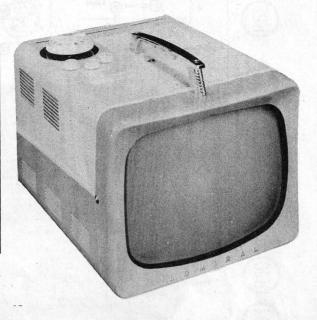
PHOTOFACT* Folder



DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

- 1. Remove 5 push-on type control knobs.
- 2. Remove 2 metal screws. Remove rear cover.
- 3. Remove 2 metal screws. Remove handle.
- 4. Remove 2 metal screws. Remove front and safety glass.
- 5. Remove I metal screw from top of cabinet.
- 6. Remove 6 chassis bolts from bottom of cabinet.
- 7. Remove chassis from front.
- 8. Remove 2 speaker leads.
- 9. Remove 2 metal screws. Remove speaker.



SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

Touch-up adjustment of the VHF tuner oscillator may be accomplished by removing channel selector, fine tuning knobs and escutcheon. The adjustments are accessible, one at a time as channels are changed. Adjust rear slug. Always adjust lowest channel first.

PICTURE TUBE SAFETY GLASS CLEANING

Remove 2 metal screws holding front of cabinet. Using extreme caution, remove front of cabinet and safety glass.

SERVICE ADJUSTMENT LOCATION

See tube placement chart on page 5.

FOCUS

Focus may be varied by placement of strap between pins

6 and 2 or 6 and 10 of picture tube. Readjust ion trap for best focus consistent with maximum brightness.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Adjust horizontal hold until picture synchronizes horizontally.

FUSES

 $A \; l0\Omega$ fusible resistor R83 is used for LV power supply protection.

CENTERING

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

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

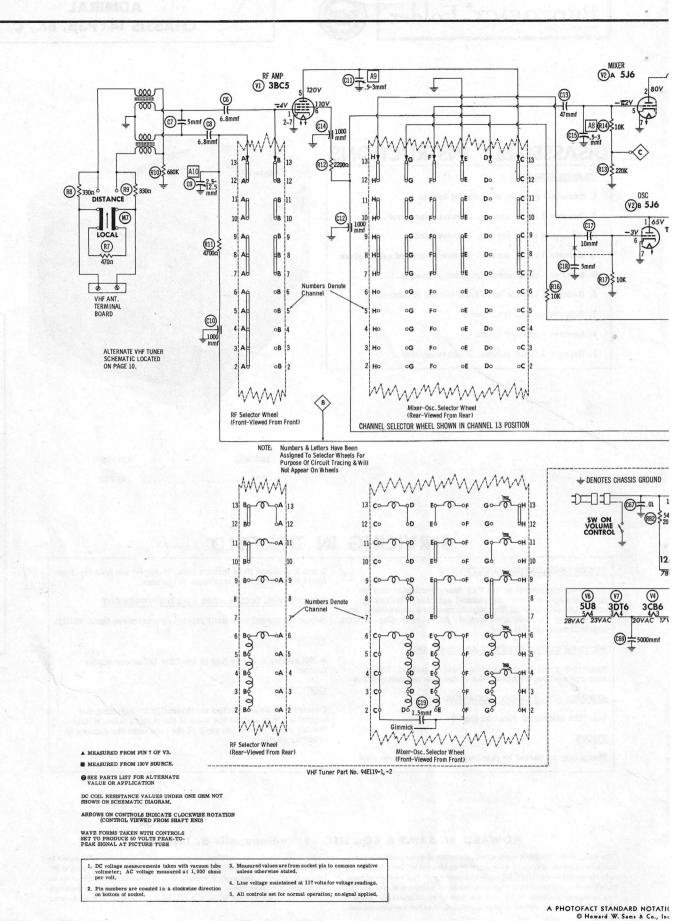
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed." "Reproduction or use, without express permission, of editorial or pictorial con-G-762

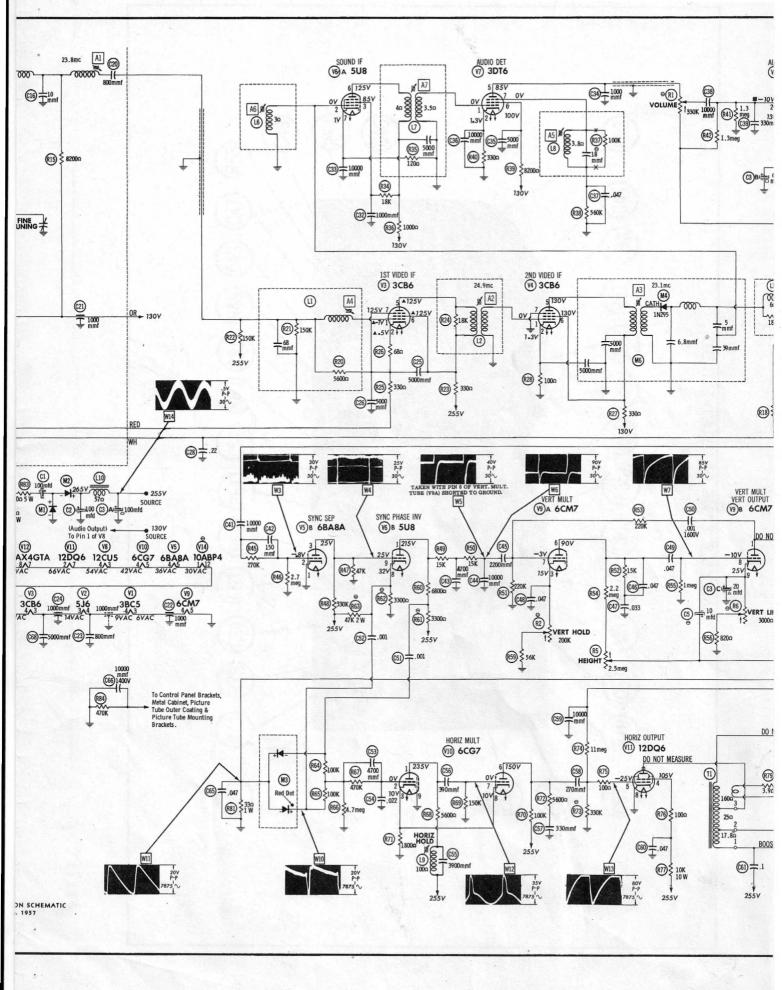
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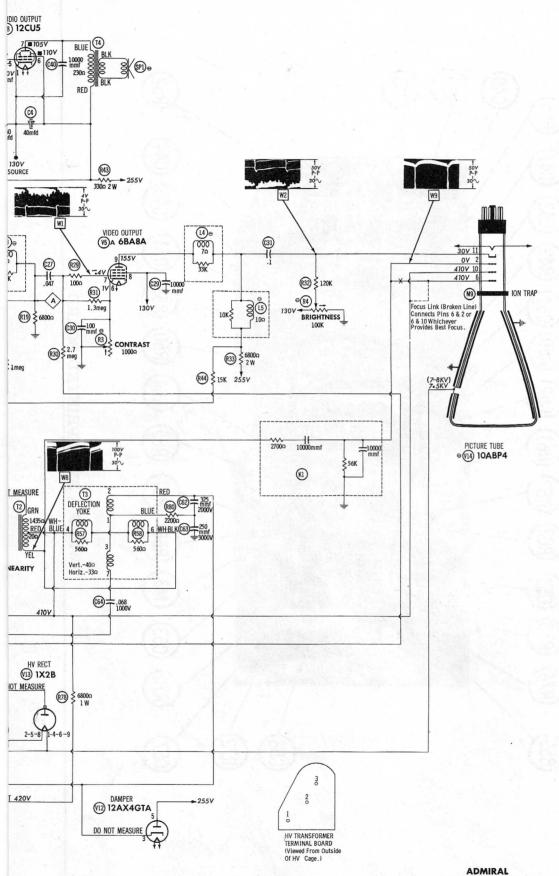
DATE 3-57

SET 350

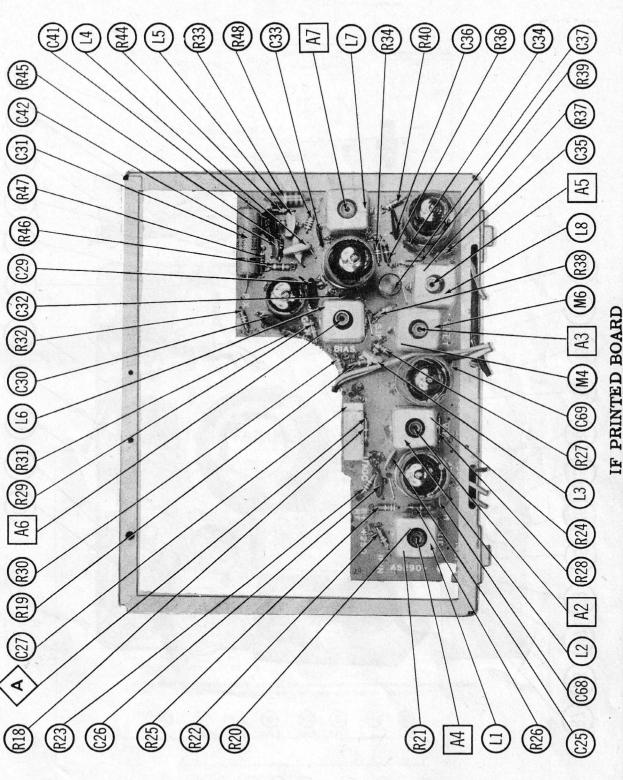
FOLDER 1

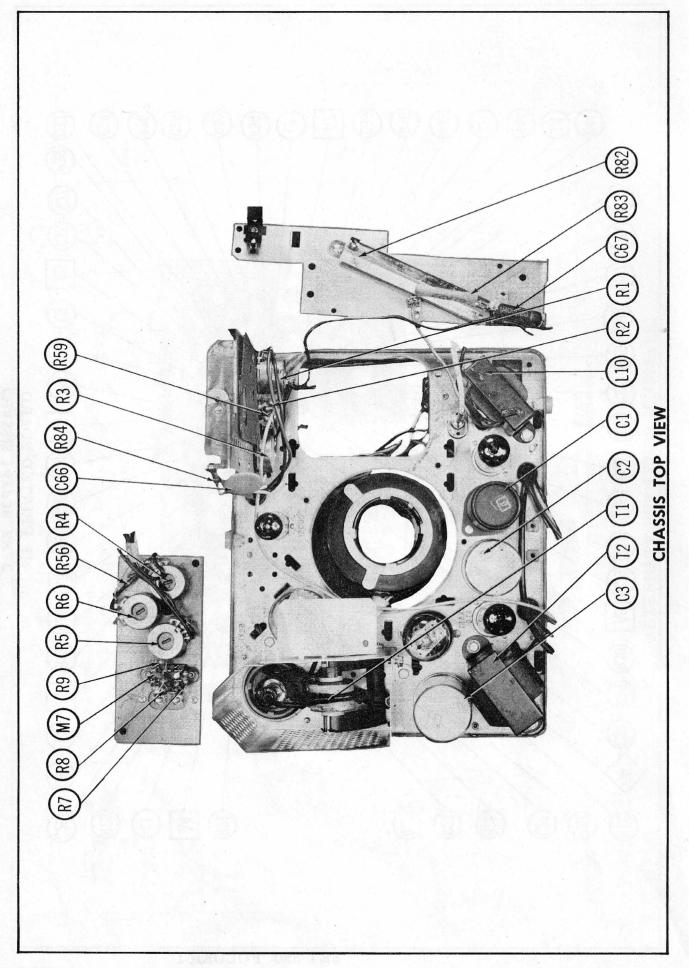


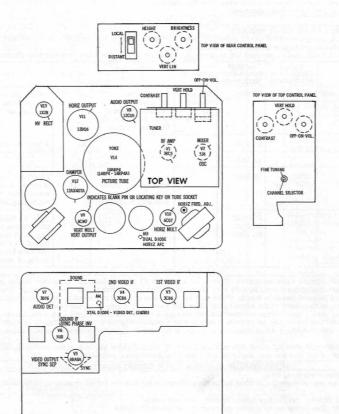




ADMIRAL CHASSIS 14YP3B, BK, C







TUBE FAILURE CHECK CHART

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

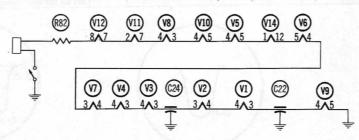
POWER SUPPLY FAILURE
No raster, no sound - Fusible Resistor (R83), Rectifier (M1) or (M2)

LOSS OF PICTURE OR SOUND
No pic, no sound, has raster - V3, V4, Diode (M4), V8
No pic, no sound, has snow - V1, V2
No pic, has sound, has raster - V5, V14
Has pic, no sound - V6, V7, V8

SYNC FAILURE
No vert, sync - V5, V6, V9
No horiz, sync - V5, V6, Diode (M3), V10
No vert, or horiz, sync - V5, V6

SWEEP FAILURE
No raster, has sound - M3, V10, V11, V12, V13, V14
No vertical deflection - V9
Poor vert. linearity or foldover - V9
Poor horiz, linearity or foldover - V10, V11, V12
Narrow picture - V10, V11, V12, M1, M2
Vert. off freq. - V9
Horiz, off freq. - M3, V10 SWEEP FAILURE

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



ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The high voltage lead should be securely taped and kept away from the chassis.

Use an isolation transformer to protect the test equipment.

VIDEO IF ALIGNMENT

Disconnect antenna and connect a jumper across terminals.

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.

Use only enough sweep generator output to provide usable pattern on scope.

Connect the negative lead of a 2.5 volt bias supply thru 10K to point. Positive to chassis. Turn contrast fully counter clockwise.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
Direct	High side to ungrounded tube shield floating over mixer-osc. tube (V2). Low side to chassis.	Not used	23. 8MC	Any non- interfer- ing channel	USE VTVM. DC probe thru de- coupling network (Fig. 1) to point (A). Common to chassis.	Al	Detune A4 by turning slug clockwise until slug extends approximately 1/8" out of coil. Adjust Al for maximum deflection.
		"	24.9MC	"	n n	A2	Adjust for maximum deflection.
"	n .	"	23.1MC	u.	ıı e	A3	n ,
	•	23MC (7MC Swp)	23.5MC	" (5)	Vert. Amp. thru decoupling network (Fig. 1) to point A. Low side to chassis.		Check for response curve similar to Fig. If curve does not resemble Fig. 2 repeat steps 1 thru 3 for correct curve before continuing with step 5.
"	n	m	21. 25MC 23. 5MC 25. 75MC	"	n .	A4	Turn A4 counter clockwise to reduce peak and broaden bandwidth of curve to resembl Fig. 3. It may be necessary to alternately adjust A4 and Al to obtain proper curve will markers located as shown. The dotted line in Fig. 3 shows permissable variation.

SOUND IF ALIGNMENT

- SOUND IF AIIGNMENT

 1. Turn the set on and allow 15 minutes warm-up period. Tune in the strongest TV signal available. Adjust the set for normal operation.

 2. Using a non-metallic hexagonal alignment tool, turn A5 very slowly clockwise until a buzz is heard in the sound. Then turn counter clockwise until the loudest and clearest sound is heard. There may be two points at which the sound is loudest (approximately ½ turn apart). The slug should be set at the center of the second point of loudest sound as the slug is turned clockwise.

 3. Using an attenuator between the antenna and the receiver antenna terminals reduce the input signal until a considerable amount of hiss and noise is heard in the sound. The signal may be reduced in strength by disconnecting the antenna and placing the lead near the terminals.

 4. Carefully adjust A6 for the clearest sound with a minimum of noise. If the hiss disappears during alignment, reduce the signal still further until the hiss returns.

 5. Carefully adjust A7 for loudest and clearest sound with the light of the lead of the clearest sound with a minimum of noise. If the hiss disappears during alignment, reduce the signal still further until the hiss returns.
- 5. Carefully adjust A7 for loudest and clearest sound with minimum hiss. If this alignment has been made correctly, no further alignment should be necessary. However, if the sound is still distorted and noisy repeat the entire procedure.

VHF OSCILLATOR ALIGNMENT FOR TUNERS #94E119-1 AND #94E119-2

Turn the set on and allow 15 minute warm-up time.

- 1. Set the channel selector to the lowest channel operating in the area (always start with the lowest channel to be adjusted and the next
- 2. Set the control for a normal picture. Set the fine tuning midway between stops.

 3. Remove the channel selector, fine tuning knobs and the gold escutcheon under the knobs.

 4. Using an 1/8" blade non-metallic alignment tool, carefully adjust the oscillator slug for best picture quality. (When two slugs are visible adjust the one marked REAR SLUG in Fig. 4) Repeat the procedure for the remaining channels in order of their channel number (from lowest channel to highest channel).

VHF OSCILLATOR ALIGNMENT FOR TUNER #94DI28-1

Always make channel adjustments on the highest channel to be adjusted first since adjustment on one channel will affect adjustment of the lower channels. Before adjusting see Fig. 5 for location of channel adjustment screws. Adjust as follows:

1. Turn the set on and allow 15 minutes warm-up period.

2. Set the channel selector to the highest VHF channel to be adjusted and adjust the controls for normal picture.

- 3. Set the fine tuning control at the center of its range by turning in either direction two full turns then one quarter turn in the opposite direction.
- opposite direction.

 4. Remove the channel selector, fine tuning knobs, and the escutcheon under knobs.

 5. Using an 1/8" blade non-metallic alignment tool, carefully adjust for best picture. (Note that sound is not loudest at this point.)

 Repeat this procedure for remaining stations, in order of their channel numbers (starting with the highest channel and proceding to the lowest).

NOTE: If channel adjustment screws for channels 7 to 12 do not have sufficient range, make adjustments using channel 13 slug and then check adjustment of each of the lower channels. If the channel adjustment screws for channels 2 thru 5 do not have sufficient range, make adjustment using channel 6, then check each of the lower channels. If channel 6 or 13 is in operation, use next lower channel to extend

VHF RF AND MIXER ALIGNMENT FOR TUNERS #94EII9-1 AND #94EII9-2

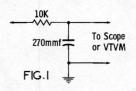
Connect the negative lead of a 2.5 volt bias supply to point (a). Positive to chassis. Set the local-distant switch to "Distant" position.

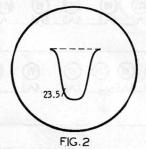
Turn the set on. Allow 15 minutes warm-up period.

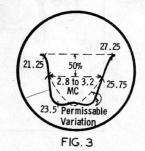
Connect the synchromized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

Use only enough sweep generator output to provide usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
Two 120Ω Carbon Resistors	with 120Ω in each lead.	201MC (10MC Swp)	199. 25MC 203. 75MC	11	Vert. Amp. thru 15K to point C. Low side to chassis.	A8, A9	Alternately adjust A8 and A9 to obtain response curve similar to Fig. 6 with markers as shown.
"	1,000	85MC (10MC Swp)	83. 25MC 87. 75MC	6 Element	er transi ancia, mante n c an az lan ant anciaga	A10	Adjust to obtain response curve similar to Fig. 6 with markers as shown. Check other channels using proper sweep and marker frequencies. If necessary retouch A8 and A9 for correcting high band channels and Al0 for low band channels.







6.

ALIGNMENT INSTRUCTIONS (cont) VHF RF AND MIXER ALIGNMENT FOR TUNER #94D128-1

Connect the negative lead of a 3 volt bias supply to point
B. Positive to chassis.

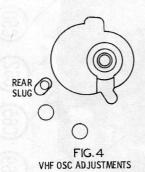
Set the local-distant switch to "Distant" position.

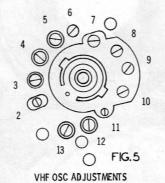
Allow 15 minute warm-up period for receiver and test equipment.

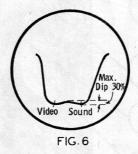
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

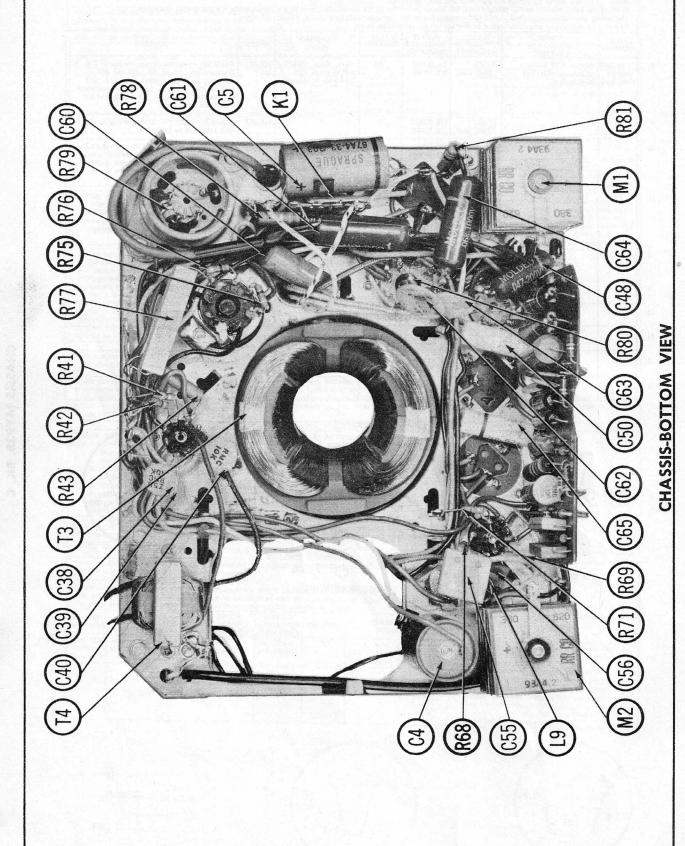
Use only enough sweep generator output to provide usable pattern on scope.

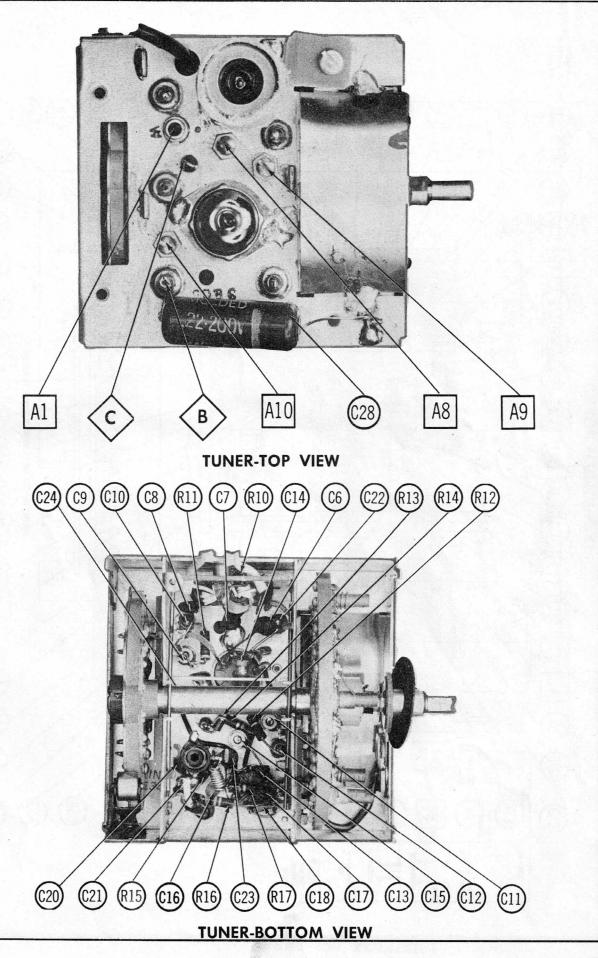
	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
8.	Two 120Ω Carbon Resistors	terminals with 120Ω	213MC (10MC Swp)	211. 25MC 215. 75MC	13	Vert. Amp. thru 10K to point . Low side to chassis.	All, Al2, Al3	Check for response curve similar to Fig. 6. If necessary, adjust All, Al2 and Al3 alternately to obtain proper response. Al2 and Al3 are adjusted for proper bandwidth and marker positions. All is adjusted for maximum amplitude.
9.	"	"	177MC (10MC Swp)	175. 25MC 179. 75MC	7	n.	Al4, Al5	Adjust for response curve similar to Fig. 6 with markers as indicated.
10.		"	213MC (10MC Swp)	211. 25MC 215. 75MC	13	n	A13, A16	Retouch Al3 if necessary for proper response curve (Fig. 6). If bandwidth is too broad move lead (Al6) away from mixer grid ground strap. If too narrow, move lead closer.
11.	-	,	177MC (10MC Swp)	175. 25MC 179. 75MC	7	"	A17	If bandwidth is too broad move lead (Al7) closer to capacitor body. If too narrow move away from capacitor. Check other high band channels using proper frequencies. If necessary, make compromise adjustments of steps 8 thru ll.
12.			85MC (10MC Swp)	83. 25MC 87. 75MC	6	"	*A18, *A19, *A20	If required, alternately adjust coils by expanding or compressing coil turns to obtain proper response. Adjust coils whose "A" numbers are preceded by (*) for maximum amplitude. Adjust others for tilt and marker placement.
13.	"	n n	79MC (10MC Swp)	77. 25MC 81. 75MC	5	"	*A26, A22, A23	n
14.	53	"	69MC (10MC Swp)	67. 25MC 71. 75MC	4	"	*A24, A25, A26	n
15.	.,,	"	63MC (10MC Swp)	61.25MC 65.75MC	3	"	*A27, A28, A29	n di
16.	"	"	57MC (10MC Swp)	55. 25MC 59. 75MC	2	"	*A30, A31, A32	п

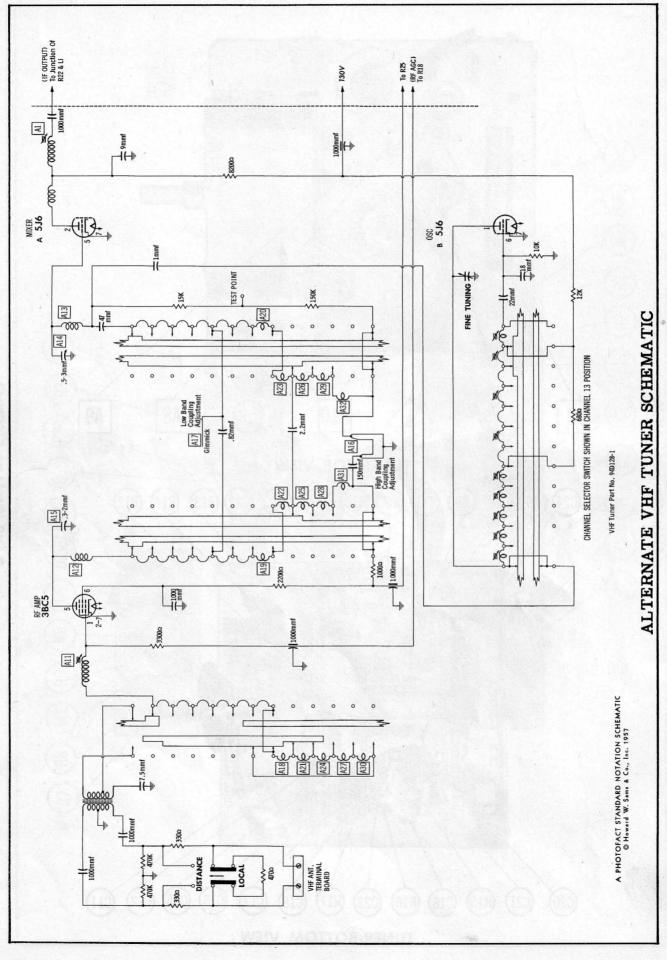










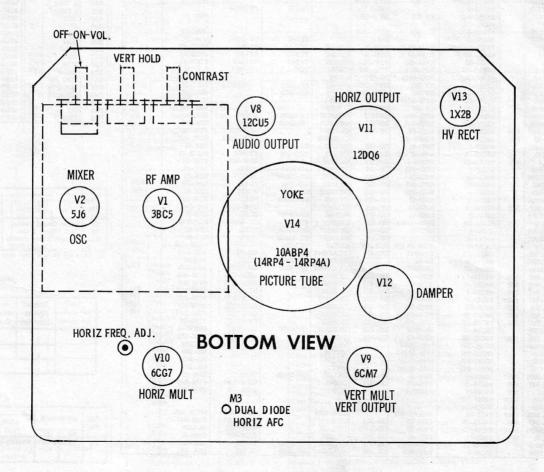


RESISTANCE MEASUREMENTS

TEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	3BC5	1Meg	0Ω	1.5Ω	2.20	▲ 330Ω	▲ 2.5K	0Ω		
V2	5J6	■ 10K	■ 8200Ω	3.5Ω	2.2Ω	230K	10K	0Ω		
V3	3CB6	. 5600Ω	▲ 68Ω	3.5Ω	4.4Ω	† 330Ω	† 330Ω	70K	41 and 10	
V4	3CB6	.4Ω	100Ω	4.4Ω	5.2Ω	■ 330 Ω	■ 330Ω	0Ω		
V5	6BA8A	0Ω	2.7Meg	† 330K	9Ω	8Ω	●150Ω	1.2Meg	100K	
V6	5U8	†10K	3Ω	■ 20K	6Ω	7Ω	■ 1000Ω	120Ω	3300Ω	43K
V7	3DT6	3.5Ω	330Ω	6Ω	5.2Ω	† 330K	■ 8200Ω	560K		
V8	12CU5	100K	560K	10Ω	12Ω	560K	† 330Ω	†560Ω		100
V9	6CM7	‡7500Ω	NC	● 90K	1.5Ω	0Ω	• ‡2.5Meg	220K	1Meg	• 1900Ω
V10	6CG7	†5600Ω	5.2Meg	1800Ω	10Ω	9Ω	†100K	150K	1800Ω	0Ω
V11	12DQ6	NC	13.5Ω	TP	†10K	330K	TP	12Ω	0Ω	TOP CAP ‡25Ω
V12	12AX4GTA	\ TP	TP	110K	NC	57Ω	TP	13.5Ω	15Ω	1.34(1.45)
V13	1X2B		PINS	1 THRU 9	HAVE	INFINITE	RESISTA	NCE	Malife Malife	TOP CAP †185Ω
V14	10ABP4	8Ω	56K	Pin 6 56K	Pin 10 †6800Ω	Pin 11 = 200K	Pin 12 7Ω			

- MEASURED FROM OUTPUT OF M2.
- THIS READING WILL VARY, CONTROL SET FOR NORMAL OPERATION.
- MEASURED FROM PIN 7 OF V3.

 # MEASURED FROM PIN 3 OF V12.
- MEASURED FROM 130V SOURCE.
- NC NO CONNECTION
 TP TIE POINT



TUBE PLACEMENT CHART
SET 350 FOLDER 1

TUBES (GENERAL ELECTRIC, SYLVANIA)

No,	USE	TYPE	NOTES
V1	RF Amplifier	3BC5	
V2	Mixer-Oscillator	536	1
V3	1st Video IF Amplifier	3CB6	1 300
V4	2nd Video IF Amplifier	3CB6	
V5	Video Output-Sync Sep.	6BA8A	1
V6	Sound IF Amp		
	Sync Phase Inverter	5U8	

No.	USE	TYPE	NOTES
V7	Audio Detector	3DT6	
V8	Audio Output	12CU5	
V9	Vert. Mult Vert. Output	6CM7	
V10	Horiz. Mult.	6CG7	
VII	Horiz. Output	12DQ6	
V12	Damper	12AX4GTA	
V13	HV Rectifier	1X2B	

PICTURE TUBE

		REPLACE	MENT DATA		
No.	ADMIRAL PART No.	CBS PART No.	GENERAL ELECTRIC PART No.	SYLVANIA PART No.	NOTES
V14	10ABP4 14RP4 14RP4A		14RP4 14RP4A ①	10ABP4B 14RP4 14RP4A ②	① Aluminized ② Silver Screen 85

ELECTROLYTIC CAPACITORS

	RAT	ING			REPLA	CEMENT DATA			
No.	CAP.	VOLT.	ADMIRAL PART No.	AEROVOX PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
Cl C2	100 100	150 300	67D15-183 67D15-134	AFHS1-22 AFHS1-36-05	XA0241 BO260	FPH6 FPH38 & TC65	TMS-22	D-070	TVL-1423 TVL-2576
C3A B C	≥100 ≥60 ≥20	300 150 50	67D15-135	AFH4-114-90		FP336		T-375	R2367 †
C4	40	200	67A25-2	PRS250V40	BR4025	TC58	TD-40-250	FM-2540	TVA-1511
C5	10	475	67A4-22 (Note 1)	PRS500V10	BR1250	TC82	TD-10-500	MT-4710	TVA-1802

Note 1. A 10MFD @ 500V (Part #67A4-34) may be used in some versio † Non-catalog item.

FIXED CAPACITORS

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

	04-	11.10			Sectors.	1	REPLACEMENT	DATA		
No.	CAP.	VOLT	ADMIRAL PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C6	6.8		65D10-26	NP0-SI6. 8	TCZ-6R8	C10V68C	TCO-6.8	ZT-5568	5TCCB-V68	
C7	5		65D10-108	NPO-SI5	TCZ-4R7	C10V5C	TCO-5	ZT-555	5TCCB-V47	
C8	6.8		65D10-26	NPO-SI6. 8	TCZ-6R8	C10V68C	TCO-6.8	ZT-5568	5TCCB-V68	
	2.5-12.5		66A38-5							
C10	1000		65B26-5	EF-001	MFT-1000			Section 2	503C-D1	
CII	. 5-3	1	66A38-6		829-3		3115-D	CT-565A		
C12	1000		65B26-5	EF-001	MFT-1000				503C-D1	
C13	47	-	65D10-73							
C14	1000		65B26-5	EF-001	MFT-1000	1		ALC: NO PERSONS AND ADDRESS OF THE PERSONS AND ADDRESS AND A	503C-D1	
C15	. 5-3		66A38-6		829-3	100	3115-D	CT-565A		
C16	10	- S	65D10-50	N750-SI 10	TCN-10	Cloolu	TC7-10	NT-541	5TCU-QL	San
C17	10		65D10-50	N750-SI 10	TCN-10	CloQlU	TC7-10	NT-541	5TCU-Ql	
C18	5		65D10-22	N750-SI5	TCN-5	C10V5U	TC7-5	NT-555	5TCU-V5	
C19	1.5		65B28-015	NP0-SI 1. 5	TCZ-IR5	C10V15C	TCO-L 5	ZT-5515	5TCCB-VI5	
C20	800	100	65D10-20	BPD-0008	DD-801	L10T8			5GA-T8	
C21	1000		65B26-5	EF-001	MFT-1000		ED-1000	1000	503C-D1	
C22	1000	4.7	65B26-5	EF-001	MFT-1000	Park I	ED-1000		503C-D1	
C23	800		65D10-20	BPD-0008	DD-801	L10T8			5GA-T8	
C24	1000		65B26-5	EF-001	MFT-1000				503C-D1	
C25	5000	1300	65D10-5	BPD-005	DD-502	BYA10D5	GP-5000	DC525	5HK-D5	
C26	5000	Shight St	65D10-5	BPD-005	DD-502	BYA10D5	GP-5000	DC525	5HK-D5	
C27	. 047	200	65C25-59	BPD-05	DF-503	CUB2S47		GEM-2147	2TM-S47	
C28	. 22	200	64C25-80	P288N-22		CUB2P22		GEM-2022	2TM-P22	
C29	10000		65D10-3	BPD-01	DD-103	BYA6S1	GP-10000	DC511	5HK-Sl	
C30	100		65C44-13	NP0-SI 100	TCZ-100	Clotic	TCO-100	ZT-531	5TCC-T1	
C31	.1	400	64C25-32	P488N-1	DF-104	CUB4Pl	1000	GEM-401	4TM-Pl	
C32	1000		65D10-6	BPD-001	DD-102	BYA6D1	ED-1000 GP-10000	DC521 DC511	5HK-D1	
C33	10000	1	65C44-2	BPD-01 BPD-001	DD-103 DD-102	BYA6S1	ED-1000	DC521	5HK-S1 5HK-D5	
C34 C35	1000 5000	1 1 - 9	65C10-53 65D10-5	BPD-001	DD-502	BYA6D1 BYA10D5	GP-5000	DC525	5HK-Sl	
C36	10000		65C44-2	BPD-01	DD-103	BY A6S1	GP-10000	DC511	2TM-S47	
C37	. 047	200	64B16-55	BPD-05	DF-104	BC2S47J	GF -10000	GEM-2147	2SE-S47	
C38	10000	200	65D10-3	BPD-01	DD-103	BYA6S1	GP-10000	DC 511	5HK-SI	
C39	330		65D10-118	BPD-00033	DD-331	L10T33	ED-330	UC-5333	5GA-T33	
C40	10000		65D10-3	BPD-01	DD-103	BYA6S1	GP-10000	DC511	5HK-Sl	
C41	10000		65C44-2	BPD-01	DD-103	BYA6S1	GP-10000	DC511	5HK-Sl	
C42	150		65C44-9	N750-DI 150	TCZ-150	L10T15	TC7-150		5TCU-T15	
C43	4700		65D10-112	DI-0047	DD-472	BYA10D47	GP-4700	UC-5247	5HK-D47	The state of the state of
C44	10000	1400	65C44-2	DI-01		BYA6S1	GP-10000	DC511	5HK-Sl	
C45	2200		65D10-111	DI-0022		BYAl0D22	GP-2200	UC-5222	5GA-D22	
C46	. 047	400	64C25-34	BPD-05	DF-503	CUB4S47		GEM-4147	4TM-S47	
C47	. 033	600	64C24-10	BPD-03	DF-303	CUB6S33		GEM-6133	6TM-S33	
C48 C49	. 047	200	64C24-9	BPD-05	DF-503	CUB2S47		GEM-2147	2TM-S47	-
C49	. 047	600	64C25-9	BPD-05	DF-503	CUB2S47		GEM-6147	6TM-S47	1
C50	. 001	1600	64A2-28	BPD-001	DF-102	CUB16D1		GEM-1621	16TM-DI	
C51	. 001	400	64C25-20	BPD-001	DF-102	CUB4D1		GEM-421	4TM-Dl	
C52	. 001	400	64C25-20	BPD-001	DF-102	CUB4D1	an 1500	GEM-421	4TM-DI	
C53	4700		65C44-21	DI-0047	DD-472	BYA10D47	GP-4700	UC-5247	5HK-D47 2TM-S22	1104
C54	3900	200	64C25-86 65B21-392	BPD-02 1467-0039	DD-203	CUB2S22 5RID39		GEM-2122	MS-239	
C55 C56	3900		65B21-391	1468-00039		1R5T39		300 4 8 9	MS-239 MS-339	
C57	330		65B21-331	1464-00033	1	1R5T33			MS-333	
C58	270	13304	65B21-271	1468-00027	100	1R5T27			MS-327	
C59	10000		65D10-41	BPD-01	DD-103	BYA6S1	GP-10000	DC511	5HK-S1	100
C60	. 047	400	64C25-34	BPD-05	DF-503	CUB4S47	-10000	GEM-4147	4TM-S47	
C61	.1	600	64C25-7	P688N-1		CUB6Pl		GEM-601	6TM-Pl	
C62	325	2000	65D10-115		1 1 1 1 1 1 1					
C63	250	3000	65D10-114	1	17115		14. 20 . 2			
C64	.068	1000	64A2-34	P1088N-068	100	CUBI0S68		GEM-10168	10TM-S68	
C65	. 047	200	64C25-59	BPD-05	DD-503	CUB2S47	100	GEM-2147	2TM-S47	
C66	10000	1400	65D10+65	DAC-27	DD16-103	CUB16S1	Established St.	GEM-1611	BL-SIO	
C67	. 01	600	64A2-35	BPD-01	DD-103	CUB6S1		GEM-611	6TM-Sl	N. S.
C68	5000		65C44-1	BPD-005	DD-502	BYA10D5	GP-5000	DC525	5HK-D5	
C69	5000	1	65C44-1	BPD-005	DD-502	BYA10D5	GP-5000	DC 525	5HK-D5	150 C 3000 L

PARTS LIST AN

	RATI	NC		RE	PLACEMENT
ITEM	KAII	NG	ADMIRAL	CENTRALAB	CLAROSTA
No.	RESIST- ANCE	WATTS	PART No.	PART No.	PART No
RIA	330K	1/2	75C1-77 ①		A47-500K-2
В	Shaft				KSS-3
C	Switch				SWE-12
R2A	200K	1 2	75C20-45②	AB-46	A47-200K-S
В	Shaft	16		AK-4	KSS-3
R3A	1000Ω	1 2	75C13-763	AB-505	
В	Shaft	1200		AK-4	
R4A	100K	1 2	75C20-44 4	AB-40	Part I
В	Shaft	100		AK-19	
R5A	2.5Meg	1 2	75C20-41	AB-83	
В	Shaft	TE CO		AK-19	
R6A	3000Ω	1 2	75C20-42	AB-8	
В	Shaft			AK-19	

① Part #75Cl-8l used in chassis 14YP3C.
② Alternate part #75Cl3-71 used in chassis 14YP3B, BK; Part #7
③ Part #75Cl3-78 used in chassis 14YP3C.
④ Alternate part #75C20-43.

RESIST

	ENT DATA	REPLACEM		State of State of	
NOTES	IRC	ADMIRAL		RATING	No.
-	PART No.	PART No.	WATT	OHMS	
	BTS-470	60B8-471	(TE	470Ω	R7
	BTS-330	60B8-331	900	330Ω	R8
	BTS-330	60B8-33l	1000	330Ω	R9
32	BTS-680K	60B8-684	32.0	680K	R10
55 M	BTS-4700	60B8-472	1 62	4700Ω	Rll
571.7	BTS-2200	60B8-222		2200Ω	R12
	BTS-220K	60B8-224	1 3	220K	R13
270	BTS-10K	60B8-103		10K	R14
	BTS-8200 5%	60B7-822		8200Ω 5%	R15
	BTS-10K	60B8-103		10K	R16
	BTS-10K	60B8-103		10K	RI7
	BTS-IMeg	60B8-105		lMeg	R18
	BTS-6800	60B8-682		6800Ω	R19
		60B8-562		5600Ω	R20
		60B7-154		150K 5%	R21
	STATE OF THE STATE OF	60B7-154	1	150K 5%	R22
	BTS-330 5%	60B7-331		330Ω 5%	R23
		60B7-183		18K 5%	R24
		60B8-331		330Ω	R25
100	BTS-68	60B28-44		68Ω	R26
	BTS-330	60B8-331		330Ω	R27
	BTS-100	60B8-101		100Ω	R28
10000	BTS-100	60B8-101	1 2	100Ω	R29
- 3	BTS-2. 7Meg	60B8-275		2. 7Meg	R30
6	BTS-1.3Meg 59	60B7-135		1. 3Meg 5%	R31
	BTS-120K	60B8-124		120K	R32
1 38	BTB-6800	60B20-682	2	6800Ω	R33
	BTS-18K	60B8-183	5884	18K	R34
	BTS-120	60B8-121		120Ω	R35
	BTS-1000	60B8-102		1000Ω	R36
Note 1	BTS-100K	60B8-104		100K	R37
	BTS-560K	60B8-564		560K	R38
	BTS-8200	60B8-822		8200Ω	R39
	BTS-330	60B8-331		330Ω 5%	R40
	BTS-L3Meg 59	60B7-135	183	1.3Meg 5%	R41
6	BTS-L3Meg 59	60B7-135		1.3Meg 5%	R42
	BTB-330	60B20-331	2	330Ω	R43
B. Frank	BTS-15K	60B8-153	188	15K	R44
	BTS-270K	60B8-274		270K	R45

Note 1: Not used in early product Note 2: A 4700Ω (part #60B8-472 Note 3: A 39K (Part #60B8-393) Note 4: A 470K (Part #60B8-474)

TRANSFORMERS (S

No.	USE	ADMIRAL PART No.	Halldorson PART No.	Merit PART N
T2	Horiz. Output Trans. Vert. Output Trans. Yoke(90°)Horiz(19MH) Vert(35MH)	79B70-1 79B71-1 94D117-1 ①		

1 Does not include yoke rear cover and centering device.

*HORIZONTAL OUTPUT TRAN

Use Original Width Coil Unle

ORIGINAL TERMINAL CONNECTIONS	Halldorson Replacement Connections	Merit Replacement Connections	RCA Replacem Connection
3			
2			
1			

TRANSFORMER (A

	Sies			R	EPLACEMEN'	T DA
No.	IMPED	ANCE	ADMIRAL	Halldorson	Merit	St
	PRI.	SEC.	PART No.	PART No.	PART No.	PA
T4	2800Ω	3-4Ω	79D33-13	Z1105①②	A-3025	A-

D DESCRIPTIONS

	?	0	LS	;
--	---	---	----	---

D	ATA			E
T	IRC PART No.	MALLORY PART No.	INSTALLATION NOTES	
-	Q13-132 Not Req. 76-1	U48 Not Req. US-26	Volume	
	Q11-129 Not Reg.	U43 Not Req.	Vertical Hold	
	Q17-108 Not Reg.	U3 Not Reg.	Contrast	
	Q11-128 TQ	PTAI5L Not Reg.	Brightness	
	Q11-239 TO	SU-565 Not Req.	Height	
	Q11-112 TQ	SU-8 Not Req.	Vertical Linearity	

5Cl3-79 used in chassis l4YP3C.

ORS

10000			REPLACEA	MENT DATA		
No.	RATIN		ADMIRAL PART No.	IRC	NOTES	
	OHMS	WATT		PART No.		
R46	2. 7Meg		60B8-275	BTS-2. 7Meg		
R47	47K		60B8-473	BTS-47K		
R48	330K		60B8-334	BTS-330K	1	
R49	15K	1	60B8-153	BTS-15K	THE REAL PROPERTY.	
R50	15K		60B8-153	BTS-15K	1000	
R51	220K		60B8-224	BTS-220K		
R52	15K		60B8-153	BTS-15K		
R53	220K	1.00	60B8-224	BTS-220K	0.5	
R54	2.2Meg	1000	60B8-225	BTS-2, 2Meg		
R55	lMeg		60B8-105	BTS-IMeg	1	
R56	820Ω	130	60B8-821	BTS-820	6.565	
R57	560Ω		60B8-561	1	799	
R58	560Ω		60B8-56l			
R59	56K		60B8-563	BTS-56K	-	
R60	6800Ω		60B8-682			
R61	3300Ω		60B8-332		Note 2	
R62	3300Ω		60B8-332		Note 2	
R63	47K	2	60B20-473		Note 3	
R64	100K 5%		60B7-104			
R65	100K 5%		60B7-104			
R66	4. 7Meg		60B8-475			
R67	470K		60B8-474			
R68	5600Ω		60B8-562			
R69	150K		60B8-154			
R70	100K		60B8-104		2 1 3	
R71	1800Ω		60B8-182			
R72	5600Ω		60B8-562			
R73	330K		60B8-334		Note 4	
R74	11Meg 5%		60B7-116			
R75	100Ω		60B8-101	BTS-100		
R76	100Ω		60B8-101	BTS-100		
R77	10K	10	61B20-3	PW10-10K		
R78	6800Ω	1	60B14-682	BTA-6800		
R79	3.90		60B28-53	BW2-3.9		
R80	2200Ω		60B8-222	BTS-2200		
R81	33Ω	1	60B14-330	BTA-33		
R82	54Ω	20	61B3-27			
R83	10Ω	5	61A-22	PW7-10		
R84	470K		60B8-474	BTS-470		

ion versions.
) used in early production versions.
used in early production versions.
used in early production versions.

WEEP CIRCUITS) REPLACEMENT DATA

٥.	RCA TYPE No.	Ram PART No.		Thordarson PART No.	Triad PART No.
			HO-265*		

ISFORMER CONNECTION DATA

ss Replacement Type Is Listed

ent	Ram Replacement Connections	Stancor Replacement Connections	Thordarson Replacement Connections	Triad Replacement Connections
		3		
		2		
		1		

UDIO OUTPUT)

TA			
ancor RT No.	Thordarson PART No.		NOTES
3332	22S46 ①	S-12X	Drill one new mtg. hole. Do not use taps on primary winding.

SPEAKER

					OI MATICALIA	
				REPLACEMEN	IT DATA	
No.		TYPE		ADMIRAL	QUAM	NOTES
	SIZE	FIELD	V. C. IMP.	PART No.	PART No.	
SPl	3½" 4"	PM PM	3-4Ω	78Bl20-1①② 78Bl22-1 ③	3A07	

1 Alternate part #78Bl20.
2 Used in chassis l4YP3B, BK.
3 Used in chassis l4YP3C.

COILS (RF-IF)

			REPLACEMEN			
No.	USE	ADMIRAL PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	NOTES
Ll	lst Video IF	72C132-17				
L2	2nd Video IF	72C132-8				
L3	Series Peaking Coil	73B5-32 ①	19-3180■	TV-184	6180■	188 Microhenries-Wound on 18K resistor.
L4	Series Peaking Coll	73B5-22 ②	19-3256◆	TV-185♦	6130 ◆	278 Microhenries-Wound or 33K resistor.
L5	Shunt Peaking Coil	73B5-21 ③	19-4400-	TV-190.	6134.	370 Microhenries-Wound or 10K resistor.
L6	4. 5MC Coil	72C132-20				
L7	Sound IF	72C132-19				
L8	Quadrature Coil	72C132-18				

De Quadrante Coli 72C132-18

Parallel with 18K resistor.

Parallel with 38K resistor.

Parallel with 10K resistor.

Alternate part #73B5-8 used in later versions. Wound on 22K resistor.

Alternate part #73B2-9 used in later versions.

Alternate part #73B11-1 used in later versions.

TRANSFORMER (HORIZ, OSC.)

		19000			REPLA	ACEMENT DA	TA	Part State S	
No.	DC PRI.	RES.	ADMIRAL PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	RCA TYPE No.	Thordarson PART No.	NOTES
L9	100Ω	020.	94C17-7	19-1576	TV-163	6210		HS-5	

FILTER CHOKE

		RATINGS			REI	PLACEMENT	DATA		
No.	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 ~)	ADMIRAL PART No.	Halldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
L10	.150A	57Ω	1.4HY	74B18-19	C5040	C-2994	C-2327	26C41	C-21x (1)

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ADMIRAL PART No.	REPLACEMENT DATA	
K1	Vertical Blanking	10000MMF, 10000MMF, 2700Ω 56000Ω	63C6-12	Aerovox Sprague	PA-282 102C12

RECTIFIERS

14	RATING	Balana Far		REPLACEA	AENT DATA				
No.	CURRENT (Measured)	ADMIRAL PART No.	FEDERAL PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	MALLORY PART No.	RADIO RECEPTOR PART No.	SARKES TARZIAN PART No.	
M1 M2 M3	. 150A . 150A	93A4-2 ① 93A4-2 ① 93A5-2 ①	1090A ① 1090A ① 1215 ① ③	1N1005 ② 1N1005 ②	RS300SL ① RS300SL ① 1T1 ① ③	6S200 ① 6S200 ①	6Q4 ① 6Q4 ①	300 ① 300 ①	

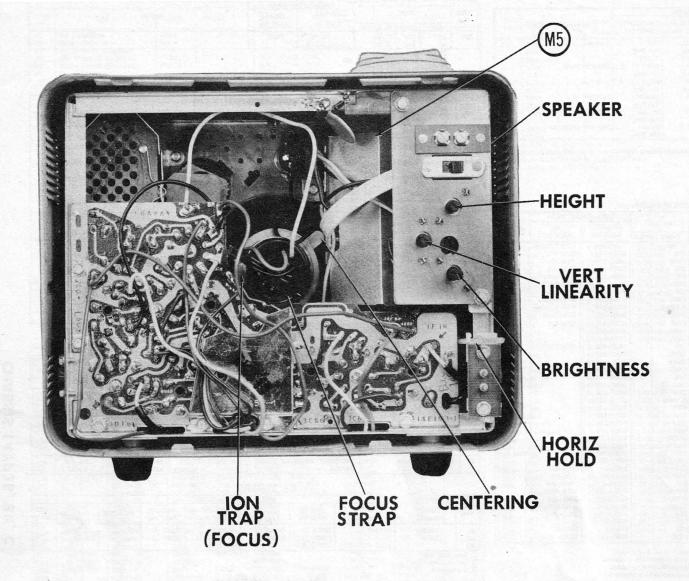
① Selenium type. ② Germanium type. ③ 2 required.

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				
		ADMIRAL PART No.	SYLVANIA PART No.	NOTES		
M4	IN295	Star Hills	1N60	Video Detector		

MISCELLANEOUS

No.	PART NAME	ADMIRAL PART No.	NOTES
M5	Tuner	94E119-1	Used in Chassis 14YP3B.
	Tuner	94D128-1	Used in Chassis 14YP3BK.
	Tuner	94E119-2	Used in Chassis 14YP3C.
46	Video Det. Ass'y.	72C176-3	Includes Coils, Caps. and M4.
47	Switch	77B59-3	Local-Distant, (Slide Type, DDT)
48	Centering Device	94All6-1	
	Ion Trap	94A15-5	Alternate part #94Bl5-5.
	Printed Board	A5290	Video IF, Includes All Components Except Tubes.
	Printed Board	A5291	Sync & Sweep, Includes All Components Except Tubes.
	Handle	37C141-3	Model T1010.
	Handle	37C141-1	Models T141, T142, T143, T1410, T102, T103, T104.
	Handle	37C141-2	Models T144AL, T145AL, T105AL, T106AL, T107AL
	Knob	33D202-31	Channel Selector, Models T1010, T140, T141, T101.
	Knob	33D202-11	Channel Selector, Models Tl011AL, Tl012AL, Tl013AL.
	Knob	33D202-33	Channel Selector, Models T142, T143, T1410, T102, T103, T104.
	Knob	33D202-32	Channel Selector, Models T144AL, T145AL, T105AL, T106AL,
	KIIOD	330202-02	T107AL.
	Knob	33D202-14	Fine Tuning, Models T1010, T140, T141, T101.
	Knob	33D202-15	Fine Tuning, Models T1011AL, T1012AL, T1013AL, T142, T143,
	MILOD	002202-10	T144AL, T145AL, T1410, T102, T103, T104, T105AL, T106AL,
			T107AL.
	Knob	33A175-2	Control (3 used), Models T1010, T140, T141, T101.
	Knob	33A175-4	Control (3 used), Models T1011AL, T1012AL, T1013AL, T144AL,
	Kilob	000-110-1	T145AL, T105AL, T106AL, T107AL.
	Knob	33A175-3	Control (3 used), Models T142, T143, T1410, T102, T103, T104.
	Safety Glass	21D88-1	Model T101.
	Safety Glass	21D88-2	Models T102, T103, T104, T105AL, T106AL, T107AL, T1010,
	Dately Glass		T1011AL, T1012AL, T1013AL.
	Safety Glass	21D90-1	Models T140, T141, T1410.
= 1	Safety Glass	21D90-2	Models T142, T143, T144AL, T145AL.



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

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

It may be necessary to switch off channel and back again for picture to lose sync.

Set the brightness and contrast controls for a normal picture.

Turn the horizontal hold slowly counter clockwise until the picture just falls into sync.

Turn the horizontal hold clockwise until the picture loses sync.

