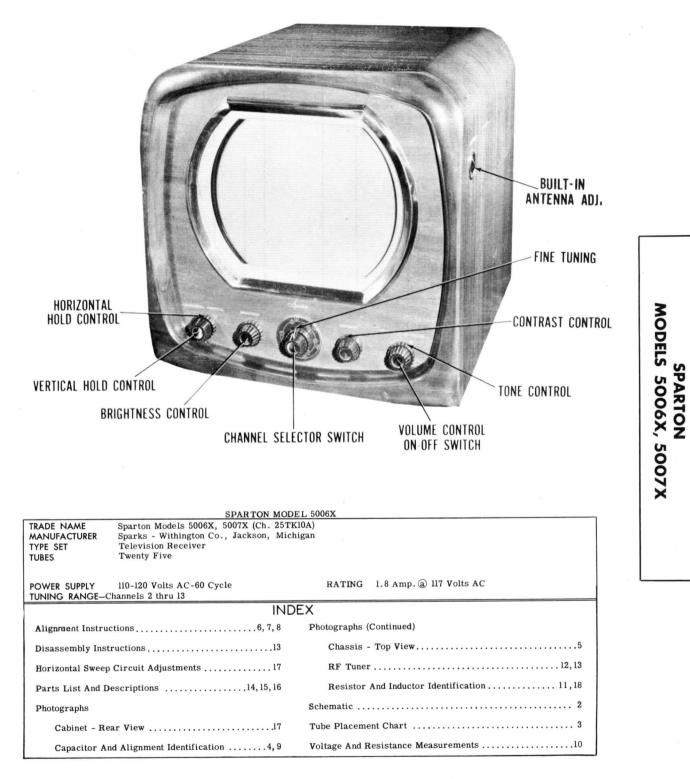
PHOTOFACT^{*} Folder



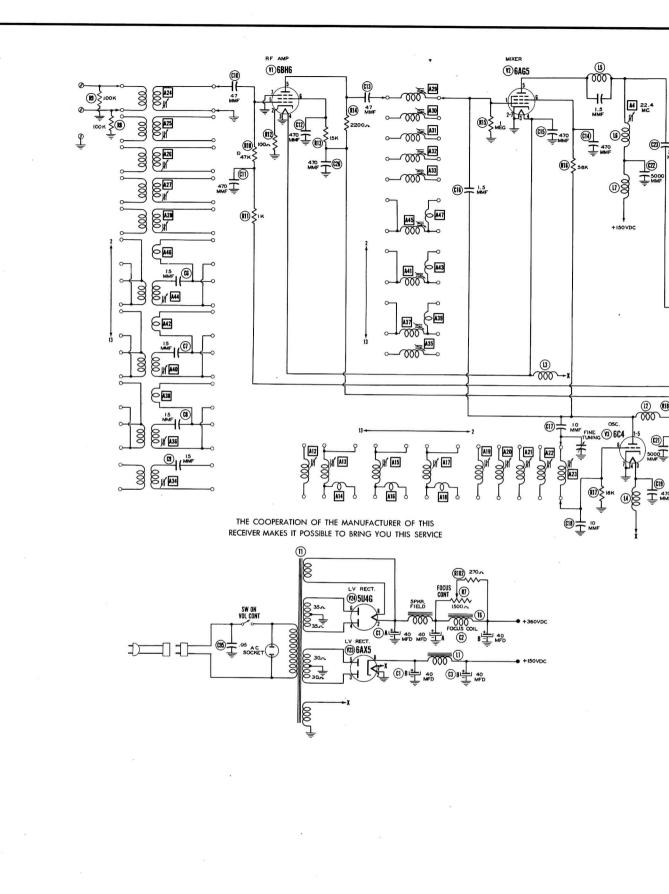
SPARTON MODELS 5006X, 5007X



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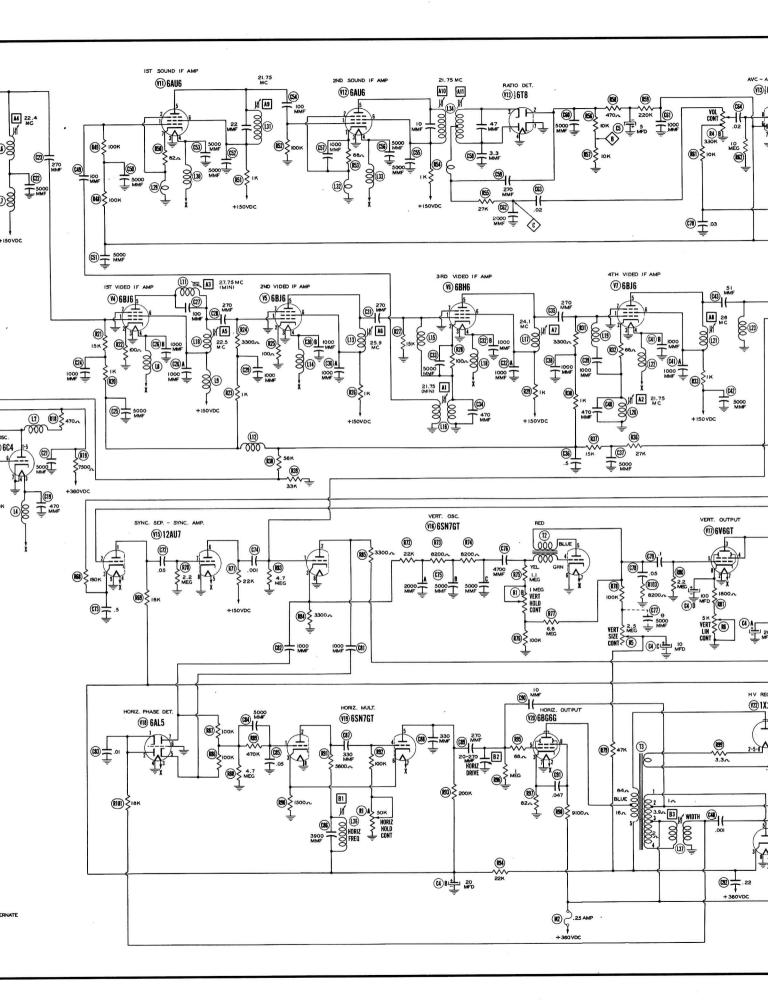
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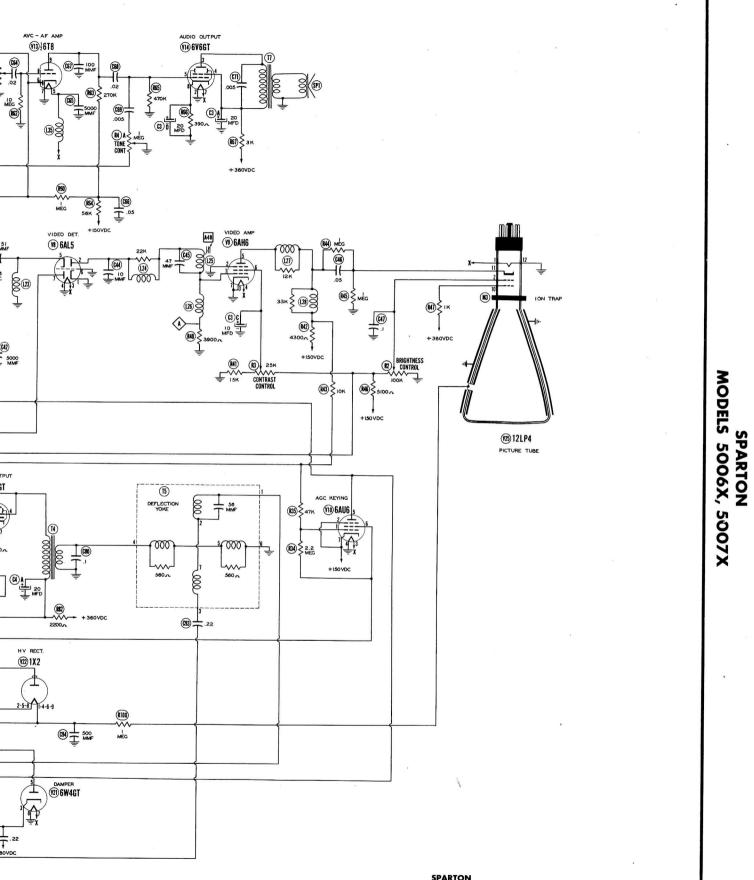
DATE 1-51

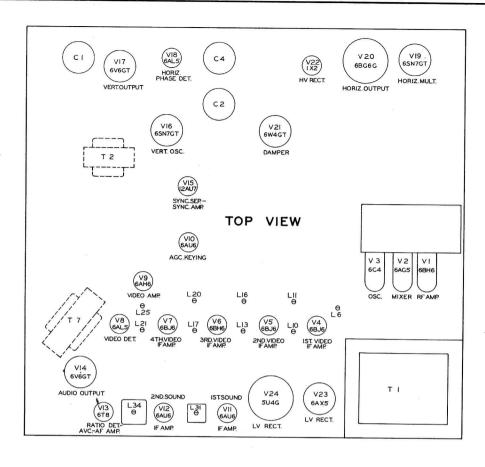


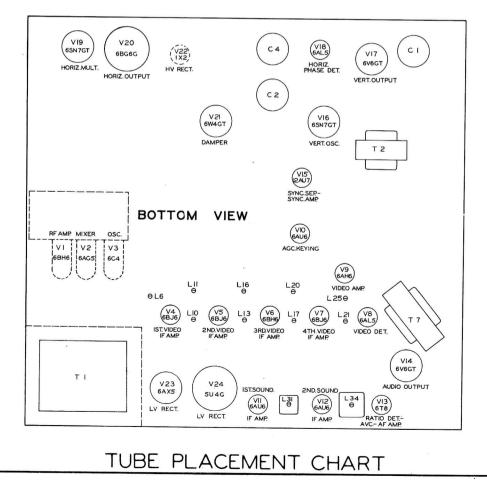
A PHOTOFACT STANDARD NOTATION SCHEMATIC © Howard W. Sams & Co., Inc. 1951 DOTTED IN PARTS ARE NOT USED IN ALL MODELS, WHEN DOTTED IN PARTS ARE USED POINTS MARKED X ARE BROKEN.

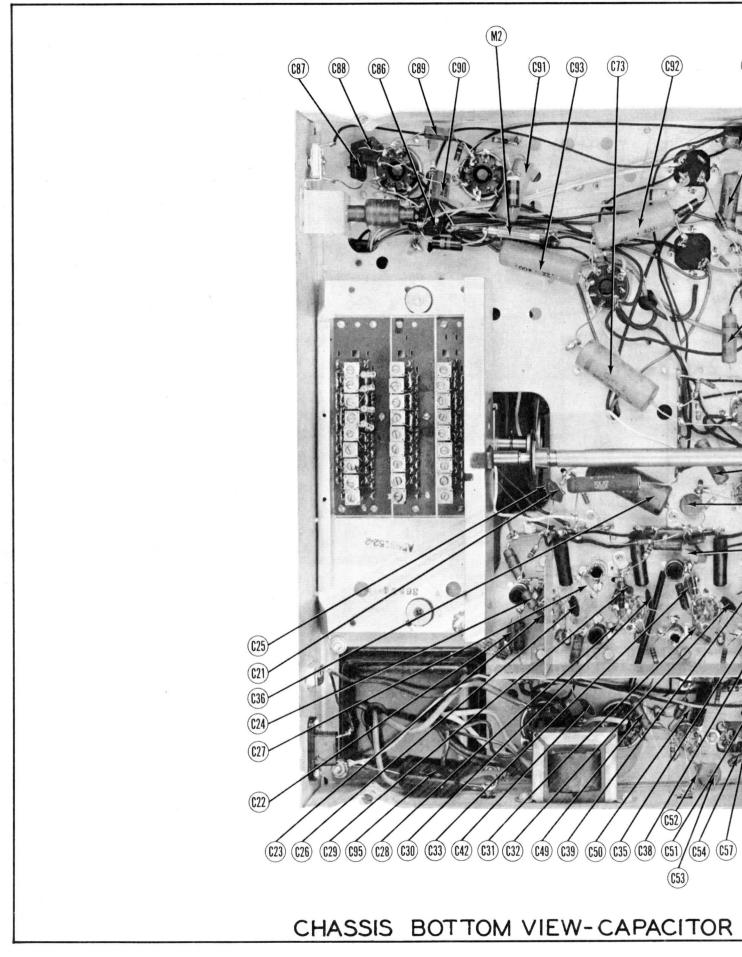
0 SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

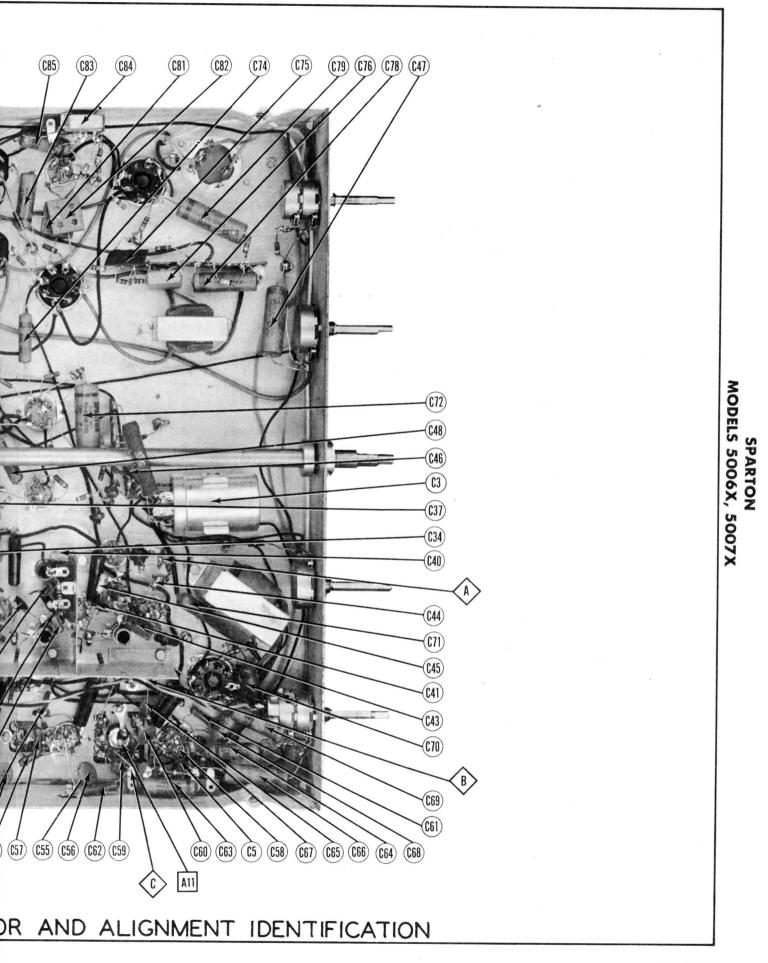


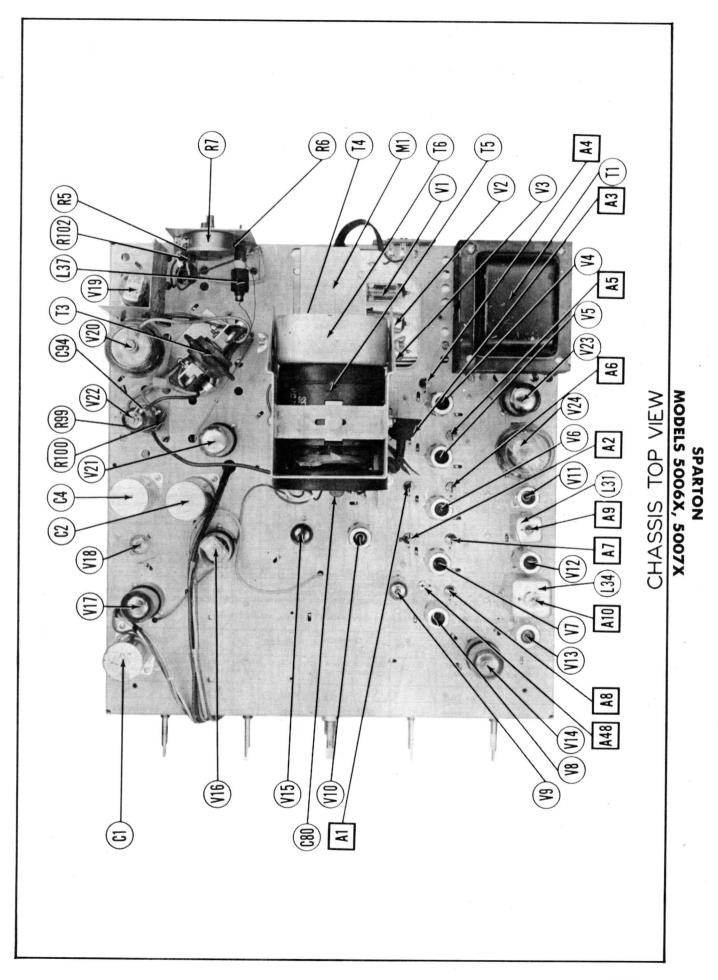












ALIGNMENT INSTRUCTIONS

E			ALIGNMENT	INSTRUCTION	S-READ CA	REFULLY BEF	ORE ATTEN	PTING ALI	GNMENT
	The hig	gh voltage shock hazard m	ay be eliminat		IDEO IF ALL		ator tube (V	(19) from it	s socket.
5	Connect th	e negative lead of a 3 volt	s battery to th	e junction of	R37 and C3	6. connect t	he positive	lead to cha	ussis,
F	temove th	e local oscillator tube (V3) from its soc	ket to preven	t the possibi	lity of error	neous indic	ations.	
	DUMMY NTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONN VTV	iect M	ADJUST	.``	REMARKS
1		High side to an unground- ed tube shield floating over mixer tube (V2). Low side to chassis.	21.75MC (Unmod.)		DC probe to Common to		A1, A2	Adjust for	MINIMUM deflection.
		"	27.75MC		3		A3		"
			22.4MC		3		A4	Adjust for	maximum deflection.
			22.5MC		5		A5		
		"	25.9MC				A6		8
F		"	24.1		0		A7		"
			26.0				A.8		"
L				OVERA	LL VIDEO IF	RESPONSE	CHECK		
	Connect th	he synchronized sweep vol		signal genera	ator to the he	orizontal ing	out of the os	scilloscope	for horizontal deflection.
	DUMMY NTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CON	NECT OPE	ADJUST	REMARKS
	Direct	High side to an unground- ed tube shield floating over mixer tube(V2). Low side to chassis.	24MC (10MC SWP)	22.7MC 25.5MC 26.25MC	Any	Vert. amp A. Low s chassis.	side to		Check for response curve similar to fig. 1. If necessary retouch A3 thru A8 for proper response.
-				F ALIGNMEN			NERATOR A	ND VIVM	
	DUMMY	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CON VT		ADJUST		REMARKS
	Direct	High side to an unground ed tube shield floating over mixer tube (V2) Low side to chassis.	21.75MC (Unmod.)	Any	DC probe to Common to	point (B). chassis.	A9, A10	Adjust for	r maximum deflection.
		10.			DC probe to Common to	point (B).	A11	reading w setting.	r zero reading. A positive and negative rill be obtained on either side of the correct
L L			SOUND IF	ALIGNMENT	USING FM S	GIGNAL GEN	ERATOR AN	ID OSCILLO	SCOPE e for horizontal deflection.
	Use frequ			-1-	C sweep. U			I I	
	DUMMY	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY			sc		ADJUST	REMARKS Disconnect stabilizor capacitor C5. Adjust
	Direct	High side to an unground- ed tube shield floating over mixer tube (V2). Low side to chassis.	21.75MC (10 MC SWP)	21.75MC	Any	Wert. amp B. Low chassis.	o. to point side to	A9, A10	for maximum amplitude and symmetry as per figure 2.
	"	"	"		Any	Vert. amj C. Low chassis.	p. to point side to	A-11	Reconnect capacitor C5. Ajust A-II so 21.75 MC occurs at center of crossover lines as p fig. 3. SLIGHTLY retouch Allo for maximum amplitude and straightness of crossover line
				OSC	ILLATOR ALI	GNMENT			1
	Repl to form 10, 11 an	sound IF section must be lace the oscillator tube (V tuned circuits for channel d 12) be aligned first. signal generator output le the fine tuning control to the	s 7, 9, and 11, ad should be t	the order of erminated wi	alignment is	important.	It is esse		with the tuned circuits of channels 8, 10, and ne higher of the paired channels, (7 and 8,9 an nms.
	DUMMY	SIGNAL	SIGNAL GENERATOR FREQUENCY		CON	NNECT TVM	ADJUST		REMARKS
3.	Two 1208 carbon resistors	Ω Across antenna term- inals with 120Ω in each	215.75MC (Unmod.)	13	DC probe Common t	ot point (). o point ().	A12	Adjust for ing will	or zero reading. A positive and negative read be obtained on either side of the correct settin
4	resistor:	s leau.	209.75MC	12			A13		"
4. 5			203.75MC	11			A14	Expand	or compress coil turns for zero reading.
5. 6.		"	197.75MC	10		"	A15	Adjust f ing will	or zero reading. A positive and negative read be obtained on either side of the correct setting
7.			191.75 MC	9			A16		or compress coil turns for zero reading.
8.		"	185.75 MC	8		P.	A17	Adjust for zero reading. A positive and negativing will be obtained on either side of the correct	
9.	"	"	179.75MC	7		"	A18	Expand or compress coil turns for zero reading	
20.			87.75 MC	6			A19	Adjust for zero reading. A positive and negative ing will be obtained on either side of the correct	
21.			81.75 MC	5			A20		
22.			71.75 MC	4		"	A21		"
23.		"	65.75 MC	3			A22		
24.		0	59.75 MC	2			A23		
100	1	1							

ALIGNMENT INSTRUCTIONS (CONT.)

	for a rep Short Outpu	event that completed align lacement unit. If only one the AGC line to chassis wi t of signal generator shoul ignal generator output lead	or two channe hile adjusting d be no higher	els require a the RF circ than neces	adjustment, alignment of uits. sary to obtain an output	those chan reading.	
	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
25.		Across antenna terminals with 120Ω in each lead.	59.75MC (Unmod.)	2	DC probe to point . Common to point .		Adjust fine tuning control for zero reading.
26.			"	2	Across capacitor C5.	A24	Adjust for maximu deflection.
27.	"		65.75MC	3	DC probe to point C. Common to point D.		Adjust fine tuning control for zero reading.
28.				3	Across capacitor C5.	A25	Adjust for maximum deflection.
29.	"	"	7175MC	4	DC probe to point C. Common to point D.		Adjust fine tuning control for zero reading
30		"		4	Across capacitor C5.	A26	Adjust for maximum deflection.
31.	"	"	81.75MC	5	DC probe to point . Common to point .		Adjust fine tuning control for zero reading.
32.	"	"	81.75MC	5	Across capacitor C5.	A27	Adjust for maximum deflection.
33.	"		87.75MC	6	DC probe to point C. Common to point D.		Adjust fine tuning control for zero reading.
34.	"	"	87.75MC	6	Across capacitor C5.	A28	Adjust for maximum deflection.
35.	u		55.25MC	2	DC probe to point A. Common to chassis.	A29	Adjust fine tuning control and A29 for maximum deflect- ion.
36.	"		61.25MC	3	"	A30	Adjust fine tuning control and A30 for maximum deflect- ion.
37.			67.25MC	4	"	A31	Adjust fine tuning control and A31 for max. deflection.
38.	"	"	77.25MC	5		A32	Adjust fine tuning control and A32 for max. deflection.
39.		"	83.25MC	6	"	A33	Adjust fine tuning control and A33 for max. deflection.
40.		"	213MC	13		A34, A35	Adjust fine tuning control,A34, and A35 for maximum deflection.
41.	"		207MC	12	"	A36, A37	Adjust fine tuning control, A36, and A37 for maximum deflection.
42.	u	н	201MC	ш	"	A38, A39	Adjust fine tuning control, A38, and A39 for maximum deflection.
43.	"	"	195MC	10	"	A40, A41	Adjust fine tuning control, A40, and A41 for maximum deflection.
44.	"		189MC	9	"	A42, A43	Adjust fine tuning control,A42,and A43 for maximum deflection.
45.	"	"	183MC	8	<u>11</u>	A44, A45	Adjust fine tuning control, A44, and A45 for maximum deflection.
46.	"	"	177MC	7		A46, A47	Adjust fine tuning control,A46, and A47 for maximum deflection.



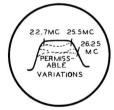
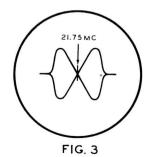
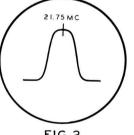


FIG.1





F1G. 2



PAGE 7

ALIGNMENT INSTRUCTIONS (CONT.)

					ESPONSE	CHECK		
	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR REQUENCY		SCOPE OR VTVM	ADJUST	REMARKS
47.		Across antenna terminals with 120Ω in each lead.	Off	215.75	13	VTVM DC probe to point C. Common to point B.		Adjust fine tuning for zero voltage.
48.	"		213MC (10MC SWP)	211.25MC 215.75MC	13	SCOPE Vert. amp. to point A. Low side to chassis.	A34, A35	If necessary make slight adjustments to place markers as shown in fig. 4.
49.	"		Off	209.75MC		VTVM DC probe to point Common to point		Adjust fine tuning for zero voltage.
50.	"	"	207MC (10MC SWP)	205.25MC 209.75MC	12	SCOPE Vert. amp. to point A. Low side to chassis.	A36, A37	If necessary make slight adjustments to place markers as shown in fig. 4.
51.	"	- "	Off	203.75MC	11	VTVM DC probe to point Common to point		Adjust fine tuning for zero voltage.
52.	"	"	201MC (10MC SWP)	199.25MC 203.75MC	n	SCOPE Vert. amp to point Low side to chassis	A38, A39	If necessary make slight adjustments to place markers as shown in figure 4.
53.	"	"	Off	197.75	10	VTVM DC probe to point C Common to point .		Adjust fine tuning for zero voltage.
54.		"	195MC (10MC SWP)	193.25MC 197.75MC	10	SCOPE Vert. amp.to point A Low side to chassis.	A40, A41	If necessary make slight adjustments to place markers as shown in fig. 4.
55.	н.	"	Off	191.75MC	9	VTVM DC probe to point B. Common to point C		Adjust fine tuning for zero voltage.
56.		0	189MĆ (10MC SWP)	187.25MC 191.75MC	9	SCOPE Vert. amp. to point Low side to chassis.	A42, A43	If necessary make slight adjustments to place markers as shown in figure 4.
57.	"	"	Off	185.75	8	VTVM DC probe to point Common to point		Adjust fine tuning for zero voltage.
58.	"	"	183MC (10MC SWP)	181.25MC 185.75MC	8	SCOPE Vert. amp. to point Low side to chassis.	A44, A45	If necessary make slight adjustments to place markers as shown in figure 4.
59.	"	"	Off	179.75MC	7	VTVM DC probe to point C. Common to point B.		Adjust fine tuning for zero voltage.
60.	"	17	177MC (10MC SWP)	175.25MC 179.75MC	7	SCOPE Vert. amp. to point Low side to chassis.	A46, A47	If necessary make slight adjustments to place markers as shown in figure 4.
61.		"	Off	87.75MC	6	VTVM DC probe to point . Common to point .		Adjust fine tuning for zero voltage.
62.	"	"	85MC (10MC SWP)	83.25MC 87.75MC	6	SCOPE Vert. amp. to point Low side to chassis.	A28, A33	If necessary make slight adjustments to place markers as shown in figure 4.
63.			Off	81.75	5	VTVM DC probe to point C. Common to point D.		Adjust fine tuning for zero voltage.
64.	"	"	79MC (10MC SWP)	77.25MC 81.75MC	5	SCOPE Vert. amp. to point Low side to chassis.	A27, A32	If necessary make slight adjustments to place markers as shown in figure 4.
65.	"	"	Off	71.75MC	4	VTVM DC probe to point C. Common to point B.		Adjust fine tuning for zero voltage.
66.	"	"	69MC	67.25MC 71.75MC	4	SCOPE Vert. amp. to point Common to chassis.	A26, A31	If necessary make slight adjustments to place markers as shown in figure 4.
67.		"	Off	65.75MC	3	VTVM DC probe to point C. Common to point B.		Adjust fine tuning for zero voltage.
68.			63MC (10MC SWP)	61.25MC 65.75MC	3	SCOPE Vert. amp. to point Low side to chassis.	A25, A30	If necessary make slight adjustments to place markers as shown in figure 4.
69	. "	"	Off	59. 75MC	2	VTVM DC probe to point C Common to point		Adjust fine tuning for zero voltage
70.	. "	"	57MC (10MC SWP)	55.25MC 59.75MC	2	SCOPE Vert. amp. to point Low side to chassis.	A24, A25	If necessary make slight adjustments to place markers as shown in figure 4.
	L				TRAP ADJ		1	1
	DUMMY ANTENN		SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY		30012	ADJUST	REMARKS Adjust for MINIMUM 400 ∿ indication on
71.	.01MFD		Not used	4.5MC (400 ∿ Mod.)	Any channel not used locally	Vert. amp. to pin ll of picture tube. Low to chassis.	A48	Adjust for MINIMUM 400 6 Indication of scope.

VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS

RESISTANCE READINGS

				VOLTAGE	READINGS																T1
ltem	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	ltem	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6BH6	IVDC	IVDC	0 V	6.3VAC	220VDC	210VDC	0 v			V 1	6BH6	80KΩ	100Ω	Ω0	. 1Ω	#10KΩ	#23KΩ	0Ω		
V 2	6AG5	-2VDC	0V	0 V	6.3VAC	147VDC	110 VDC	0 v			V 2	6AG5	1 Meg.	ΩΟ	0Ω	.2Ω	†135Ω	#65KΩ	ΩΟ		
V 3	6C4	165VDC	ov	6. 3VAC	0 v	165VDC	§-3.7VDC	0 V			V 3	6C4	#8.3KΩ	Inf.	. 2Ω	Ω0	#8.3KΩ	18KΩ	20		
V 4	6BJ6	IVDC	2VDC	0 V	6.3VAC	147VDC	147VDC	0 v			V 4	6BJ6	105٢٢	100Ω	Ω0	. 2Ω	†135Ω	†135Ω	Ω0		
V 5	6BJ6	1VDC	2VDC	ov	6.3VAC	135VDC	135VDC	0 V			V 5	6BJ6	95 K Ω	100Ω	0Ω	. 2Ω	†1.1KΩ	†1.1KΩ	0Ω		
V 6	6BH6	0 V	1.2VDC	0 V	6.3VAC	135VDC	135VDC	ov			V 6	6BH6	2.20	100Ω	20	. 2Ω	†1.1KΩ	†1.1KΩ	Ω0		
٧7	6BJ6	1VDC	1.4VDC	0 V	6.3VAC	135VDC	135VDC	υ v			V 7	6BJ6	95KS	68Ω	ΩΟ	. 2Ω	†1.1KΩ	†1.1KΩ	ΩΟ		
V 8	6AL5	0 V	3VDC	6.3VAC	0 V	0 V	0 V	-1. 5VDC			V 8	6AL5	ΩΟ	3.9K Ω	. 1Ω	0Ω	3.30	0Ω	4.7 Meg.		
٧9	6AH6	3VDC	0 v	ov	6.3VAC	135VDC	40VDC	0 V			V 9	6AH6	3.9KΩ	0Ω	Ω0	. 2Ω	†4.4KΩ	†25KΩ	20		
V 10	6AU6	135VDC	150VDC	6.3VAC	0.5VAC	2VDC	300VDC	150VDC			V 10	6AU6	†65KΩ	†130Ω	. 1Ω	Ω0	130KΩ	▲ 22KΩ	†130Ω		
V11	6AU6	4VDC	0 V	ov	6.3VAC	130VDC	130VDC	IVDC			V 1 1	6AU6	440KΩ	ΩΟ	ΩΟ	. 2Ω	†1.1KΩ	†1.1KΩ	82Ω		
V 12		1VDC	ov	ov	6. 3VAC		130VDC	1.1VDC			V 12	6AU6	100KΩ	ΩΟ	Ω0	. 2Ω	†1.1KΩ	†1. IKΩ	68Ω		2
V 13	6T8	4VDC	-1.1VDC	4VDC	ov	6.3VAC	3VDC	0 v	6VDC	55VDC	V 13	6T8	Inf.	20KΩ	Inf.	ΩΟ	. 2Ω	240KΩ	0Ω	10 Meg.	†325Ω
V14		4vDC	ov	235VDC	245VDC	0. SVAC	0 v	6. 3VAC	14VDC	00120	V14	6V6GT	0Ω	0Ω	#3.6KΩ	#3.4KΩ	470KΩ	0Ω	.1Ω	390Ω	
V 15								4VDC		0 v	V 15	12AU7	▲ 40KΩ	t15KΩ	220KΩ	.10	.1Ω	t22KΩ	2.2 Meg.		0 Ω
V 16	12AU7	275VDC	135VDC	140VDC	6.3VAC	410VDC	80VDC		0 V	UV	V 16	6SN7GT			3.3KΩ	2.2Meg.	▲150KΩ ▲1.6 Meg.		.1Ω	000	0.0
V 17	6SN7GT	-1.5VDC	320VDC	13VDC	-25VDC	130VDC	0V 35VDC	6.3VAC	0V 45VDC		V 17		4.7 Meg.	#6KΩ				5ΚΩ	.10	6.8KΩ 1.8KΩ	
	6V6GT	0 V	0V	320VDC	320VDC	0 V	0 V	6.3VAC	25VDC		V 18	6V6GT	Inf.	00.	#3.4KΩ	#3.4KΩ 0Ω	2.2Meg.			1. 01.00	
V 19	6AL5	1.6VDC	1.6VDC	6.3VAC	0 V	5VDC	0 V	-2.6VDC			V 19	6AL5	18KΩ	18KΩ	1		4.8Meg.		4.8Meg.	00	
V 20	6SN7GT	, 5VDC	255VDC	13VDC	-6.4VDC	115VDC	13VDC	6.3VAC	0 V	TOP CAP	V 20	6SN7GT	520KΩ	▲28KΩ	1.5ΚΩ	150KΩ	▲220KΩ	1.5KΩ	.1Ω	0Ω #9.5KΩ	TOP CAP
V 21	0BG0G	0 V	6.3VAC	6.8VDC	-2.8VDC			0 V	255VDC	•	V 21	6BG6G	Inf.	. 1Ω	82Ω	50KΩ	1 Meg.	1 Meg.	00		▲84Ω
	6W4GT	0 V	360VDC	490VDC	470VDC	360VDC	0 V	6.3VAC	0 V	1	V 22	6W4GT	Inf.	#280Ω	200KΩ	▲47KΩ	#275Ω	Inf.	.1Ω	00	TOP CAP
v 22	1X2	* DO NOT	MEASURE	1	1		1	1	1		V 22	1X2	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	▲700Ω
V 23	6AX5	0 V	0 v	185VAC	0 V	185VAC	0 V	6.3VAC	160VDC			6AX5	Inf.	ΩΟ	30Ω	Inf.	30Ω	Inf.	. 1Ω	50KΩ	
	5U4G	0 V	400VDC	OV DIN 10	370VAC PIN 11	0V PIN 12	370VAC	0 V	400VDC			5U4G	Inf.	80KΩ	Inf. PIN 10	35Ω PIN 11	Inf. PIN 12	35Ω	Inf.	80KU	
V 25	12LP4	6.3VAC	ov	PIN 10 355VDC	50VDC	OV					V 25	12LP4		0Ω	#1.4KΩ	500KΩ	0Ω				

FOCUS CONTROL COUNTERCLOCKWISE

§ TAKEN WITH VACUUM TUBE VOLTMETER * DO NOT MEASURE

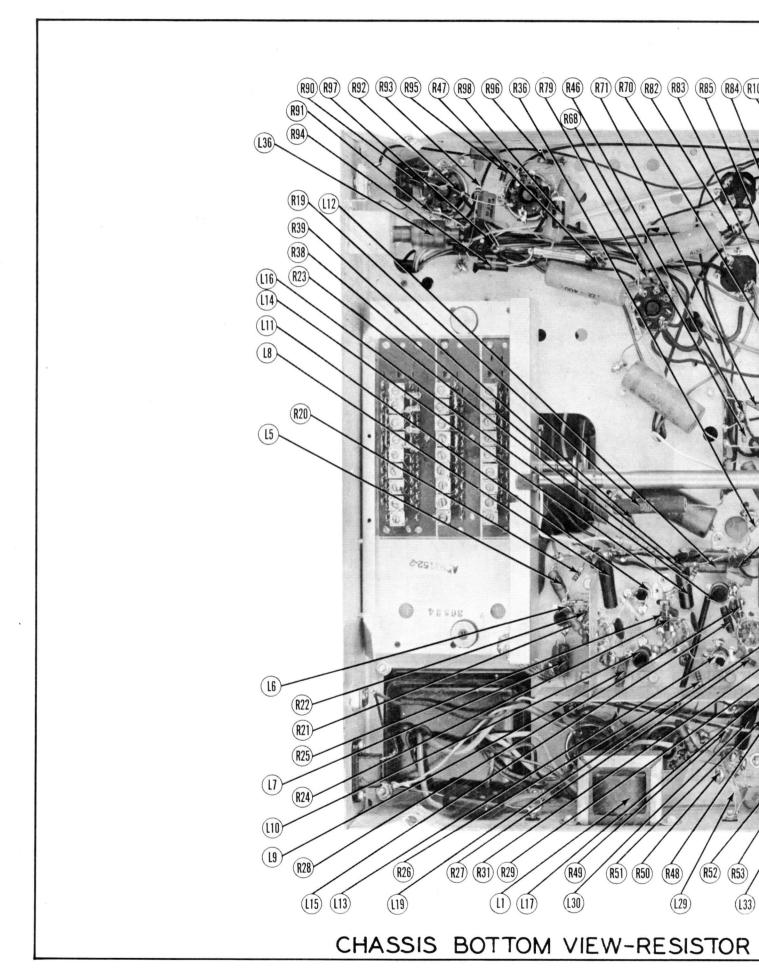
FOCUS CONTROL COUNTERCLOCKWISE † MEASURED FROM PIN 8 OF V23

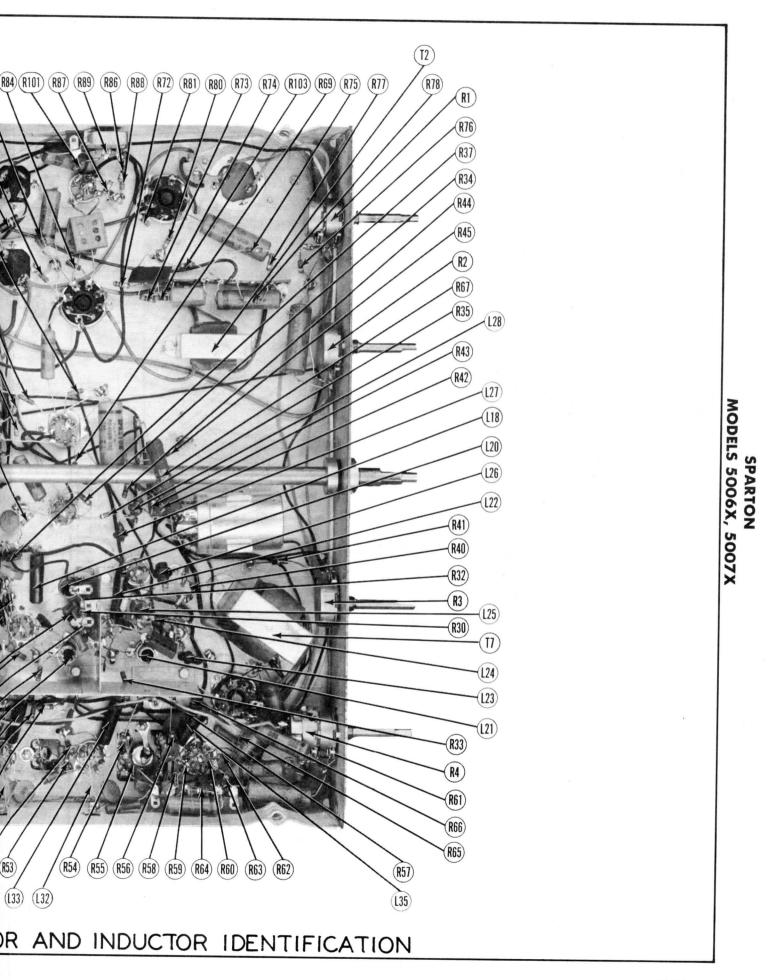
▲ MEASURED FROM PIN 3 OF V21

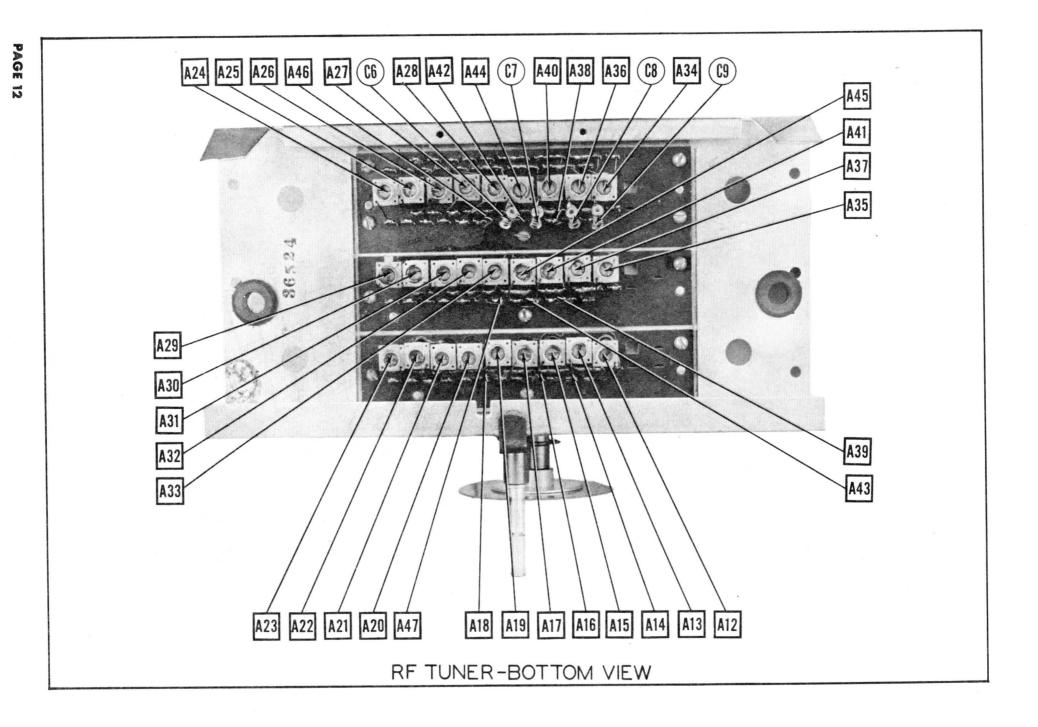
MEASURED FROM PIN 2 OF V24

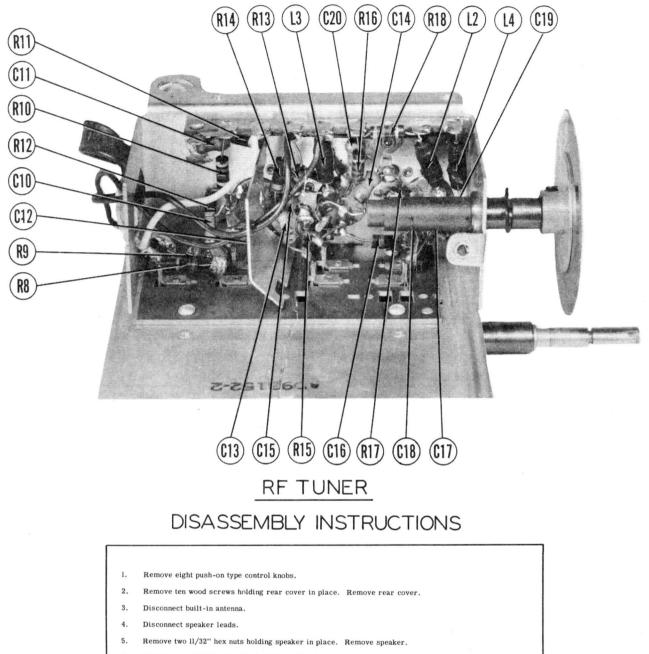
- 1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
- 2. Pin numbers are counted in a clockwise direction on bottom of socket.
- 3. Measured values are from socket pin to common negative unless otherwise stated.
- age readings. 5. Front panels controls set at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

4. Line voltage maintained at 117 volts for volt-









6. Remove four 3/8" hex head bolts holding chassis in cabinet. Remove chassis.

NOTE: FOR PICTURE TUBE REMOVAL, IT IS NECESSARY TO REMOVE CHASSIS AS OUTLINED ABOVE.

PARTS LIST AND

CAPACITOR

TUBES (SYLVANIA or Equivalent)

		REPLACEM	ENT DATA	RMA		I
ITEM No.	USE	SPARTON PART No.	STANDARD REPLACEMENT	BASE	NOTES	
VI	RF Amp.	6BH6	6BH6	7CM		
V2	Mixer	6AG5	6AG5	7BD		
V3	RF Oscillator	6C4	6C4	6BG		
V4	lst Video IF Amp.	6BJ6	6BJ6	7CM		
V5	2nd Video IF Amp.	6BJ6	6BJ6	7CM	×	
V6	3rd Video IF Amp.	6BH6	6BH6	7CM		
¥7	4th Video IF Amp.	6BJ6	6BJ6	7CM		
V8	Video Det.	6AL5	6AL5	6BT		
V9	Video Amp.	6AH6	6AH6	7BK		
V10	AGC Keying	6AU6	6AU6	7BK		
VII	lst Sound IF Amp.	6AU6	6AU6	7BK		
V12	2nd Sound IF Amp.	6AU6	6AU6	7BK		
V13	Ratio DetAVC-AF		avectors as			
	Amp.	6T8	6T8	9E		
V14	Audio Output	6V6GT	6V6GT	7AC		
V15	Sync. SepSync.					
	Amp.	12AU7	12AU7	9A		
V16	Vert. Oscillator	6SN7GT	6SN7GT	8BD		
V17	Vert. Output	6V6GT	6V6GT	7AC		
V18	Hor. Phase Det.	6AL5	6AL5	6BT		
V19	Hor. Mult.	6SN7GT	6SN7GT	8BD		
V20	Hor. Output	6BG6G	6BG6G	5BT		
V21	Damper	6W4GT	6W4GT	4CG		
V22	HV Rectifier	1X2	1X2	7CB		
V23	LV Rectifier	6AX5	6AX5	6S		
V24	LV Rectifier	5U4G	5U4G	5T		
V25	Picture Tube	12LP4	12LP4	12D		

CAPACITORS

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

ClA B C2A B C3A C C D C4A	RATI CAP. 40 40 40 20 40	NG VOLT 475 250 475	SPARTON PART No. PA4307-19	AEROVOX PART No.	CENTRALAB PART No.	COBLIEU	ERIE	SPRAGUE	IDENTIFICATION CODES AND
No. ClA B C2A B C3A B C C D C4A	40 40 40 40 20	475 250	PART No.	PART No.		DUBILIER			
B C2A B C3A C D C4A	40 40 40 20	250	PA4307-19		FART NO.	PART No.	PART No.	PART No.	INSTALLATION NOTES
C2A B C3A C D C4A	40 40 20			AF8X8I		UPT450-4 40C2		TVL-2830	 Filter ▲ Filter
C3A B C D C4A	20	475	PA4307-13	AF88K		UP4450		TVL-2830	FilterFilter
C D C4A	40	450	PA4307-16	AF832J5A		UPT42145C		TVL-4734	 Output Decoupling Filter
C4A	10	250 200							▲ V. Amp. Screen
	20 20	25 450	PA4307-18	AF842J20B		UPT22245	ſ	TVL-3780	Output Cathode Decoupling
	20 10	450 450				V10	L	TVA-1207	 Decoupling Vert. Osc. Dec.
D	100 5	25 50	PA4308-2	PRS150/4		BR 550		TVA-1303	Vert. Output Cathode Stabilizing Cap.
C6	15	50	FA4300-2	FR0100/4	TCZ-15	Dictor	NPOK-15	19C5	Fixed Padder
	15				TCZ-15		NPOK-15 NPOK-15	19C5 19C5	Fixed Padder Fixed Padder
	15 15				TCZ-15 TCZ-15		NPOK-15 NPOK-15	1905	Fixed Padder
	47			SI47N750	TCN-47		N750L-47	19C9	RF Coupling
	470			SI470	D6-471		GP2K-470	19C15	AGC Filter
	470			SI470	D6-471		GP2K-470	19C15	RF Amp. Screen
	47			SI47	D6-470		GPIK-47	19C25	RF Coupling Mixer Screen
	470			SI470 SI470	D6-471 D6-471		GP2K-470 GP2K-470	19C15 19C15	Mixer Filament
	470 1.5			SI1.5NPO	TCZ-1.5		NPOK-1.5	15015	Osc. Coupling
	10			SI10N750	TCN-10		N750K-10	19C4	Osc. Feedback
	10			SIIO	D6-100		GPIK-10	19C19	Osc. Grid Cap.
	470			SI470	D6-471		GP2K-470	19C15	Osc. Fil. Bypass
	470			SI470	D6-471	Incor	GP2K-470	19C15 29C1	RF Bypass RF Bypass
	5000 5000		PA4334-1 PA4334-1	BPD-005 BPD-005	DD-502 DD-502	1D5D5 1D5D5	811-005 811-005	2901	Mixer Plate Dec.
	270		HK36M-271	SI270	D6-271	5W5T25	GP2K-270	19C31	IF Coupling
	1000		HK36H-102	S11000	D6-102	1W5D1	GP2L-001	19C1	AGC Filter
	5000		PA4334-1	BPD-005	DD-502	1D5D5	811-005	29C1	AGC Filter
	1000 1000		PA4345-1	BPD-2X001	CONTRACTOR DECK AND ADDRESS OF	1W5D1 1W5D1 }	812-2x001	29C7	lst V. IF Dec. lst V. IF Dec.
	100		CC30A-101F	SHOONPO	TCZ-100		NPOM-100	36C10	Fixed Trimmer
	270		HK36M-271	S1270	D6-271	5W5T25	GP2K-270	19C31	IF Coupling
	1000		HK36H-102	S11000	D6-102	1W5D1 1W5D1)	GP2L-001	19C1	AGC Filter 2nd V. IF Dec.
	1000 1000		PA4345-1	BPD-2X001	DD-2-102	1W5D1	812-2X001	29C7	2nd V. IF Fil.
	270		HK36M-271	SI270	D6-271	5W5T25	GP2K-270	19C31	IF Coupling
C32A	1000		PA4345-1) BPD-2X001	DD-2-102	1W5D1	3812-2X001	29C7	3rd V. IF Dec.
	1000 5000		PA4334-1	J BPD-005	DD-502	1W5D1 1D5D5	811-005	29C1	3rd V. IF Fil. 3rd V. IF Cath.
C34 C35	470 270	500	MC60E-471 HK36M-271	SI270	D6-271	5W5T25	GP2K-270	19C31	Fixed Trimmer IF Coupling
C36	.5	200	PC40GK-504	P288-5	20-211	GT2P5		2TM-P5	AGC Filter
	5000		PA4334-1	BPD-005	DD-502	1D5D5	811-005	29C1	AGC Filter
	1000		HK36H-102	S11000	D6-102	1W5D1	GP2L-001	19C1	AGC Filter
	1000		HK36H-102	SI1000	D6-102	1W5D1	GP2L-001	19C1	RF Bypass
C41A	470 1000	500	MC60E-471 PA4345-1	BPD-2X001	DD-2-102	1W5D1	812-2x001	29C7	Fixed Trimmer 4th V. IF Dec.
	1000 5000		PA4334-1	BPD-005	DD-502	1W5D1 1D5D5	811-005	29C1	4th V. IF Fil. RF Bypass
	51	500		1468-00005	D6-500	5W5Q5	GPIK-51	1FM-45	IF Coupling
	10		CC30A-100F	SIIONPO	TCZ-10	5W5Q1	NPOK-10	19C3	V. Diode Filter
	47 .05	400	PC40GL-503	SI47NPO P488-05	TCZ-47 DF-503	5R5Q5 PTE4S5	NPOM-47	29C14 4TM-S5	Fixed Trimmer Video Coupling
	.05	200	PC40GL-503	P488-05 P288-1	DF - 503 DF - 104	PTE455 PTE4Pl		2TM-P1	Pic. Tube Grid
	. 001	600	PC40GM-102	P688-001	D6-102	PTE6D1	GP2L-001	6TM-DI	Hór. Sweep Coupling
C49	100		CC32A-101A	SI100	D6-101	5W5T1	GPIK-100	19C11	S. IF Coupling
	5000		PA4334-1	BPD-005	DD-502	1D5D5	811-005	29C1	AVC Filter
	5000		PA4334-1	BPD-005	DD-502	1D5D5	811-005	29C1	AVC Filter
	5000 5000		PA4334-1 PA4334-1	BPD-005 BPD-005	DD-502 DD-502	1D5D5 1D5D5	811-005 811-005	29C1 29C1	lst S. IF Dec. lst S. IF Fil.
	5000 100		CC32A-101A	SI100	DD-502 D6-101	5W5T1	GPIK-100	19C11	S. IF Coupling
	5000		PA4334-1	BPD-005	DD-502	1D5D5	811-005	29C1	2nd S. IF Dec.

				R	EPLACEMEN
ITEM	RAT		SPARTON	AEROVOX	CENTRALAB
No.	CAP.	VOLT	PART No.	PART No.	PART No.
C56	5000		PA4334-1	BPD-005	DD-502
C57	1000		HK36H-102	SI1000	D6-102
C58	3.3		PA4326-4	SI3.3NPO	TCZ-3.3
C59	270	500	HK36M-271	1468-00025	D6-271
C60	5000		PA4334-1	BPD-005	DD-502
C61	1000		HK36H-102	SI1000	D6-102
C62	2000		HK36G-202	SI2000	D6-202
C63	.02	200	PC40GK-203	P488-02	DF-203
C64	. 02	200	PC40GK-203	P488-02	DF-203
C65	5000		PA4334-1	BPD-005	DD-502
C66	.05	400	PC40GL-503	P488-05	DF-503
C67	100	500	MC60E-101	1468-0001	D6-101
C68	.02	600	PC40GM-203	P688-02	DF-203
C69	.005	600	PC40GM-502	P688-005	D6-502
C70	.03	200	PC40GK-303	P488-03	
C71	.005	600	PC40GM-502	P688-005	D6-502
C72	.05	600	PC40GL-503	P688-05	DF-503
C73	.5	200	PC40GK-504	P288-5	
C74	. 001	600	PC40GM-102	P688-001	D6-102
C75A	2000		PA4339-4	P688-002	D6-202
в	5000			P688-005	D6-502
С	5000			P688-005	D6-502
C76	4700	500		1467-005	D6-472
C77	5000		PA4334-1	BPD-005	DD-502
C78	.05	400	PC40GL-503	P488-05	
C79	.1	400	PC40GL-104	P488-1	DF-104
C80	.1	200	PC40GK-104	P288-1	DF-104
C81	1000	500	MC61E-102	1467-001	D6-102
C82	1000	500	MC61E-102	1467-001	D6-102
C83	. 01	600		P688-01	D6-103
C84	5000	500	MC61E-512	1467-005	D6-502
C85	.05	200		P288-05	DF-503
C86	3900	500	MC63F-392	1464-004	
C87	330	500	MC60E-331	1469-00035	D6-331
C88	330	500	MC60E-331	1469-00035	D6-331
C89	270	500	HK36M-271	1468-00025	D6-271
C90	10	1500	PA4327-2	1469-HV-0000	
C91	.047	400	PC42GL-473	P488-047	DF-503
C92	. 22	400	PC42GL-224	P488-22	
C93	.22	400	PC42GK-224	P488-22	
C94	500	20000	PA4346	HV20C	TV2-502
C95	.05	600	PC42GM-473	P688-05	DF-503

* Not Used In All Models.

CONT

		10	RE	PLACEMENT DA	TA
ITEM	RATI	NG	SPARTON	IRC	CLAROST
No.	RESIST- ANCE	WATTS	PART No.	PART No.	PART N
RIA B C	50KΩ 1Meg Shaft End	-1/241/2	PA4430-1	Concentrikit B11-123 * B11-137 * E-187 *	RTV-84
R2A B	100KΩ Shaft	$\frac{1}{2}$	PA4432 Not req.	Q11-128 Not req.	AM-49-S FS-3
R3A B	Shaft 25KΩ Shaft	12	PA4442 Not req.	Q11-120 Not req.	AM-40-S
				Concentrikit	RTV-200
R4A B C	1Meg 330KΩ Shaft End	-1:21-1:2	PA4428-1	B11-137 * B18-132 * E-187 *	RTV-200
D R5A	Switch	12	PA4431	76-1 * Q11-239	AG-84-S
в	2.5Meg Shaft	-	Not req.	Not req.	FKS-1/4
R6 R7	5000Ω 1500Ω	2 4	PA4411 PA4426-1	W-5000	43-5000 RTV-6

* Additional Parts To Be Used With Concentrikit.

RESIST

				RESI	-
			REPLACEM	ENT DATA	
ITEM No.	RATING		SPARTON	IRC PART No.	
	RESISTANCE		PART No.		
R8	100KΩ 20%	12			A
R9	100KΩ 20%	2			A
R10	47KΩ	12			R
R11	1000Ω	12		BTS-1000	A
R12	100Ω	12		BTS-100	R
R13	15KΩ	2			R
R14	2200Ω 5%	12		BTS-2200-5%	R
R15	1Meg	12			C
R16	56KΩ	2			C
R17	18KΩ	12		The second s	C
R18	470Ω	12		BTS-470	C
R19	7500Ω	10		1 3/4A-7500	A
R20	1000Ω	2		BTS-1000	A
R21	15KΩ 5%	2			
R22	100Ω	\$		BTS-100	1
R23	1000Ω	2		BTS-1000	1: A 2 2 2 3 3 3 A 4 4
R24	3300Ω	12		BTS-3300	2
R25	100Ω	\$		BTS-100	12
R26	1000Ω	2		BTS-1000	2
R27	15KΩ	2			3
R28	100Ω	3		BTS-100	3
R29	1000Ω	2		BTS-1000	3
R30	1000Ω	2		BTS-1000	A
R31	3300Ω 5%	2		BTS-3300-5%	14
R32	68Ω 5%	2			
R33	1000Ω	2		BTS-1000	4
R34	2.2Meg	สารและเขณะขณะขณะขณะขณะขณะขณะขณะที่ได้เสียงเขณะขณะขณะขณะขณะขณะขณะขณะขณะขณะขณะขณะขณะข		BTS-2.2Meg	A
R35	47KΩ	2		BTS-47K	
R36	27KΩ	2		BTS-27K	A
R37	15KΩ 5%	2		BTS-15K-5%	A

PARTS LIST AND DESCRIPTIONS

NOTES

Electrolytic	
Capacitors.	

apacito	ors.
	IDENTIFICATION CODES
PRAGUE ART No.	AND INSTALLATION NOTES
L-2830	• Filter
L-2830	▲ Filter ▲ Filter
L-4734	 Filter Output Decoupling
	 Filter V. Amp. Screen
	Output Cathode
VL-3780 VA-1207	 Decoupling Decoupling
	▲ Vert. Osc. Dec. Vert. Output Cathode
VA-1303 C5	Stabilizing Cap.
C5	Fixed Padder Fixed Padder Fixed Padder Fixed Padder
C5	Fixed Padder
C5	Fixed Padder
C9	RF Coupling
C15	RF Coupling AGC Filter
C15	RF Amp. Screen RF Coupling
C25	RF Coupling
C15	Mixer Screen Mixer Filament Osc. Coupling
C15	Mixer Filament
C4	Osc. Feedback
C19	Osc. Grid Cap.
C15	Osc. Fil. Bypass
C15	RF Bypass RF Bypass
Cl	RF Bypass
C1	Mixer Plate Dec.
C31	IF Coupling
Cl	AGC Filter AGC Filter
IC1	AGC Filter
C7	lst V. IF Dec. lst V. IF Dec.
C10	lst V. IF Dec. Fixed Trimmer
C31	IF Coupling
C1	AGC Filter
	2nd V. IF Dec.
C7	2nd V. IF Fil.
C31	IF Coupling
9C7	3rd V. IF Dec.
C1	3rd V. IF Dec. 3rd V. IF Fil. 3rd V. IF Fil. 3rd V. IF Cath. Fixed Trimmer IF Coupling
	Fixed Trimmer
C31	IF Coupling
M-P5	AGC Filter AGC Filter AGC Filter
C1	AGC Filter
C1 C1	RF Bypass
	Fixed Trimmer
C7	4th V. IF Dec.
	4th V. IF Fil. RF Bypass
Cl	RF Bypass
M-45 C3	IF Coupling
C14	V. Diode Filter Fixed Trimmer
M-S5	Video Coupling
M-Pl	Pic. Tube Grid
M-S5 M-P1 M-D1	Pic. Tube Grid Hór. Sweep Coupling
CII	S. IF Coupling
C1	AVC Filter
Cl	AVC Filter
C1	lst S. IF Dec.
Cl	lst S. IF Fil. S. IF Coupling
C11 C1	2nd S. IF Dec.
C1	and G. IF Dec.

				R	EPLACEMENT				IDENTIFICATION CODES
ITEM No.	CAP.	VOLT	SPARTON PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	AND INSTALLATION NOTES
C56	5000		PA4334-1	BPD-005	DD-502	1D5D5		29C1	2nd S. IF Fil.
C57	1000		HK36H-102	S11000	D6-102		GP2L-001	19C1	2nd S. IF Cath.
C58	3.3		PA4326-4	SI3.3NPO	TCZ-3.3		NPOK-3.3		Balancing
C59	270	500	HK36M-271	1468-00025	D6-271	5W5T25	GP2K-270	IFM-325	Diode Load Cap
C60	5000		PA4334-1	BPD-005	DD-502	1D5D5	811-005	29C1	RF Bypass
C61	1000		HK36H-102	SI1000	D6-102	1W5D1	GP2L-001	19C1	DAVC Dec.
C62	2000		HK36G-202	S12000	D6-202	1W5D2	GP2M-002	29C2	De-emphasis
C63	.02	200	PC40GK-203	P488-02	DF-203	PTE4S2		2TM-S2	Audio Coupling
C64	. 02	200	PC40GK-203	P488-02	DF-203	PTE4S2		2TM-S2	Audio Coupling
C65	5000		PA4334-1	BPD-005	DD-502	1D5D5	811-005	29C1	Ratio Det AF Fil.
C66	.05	400	PC40GL-503	P488-05	DF-503	PTE4S5		4TM-S5	Decoupling
C67	100	500	MC60E-101	1468-0001	D6-101	5W5T1	GP1K-100	IFM-31	AF Amp. Plate
C68	.02	600	PC40GM-203	P688-02	DF-203	PTE6S2		6TM-S2	Audio Coupling
C69	.005	600	PC40GM-502	P688-005	D6-502	PTE6D5	811-005	6TM-D5	Tone Comp.
C70	.03	200	PC40GK-303	P488-03		PTE6S3		6TM-S3	Tone Comp.
C71	.005	600	PC40GM-502	P688-005	D6-502	PTE6D5	811-005	6TM-D5	Output Plate Bypass
C72	.05	600	PC40GL-503	P688-05	DF-503	PTE6S5		6TM-S5	Sync. Coupling
C73	.5	200	PC40GK-504	P288-5		GT2P5		2TM-P5	Sync. Amp. Cath.
C74	. 001	600	PC40GM-102	P688-001	D6-102	PTE6D1	GP2L-001	6TM-D1	Sync. Coupling
C75A	2000		PA4339-4	P688-002	D6-202	PTE6D2	GP2M-002	6TM-D2	Integrator Net
в				P688-005	D6-502	PTE6D5	811-005	6TM-D5	Integrator Net
C	5000			P688-005	D6-502	PTE6D5	811-005	6TM-D5	Integrator Net
C76	4700	500		1467-005	D6-472	1D5D5	GP2M-0047	1FM-25	Vert. Osc. Grid
C77	5000		PA4334-1	BPD-005	DD-502	1D5D5	811-005	29C1	Vert. Osc. Dec. *
C78	.05	400	PC40GL-503	P488-05		PTE4S5		4TM-S5	Vert. Discharge
C79	.1	400	PC40GL-104	P488-1	DF-104	PTE4P1		4TM-P1	Vert. Sweep Coupling
C80	.1	200	PC40GK-104	P288-1	DF-104	PTE4Pl		2TM-Pl	Fixed Trimmer
C81	1000	500	MC61E-102	1467-001	D6-102	1W5D1	GP2L-001	1FM-21	Hor. Sync. Coupling
C82	1000	500	MC61E-102	1467-001	D6-102	1W5D1	GP2L-001	1FM-21	Hor. Sync. Coupling
C83	. 01	600		P688-01	D6-103	PTE6S1	821-01	6TM-Sl	Voltage Divider
C84	5000	500	MC61E-512	1467-005	D6-502	1D5D5	811-005	1FM-25	AFC Filter
C85	.05	200		P288-05	DF-503	PTE4S5		2TM-S5	AFC Filter
C86	3900	500	MC63F-392	1464-004		IDR5D4		MS-24	Fixed Trimmer
C87	330	500	MC60E-331	1469-00035	D6-331	5R5T3	GP2K-330	MS-33	Hor. MV Feedback
C88	330	500	MC60E-331	1469-00035	D6-331	5R5T3	GP2K-330	MS-33	Hor. Discharge
C89	270	500	HK36M-271	1468-00025	D6-271	5W5T25	GP2K-270	1FM-325	Hor. Sweep Coupling
C90	10	1500	PA4327-2	1469-HV-0000					Horiz. Feedback
C91	.047	400	PC42GL-473	P488-047	DF-503	PTE4S5		4TM-S47	Hor. Output Screen
C92	. 22	400	PC42GL-224	P488-22		GT4P25		4TM-P22	Damper Filter
C93	.22	400	PC42GK-224	P488-22		GT4P25		4TM-P22	Hor. Sweep Coupling
C94	500	20000	PA4346	HV20C	TV2-502				H.V. Filter
C95	.05	600	PC42GM-473	P688-05	DF-503	PTE6S5		6TM-S5	Line Filter

CONTROLS

	RATI		RE	PLACEMENT DA	TA		
ITEM No.	RESIST- ANCE	WATTS	SPARTON PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	INSTALLATION NOTES
RIA B C R2A B R3A B	50KΩ lMeg Shaft End l00KΩ Shaft 25KΩ Shaft	1 2- 2 1 2 1 2	PA4430-1 PA4432 Not req. PA4442 Not req.	Concentrikit Bl1-123 * Bl1-137 * E-187 * Ql1-128 Not req. Ql1-120 Not req.	RTV-84 AM-49-S FS-3 AM-40-S FS-3	SBB-630 B-40 B-26	Horiz. hold control - panel Vert. hold control - rear Attach per instructions in concentrikit Brightness control Attach to R2A per instructions Contrast control Attach to R3A per instructions
R4A B C D R5A B R6 R7	1Meg 330KΩ Shaft End Switch 2.5Meg Shaft 5000Ω 1500Ω	12 12 2 4	PA4428-1 PA4431 Not req. PA4411 PA4426-1	Concentrikit B11-137 * B18-132 * E-187 * 76-1 * Q11-239 Not req. W-5000	RTV-200 AG-84-S FKS-1/4 43-5000 RTV-6	SBBT-629-S AN-83 AK-1 VK-135	Tone control - panel Volume control - tapped ⓐ 50KΩ - rear Attach per instructions in concentrikit Attach per instructions in concentrikit Vert. size control Attach to R5A per instructions Vert. Binearity control Focus control - wire wound

* Additional Parts To Be Used With Concentrikit.

RESISTORS

		-	REPLACEM	ENT DATA		ITEM No.		RAT	ING
ITEM No.	RATING	\$	SPARTON	IRC	IDENTIFICATION CODES	140.	PRI.	SEC. 1	SEC. 2
NO	RESISTANCE	WATTS	PART No.	PART No.	ALL RESISTORS ± 10% UNLESS OTHERWISE STATED	Tl	117VAC		400VCT
R8	100KQ 20%	+			Antenna Coil Shunt		@1.8A		@.112
R9	100KΩ 20%	12			Antenna Coil Shunt			ADC	AD
R10	47KΩ	1			RF Amp. Grid - See Note				
RII	1000Ω	Ĩ		BTS-1000	AGC Network				
R12	100Ω	1/2		BTS-100	RF Amp. Cathode				
R13	15KΩ	Ĩ			RF Amp. Screen				
R14	22000 5%	1 a		BTS-2200-5%	RF Amp. Plate				
R15	lMeg	1			Converter Grid				
R16	56KΩ	1			Converter Screen				
R17	18KΩ	1			Osc. Grid		1	TILO	
R18	470Ω	12		BTS-470	Osc. Plate	ITEM	KA	TING	
R19	7500Ω	ĩo		1 3/4A-7500	Decoup Wire Wound	No.	DC RES	SISTANCE	SPAR
R20	1000Ω	1		BTS-1000	AGC Network		PRI.	SEC.	PAR
R21	15KΩ 5%	1 I			lst Video IF Amp. Grid	T2	150Ω	780Ω	AB4700
R22	100Ω	Ĩ		BTS-100	lst Video IF Amp. Cathode	T3	7000	5.1Ω	PC7007
R23	1000Ω	1/2		BTS-1000	AGC Network	13	Tapped	Tapped@	
R24	3300Ω	1		BTS-3300	2nd Video IF Amp. Grid		a 84Ω	4.1Ω And	
R25	100Ω	-		BTS-100	2nd Video IF Amp. Cathode		a 0432	.2Ω	
R26	1000Ω	1/2		BTS-1000	2nd Video IF Amp. Decoup.		1	SEC.2	-
R27	15KΩ	12			3rd Video IF Amp. Grid			00	-
R28	100Ω	1		BTS-100	3rd Video IF Amp. Cathode	T4	660Ω	6.50	AB4406
R29	1000Ω	12		BTS-1000	3rd Video IF Amp. Decoup.	T5A	140	0.332	PC7004
R30	1000Ω	12		BTS-1000	AGC Network	B	620		FCIOUT
R31	33000 5%	12		BTS-3300-5%	4th Video IF Amp. Grid	T6	3000		PC7000
R32	68Ω 5%	12			4th Video IF Amp. Cathode	10	30035		FC1000
R33	1000Ω	12		BTS-1000	4th Video IF Amp. Decoup.				
R34	2.2Meg	12		BTS-2.2Meg	AGC Keying Grid				
R35	47KΩ	12		BTS-47K	Voltage Divider				
R36	27KΩ	12		BTS-27K	AGC Network				
R37	15KΩ 5%	1 2		BTS-15K-5%	AGC Network				

ITEM No.	RATING		SPAR
	RESISTANCE	WATTS	PAR
R38	56KΩ 5%	12	
R39	33KA 5%	12	
R40	39000 5%	2	
R41 R42	15KΩ 4300Ω 5%	21/21/21/21	
R42	10KΩ	1	
R44	lMeg	1	
R45	lMeg	1/2	
R46	5100Ω 5%	12	
R47	1000Ω	12	
R48	100KΩ	2	
R49 R50	100KΩ 82Ω 5%	Î	
R51	1000Ω	21	
R52	100KΩ	1	
R53	68Ω	12	
R54	1000Ω	12	
R55	27ΚΩ	12	
R56	10KΩ	Ż	
R57 R58	10KΩ 470Ω	1	
R59	220KΩ	2	
R60	1Meg 20%	21	
R61	10KΩ	1/2	
R62	10Meg	1	
R63	270KΩ	12	
R64	56KΩ	2	
R65	470KΩ 20%	2 1	
R66 R67	390Ω 3000Ω	10	
R68	180KQ 5%	10	8
R69	18KΩ	12	
R70	2.2Meg 20%	12	
R71	22KΩ 5%	12	
R72	22KΩ	12	
R73	8200		
R74 R75	8200 1.1Meg 5%	2	
R76	100KΩ	21	
R77	6.8Meg	1	
R78	100KΩ	1/2	
R79	47KΩ	12	
R80	2.2Meg	· 1	
R81	1800Ω	1 1 1	
R82 R83	2200Ω 4.7Meg 20%	1	
R84	3300Ω	1	
R85	33000 5%	1	
R86	100KΩ	1/2	
R 87	100KΩ	12	
R88	4.7Meg	12	
R89	470KΩ 20%	12	
R90	1500Ω 5%	2	
R91 R92	5600Ω 5% 100KΩ 5%	Ż	
R93	200KΩ 5%	1	
R94	22KΩ 5%	2	
R95	68Ω 5%	12	
R96	lMeg	12	
R97	82Ω	1	
R98	9100Ω	2	
R99 R100	3.3Ω 1Meg 20%	Ž	
R100	18KΩ	1	
R102	2700		
R103	8200 5%	12	
No	te: Some Mo	odels Us	e lMeg l

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DESCRIPTIONS

S (CONT.)

DATA			IDENTIFICATION CODES
CORNELL-	ERIE	SPRAGUE	AND
DUBILIER	PART No.	PART No.	INSTALLATION NOTES
PART No.			
1D5D5		29C1	2nd S. IF Fil.
		19C1	2nd S. IF Cath.
	NPOK-3.3		Balancing
5W5T25	GP2K-270	IFM-325	Diode Load Cap
1D5D5	811-005	29C1	RF Bypass
1W5D1	GP2L-001	19C1	DAVC Dec.
1W5D2	GP2M-002	29C2	De-emphasis
PTE4S2		2TM-S2	Audio Coupling
PTE4S2		2TM-S2	Audio Coupling
1D5D5	811-005	29C1	Ratio Det AF Fil.
PTE4S5		4TM-S5	Decoupling
5W5T1	GP1K-100	IFM-31	AF Amp. Plate
PTE6S2		6TM-S2	Audio Coupling
PTE6D5	811-005	6TM-D5	Tone Comp.
PTE6S3		6TM-S3	Tone Comp.
PTE6D5	811-005	6TM-D5	Output Plate Bypass
PTE6S5		6TM-S5	Sync. Coupling
GT2P5		2TM-P5	Sync. Amp. Cath.
PTE6D1	GP2L-001	6TM-D1	Sync. Coupling
PTE6D2	GP2M-002	6TM-D2	Integrator Net
PTE6D5	811-005	6TM-D5	Integrator Net
PTE6D5	811-005	6TM-D5	Integrator Net
ID5D5	GP2M-0047	1FM-25	Vert. Osc. Grid
1D5D5	811-005	29C1	Vert. Osc. Dec. *
PTE4S5		4TM-S5	Vert. Discharge
PTE4P1		4TM-Pl	Vert. Sweep Coupling
PTE4P1		2TM-Pl	Fixed Trimmer
1W5D1	GP2L-001	1FM-21	Hor. Sync. Coupling
1W5D1	GP2L-001	1FM-21	Hor. Sync. Coupling
PTE6S1	821-01	6TM-SI	Voltage Divider
1D5D5	811-005	1FM-25	AFC Filter
PTE4S5		2TM-S5	AFC Filter
1DR 5D4		MS-24	Fixed Trimmer
5R5T3	GP2K-330	MS-33	Hor. MV Feedback
5R5T3	GP2K-330	MS-33	Hor. Discharge
5W5T25	GP2K-270	IFM-325	Hor. Sweep Coupling
			Horiz, Feedback
PTE4S5		4TM-S47	Hor. Output Screen
GT4P25		4TM-P22	Damper Filter
GT4P25		4TM-P22	Hor. Sweep Coupling
			H.V. Filter
PTE6S5		6TM-S5	Line Filter
- 10000			Anne Filter

ROLS

۰T	CENTRALAB PART No.	INSTALLATION NOTES			
	SBB-630	Horiz. hold control - panel Vert. hold control - rear			
	B-40	Attach per instructions in concentrikit Brightness control			
	D-40	Attach to R2A per instructions			
	B-26	Contrast control Attach to R3A per instructions			
	SBBT-629-S	Tone control - panel			
		Volume control - tapped (a) $50K\Omega$ - rear Attach per instructions in concentrikit Attach per instructions in concentrikit			
	AN-83	Vert, size control			
	AK-1	Attach to R5A per instructions			
	VK-135	Vert. linearity control Focus control - wire wound			
		Focus control - whe would			

ORS

ALL RESISTORS ± 10% UNLESS OTHERWISE STATED	
tenna Coil Shunt	-
tenna Coll Shunt	
Amp. Grid - See Note	
C Network	
Amp. Cathode	
Amp. Screen	
Amp. Plate	
nverter Grid	
nverter Screen	
c. Grid	
c. Plate	
coup Wire Wound	
C Network	
Video IF Amp. Grid	
Video IF Amp. Cathode	
C Network	
Video IF Amp. Grid	
Video IF Amp. Cathode	
Video IF Amp. Decoup.	
Video IF Amp. Grid	
Video IF Amp. Cathode	
Video IF Amp. Decoup.	
C Network	
Video IF Amp. Grid	
Video IF Amp. Cathode	
Video IF Amp. Decoup.	
C Keying Grid	
ltage Divider C Network	
C Network	
Unetwork	

ITEM KATING ISPARTON IRC IDENTIFICATION CODES 83 ESIGTANCE WATIS PART No. FART No. FART No. 83 ESIGTANCE WATIS PART No. BTS-58K-5% AGC Network 84 ISK0 5 1 BTS-3800-5% AGC Network 84 ISK0 1 BTS-3800-5% AGC Network 844 ISK0 1 BTS-10K Video Amp. Plate 844 ISK0 1 BTS-10K Video Amp. Plate 844 ISK0 1 BTS-10K Video Amp. Plate 847 IOXG1 1 BTS-10K Video Amp. Plate 848 IOXG1 1 BTS-10K Video Amp. Cridi 849 IOXG1 1 BTS-10K AVC Network 849 IOXG1 1 BTS-10K BTS-10K 840 IOXG1 1 BTS-10K BTS-10K 851 <ioxg1< td=""> 1 BTS-10K BTS-10K BTS-10K <</ioxg1<>				RES	ISTORS (CC	C,TM
No. DFART No. PART No. DEFINITION PART No. R83 55K1 05 $\frac{1}{2}$ PART No. AGC Network R83 55K1 05 $\frac{1}{2}$ PART No. AGC Network R84 15K0 05 $\frac{1}{2}$ PTS-15K AGC Network crid R44 15K0 05 $\frac{1}{2}$ PTS-15K Voltage Divider R44 16K0 05 $\frac{1}{2}$ PTS-16K Voltage Divider R44 10K0 05 $\frac{1}{2}$ PTS-16K Voltage Divider R44 10K0 05 $\frac{1}{2}$ PTS-10K Voltage Divider R44 10K0 05 $\frac{1}{2}$ PTS-10K ACC Anode Load R44 100K0 05 $\frac{1}{2}$ PTS-100K ACC Anode Load R45 100K1 0 $\frac{1}{2}$ PTS-100K ItS cond IF Amp. Cathode R55 861 KK1 0 PTS-100K PTS-100K PTS-10K R56 10K1 0 $\frac{1}{2}$ PTS-10K PTS-10K PTS-10K R56 10K1 0 <t< td=""><td></td><td></td><td></td><td>REPLACEM</td><td>ENT DATA</td><td></td></t<>				REPLACEM	ENT DATA	
RESISTANCE WATTS PART No. PART No. R38 586 56 4 BTS-56K-57 AGC Network R39 3800 57 4 BTS-56K-57 AGC Network R44 3000 57 4 BTS-56K-57 Video Amp. Plate R44 40001 57 4 BTS-16K Video Paking R44 10KR 4 BTS-16K Video Paking R44 10KR 4 BTS-16K Video Paking R44 10KR 4 BTS-10K Video Paking R45 100KR 4 BTS-10K NC AC Network R46 100KR 4 BTS-20K NC AC Network R46 100KR 4 BTS-20K NC AC Network R47 100KR 4 BTS-20K AC Network AC Network R56 100KR 4 BTS-2K AC Network AC Network R56 10KR 4 BTS-2K		RATING	3	SPARTON	IRC	IDENTIFICATION CODES
R88 SKR.0 System BTS-56K-59 AGC Network R40 30000 S% BTS-36K-59 AGC Network R41 15KR BTS-300-59 Video Anp. Grid R42 43000 S% BTS-36K-59 R44 16KG BTS-16K Video Anp. Plate R44 10KG BTS-16K Video Anp. Plate R44 100G BTS-16K Video Anp. Plate R45 100G BTS-1000 ACC Anode Load R46 100KG BTS-1000 ACC Anode Load R45 100KG BTS-1000 BTS-1000 R55 100KG BTS-1000 BTS-1000 R56 BTS-1000 BTS-1000 Ist Sound IF Amp. Calode R56 100KG BTS-1000 Ist Sound IF Amp. Decoup. R56 20KG BTS-1000 Ist Sound IF Amp. Calode R56 20KG BTS-100K Ratio Decoup. R56 20KG BTS-100K Ratio Decoup. R56 S0GG	NO.	RESISTANCE	WATTS	PART No.	PART No.	
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D	R38		1		BTS-56K-5%	AGC Network
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			12			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			2			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			2		BTS-15K	
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			1		BTS-10K	
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			1			
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Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			12			
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Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			<u><u>1</u></u>		BTS-82-5%	
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			12			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			12			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			2		500	
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			121			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			1			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			12			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D	R58		12		BTS-470	Balancing
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			12			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			ŝ			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			2			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			1/2			
Ref6 390Ω 1 BTA - 390 Output Cathode Ref7 300Ω 10 13/4A - 300 Output Decoup. Wire Wound Ref8 180KΩ 5% 1 BTS -180K - 5% Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 22KΩ 5% 1 BTS -22 Meg Sync. Clipper Ref7 8200 1 BTS -8200 Integrator Ref7 8200 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Voltage Divider Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref7 100KΩ 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 100KΩ 1 BTS -47Meg Phase Inv. Cathode Ref8 3300Ω 1 BTS -100K Vert. Osc. Plate Decoup. Ref8 3300Ω 1 BTS -100K Horiz. Phase D			1/2			
R67 30000 10 13/4A-3000 Output Decoup, - Wire Wound R68 18K0 5% 1 Sync. Sep. Plate R70 2.2Meg 20% BTS-18K Sync. Clipper R71 22K0 5% BTS-22Meg Sync. Clipper R71 22K0 5% BTS-22K Integrator R72 22K0 5% F BTS-8200 Integrator R74 8200 BTS-8200 Integrator Voltage Divider R75 1.Meg 5% F BTS-100K Voltage Divider R76 0.0K0 F BTS-100K Voltage Divider R76 100K0 F BTS-42K Voltage Divider R77 6.8Meg BTS-100K Vert. Osc. Plate Decoup. R81 18000 BTS-100K Vert. Osc. Plate Decoup. R81 18000 BTS-100K Vert. Osc. Plate Decoup. R84 30002 BTS-100K Vert. Osc. Plate Decoup. R84 30002 BTS-100K Vert. Osc. Plate Decoup. R84<			12			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt						
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			10			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			1			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			12			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt		22KΩ 5%	12		BTS-22K-5%	Sync. Clipper Plate
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			12			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			Î			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			21		B15-0200	
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			12		BTS-100K	
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			12			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			2			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			Î			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			1			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			í			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt	R83	4.7Meg 20%	12		BTS-4.7Meg	Phase Inv. Grid
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			2			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			21			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			21			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			4			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt	R89		12			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt		1500Ω 5%	12		BTS-1500-5%	Horiz. MV Cathode
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			12			
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			2		BTS-100K-5%	
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt			2		BTB-22K-5%	
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt	R95		12		210-001-070	
R98 91000 2 Horiz. Output Screen R99 3.30 1 HV Rectifier Filament R100 IMeg 20% 1 HV Feitter R101 18K3 1 BTS-18K Horiz. Feedback R102 2703 2 BW-2-270 Focus Coil Shunt		lMeg	Ĩ			
R100 IME 20% 1 R101 IBK Ω $\frac{1}{2}$ BTS-18K R102 270 Ω 2 BW-2-270 Focus Coil Shunt			1		BW-1-82	
R100 IME 20% 1 R101 IBK Ω $\frac{1}{2}$ BTS-18K R102 270 Ω 2 BW-2-270 Focus Coil Shunt			2			
R10118K Ω $\frac{1}{2}$ BTS-18KHoriz. FeedbackR102270 Ω 2BW-2-270Focus Coil Shunt			2			
		18KΩ	1		BTS-18K	
R103 8200 5% 2 BTS-8200-5% Vert. Peaking		270Ω			BW-2-270	
	R103	8200 5%	12			

Note: Some Models Use IMeg Resistor In This Application.

TRANSFORMER (POWER)

			10. 2007		REPLACEMENT DATA					
ITEM No.		RAT	ING		SPARTON PART No.	STANCOR	MERIT	CHICAGO		
	PRI.	SEC. 1	SEC. 2	SEC. 3		PART No.	PART No.	PART No.		
Tl	117VAC 1.8A	760VCT (a).170	400VCT (a).112	5VAC@ 3A	AB44018-1	P-8157	P3067			
		ADC	ADC	SEC. 4 6.3VAC (a) 9.6A						

TRANSFORMER (SWEEP CIRCUITS)

	PA	TING		REPLACE	MENT DATA		_
ITEM No.	DC RES	SISTANCE	SPARTON PART No.	STANCOR PART No.	MERIT PART No.		NOTES
_	PRI.	SEC.	TAKI NO.	TAKI NO.	TAKI NO.	TAKI NO.	
T2 T3	150Ω 700Ω Tapped ⓐ84Ω	780Ω 5.1Ω Tapped@ 4.1Ω And .2Ω SEC.2 0Ω	AB47006-4 PC7007	A-8111	A-3000 HVO-6	TBO-1	Vert. Osc. Block Trans. Horiz. Output Trans.
T4 T5A B T6	660Ω 14Ω 62Ω 300Ω	6.5Ω	AB44062-4 PC7004 PC70005-1	A-8115 DY-7 FC-10	A-3035 MD-3 MF-1	TSO-1	Vert. Output Trans. Horiz. Deflection Coil Vert. Deflection Coil Focus Coil

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

						REPLACEM	ENT DATA		1
ITEM		RAT	ING		SP4 PROM	STANCOR	MERIT	CHICAGO"	INSTALLATION NOTES
No.	IMPED	ANCE	DC	RES.	SPARTON	PART No.	PART No.	PART No.	
	PRI.	SEC.	PRI.	SEC.	PART No.	PART NO.	FART NO.		
T7	6.3KΩ	3.8Ω	250Ω	.8Ω	AB44066-2	A-3823	A-3019	RO-9 🛈	① Drill one new mtg. hole.

SPEAKER

				ACEMENT DAT	TA	
ITEM No.	FIELD RES.	NGS V. C. IMP.	SPARTON	JENSEN	QUAM PART No.	NOTES
SPI	160Ω	3.8Ω	PART No. PC63000-29	PART No.	57E160S	
SP2	CONE DIA. 4 3/4"X 7"	V. C. DIA. 3/4''				

FILTER CHOKE

		RATINGS			REPLACEMEN			
ITEM No.	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 ~)	SPARTON PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	INSTALLATION NOTES
Ll	. 112A	130Ω	5 Henries	AB47000-1	C-2303 ①	C2994		① Drill one new mtg. hole

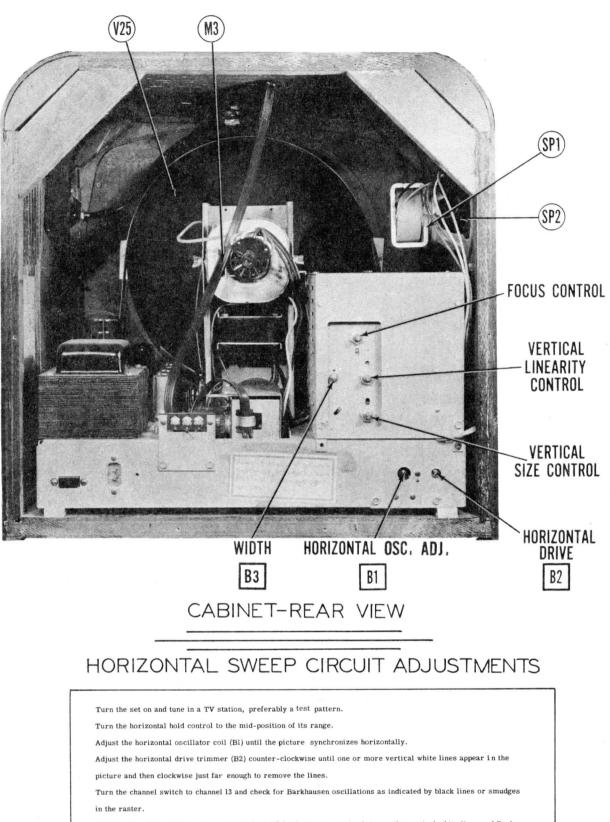
REPLACEMENT DATA										
ITEM No.	USE	DC RES.		SPARTON	MEISSNER PART No.	IRC PART No.	NOTES			
		PRI.	SEC.	PART No.	PARI NO.	PART NO.				
L2	RF Choke	.1Ω					1.4 Microhenries			
L3	Fil. Choke	.12		*			1.6 Microhenries			
L4	Fil. Choke	.10		*			1.6 Microhenries			
L5	IF Trap	.1Ω		AA6654-1						
L6	lst Video IF	.1Ω		AB43523-8			1 10 M 1001 - 100000 - 1000 - 11			
L7	RF Choke	3Ω		PA4225-3		CLA	3.3 Microhenries			
L8	Fil. Choke	.1Ω		AA6651-1			3 Microhenries			
L9	RF Choke	3Ω		PA4225-3		CLA	3.3 Microhenries			
L10	2nd Video IF	. ΙΩ		AB43523-6						
Lll	Adj. Channel		1			2				
	Sound Trap	.1Ω		AB43524-10		0				
	RF Choke	3Ω		PA4225-3		CLA	3.3 Microhenries			
	3rd Video IF	.2Ω		AB43523-10						
	Fil. Choke	.1Ω		AA6651-1			3 Microhenries			
	Grid Choke	2Ω		AA6644-1			11 Microhenries			
	Sound Take									
	Off Coil	.1Ω	.2Ω	AB43524-8						
	4th Video IF	.2Ω		AB43523-10						
	Fil. Choke	.1Ω		AA6651-1			3 Microhénries			
	Grid Choke	2Ω		AA6644-1			11 Microhenries			
	Sound Trap	.1Ω		AB43524-9						
	5th Video IF	.2Ω		AB43523-11			3 Microhenries			
	Fil. Choke	.1Ω		AA6651-1			25 Microhenries			
	Peaking	3.3Ω		AA6650-1	10 1001 0		25 Microhenries 120 Microhenries Wound On 22KΩ Resistor			
	Peaking	7.70		AA6402-2	19-1921 D		120 Micronenries wound On 22KM Resistor			
	4.5 MC Trap	2.60	ļ	AA6404-1	1 10 1000					
	Peaking	11Ω		AA6613-7	19-1922		243 Microhenries			
	Peaking	10Ω		AA6402-5	19-1921 ②		180 Microhenries Wound On 12KΩ Resiston			
	Peaking	10Ω 0Ω		AA6402-4	19-1922 ③		200 Microhenries Wound On 33KΩ Resisto			
	RF Choke						Length of #22 Wire			
	Fil. Choke	.1Ω		AA6651-1			3 Microhenries			
	Sound IF RF Choke	.4Ω 0Ω		AA6663-2		1	5 IN 6 100 TH			
	Fil. Choke	.1Ω		AA6651-1			Length of #22 Wire 3 Microhenries			
	Ratio Det.	. 152		AA0051-1			3 Micronenries			
L34	Trans.	.6Ω	.1Ω	AA6684-3						
L35	Fil. Choke	. 10	. 156	AA6651-1			3 Microhenries			
	Horiz. Osc.	. 152		AA0001-1			3 Micronenries			
130	Coil	50Ω		AA6403-2						
L37	Width Coil	.7Ω		AA6405-3						
<u> </u>	Part Of Tuner		L							

COILS (RE-IE)

Part Of Tuner Part No. AD93152-2
 Parallel With 22KΩ Resistor
 Parallel With 12KΩ Resistor
 Parallel With 33KΩ Resistor

MISCELLANEOUS

ITEM No.	PART NAME	SPARTON PART No.	NOTES
M1 M2 M3 B2	RF Tuner Fuse Ion Trap Trimmer Safety Glass Knob Knob Knob Knob Knob Band Band	AD93152-2 PA1175 PA4368 PC63078-1 PA5631-1 PA5630-1 PA5633-1 PA5633-1 PA5633-1 PA5634-1 PA5650 PA6572-2	Complete With Tubes .25A 250V Type GJV Horiz. Drive 20-270MMF Channel Selector Fine Tuning Volume-Vert. Hold Tone - Horizontal Hold Contrast - Brightness Antenna Indicator Dial



If indications of oscillations are present adjust B2 for best compromise between the vertical white lines and Barkhausen oscillations.

Adjust the width slug B3 until the picture fills the mask horizontally.