

CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

Chassis Removal:	
Remove 14 screws securing rear cover and remove cover. Remove all knobs from the set.	bly. Remove 3 screws securing chassis to cabinet. Chassis and tuner assembly may be removed from the cabinet.
Note: Set may be serviced by removing 1 screw on each side of chassis. Set will fold down for servicing.	Picture-Tube Removal.
Remove Picture-Tube Socket, High Voltage Anode, Speaker Leads, Deflection Yoke and Groundwire.	Following "Chassis Removal" procedure, lay set face down on a soft protective surface.
Remove 4 screws securing Tuner and control assem-	Remove 8 screws securing picture-tube retaining bracket to cabinet front, and remove picture tube from the cabinet. Do not lift the picture-tube by the neck.

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

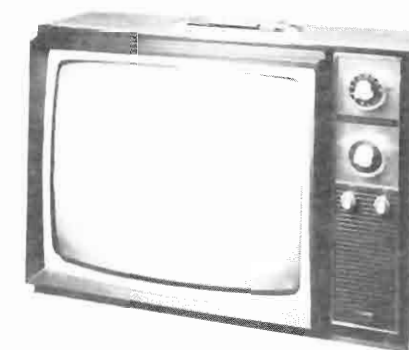
Tune in a TV station and set all controls for normal operation. Connect a Jumper across Horizontal Stabilizer Coil. Connect a jumper from point \diamond to ground. Adjust the Horizontal Hold control until the picture floats slowly across the screen. Remove jumper across Horizontal Stabilizer Coil and adjust B1 until picture floats slowly across the screen. Remove the jumper from point \diamond to ground. Turn channel selector to	all available stations, checking for lock in of Horizontal sync on all stations.
	H.V. Adjustment (Bias)
	Turn Brightness control fully counterclockwise position. Adjust Horizontal Bias control for 20KV on picture tube high voltage anode

PHOTOFACT® Folder

with CIRCUITRACE®

For Supplier Address See PHOTOFACT Index

ELECTROHOME CHASSIS
M10, M10-A, M10-AU, M10-B



Model GEMINI M10-103

MODEL	CHASSIS
Apollo M10-104	M10-B
Bedford M10-101	M10-B
Falcon M10-006	M10-A
Falcon M10-111	M10-B
Gemini M10-001	M10
Gemini M10-103	M10-B
Selkirk M10-002	M10-AU
Selkirk M10-102	M10-B

SAFETY PRECAUTIONS

Make sure line voltage does not exceed rating of set. Check high-voltage regulation and adjust to correct value.	Beware of shock from high voltage or AC line. Discharge high voltage to HV cage only.
Be sure shields and rear cover are in place and secure.	Use extreme care when handling picture tube. Do not bump, scratch, or exert undue strain.
CAUTION: One side of AC line connected to chassis. Use isolation transformer for servicing. Make certain isolation networks are in place and exposed metal is safe to touch before returning set to customer.	

SERVICING IN THE FIELD

CRT - IMPLOSION PROTECTION AND CLEANING

Implosion protection is an integral part of the picture tube, cleaning accomplished without CRT removal.

FUSE/FUSE DEVICE

A circuit breaker is used for AC line protection. (See Cabinet Rear View Photo for location.)

VHF TUNER

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

HORIZONTAL OSCILLATOR

Adjustment of the horizontal hold is accomplished by the proper setting of the Horiz Hold control. (See Cabinet Rear View Photo for location.)

Coarse adjustment of the horizontal hold is accomplished by the proper set-

ting of the Horiz. Stab. Coil. (See Cabinet Rear View Photo for location.)

WIDTH

No provision is made to vary the width on this receiver.

FOCUS

The focus may be varied by connecting the lead from pin 4 to various voltage points. (See Cabinet Rear View Photo for location.)

AGC

The AGC may be varied by means of a control. (See Cabinet Rear View Photo for location.)

CENTERING

Centering is accomplished by proper adjustment of two magnetic rings located on the yoke rear cover.

REMEMBER TO ASK— "What else needs fixing?"

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206



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. 1PA167

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DATE 8 -71

SET 1192 FOLDER 2

ELECTROHOME CHASSIS
M10, M10-A, M10-AU, M10-B

SET 1192 FOLDER 2

ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	TOP CAP
V101	3meg \uparrow	270K	620K \uparrow	9 Ω FIL	11 Ω FIL	150K \uparrow	0 Ω	0 Ω	500K					
V102	16 Ω FIL	680	2.2 Ω	560K	0 Ω	330K \uparrow	39K \uparrow	250K	270 Ω	55K \uparrow	1000 Ω \uparrow	19 Ω FIL		
V203	170 Ω	3meg	170 Ω	3 Ω FIL	4 Ω FIL	0 Ω	10K \uparrow	10K \uparrow	0 Ω					
V204	180 Ω	.5 Ω	180 Ω	4 Ω FIL	5.5 Ω FIL	0 Ω	5700 \uparrow	18K \uparrow	0 Ω					
V205	0 Ω	2.2meg	15K	13.5 Ω FIL	16 Ω FIL	22 Ω	600 Ω *	16K \uparrow	5600 \uparrow					
V206	7 Ω FIL	100K	680K \uparrow	0 Ω	TP	NC	400K	5.5 Ω FIL						
V301	0 Ω	200 Ω	0 Ω	11 Ω FIL	13.5 Ω FIL	TP	575 Ω \uparrow	230 Ω \uparrow	NC					
V401	33K \uparrow	1.5meg	680 Ω	9 Ω FIL	7 Ω FIL	55K \uparrow	100K	680 Ω	0 Ω					
V402	22 Ω FIL	7000 \uparrow	10meg	NC	NC	NC	10 Ω \uparrow	NC	NC	1 Ω	NC	24 Ω FIL		
V403	22 Ω FIL	NC	NC	NC	NC	NC	2.5meg	NC	NC	130 Ω \uparrow	NC	19 Ω FIL		
V404	PINS 1 THRU 8 HAVE INFINITE RESISTANCE													500 Ω \uparrow

ITEM	E	B	C
Q201	600Ω	100Ω	●
Q301	820Ω	5000Ω	8500Ω

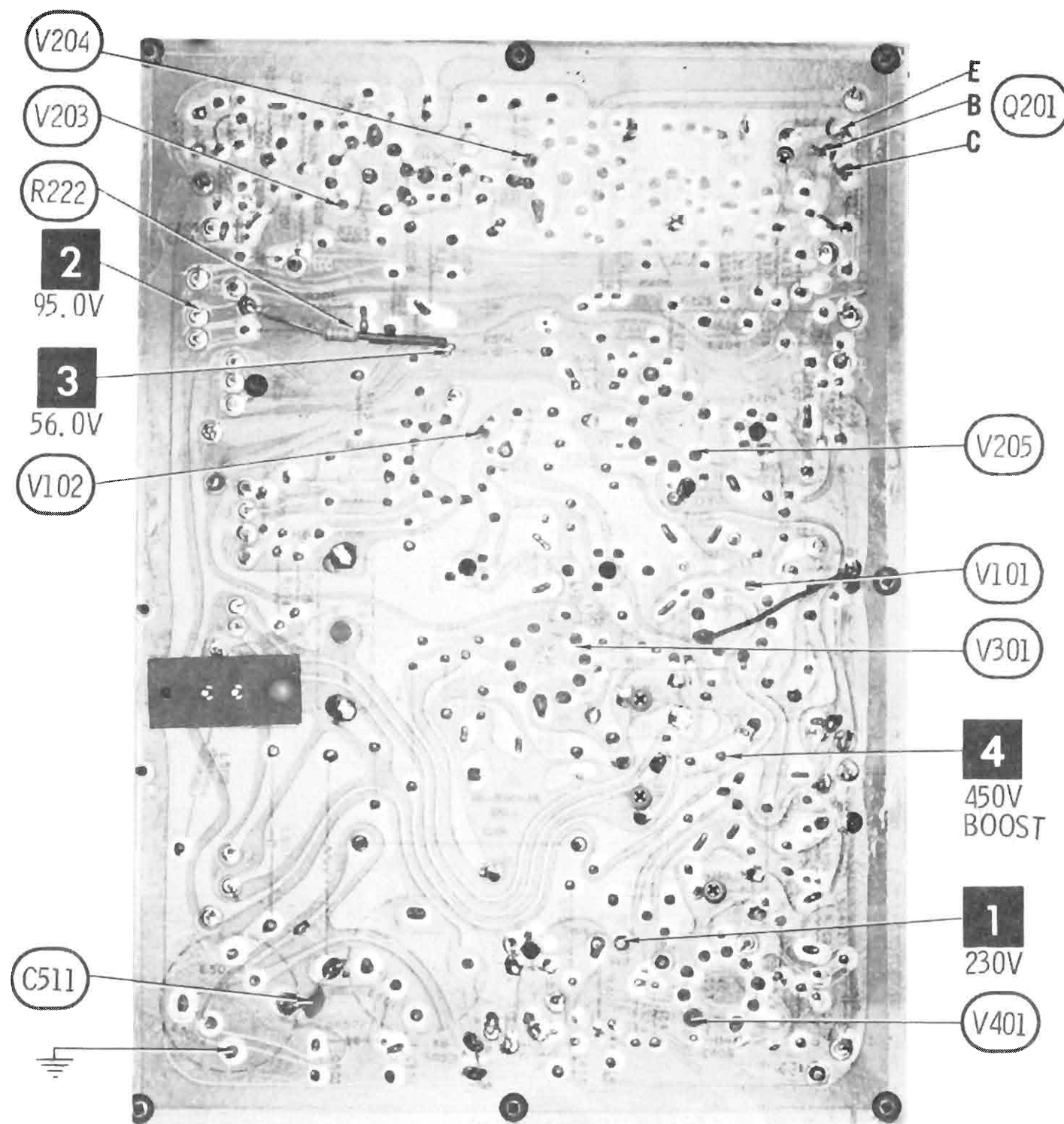
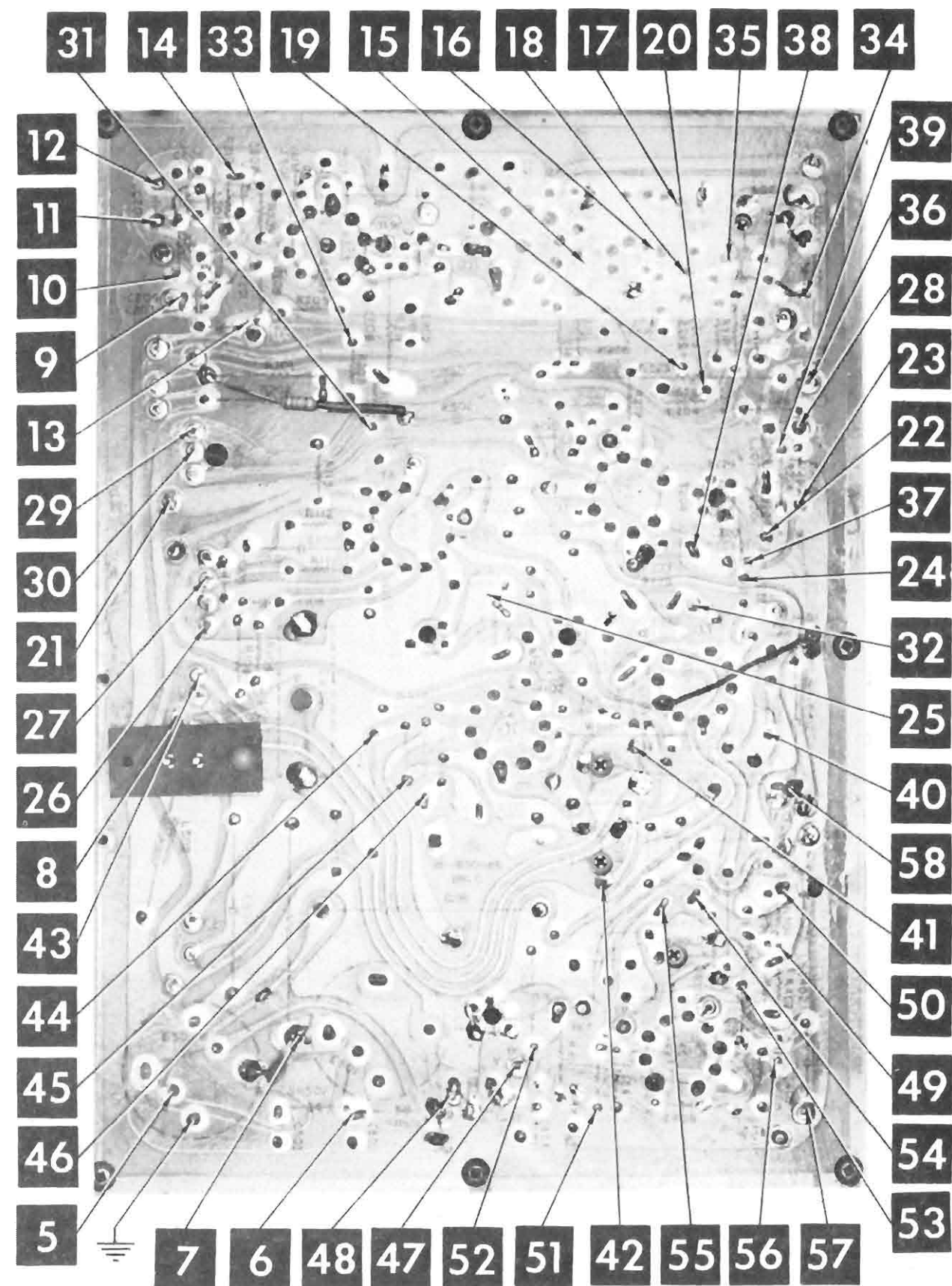
The diagram illustrates the top view of a television receiver chassis, showing the layout of various components and their interconnections. The components are labeled as follows:

- Control Knobs:** VOLUME, VERT HOLD, CONTRAST, and BRIGHTNESS.
- Vacuum Tubes:**
 - V201: RF AMP
 - V202: MIXER-OSC
 - V402: 17GE5 (HORIZ OUTPUT)
 - V403: 17BF8 (DAMPER)
 - V404: 1K3 (HV RECT)
 - V203: 4EJ7 (VIDEO IF)
 - V204: 4EJ7 (VIDEO IF)
 - V102: 12AL1 (AUDIO DET-AUDIO OUTPUT)
 - V103: 6GH8A (VERT MULT-SOUND IF)
 - V301: 100K6 (VERT MULT-VERT OUTPUT)
 - V401: 8CG7 (HORIZ MULT)
- Resistors:** R216 (AGC), R407 (HORIZ HOLD), R412 (HORIZ BIAS), R308 (HEIGHT), R311 (VERT LIN).
- Capacitors:** A1, A3, A4, A5, A6, A7, A8, A9, B1.
- Diodes:** SD201 (PULSE GATE), SD401 (HORIZ PHASE DET), SD402 (HORIZ PHASE DET), SR501 (RECT), SR502 (RECT).
- Other Components:**
 - VIDEO DET: G0201 1N87A
 - VIDEO OUTPUT-SYNC SEP: V205 10KR5
 - CIRCUIT BREAKER
 - T301 (Transformer)
 - E501, E502 (Electrolytic Capacitors)
 - T101 (Transformer)

The diagram also includes a separate view of the control panel, showing the locations of the VOLUME, VERT HOLD, CONTRAST, and BRIGHTNESS knobs. The top view of the chassis shows the internal layout, with components connected by lines representing wiring. The diagram is labeled "TOP VIEW" in the upper right corner.

SWEEP	PICTURE or SOUND	SYNC
No raster, has sound V401,V402,V403,V404,V206	No pic, no sound, no raster C6S01,SR501,SR502	No vert. sync V101
No vert. deflection V101,V301	No pic, no sound, has raster V203,V204,V205,V202	No horiz. syncSD401,SD402,V401
Poor vert. lin. or foldover V101,V301	No pic, no sound, has snow V201,V202	No vert. or horiz. syncV205
Poor horiz. lin. or foldover V402,V403	No pic, has sound, no raster V206	
Narrow picture SR501,SR502,V401,V402,V403		
Vert. off freq. V101	Has pic, no sound V101,V102	
Horiz. off freq.SD401,SD402,V401	Overloaded picture Q201, GD201	

ELECTROHOME CHASSIS
M10, M10-A, M10-AU, M10-B



ELECTROHOME CHASSIS
M10, M10-A, M10-AU, M10-B

FOLDER 2

VHF TUNER PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

TUBES

AMPEREX			GENERAL ELECTRIC			RCA			SYLVANIA		
ITEM No.	USE		TYPE			ITEM No.	USE		TYPE		
V201	RF Amp		3HQ5			V202	Mixer		5GJ7		

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	.001							
C202	12pf 5%			TCZ-12	NP012		CN0412	10TCC-Q12
C203	12pf 5%			TCZ-12	NP012		CN0412	10TCC-Q12
C204	.5-4.5pf							
C205	30pf							
C206	.001							
C207	.75pf							
C208	18pf							
C209	.001							
C210	1.5pf N150							
C211	10pf							
C212	.001							
C213	.001							
C214	.001							
C215	.001							
C216	.001							

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

COILS (RF-IF)

ITEM No.	USE	MFGR. PART No.	NOTES	ITEM No.	USE	MFGR. PART No.	NOTES
	Channel 1 Strip	23-PT257-101	IHF		Channel 8 Strip	23-PT257-108	
	Channel 2 Strip	23-PT257-102			Channel 9 Strip	23-PT257-109	
	Channel 3 Strip	23-PT257-103			Channel 10 Strip	23-PT257-110	
	Channel 4 Strip	23-PT257-104			Channel 11 Strip	23-PT257-111	
	Channel 5 Strip	23-PT257-105			Channel 12 Strip	23-PT257-112	
	Channel 6 Strip	23-PT257-106			Channel 13 Strip	23-PT257-113	
	Channel 7 Strip	23-PT257-107					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
PC201	Component Combination		Antenna Isolation (450pf, 2.5-4meg, spark gap) CRL Replacement DA661Z5U.
PC202	Component Combination		Antenna Isolation (450pf, 2.5-4meg, spark gap) CRL Replacement DA661Z5U.
PC203	Component Combination		Antenna Input (13pf, 13pf, 13pf, 13pf)

UHF TUNER PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q301	2N2616	Oscillator		GE-11	TR-22	HEP56	SK3019	ECG 108

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT DATA				NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.	
X301	1N82AG	1N82A	1N82AG	1N82A	ECG 112	

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C301	27pf							
C302	.5pf							
C303	3pf							
C304	.001							
C305	.001							

TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain voltage at 117VAC. Allow a 20-minute warm-up period for the receiver and test equipment. Suggested Alignment Tools: GENERAL CEMENT
A1 Thru A9.....#8606, 8606L, 8869
Tuner IF Output Coil.....#9296, 9297, 9300

VIDEO IF ALIGNMENT

Set the channel selector to an unused High Channel. Connect a -4.5V bias supply to point A IF AGC line. Connect a jumper across antenna terminals on VHF Tuner. Connect the synchronized sweep voltage from the sweep-marker generator to the horizontal input of the oscilloscope for Horizontal Deflection. Connect Sweep-marker Generator Vertical Output Cable to Oscilloscope Vertical Input. Use only enough generator output to provide a usable indication. Note: Response curve may vary slightly from that shown.

INDICATOR	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
DC probe of VTVM thru 47K to Point B, common to ground.	High side thru .001mfd Cap. to point V on VHF Tuner, low side to ground.		47.25MC	A1	Adjust for MINIMUM.
Vertical input of scope to Point B, low side to ground.	High side thru .001mfd Cap. to point V on VHF Tuner, low side to ground.	44MC (10MC Sweep)	41.25MC 42.17MC 45.75MC 47.25MC	A2, A3, A4, A5 and Tuner IF Output Coil.	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.

SOUND IF ALIGNMENT

Tune in a station and adjust A6 for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce the signal while aligning for undistorted output by adjusting A7 and A8.

4.5MC 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 A9 for MINIMUM beat interference.

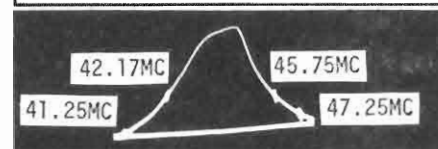
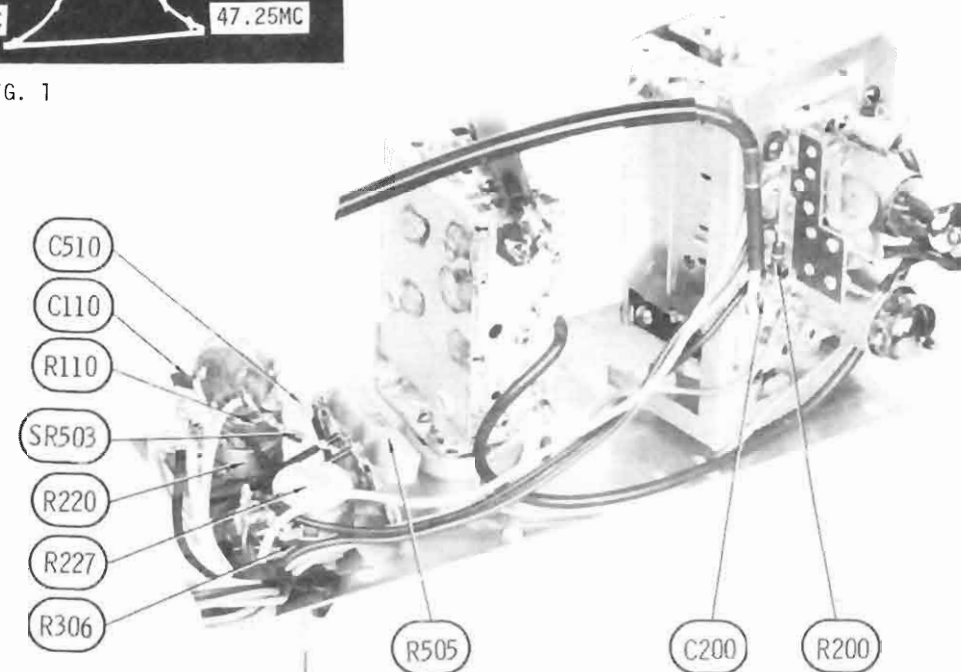


FIG. 1

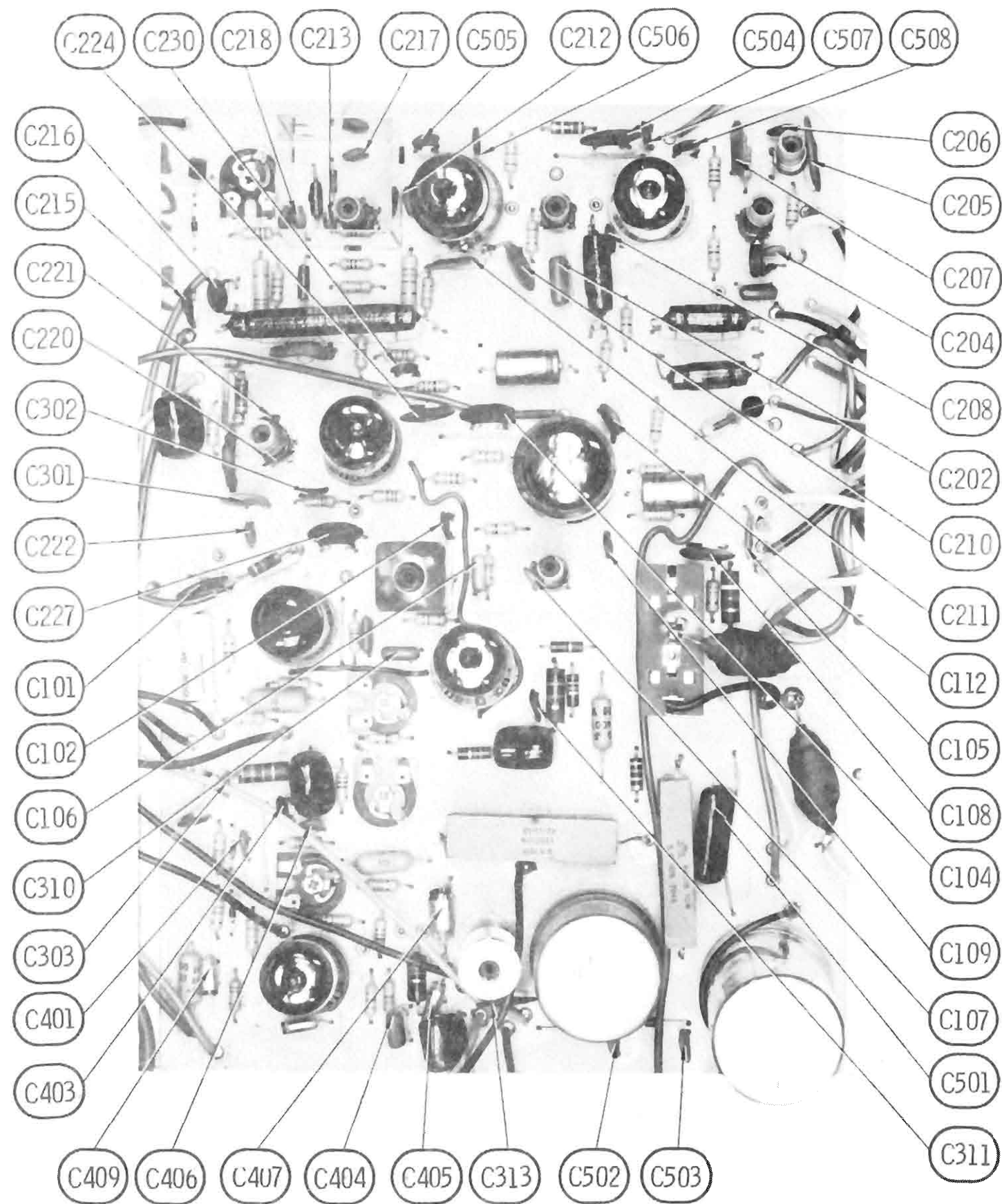


RF TUNER ASSEMBLY

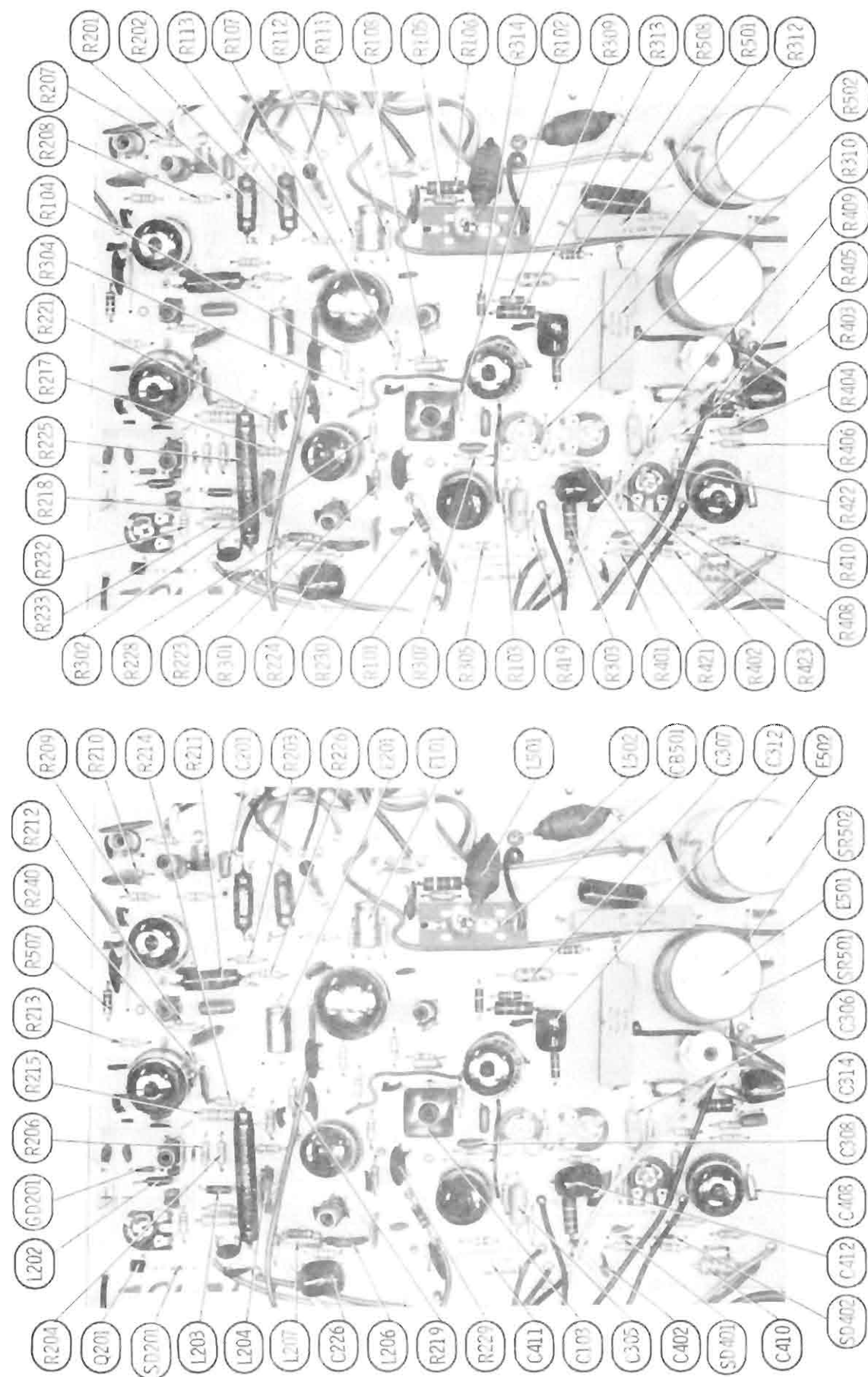
SET 1192 FOLDER 2

ELECTROHOME CHASSIS
M10, M10-A, M10-AU, M10-B

FOLDER 2



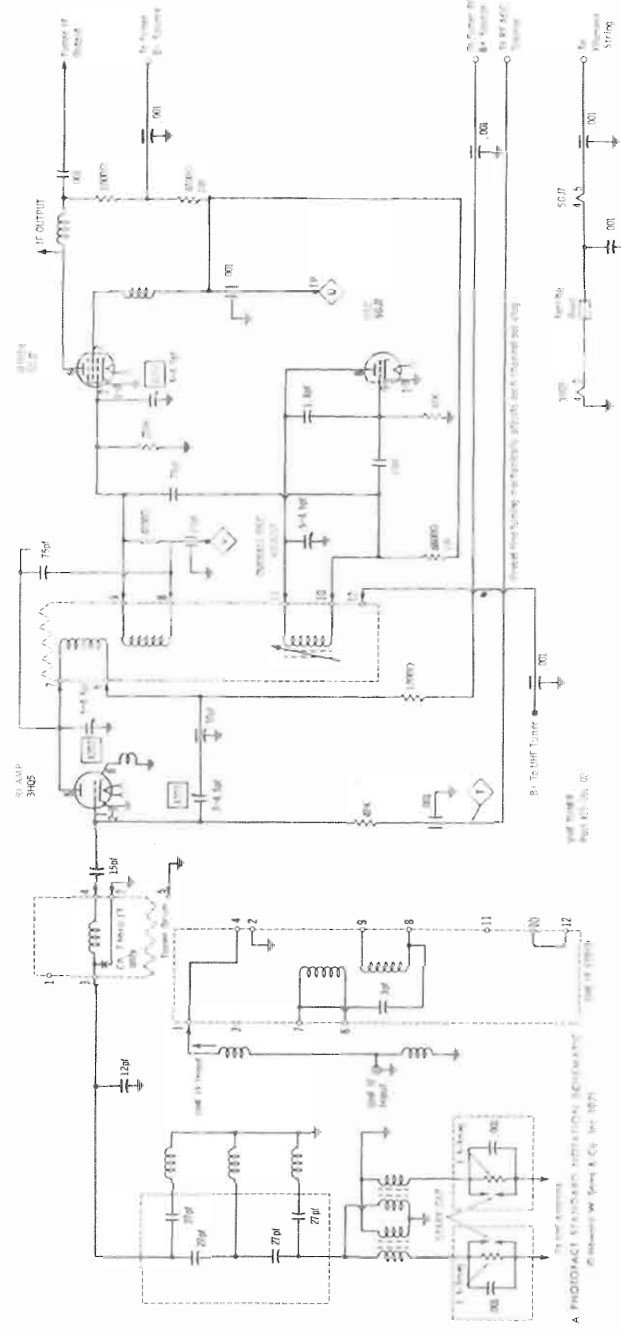
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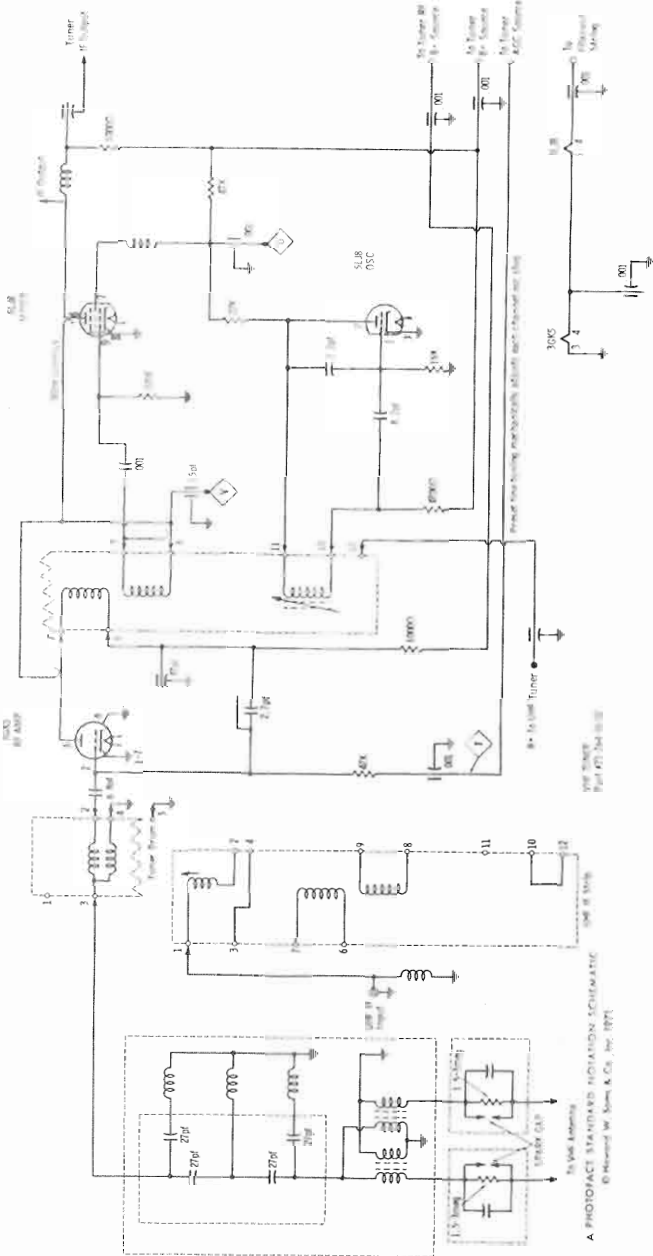
ELECTROHOME CHASSIS
M10, M10-A, M10-AU, M10-B

FOLDER 2

VHF TUNER
23-281-02



VHF TUNER
23-264-01
23-264-02



VHF TUNER ALIGNMENT INSTRUCTIONS



Suggested Alignment Tools: GENERAL CEMENT
A201, A202 and A203, UHF Input Coil #8606L, 8869

OSCILLATOR ADJUSTMENTS

The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound.

RF AND MIXER ADJUSTMENTS

Connect the sweep generator across antenna terminals with 120-ohm carbon resistor in each lead. Refer to chart below for generator frequencies. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the scope for horizontal deflection. Use LOMC sweep unit less otherwise noted. Connect a variable bias to the RF AGC line at point ∇ . Adjust bias to obtain response curve which shows no indication of overloading.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point  low side to ground.	Adjust A201 and A202 for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
10	Across video detector load resistor.	Increase Bias to - 15 Volts and adjust A203 for MINIMUM Amplitude of response.
12 thru 2	Vertical input to Point  low side to ground.	Decrease Bias. Check response on all channels and make compromise adjustment of A201 and A202 if necessary.


GENERATOR FREQUENCY

Numbers in () indicate channel number

SWEEP	MARKER	SWEEP	MARKER	SWEEP	MARKER
(2) 57MC	55.25MC 59.75MC	(6) 85MC	83.25MC 87.75MC	(10) 195MC	193.25MC 197.75MC
(3) 63MC	61.25MC 65.75MC	(7) 177MC	175.25MC 179.75MC	(11) 201MC	199.25MC 203.75MC
(4) 69MC	67.25MC 71.75MC	(8) 183MC	181.25MC 185.75MC	(12) 207MC	205.25MC 209.75MC
(5) 70MC	77.25MC 81.75MC	(9) 189MC	187.25MC 191.75MC	(13) 213MC	211.25MC 215.75MC

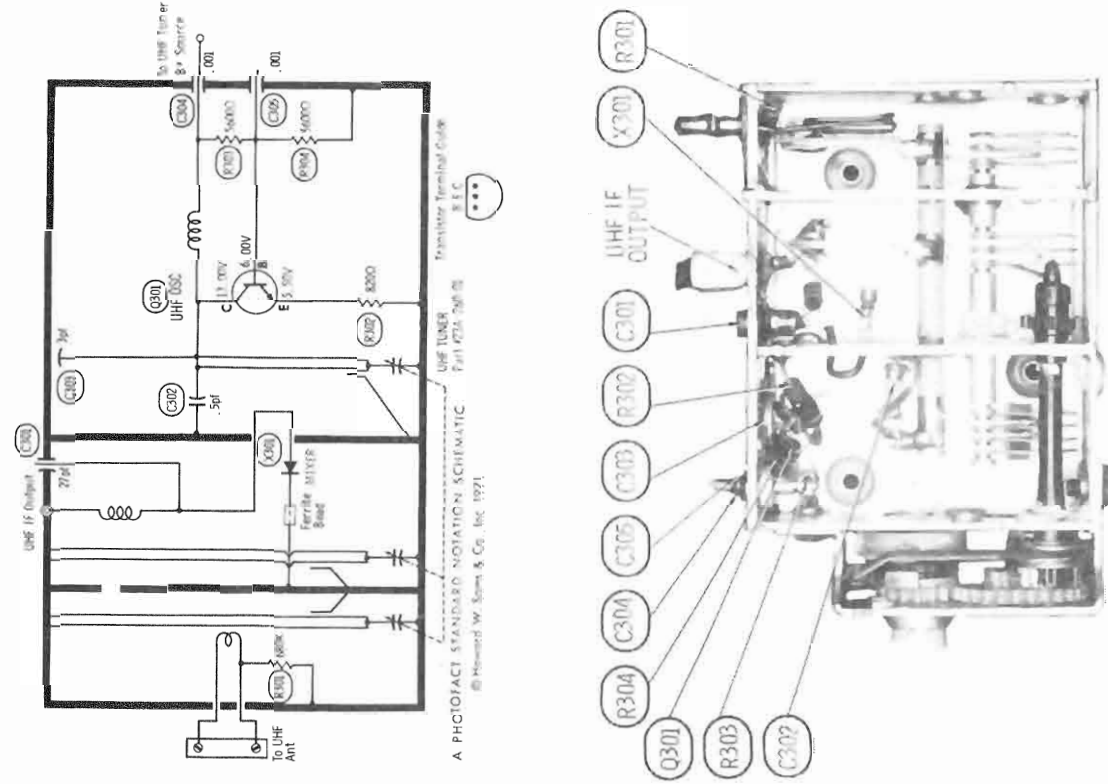
FIG. 201

SOUND VIDEO



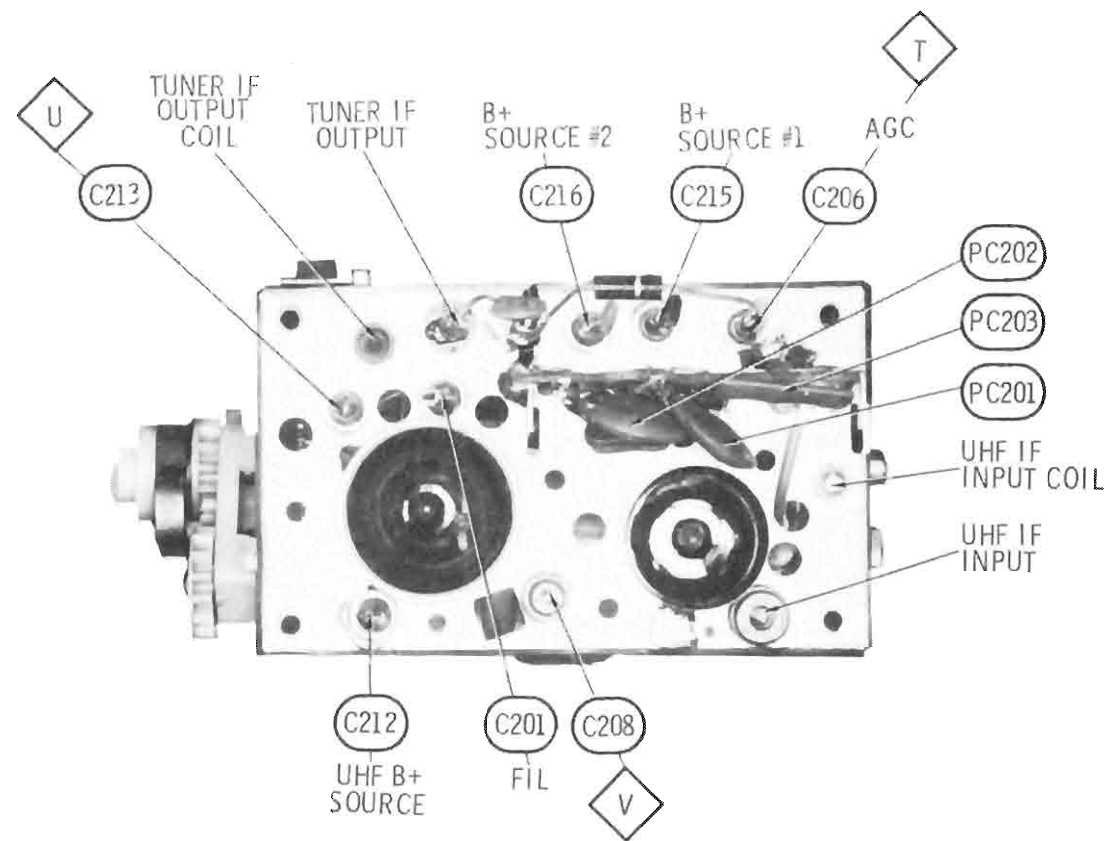
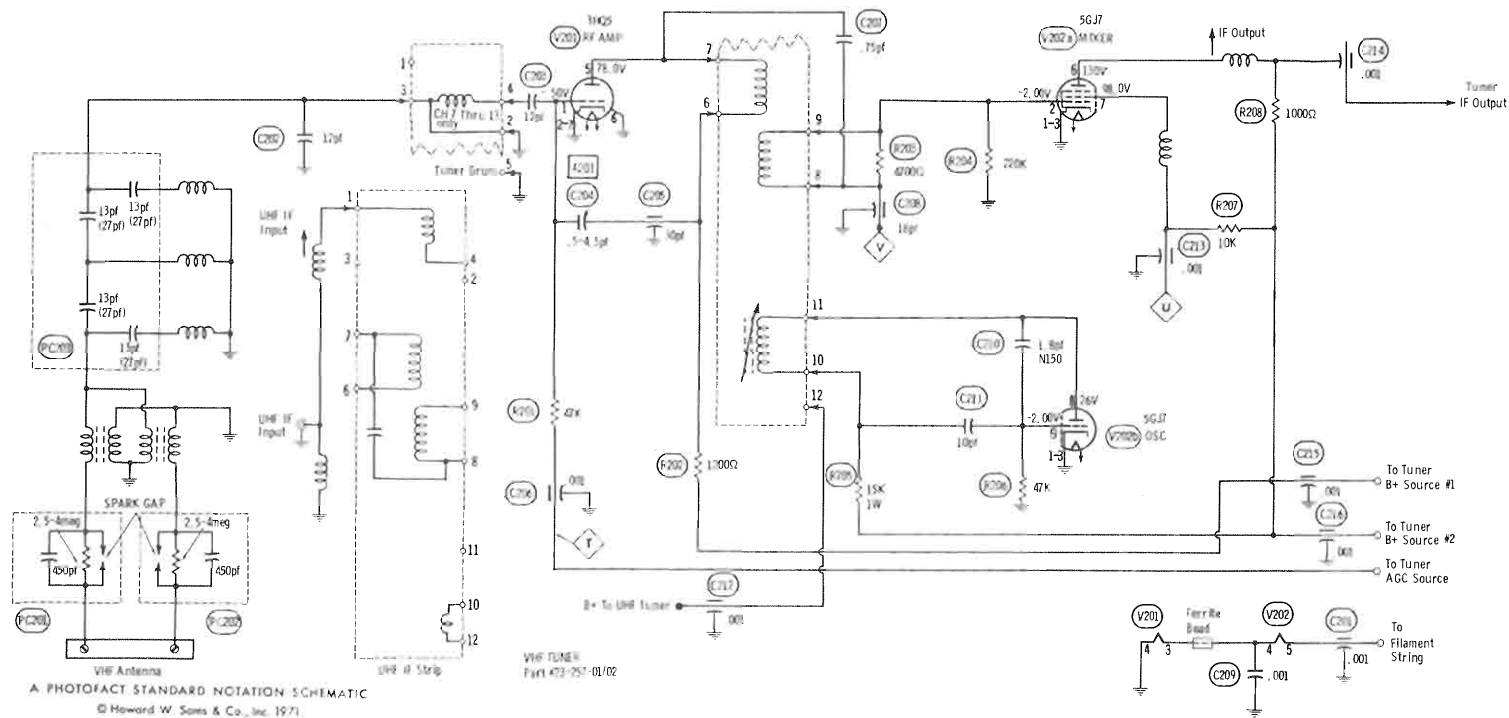
UHF TUNER ALIGNMENT INSTRUCTIONS

Select a UHF station. Adjust UHF IF input coil for best picture and sound.



UHF TUNER

ELECTROHOME CHASSIS
M10, M10-A, M10-AU, M10-B



VHF TUNER ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: GENERAL CEMENT
A201.....#9293

OSCILLATOR ADJUSTMENTS

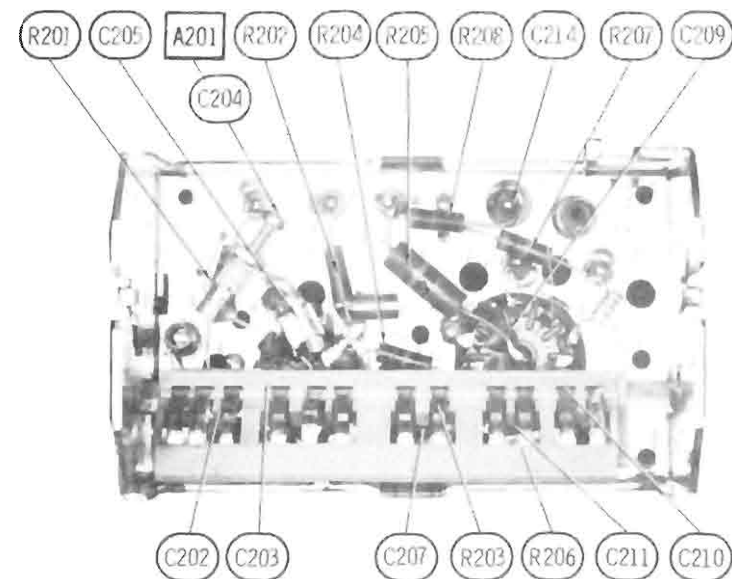
The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound.

RF AND MIXER ADJUSTMENTS

Connect the sweep generator across antenna terminals with 120-ohm carbon resistor in each lead. Refer to chart below for generator frequencies. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the scope for horizontal deflection. Use 10MC Sweep unless otherwise noted. Connect a variable bias to the RF AGC line at point U. Adjust bias to obtain response curve which shows no indication of overloading.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point U, low side to ground.	Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig.201 with markers as shown.
10	Across video detector load resistor.	Increase bias to -15 volts and adjust A201 for MINIMUM amplitude of response.
12 thru 2	Vertical input to Point U, low side to ground.	Check all channels and make compromise.

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



UHF TUNER 23-257-01/-02

ELECTRONOME CHASSIS
M10, M10-A, M10-AU, M10-B

FOLDER 2

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, 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.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T101	7500	3.2	24-80060-03		24563	S-11X	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SPT	4" PM, 4 ohms 6" X 4" PM 6" X 4" PM	19-40020-01 19-70019-01 19-70019-29		Used in Models M10-103/104/006/111/001 Used in Models M10-101/002/102 Used in Models M10-101/002/102

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
CB501	Circuit Breaker Break Current 2.75A	26-65-15				8152-75		FA2-75

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
	VHF Antenna	51-46-01	Used in Models M10-001/-103. 2 Used in Models M10-006, M10-104/ M10-111.
	VHF Tuner	23-257-01/02	
	VHF Tuner	23-264-01/02	
	VHF Tuner	23-281-02	
	UHF Tuner	23A-260-01	
	UHF Tuner	23-262-01	
	UHF Tuner	23-282-01	
	UHF Tuner	23-260-01	
	Socket	34-189-01	High Voltage

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Knobs Vert Hold, Contrast Models M10-001/006/103/104/111 Model M10-002 Models M10-101/102 Brightness, Volume All models except M10-001 Model M10-001 VHF Channel Selector UHF Channel Selector UHF Indicator Models M10-006/103/111 Models M10-101/102/104	53-248-15 53-248-18 53-248-08 53-1040-08 53-971-09 53-1127-02 53-1127-03 53-100252-01 53-100252-03	Knobs Fine Tuning Model M10-001 Model M10-002 Model M10-006 Models M10-101/102/104 Models M10-103/111 Handle Models M10-001/103 Models M10-104/111	53-1145-01 53-1145-07 53-1145-04 53-1145-03 53-1194-02 53-981-02 53-1036-02

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869 (17KV) or 8868 (25KV)
Shielded Hook-up Wire	Use BELDEN No. 8865 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
300-Ohm Tuner Input Lead	Use BELDEN No. 8225
300-Ohm Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

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

TUBES

AMPEREX			GENERAL ELECTRIC		RCA		SYLVANIA
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE		
V101	Sound IF/Vert Mult	6GH8A	V301	Vert Output/Vert Mult	106A6		
V102	Audio Det/Audio Output	12AL11	V401	Horiz. Mult	8CG7/8FC7		
V203	1st Video IF	4EH7	V402	Horiz Output	176E5		
V204	2nd Video IF	4EJ7	V403	Damper	176E3		
V205	Video Output/Sync Sep.	10XB8	V404	HV Rect.	1K3		

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V206	20XP4 20ACP4 21FWP4 23JEP4		20XP4 21FWP4 23JEP4	20XP4 (1) 21FWP4 (1) 23JEP4 (1)	(1) Silver Screen B5 Used in Models M10-104/ D01/103/ Use in Models M10-006/ 111/ M10-002/102/101/

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA				
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	SYLVANIA PART No.
Q201	602-61	AGC Keying	14-602-61 (14-602-49) # (14-602-69) #	GE-20	R-21	HEP54	SK3044

Alternate used in some versions.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT DATA				NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.	
GD201	14-511-01 (1N295A) (14-514-05) (1N87A) #	1N34As	1N34A	1N295A	ECG 109	
SD201	14-514-20				ECG 177	
SD401	14-514-20				ECG 178	
SD402	14-514-20				ECG 179	
SR501	28-22-15	GE-504A	8D6 or 5A6D	SK3017A or SK3032	ECG 116 or ECG 117	(6) Matched pair.
SR502	28-22-15	GE-504A	8D6 or 5A6D	SK3017A or SK3032	ECG 116 or ECG 117	
SR503	28-22-15	GE-504A	8D6 or 5A6D	SK3017A or SK3032	ECG 116 or ECG 117	

Alternate used in some versions.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.
E101	2.5 350V	44-205-66	RS1705		WB2-450	QT1-1	TC595
E201	2.5 350V	44-205-66	RS1705		WB2-450	QT1-1	TC595
E501	150 200V	44-201-21	WH1-25-75		AA0415A (1)	XC1-121 (1)	WP131.5
E502A	140 325V	44-202-23			WB160-350(2)A		
E502	200 325V				WB200-350		

(1) Use printed circuit adaptor kit a 1/4" mounting wafer and sleeve. (2) Use WBR Printed Circuit adaptor kit.

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENTCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C102	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C103	27 NP0			TCZ-27	NP027	CCD-270	CN0427	10TCC-027
C104	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C105	.0047		GPD X5R472K	DD-472G	GP4700	CCD-472	JF247	10TS-D47
C106	.047		DBE2P47		DPMS2P47	ZDP-5-474	PVC2047	2PS-P47
C107	18 N220					*	*	10TCR-Q18
C108	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C109	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C110	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10

ELECTROHOME CHASSIS
M10, M10-A, M10-AU, M10-B

1-OPER 2

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, 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.

CAPACITORS (cont)

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.
C112	.001 1.5KV		HVD-15-1000	D030-102	HV3-1000	3CCD-102	2HV210	30GA-D10
C200	18 NPO			TCZ-18	NPO18	CCT0-180	CN0418	10TCC-018
C201	.1		DEE2P1		DPMS2P1	1DP-2-104	PVC101	22SP10491KD3
C202	.22		DEE6P22		DPMS4P22	4DP-5-224	PVC4022	4PS-P22
C204	11.5 NPO		NPO-D1 10	DTZ-10	NPO10	CCT0-100	CN0410	10TCC-010
C205	150 NPO 5%		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C206	.0022		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C207	.0047		GPD X5R472K	DD-472G	GP4700	CCD-472	JF247	10TS-D47
C208	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C210	.0047		GPD X5R472K	DD-472G	GP4700	CCD-472	JF247	10TS-D47
C211	.0047		GPD X5R472K	DD-472G	GP4700	CCD-472	JF247	10TS-D47
C212	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C213	5 N750			DTN-5	N5	CCTN-050	CN7550	10TCC-V50
C215	470 1KV 10%		GPD X5F471K	DD-471	GP470	CCD-471	GP347	10TS-T47
C216	.0022 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C217	5 NFO		NFO-D1 5.0		NFO5			10TCC-V50
C218	5 NFO		NFO-D1 5.0		NFO5			10TCC-V50
C220	39 NPO			TCZ-39			CN0439	10TCC-039
C221	47 NPO			DTZ-47	NPO47	CCT0-470	CN0447	10TCC-047
C222	5		NFO-D1 5.0		NFO5			10TCC-V50
C224	.01		GPD X5S100K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C226	.1		DEE2P1		DPMS2P1	1DP-2-104	PVC101	22SP10491KD3
C227	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C230	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C301	.0047		GPD X5R472K	DD-472G	GP4700	CCD-472	JF247	10TS-D47
C302	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C303	.68			DTZ-68			CN0468	10TCC-068
C305	.0022		DEE6D22		DPMS-6D22	6DP-1-222	PVC6222	6PS-D22
C306	.001		DEE6D1	DD-102	DPMS6D1	6DP-1-102	PVC621	6PS-D10
C307	.0033		DEE6D33		DPMS6D33	6DP-1-332	PVC6233	6PS-D33
C308	.022		V1612S22		DPMS6S22	1DP-1-223	PVC1122	22SP22391KD3
C310	.1		DEE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C311	.0022		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C312	.1		DEE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C313	.02 1KV		GPD Z5U203P	DD-203		CCD-203	GP120	10TS-S20
C314	.1		DEE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C401	.68			DTZ-68			CN0468	10TCC-068
C402	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C403	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C404	.1		DEE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C405	.0022		GPD X5F331K	CPR-2200J	CD19F222J500	DM-19-222J	SX222	424ME2201J500
C406	.330			DD-331	GP330	CCD-331	GP333	10TS-T33
C407	.0047			CPR-4700J	CD19F472J500	DM-19-472	SX247	MS-247
C408	.330			CPR-330J	CD15F331J500	DM-15-331	SX333	MS-333
C409	.470			CPR-470J	CD15F471J500	DM-15-471	SX347	MS-347
C410	.0047		DEE6D47		DMS6D47	6DP-1-472	PVC6247	6PS-D47
C411	.02 5%		GPD Z5U203P	DD-203		CCD-203	GP120	10TS-S20
C412	.1		NPO-D1 1.0	TCZ-1			CN0510	10TCC-V10
C413	95 3KV N1500 1%		HVD-30100	D030-101	HV3-100	3CCD-101	6HV310	30GA-T10
C414	.1		DEE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C415	95 3KV		HVD-30100	D030-101	HV3-100	3CCD-101	6HV310	30GA-T10
C416	82 6HV 5%		HVD-6082	D060-820	HV6-82	6CCD-820	60GA-Q82	4PS-S47
C501	.047		DEE6S47		DPMS6S47	4DP-3-473	PVC4147	4PS-S47
C502	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C503	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C504	.01 1.5KV	#46-120014-036					2HV110	30GA-S10
C505	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C506	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C507	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C508	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C510	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C511	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10

* Not normally in distributor's stock. Available thru distributor on order to manufacturer. # Electrohome Part Number

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R110	Volume/Switch, Rear	500K	41-221-96(3)			QJ-2724 #	
R220	Contrast, Front	200	41-192-22	TSV-1K (1) or T-1000 (1)		X201R102B (1)	MTC13L1 (1)
R216	AGE	1000	41-221-95(4)	F1-1meg, R11-500K, FFS108, RFS200	NP-1meg-S, NR-500K-S, UPC-B-108, UR-D-200	QJ-2720 *	P16L, 303B, RUS1L, 0X1500, IS2000
R227	Brightness, Rear	500K					
R306	Vert Hold, Front	1meg					
R308	Height	4.7meg	41-192-34				
R311	Vert. Linearity	470K	41-192-35				
R407	Horiz. Hold	47K	41-192-27				
R412	Horiz. Bias	2.2meg	41-192-12				
	Tone (S)	1meg					

"CONCENTRIKIT" Equivalent: K-16 (2) Kit with Base Elements and Shafts: B11-201, P22-115 (Panel) B13-133, R24-204 (Rear).

"SNAPTROL" Equivalent: BUS, CF2, CR20, SF11, SR103, K (2).

* "CONCENTRIKIT" Equivalent: K-6Kit with Base Elements and Shafts: B11-137, P22-115 (Panel) B11-133, R1-130 (Rear).

"SNAPTROL" Equivalent: BUS, CF17, CR11, SF11, SR12, DC1.

(1) For horizontal mounting, bend the two outside terminals to fit "PC" board. Use jumper wire to connect center terminal to "PC" board.

(2) Switch must be CTS Type 080. (4) Includes R227 and R306.

(3) Includes R110 and R220. (5) May be used in some versions.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

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RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R201	8200 4W	5W-SQ-2K	42-E-07	R416	1 1/2W 5%	MS-1.0	42-37-10
R202	5600 4W	5W-SQ 5.6K		R418	6800 3W	5W-SQ-6.8K	42-8-13
R211	10K 4W	5W-10 10K	42-E-07 (1)	R425	Thermistor (6 Cold)	FRE-8	
R225	5600 10W	10W-SQ 5.6K	42-E-26	R501	5 10W	10W-SQ5	42-41-48
R413	VDR #		42-23-01	R502	133 15W		42-21-13
				R505	60 10W	10W-SQ60	42-41-56

(1) Alternate used in some versions.
Voltage Dependent Resistor

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L101	1st Sound IF	21-1074-01			
L102	Quadrature	21-1073-01			
L201	47.25MC Trap	21-1077-01			
L202	RF Choke (16uh)	21-1406-05	1e-2018	72F155AP	T662
L203	RF Choke (16uh)	21-1406-05	1e-2018	72F155AP	T662
L204	Feeking (200uh)	21-1065-06	1e-4201	6154	T312
L206	Feeking (200uh)	21-1065-06	1e-4201	6154	T312
L207	Feeking (550uh)	21-1065-07	1e-2029	6144	T321
L402	RF Choke (10uh)		1e-1005	72F105AP	T660
L403	RF Choke (10uh)		1e-1005	72F105AP	T660
L404	RF Choke (10uh)		1e-1005	72F105AP	T660
L501	Line Choke (95uh)	21-1406-01		5250	
L502	Line Choke (95uh)	21-1406-01		5250	
T201	1st Video IF	21-1074-01			
T202	2nd Video IF	21-1075-01			
T203	3rd Video IF/Detector	21-1076-01			
T204	Sound Take Off/4.5MC Trap	21-1072-01			

COILS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA					
		MFGR. PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.	WORKMAN PART No.
L401	Horiz. Stabilizer	21-1071-01					

TRANSFORMERS (Sweep Circuits)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T301	Vertical Output	24-100013-03 (24-100013-14)	VO-115 (3)	26507 (3)	A-140X (3)	
T401	Horiz. Output	21-225-01 (21-225-02)				
L405	Yoke (Horiz=20H) 114" (Vert=95H)	21-107-03	DY-B2AT(1)(3)	Y-105(1)(3)	YT-103-1(1)(2)(3)	(1) Use original damping network. (2) Remove orange lead. (3) Component connection data information.

SWEEP COMPONENT CONNECTION DATA

REPLACEMENT	ORIGINAL →				VERTICAL OUTPUT				YOKE				YOKE PLUG			
	Original Connections				Original Connections				Original Connections				Original Connections			
	BLUE	RED	YELLOW		2	1	3	10	6	4						
STANCOR	GREEN	RED	YELLOW		2	1	3	7	6	4						
THORDARSON	GREEN	RED	YELLOW		2	1	3	7	6	4						
TRIAD	BLUE	RED	YELLOW		2	1	3	7	6	4						

ELECTROHOME CLASSIS
M10, M10-A, M10-JU, M10-B

FOLDER 2