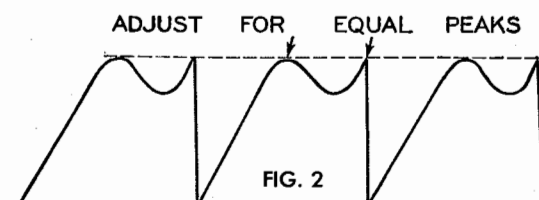


HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV station and set all controls for normal operation. Adjust the Horizontal Hold Control (Horizontal Oscillator Slug) until picture is in sync. Connect vertical input of a scope, using a low capacity probe, to point F, low side to ground. Adjust Horizontal waveform Coil slug B1 until the round and sharp peaks of the waveform are equal in amplitude. (See Fig. 2). Keep the picture in sync during this adjustment.

Adjust Horizontal Linearity slug B2 until picture is linear from left to right across entire screen.

Adjust Width Coil slug B3 until picture is just wider than necessary to fill screen.



DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

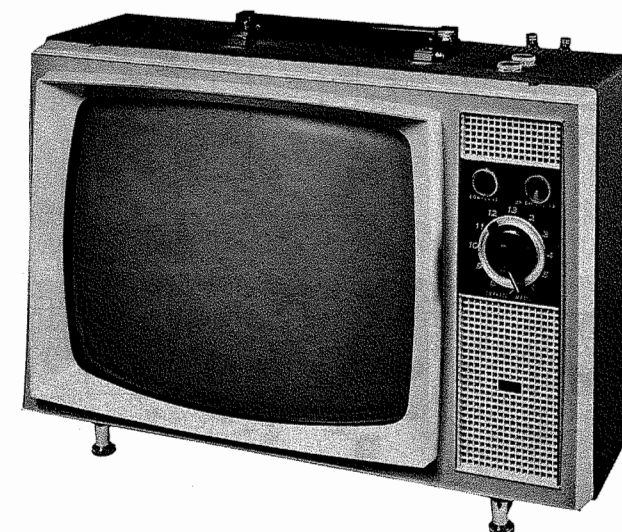
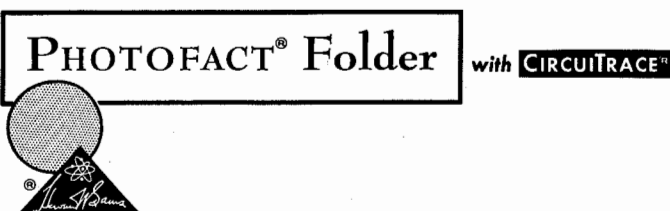
1. Remove all knobs. Remove cabinet back held by 6 screws. Unplug antenna leads and earphone plug.
2. Remove front bezel held by 4 screws. Remove 6 screws from tuner and control assembly. Remove 2 controls at top of frame held by 4 screws.
3. Remove 4 nuts at chassis corners. Unplug speaker leads, picture tube socket, yoke plug, ground lead by speaker socket and high voltage lead. Remove chassis.

PICTURE TUBE REMOVAL

1. Remove front bezel held by 4 screws. Remove cabinet back held by 6 screws.
2. Unplug antenna leads and earphone plug, yoke plug, picture tube socket, and ground lead by speaker socket.
3. Remove yoke. Remove 4 bolts at four corner brackets and remove picture tube assembly. Remove 2 nuts from retainer bolts and remove retainer assembly from picture tube.

SET 701 FOLDER 2

CHANNEL MASTER
MODEL 6570



MODEL 6570

CHANNEL MASTER
MODEL 6570

CAUTION

ONE SIDE OF AC LINE CONNECTED TO CHASSIS

TRADE NAME	Channel Master Model 6570
SUPPLIER	Channel Master Corp., Ellenville, N. Y.
TYPE SET	Television Receiver
TUBES	Sixteen
POWER SUPPLY	110 — 120 Volts AC, 60 Cycles
TUNING RANGE	Channels 2 thru 13 VHF, Video IF 26.75MC, Sound IF 22.25MC (Intercarrier)
RATING	180 Watts, 1.8 Amps@117 Volts AC

SERVICING IN THE FIELD

SAFETY GLASS

Remove 4 screws holding the bezel at the top and bottom edge of the safety glass. Tilt glass out and remove.

FUSE OR FUSE DEVICE

Two 3-amp fuses are used for low voltage power supply protection. (See "Tube Placement Chart" for location.)

VHF OSCILLATOR ADJUSTMENT

Set fine tuning at the center of its range and adjust osc. slug (one for each channel) for best sound and picture.

AGC

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

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The Horizontal Frequency Slug is used for the horizontal hold. (See "Tube Placement Chart" for location.)

WIDTH

The width may be varied by a Width Coil Slug. (See "Tube Placement Chart" for location.)

FOCUS

The focus may be varied by connecting the lead from pin of the picture tube to various voltage points. For location, see Cabinet Rear View.

BUZZ ADJUSTMENT

To eliminate intercarrier buzz, adjust the Ratio Detector secondary (A11) located on top of chassis.

CENTERING

Centering is accomplished by 2 magnetic rings located on yoke rear cover.

PINCUSHION CORRECTION

Reduce the picture size so that the sides of the raster are visible. Position the Horizontal Linearity so that the sides are straight.

CHANNEL MASTER
MODEL 6570

SET 701 FOLDER 2

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



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. MA767

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DATE 6-64 SET 701 FOLDER 2

RESISTANCE MEASUREMENTS

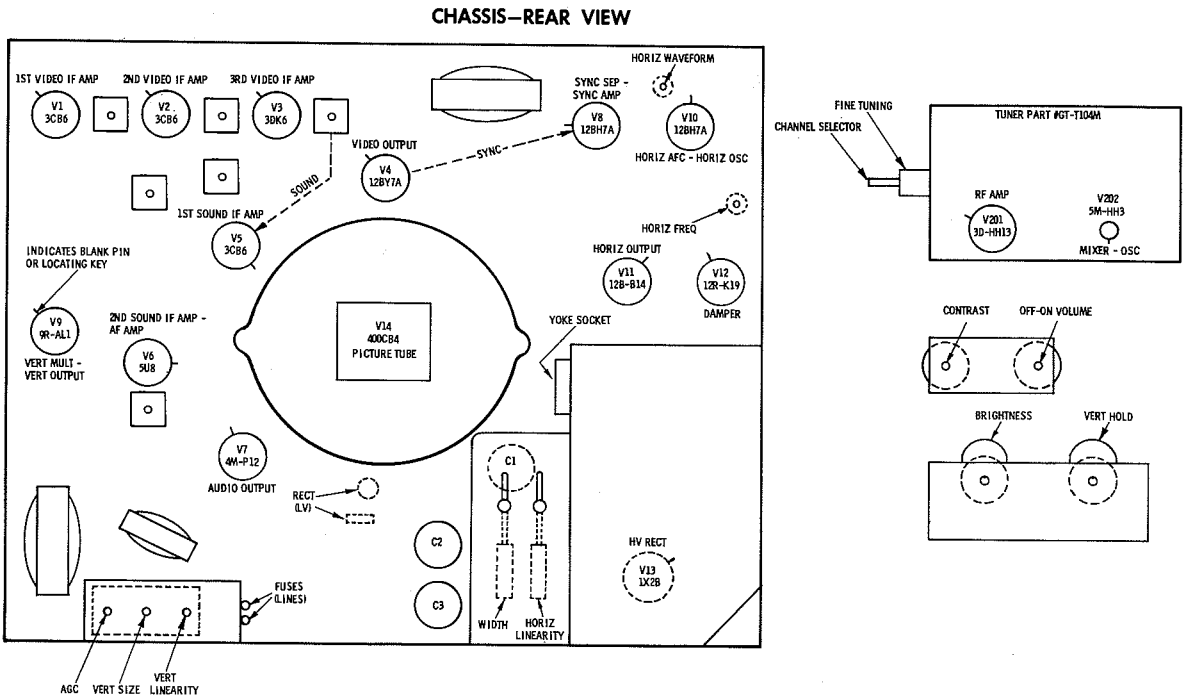
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	3CB6	220K	47Ω	9Ω	10Ω	† 4240Ω	† 4000Ω	0Ω		
V2	3CB6	220K	47Ω	10Ω	11Ω	† 3040Ω	† 5840Ω	0Ω		
V3	3DK6	.4Ω	220Ω	11Ω	12Ω	† 3340Ω	† 3340Ω	0Ω		
V4	12BY7A	100Ω	500K	0Ω	12Ω	12Ω	14Ω	† 6000Ω	† 21K	NC
V5	3CB6	1Ω	150Ω	6Ω	7Ω	† 6450Ω	† 6450Ω	0Ω		
V6	5U8	† 100K	100K	#† 30K	7Ω	8Ω	#† 3500Ω	0Ω	0Ω	4.7meg
V7	4M-P12	100K	220Ω	5Ω	6Ω	† 2900Ω	† 1500Ω	0Ω		
V8	12BH7A	† 802K	2.5meg	0Ω	2Ω	2Ω	† 7500Ω	#† 20K	0Ω	3Ω
V9	9R-AL1	† 4080Ω	NC	1meg	8Ω	9Ω	† 2.2meg	1.4meg	0Ω	1800Ω
V10	12BH7A	#† 42K	1.3meg	280K	2Ω	2Ω	† 40K	330K	0Ω	1Ω
V11	12B-B14	550K	550K	0Ω	14Ω	16Ω	† 3000Ω	† 3000Ω	0Ω	NC
V12	12R-K19	NC	NC	NC	16Ω	18Ω	NC	NC	NC	† 42Ω
V13	1X2B	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								
V14	400CB4	1Ω	22K	† 8000Ω	† 38Ω	NC	NC	210K	0Ω	
V201	3D-HH13	INF	1meg	0Ω	5Ω	4Ω	† 4900Ω	#† 330K	INF	
V202	5M-HH3	† 12.5K	† 175K	4Ω	3Ω	225K	10K	0Ω		
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
† MEASURED FROM OUTPUT OF X2.
‡ MEASURED FROM TOP CAP OF V12.

NC NO CONNECTION

TOP CAP
‡ 7.1Ω
TOP CAP
1meg
TOP CAP
‡ 170Ω

TUBE PLACEMENT CHART



CHANNEL MASTER
MODEL 6570

TUBE FAILURE CHECK CHART

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

POWER SUPPLY FAILURE

No raster, no sound Line Fuses M1, M2, Selenium Rectifiers X1, X2

SWEEP FAILURE

No raster, has sound 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, X1, X2
Vert. off freq. V9
Horiz. off freq. V10

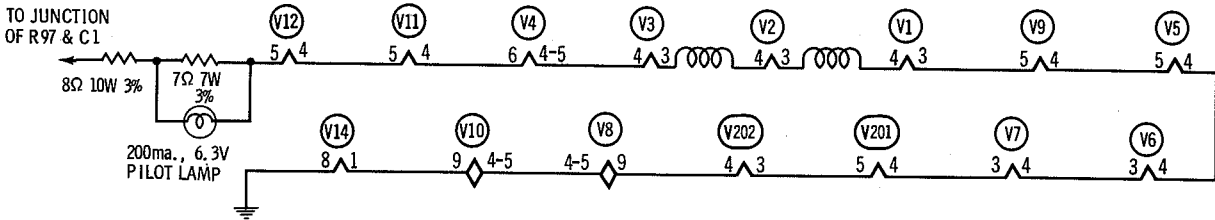
LOSS OF PICTURE OR SOUND

No pic, no sound, has raster V1, V2, V3, Video Det. M5, V4
No pic, no sound, has snow V201, V202, V1
No pic, has sound, has raster V4, V14
Has pic, no sound V5, V6, V7
Overloaded picture

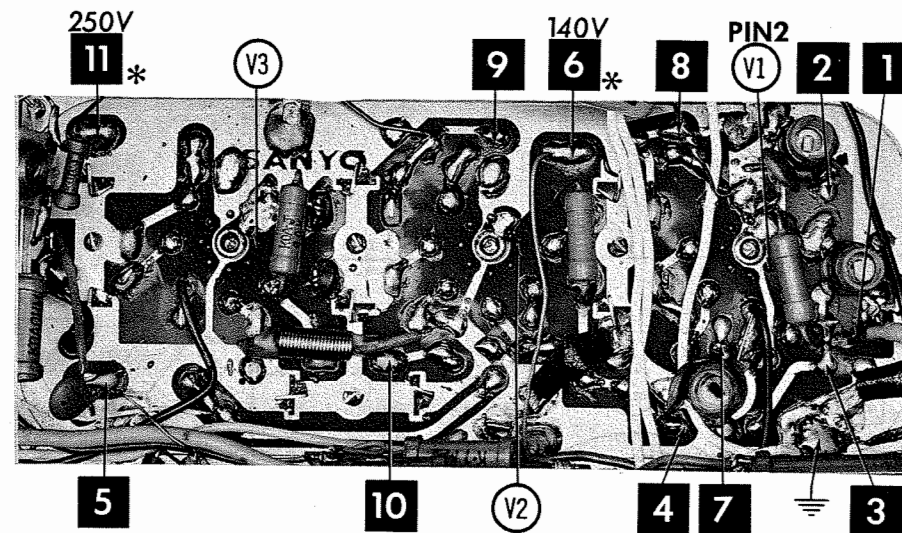
SYNC FAILURE

No vert. sync V8
No horiz. sync V8
No vert. or horiz. sync V8

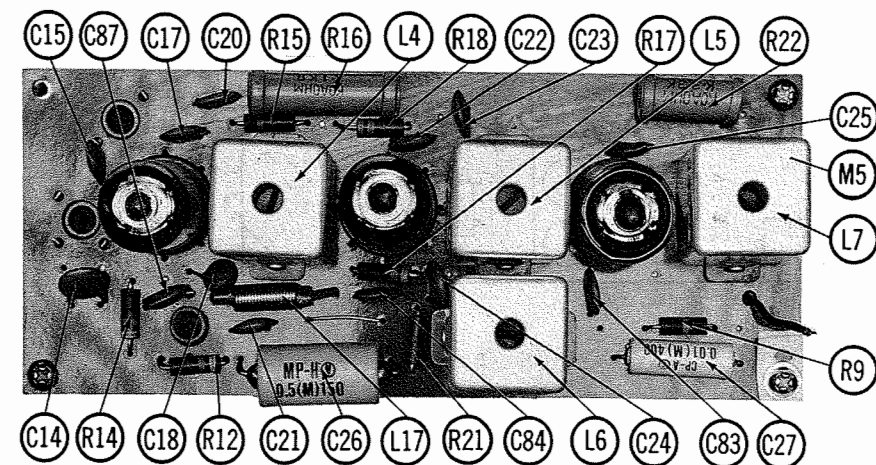
This receiver employs tubes used in a series filament network, an open filament in any tube will cause the set to be inoperative. (See circuit below.)



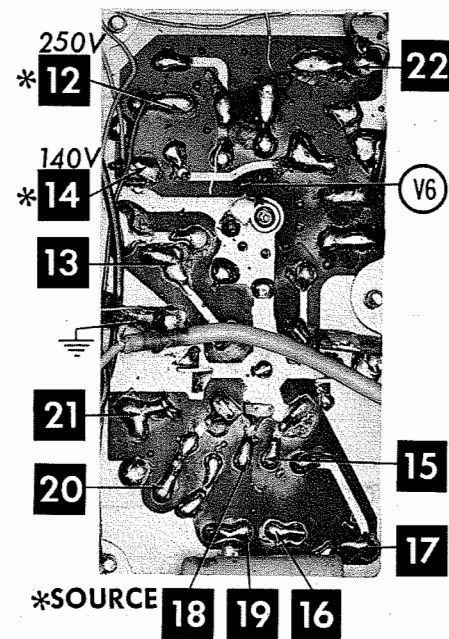
SET 701 FOLDER 2



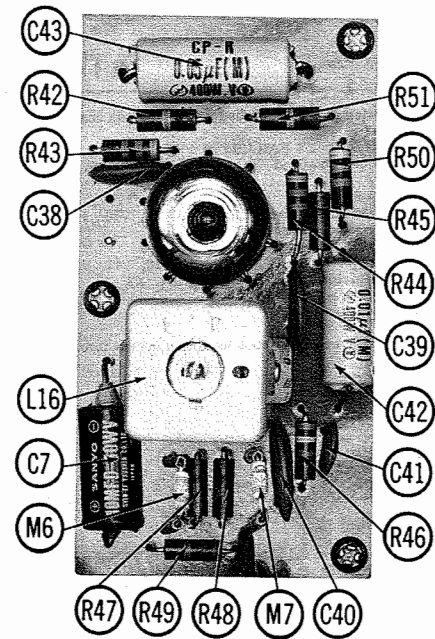
*SOURCE



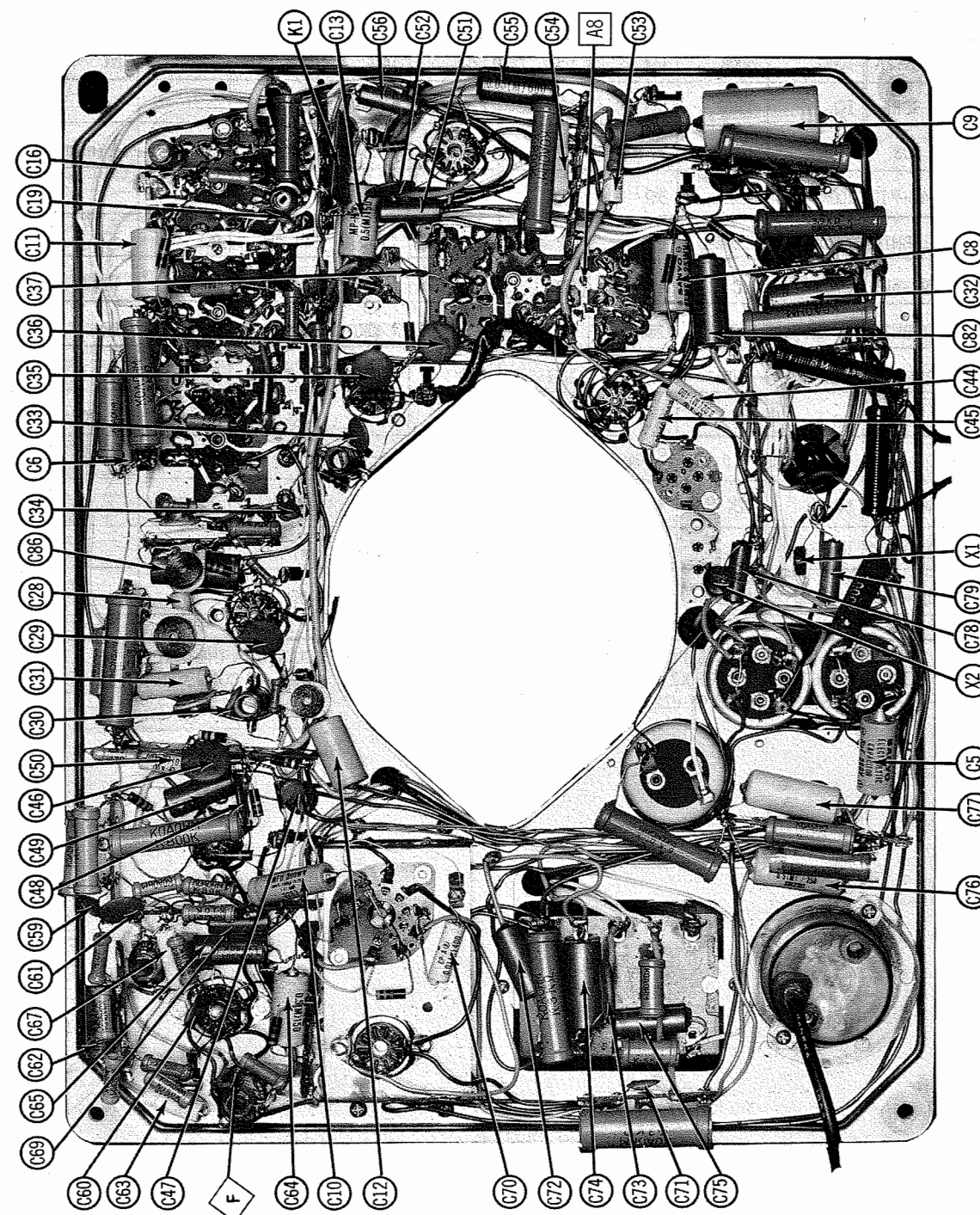
VIDEO PRINTED BOARD



*SOURCE

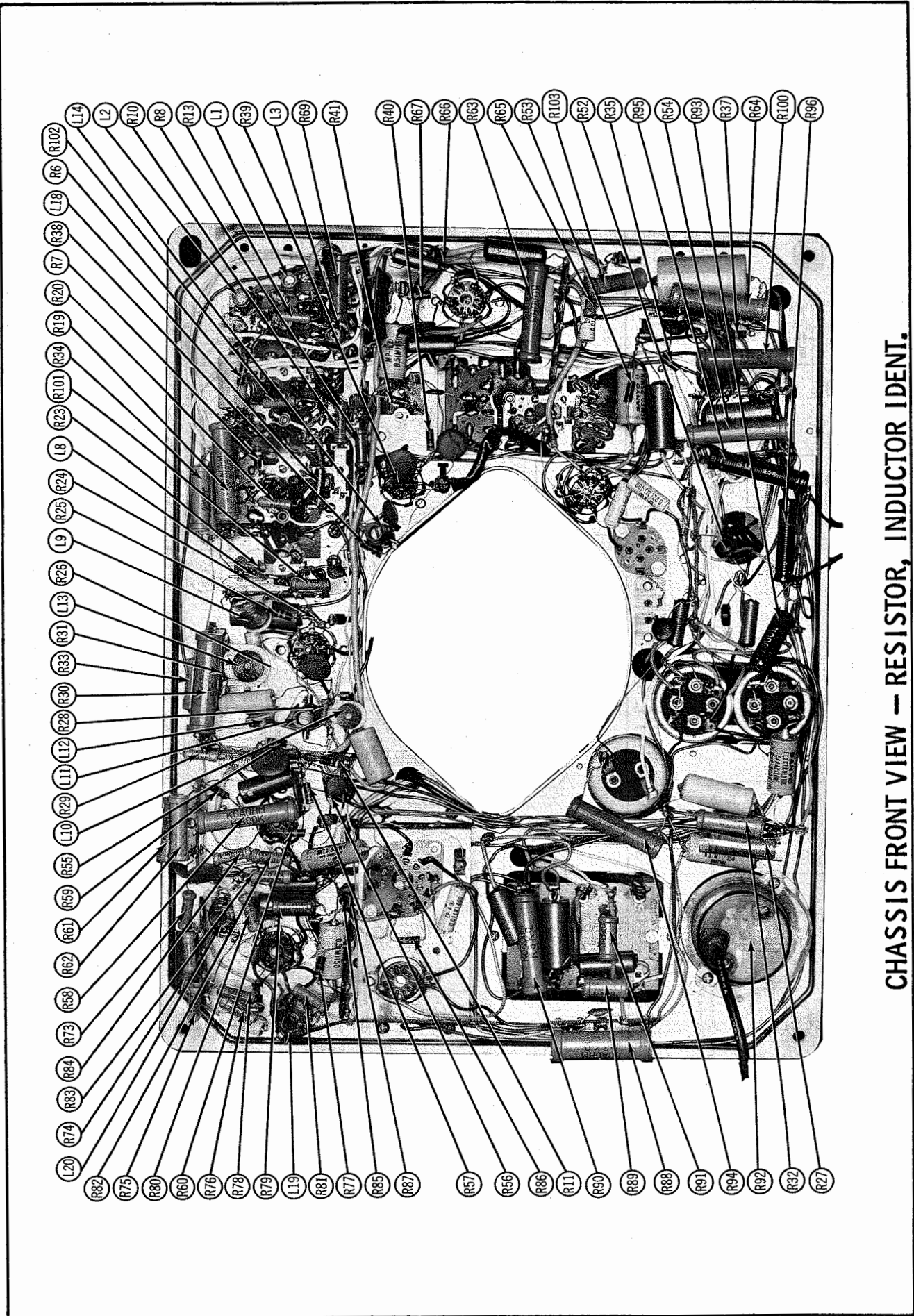


SOUND PRINTED BOARD



CHASSIS — FRONT VIEW, CAPACITOR IDENT.

CHANNEL MASTER
MODEL 6570



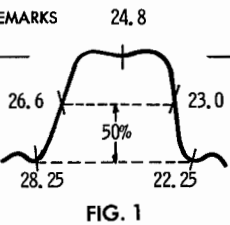
ALIGNMENT INSTRUCTIONS

Use an isolation transformer and maintain voltage at 117 volts. Allow a 20-minute warm-up period for the receiver and test equipment.

VIDEO IF ALIGNMENT

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

INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1. Connect DC probe of a VTVM thru a 47K resistor to point Φ . Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		22.25MC 28.25MC	A1 A2, A3	Adjust for MINIMUM.
2. Connect DC probe of a VTVM thru a 47K resistor to point Φ . Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		23.5MC 27.0MC 23.0MC 25.5MC	A4 A5 A6 A7	Adjust for maximum.
3. Connect vertical input of a scope to point Φ . Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep)	22.25MC 23.0MC 24.8MC 26.8MC 28.25MC	A4, A5, A6, A7 Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 1.

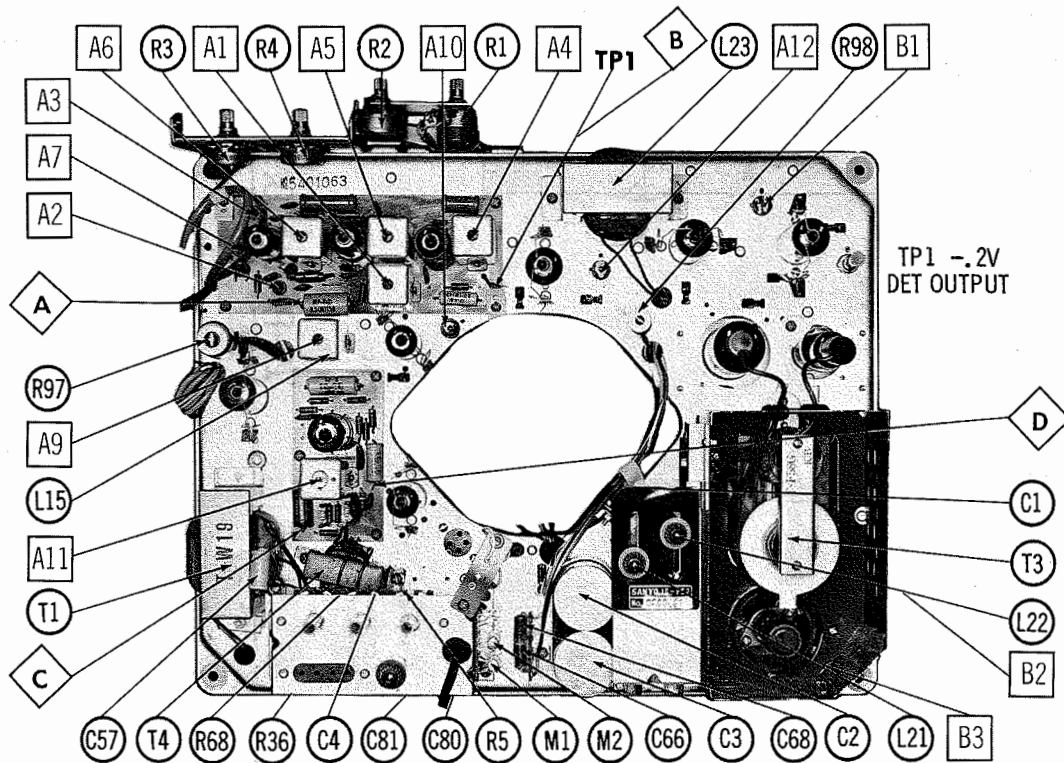


4.5 MC TRAP ALIGNMENT

Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A12 for MINIMUM beat interference.

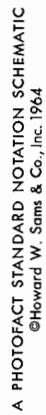
SOUND IF ALIGNMENT

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
4. High side to point Φ , low side to ground.	4.5MC (Unmod.)	Any non-interfering channel.	DC probe to point Φ , common to ground.	A8, A9, A10	Adjust for maximum.
5. "	"	"	DC probe to point Φ , common to point Φ .	A11	Adjust for zero. A positive or negative reading will be obtained on either side of the correct setting.

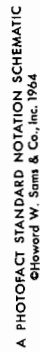


CHASSIS—REAR VIEW

SET 701 FOLDER 2



I3-POSITION TURRET-TYPE VHF TUNER T-T602US



13-POSITION TURRET-TYPE VHF TUNER GT-T04MUS





**CHANNEL MASTER
MODEL 6570**

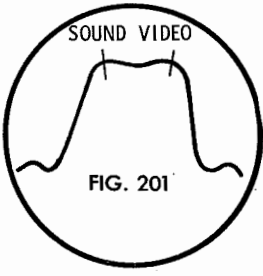
VHF TUNER PARTS LIST AND DESCRIPTION

TUBES					
AMPEREX		GENERAL ELECTRIC		RAYTHEON	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	3D-HH13	V202	Mixer -Osc.	5M-HH3

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	5 +.5mmf		NPO-DI 5	DTZ-4R7	C10V47C	CC TO-4R7		10TCC-V47
C202	5 +.5mmf		NPO-DI 5	DTZ-4R7	C10V47C	CC TO-4R7		10TCC-V47
C203								
C204	10 +.1mmf							
C205	.002							
C206	3 +.5mmf							
C207	.001							
C208	.001							
C209								
C210	.001							
C211								
C212	40 10%							
C213	10 +.5mmf							
C214	.001							
C215	.002							
C216	10 N750 +1mmf							
C217	10 N750 +1mmf							
C218								
C219	.002							
C220	.001							
C221	.001							
C222	.001							
C223	.001							
C224	.001							

VHF TUNER ALIGNMENT INSTRUCTIONS

VHF TUNER ALIGNMENT						
Suggested Alignment Tools: GENERAL CEMENT #8888, 9087, 9089.....WALSCO #2528, 2541, 2587						
OSCILLATOR ALIGNMENT						
The individual oscillator slugs are accessible one at a time through a hole in the front of the tuner. Set the Fine Tuning to the center of its range and adjust oscillator for best picture and sound on each active channel.						
RF MIXER ALIGNMENT						
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect variable bias to RF AGC line at point  . Adjust bias to obtain response curve which shows no indication of overloading.						
SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
Across antenna terminals with 120Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. input to point  , low side to ground.	A201, A202, A203	Adjust for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
	207MC	205.25MC 209.75MC	12			Check response on all channels and make compromise adjustments of A201 and A202 if required.
	201MC	199.25MC 203.75MC	11			
	195MC	193.25MC 197.75MC	10			
	189MC	187.25MC 191.75MC	9			
	183MC	181.25MC 185.75MC	8			
	177MC	175.25MC 179.75MC	7			
	85MC	83.25MC 87.75MC	6			
	79MC	77.25MC 81.75MC	5			
	69MC	67.25MC 71.75MC	4			
	63MC	61.25MC 65.75MC	3			
	57MC	55.25MC 59.75MC	2			



PARTS LIST AND DESCRIPTION

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

TUBES					
AMPEREX		GENERAL ELECTRIC		RAYTHEON	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	1st Video IF Amp.	3CB6	V7	Audio Output	4M-P12
V2	2nd Video IF Amp.	3CB6	V8	Sync Sep. - Sync Amp.	12BH7A
V3	3rd Video IF Amp.	3DK6	V9	Vert. Mult. - Vert. Output	9R-A11
V4	Video Output	12BY7A	V10	Horiz. AFC - Horiz. Osc.	12BH7A
V5	1st Sound IF Amp.	3CB6	V11	Horiz. Output	12B-B14
V6	2nd Sound IF Amp. - AF Amp.	5Ø8	V12	Damper	12R-K19
			V13	HV Rectifier	1X2B

ITEM No.	REPLACEMENT DATA				NOTES
	Channel Master PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V14	400CB4			16AUP4	

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS		
			MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.330A		A300 or D300 ①	1N1764 or 1N2863 or 1N3195	F-4 or 40H
X2	.330A		A300 or D300 ①	1N1764 or 1N2863 or 1N3195	F-4 or 40H

① A single unit for X1 and X2 may be used - VB500.

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	Channel Master PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.
C1	200	150		AFH3-24-25 ①	XA0262 ①	KC1-22 ①	TMS-1290 ①	FP118A ①
C2A	70	300		AFH3-29-50	C0234	KC3-41.2	TMT-3438	FP420.4A
C2B	70	300						
C2C	40	300						
C3A	70	300		AFH3-29-50	C0234	KC3-41.2	TMT-3438	FP420.4A
C3B	70	300						
C3C	40	300						
C4A	25	450		AFH3-139-50	C01036	KC3-27	TMT-3652	FP367A
C4B	25	450						
C4C	100	40						
C5	3	300		PRS1600	BR4-350	QT1-2	TD-4-450	TC697
C6	3	300		PRS1600	BR4-350	QT1-2	TD-4-450	TC697
C7	10	50		CRE757A	NLW10-50	MT1-6	MLV10-50	TT50X10
C8	25	25		CRE612A	NLW25-25	MT1-11	MLV25-25	TT25X25
C9	10	500		PRS1810	BR12-500	QT1-7	TD-10-500	TC81
C10	3	300		PRS1600	BR4-350	QT1-2	TD-4-450	TC697

① Use Insulating Sleeve.

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C11	.5 150V		P288N-5		WMF2P47	2DP-5-104	GEM-205	2TM-P50
C12	.5 150V		P288N-5		WMF2P47	2DP-5-104	GEM-205	2TM-P50
C13	.5 150V		P288N-5		WMF2P47	2DP-5-104	GEM-205	2TM-P50
C14	.005		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C15	1.5 +.25mmf			TCZ-1R5				10TCC-V15
C16	20 N220 10%					*		10TCR-Q20
C17	.002							5HK-D20
C18	2 +.25mmf		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C19	20 N220 10%			TCZ-2R2				10TCR-Q20
C20	.002					*		5HK-D20
C21	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C22	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C23	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C24	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C25	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20

SET 701 FOLDER 2

CHANNEL MASTER
MODEL 6570

FOLDER 2

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNEILL-DUBILIER PART No.	ELMENCOPART No.	MALLOYPART No.	SPRAGUE PART No.	
C28	.5 150V		P288N-5		WMF2P47	2DP-5-104	GEM-205	2TM-P50	
C27	.01 600V		P688N-01	DD-103	WMF6S1	6DP-2-103	GEM-611	6TM-S10	
C26	.01 400V		P488N-01	DD-103	WMF4S1	4DP-1-103	GEM-411	4TM-S10	
C29	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50	
C30	50 N220 10%					*		10TCR-Q60	
C31	.2 150V		P288N-2		WMF2P22	2DP-4-204	GEM-402	2PS-P20	
C32	.1 600V		P688N-1	DF-104	PM6P1	6DP-4-104	GEM-601	6TM-P10	
C33	50 N220 10%					*		10TCR-Q50	
C34	5 ±.5mmf								
C35	.005		NPO-DI 5				GP550		
C36	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50	
C37	.50		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50	
C38	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50	
C39	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50	
C40	300 10%								
C41	.002								
C42	.01 400V		P488N-01	DD-103	WMF4S1	4DP-1-103	GEM-411	4TM-S10	
C43	.05 400V		P488N-05	DD-103	WMF4S1	4DP-1-103	GEM-411	4TM-S10	
C44	.02 400V		P488N-02	DD-203	DPMS4S2	4DP-2-203	GEM-412	4TM-S20	
C45	.005 400V		P488N-005	DD-502	DPMS6D5	6DP-1-502	GEM-425	4TM-D50	
C46	300 10%								
C47	20								
C48	300 10%								
C49	.05 600V		P688N-05	DD-503	DPMS6S5	6DP-3-503	GEM-615	6TM-S50	
C50	.01 400V		P488N-01	DD-103	WMF4S1	4DP-1-103	GEM-411	4TM-S10	
C51	.005 800V		P688N-005	DD-502	DPMS6D5	6DP-1-502	GEM-425	4TM-D50	
C52	300 10%								
C53	.01 400V		P488N-01	DD-103	WMF4S1	4DP-1-103	GEM-411	4TM-S10	
C54	.05 400V		P488N-05	DD-103	WMF4S1	4DP-1-103	GEM-411	4TM-S10	
C55	.05 600V		P688N-05	DD-503	DPMS6S5	6DP-3-503	GEM-615	6TM-D50	
C56	.01 600V		P688N-01	DD-103	WMF6S1	6DP-1-103	GEM-611	6TM-S10	
C57	.02 400V		P488N-02	DD-203	DPMS4S2	4DP-2-203	GEM-412	4TM-S20	
C58	50 3KV 10%								
C59	50								
C60	100 10%								
C61	100 10%								
C62	.05 600V		P488N-05	DD-503	DPMS6S5	6DP-3-503	GEM-615	6TM-S50	
C63	.02 400V		P488N-02	DD-203	DPMS4S2	4DP-2-203	GEM-412	4TM-S20	
C64	.5 150V		P288N-5		WMF2P47	2DP-5-104	GEM-205	2TM-P50	
C65	.05 600V		P688N-05	DD-503	DPMS6S5	6DP-3-503	GEM-615	6TM-S50	
C66	300 500V 10%								
C67	.01 400V		P488N-01	DD-103	WMF4S1	4DP-1-103	GEM-411	4TM-S10	
C68	.001 600V		P688N-001	DD-102	DPMS6D1	6DP-1-102	GEM-621	4TM-D10	
C69	.01 600V		P688N-01	DD-103	WMF6S1	6DP-2-103	GEM-611	6TM-S10	
C70	.01 400V		P488N-01	DD-103	WMF4S1	4DP-1-103	GEM-411	4TM-S10	
C71	100 10%								
C72	.05 600V		P688N-05	DD-503	DPMS6S5	6DP-3-503	GEM-615	6TM-S50	
C73	150 3KV 10%								
C74	.1 600V								
C75	.088 800V		P688N-1	DF-104	PM6P1	6DP-4-104	GEM-601	6TM-P10	
C76	.5 250V		P688N-033	DD-303	DPMS6S3	6DP-3-333	GEM-613	6TM-S33	
C77	.5 250V		P488N-5		WMF4P47	4DP-6-504	GEM-406	4TM-P50	
C78	.01 600V		P688N-01	DD-103	WMF6S1	6DP-2-103	GEM-611	6TM-S10	
C79	.01 600V		P688N-01	DD-103	WMF6S1	6DP-2-103	GEM-611	6TM-S10	
C80	.002 400V		P488N-002	DD-202	DPMS6D2	6DP-1-202	GEM-622	6TM-D20	
C81	.002 400V		P488N-002	DD-202	DPMS6D2	6DP-1-202	GEM-622	6TM-D20	
C82	.1 600V		P688N-1		WMF4W1	6DP-4-104	GEM-601	6TM-P10	
C83	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20	
C84	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20	
C85	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20	
C86	.1 600V		P688N-1	DF-104	PM6P1	6DP-4-104	GEM-601	6TM-P10	
C87	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20	

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
† Alternate Value. ① Not used in some versions.

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA						
			Channel Master PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLOY PART No.		
R1	Volume, Switch	500K		F2-500K①, SU204, KR-1 or (B-60-S①)	A47-500K-2①, KSS-3, SWE-12	Q13-133①, 76-1 or (BU1①, CF25, S88, GC)*	UA55A①, SK750, US-41 or (RU55A, SL36, SL3250, US-41) or (U48①, US-28)		
R2	Contrast	500Ω 2W							
R3	Brightness	100K		F1-100K①, SU204, or (B-40①)	A47-100K-S①, KSS-3	Q11-128①, or (BU1①, CF13, S88)*	UA15L①, SK750, or (RU15L, SL36, SL3250) or (U41①)		
R4	Vert. Hold	1.2meg		F1-1.5meg①, SU204, or (B-742①)	A47-1.5meg-S①, KSS-3	Q11-138①, or (BU1①, CF18, S88)*	UA15L①, SK750 or (RU15L, SL36, SL3250) or (U155①)		
R5A	AGC	5meg		TT-87② or (F1-5meg②, SN010, AK-38)	B47-5meg-S②	B11-141②, TM4 or (BU1①, CF22②, S88)*	PTA56L② or (RU56L②, SL37, SN1000)		
B	Vert. Size	1.5meg		TT-742②, or (F1-1.5meg②, SN010, AK-38)	B47-1.5meg-S②	B11-138②, TM4 or (BU1①, CF18②, S88)*	PTA1254L②, or (RU155L②, SL37, SN1000)		
C	Vert. Linearity	3000Ω		TT-8② or (F1-2500②, SN010, AK-38)	B47-3000-S②	B11-112②, TM4 or (BU1①, CF59②, S88)*	PTA362L② or (RU252L②, SL37, SN1000)		

* "SNAPTROL"
① Enlarge Mounting Hole.
② Special Triple Unit: When Replacing one Control all three must be replaced.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R30	5000Ω 5W	PW5-5000	5G5000		R96	7Ω 7W	MR 1	7W-SQ-7	
R71	14Ω (Cold)				R97	8Ω 25W		25W-SQ-8	
R93	2500Ω 5W	PW5-2500	5G2500		R98	3Ω 10Ω	PW10-3	10Ω-SQ-3	
R95	8Ω 10W	MR 1	10W-SQ-8						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA						NOTES
		Channel Master PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.		
L1	1st Video IF							
L2	28.25MC Trap							
L3	28.25MC Trap							
L4	2nd Video IF							
L5	3rd Video IF							
L6	22.25MC Trap							
L7A	4th Video IF-Det.							
L7B	RF Choke							
L8	Peaking (100uh)		BC-869	6112	RTC-8574	T341		
L9	Peaking (490uh)	①	BC-877	72P474P	RTC-8592	T353		
L10	Peaking (280uh)		BC-874	6155	RTC-8587	T348		
L11	4.5MC Trap		TV-151A	1469 *	RTC-8602*	T249*		
L12	Peaking (400uh)		BC-676	72F394AP	RTC-8579	T351		
L13	Peaking (800uh)		BC-680	6156	RTC-8588	T357		
L14	1st Sound IF		TV-151A	1469A*	RTC-8602*	T249A*		
L15	2nd Sound IF							
L16	Sound Ratio Det.							
L17	Fl. Choke (21 Turns)							
L18	Fl. Choke (21 Turns)							

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							NOTES
		Channel Master PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	Workman PART No.	
L19	Horiz. Osc. (Hold)		TV-159①	6211①	RTC-8623①	HS-7①		T104①	
L20	Horiz. Waveform		TV-166	6314	RTC-8628			T108	
L21	Width								
L22	Linearity								

FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA						NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000-)	Channel Master PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L23	.3ADC	38,5Ω	.95HY		C-4084	C-2347	26C78	C-28X	

* TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		Channel Master PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	Vert. Output		A-2619	VO-103 ①	26S06 ①	A-109X ②	
T2	Yoke (Horiz=19MH)					YT-103-1 ③ ④	
T3	110°(Vert.=60MH) Horiz. Output						

* COMPONENT CONNECTION DATA

ORIGINAL →	HV TRANSFORMER		VERTICAL OUTPUT			YOKE		YOKE PLUG							
	Original Connections		Original Connections			Original Connections		TO YOKE TERMINAL							
REPLACEMENT ↓			P	B	S	Red	Wh	Blu	Yel	Grn					
MERIT			Grn.	Red	Yel.										
STANCOR			Grn.	Red	Yel.										
THORDARSON			Blu	Yel.	Red										
TRIAD			Blu	Red	Grn.										

Note 1 Connect Red & Green Leads together & use as Autoformer.
Note 2 Jumper Yoke Plug Pins #5 & #6.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	Channel Master PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T4	3800Ω	3-4Ω		A-2903	A-3328	22S31	S-41X	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		Channel Master PART No.	QUAM PART No.	
SP1	4" x 6" PM 3-4Ω			

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	Channel Master PART No.	REPLACEMENT DATA
K1	Vertical Integrator	20K, 20K, 40K, 250K, .002mfd, .002mfd, .005mfd		

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			Channel Master PART No.		LITTELFUSE PART No.		BUSS PART No.	
M1		3 Amp. 125V				312003		AGC 3
M2		3 Amp. 125V				312003		AGC 3