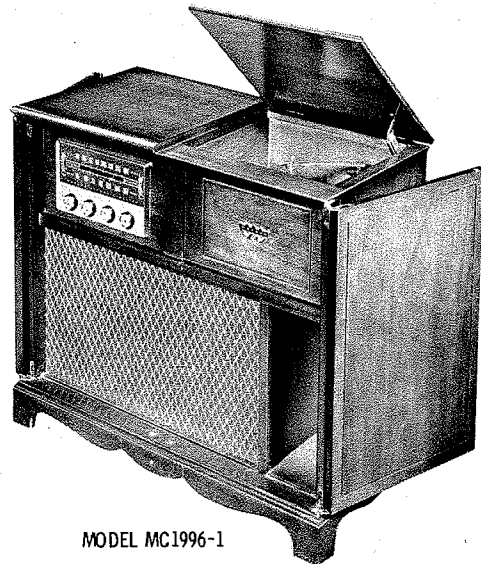


WEBCOR MODELS 1959-1, 1965-1, 1968-1, 1969-1, 1992-1,
1996-1, 1997-1, 1998-1, 1999-1 (Ch. 14X285-1, -2, 286-1,
288-1, 290-1, 297-1, 298-1, 299-1, 73X015-1, 016-1)

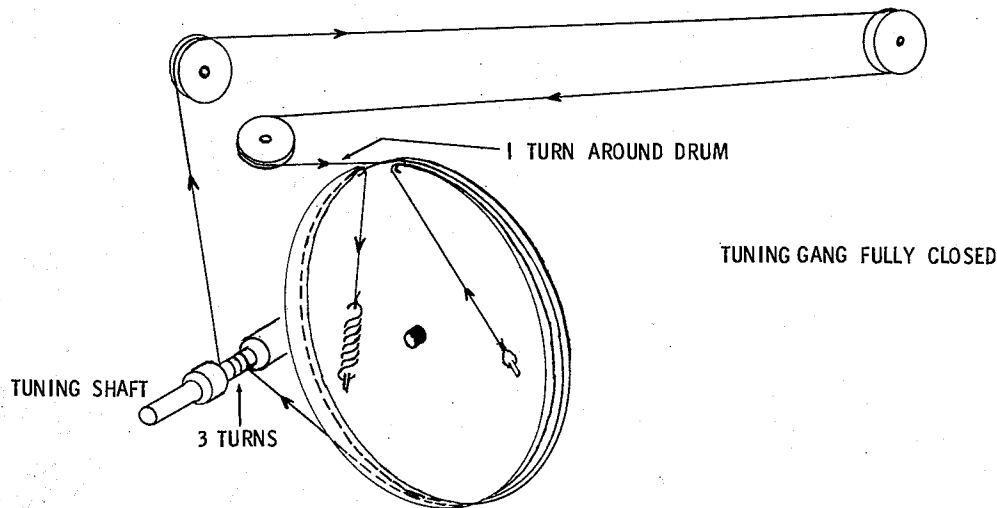


MODEL MC1996-1

TRADE NAME	Webcor Models BC-1959-1, EC-1959-1, MC-1959-1, WC-1959-1 (Preamp. 14X285-1, Amp. 14X288-1), BC-1965-1, CC-1965-1, MC-1965-1 (Preamp. 14X298-1, Amp. 14X297-1), BC-1968-1, WC-1968-1, MC-1969-1, PC-1969-1 (Preamp. 14X285-1, Amp. 14X286-1), BC-1992-1, WC-1992-1 (Preamp. 14X285-2, Amp. 14X299-1, Tuner 73X016-1) EC-1996-1, MC-1996-1, PC-1997-1, WC-1997-1, BC-1998-1, EC-1998-1, MC-1998-1, WC-1998-1 (Preamp. 14X285-2, Amp. 14X290-1, Tuner 73X015-1), MC-1999-1, PC-1999-1 (Preamp. 14X285-2, Amp. 14X299-1, Tuner 73X016-1)		
MANUFACTURER	Webcor, Inc., 5610 W. Bloomingdale Ave., Chicago 39, Illinois		
TYPE SET	AC Operated 7 Tube FM-AM Tuner, 6 Tube Preamp. - Amplifier With 4 Speed Automatic Record Changer (1959, 1965, 1968, 1969 Series Do Not Have Tuner)		
POWER SUPPLY	105-120 Volts AC, 60 Cycles	RATING	100 Watts, .99 Amp. @ 117 Volts AC (Less Phono)
TUNING RANGE	BROADCAST 535 - 1620KC	FREQ. MOD.	88 - 108MC

FOR SERVICE INFORMATION ON RECORD CHANGER - SEE WEBCOR 172 - PHOTOFACT SET 147 FOLDER 13

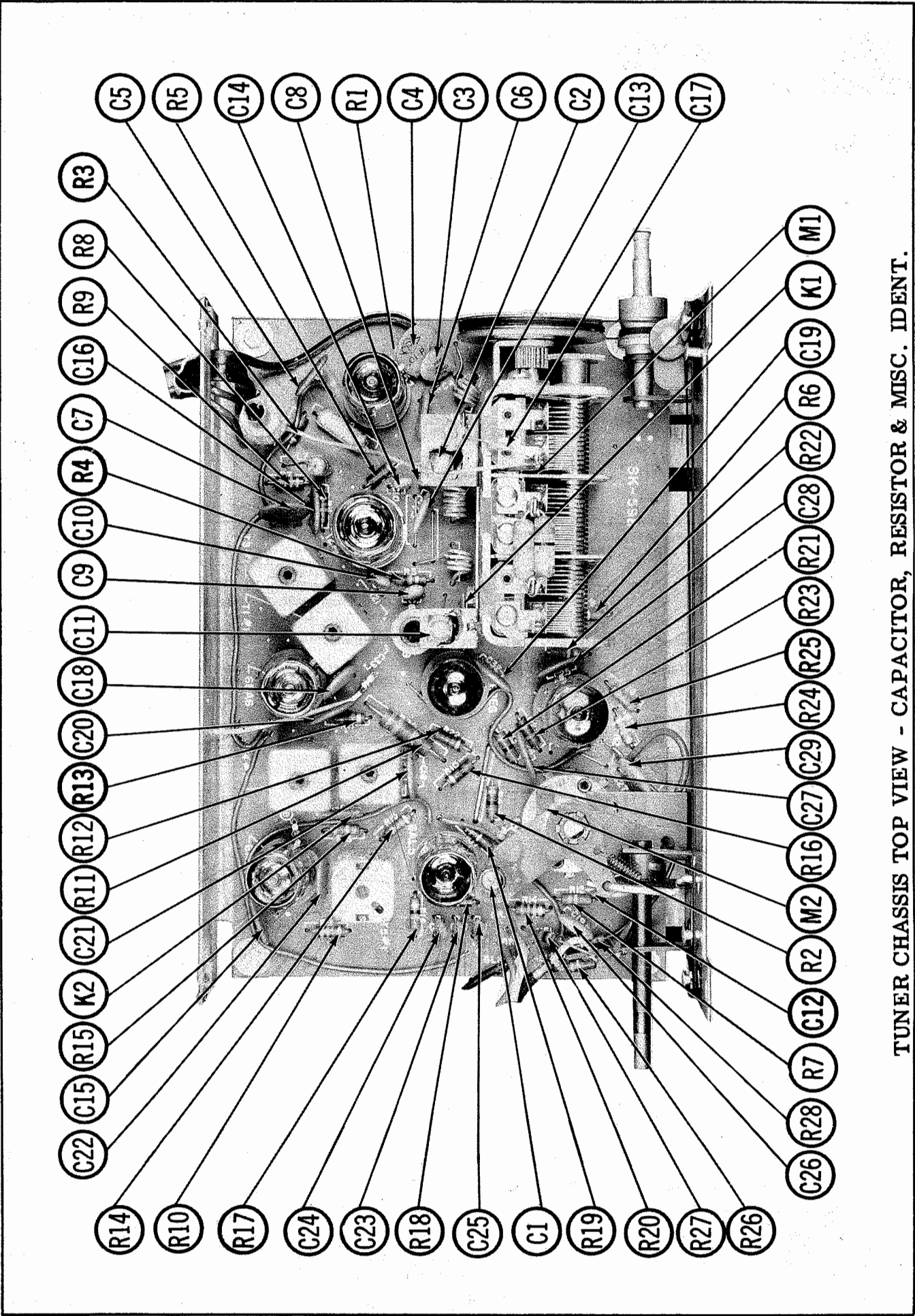
DIAL CORD STRINGING



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 JN340

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1960 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America



TUNER CHASSIS TOP VIEW - CAPACITOR, RESISTOR & MISC. IDENT.

AMP PARTS LIST AND DESCRIPTIONS (Continued)

CABINETS & CABINET PARTS (cont)

ITEM No.	USE	DESCRIPTION	WEBCOR PART No.	REPLACEMENT DATA
K3	Tone Compensation	5000mmf, 500mmf, 120K, 120K, 120K	62P033	
K4	Loudness Tone Comp.	150mmf, 200mmf, 2200mmf, 5000mmf, 47K, 120K	62P019	

PHONO CARTRIDGE

ITEM No.	WEBCOR PART No.	REPLACEMENT DATA			
		ASTATIC CARTRIDGE	ELECTRO-VOICE CARTRIDGE	JENSEN CARTRIDGE	SONOTONE CARTRIDGE
M3	21P588	* 13-TB Not Req.	† 66 Not Req.	* 8T-S	N-8TA-S

* Includes mounting mechanism. † Use PT-3 mounting mechanism.

PHONO NEEDLE

(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)

ITEM No.	WEBCOR PART No.	REPLACEMENT DATA		REMARKS
		CLEVITE PART No.	JENSEN PART No.	
M4	† 21S817-S or ‡ 21S817-SD	† 568X or ‡ 568XSD or † 568XSD	† W-103TSS or ‡ W-103TSD	† Jewel ♦ Diamond

MISCELLANEOUS

ITEM No.	PART NAME	WEBCOR PART No.	NOTES
M5	Switch Switch Printed Board	32P137 32P138 62P027-1	Selector, Chassis 14X290-1 and 14X299-1 Selector, Chassis 14X286-1, 14X288-1 and 14X297-1

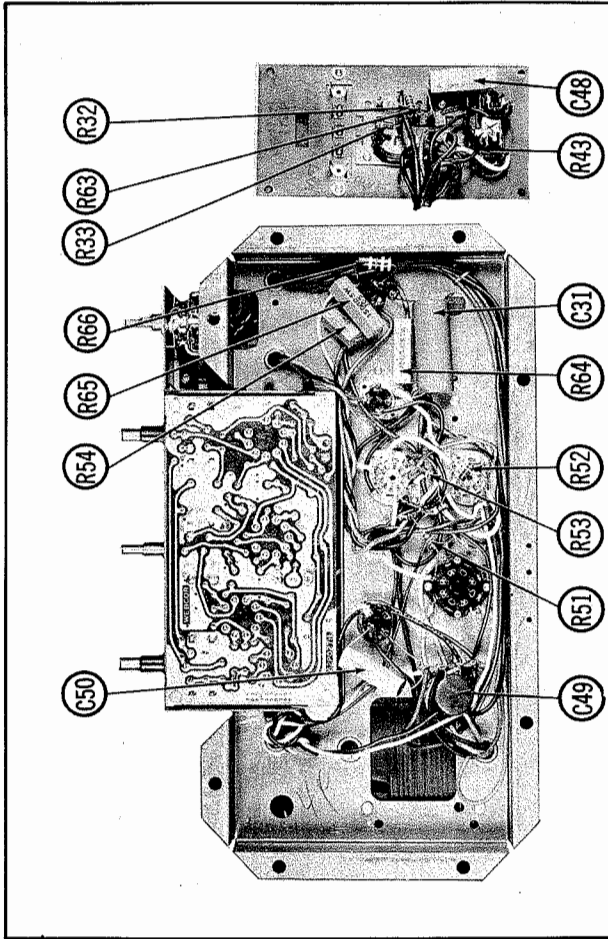
(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	49X237-C	Tuning, Model 1992 & 1999
Knob	49P332-2	Tuning, Model EC-1996-1, MC-1996-1, PC-1997-1, WC-1997-1, BC-1998-1, EC-1998-1, MC-1998-1, PC-1997-1, WC-1997-1, BC-1998-1, Selector, Model EC-1998-1, MC-1998-1, WC-1997-1, BC-1998-1, EC-1998-1, MC-1998-1, WC-1997-1, BC-1998-1
Knob	49P332-1	Selector, Model EC-1998-1, MC-1998-1, WC-1997-1, BC-1998-1
Knob	49X237-2C	Selector, Model 1992 & 1999
Dial Pointer	45P2451	Model EC-1996-1, MC-1997-1, WC-1997-1, BC-1998-1, PC-1997-1
Dial Window	77P012	Model EC-1996-1, MC-1997-1, WC-1997-1, BC-1998-1, EC-1998-1, MC-1998-1, PC-1997-1, WC-1997-1, BC-1998-1, Model EC-1996-1, MC-1997-1, WC-1997-1, BC-1998-1, EC-1998-1, MC-1998-1, PC-1997-1, WC-1997-1, BC-1998-1
Dial Window	77P013-1	Volume, Inner, Model 1959
Knob	49P337-3	Volume, Outer, Model 1959
Knob	49P336-2	Volume, Inner, Channel 1 (Monaural), Models 1996, 1997, 1998, 1992, 1999
Knob	49P337-1	Volume, Inner, Channel 1 (Monaural), Models 1986, 1989
Knob	49P337-3	Volume, Inner, Channel 1 (Monaural), Models 1986, 1989
Knob	49P336	Volume, Outer, Channel 2 (Stereo), Models 1996, 1997, 1998, 1992, 1999
Knob	39P206-2	Volume, Outer, Channel 2 (Stereo), Models 1986, 1989
Knob	39P210-1	Volume, Model 1965
Knob	49P337-4	Tone Controls & Selector, Outer, Models 1959, 1996, 1997, 1998, 1992, 1999
Knob	49P335	Tone Controls & Selector, Inner, Models 1959, 1996, 1997, 1998, 1992, 1999
Knob	49P337-2	Tone Controls & Selector, Inner, Models 1986, 1989
Knob	49P337-4	Tone Controls & Selector, Inner, Models 1986, 1989
Knob	39P212-1	Tone Controls & Selector, Channel 2 (Stereo), Models 1986, 1989
Knob	92X089-1	Model MC1959
Cabinet	92X089-2	Model MC1959
Cabinet	92X089-3	Model MC1959
Cabinet	92X089-4	Model EC1959

NAME	PART NO.	DESCRIPTION
Cabinet	92X100-1	Model WC1968
Cabinet	92X100-2	Model MC1968
Cabinet	92X098-1	Model MC1969
Cabinet	92X098-2	Model MC1969
Cabinet	92X065-4	Model MC1965
Cabinet	92X065-5	Model MC1965
Cabinet	92X065-6	Model MC1965
Cabinet	92X097-1	Model MC1996
Cabinet	92X097-2	Model EC1996
Cabinet	92X097-3	Model MC1997
Cabinet	92X097-4	Model MC1997
Cabinet	92X098-1	Model WC1998
Cabinet	92X098-2	Model EC1998
Cabinet	92X098-3	Model WC1998
Cabinet	92X098-4	Model MC-1989
Cabinet	92X100-3	Model WC1992
Cabinet	92X096-4	Model EC1996

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord Use BELDEN No. 8524 (Stranded) Available in Ten Colors
Low-Loss Shielded Lead (Interconnecting) Use BELDEN No. 1765-B (6 Ft. Length)
Phono Pick-up Arm Cable Use BELDEN No. 1733-K (½ Ft. Length)
..... Use BELDEN No. 8430 (Two Conductor - Twisted)



AMP CHASSIS BOTTOM VIEW

WEBCOR MODELS 1959-1, 1965-1, 1968-1, 1969-1, 1996-1, 1997-1, 1998-1, 1999-1 (Ch. 14X285-1, -2, 286-1, 288-1, 290-1, 297-1, 298-1, 299-1, 73X015-1, 016-1)

AMP PARTS LIST AND DESCRIPTIONS

TUBES

• CBS • GENERAL ELECTRIC • RAYTHEON • SYLVANIA •			
ITEM No.	USE	TYPE	TYPE
V8	AF Amplifier	12AT7	Note 1
V9	AF Amp. - Phase Inverter	12AX7	
V10	Output	6BQ5	

Note 1. Chassis 14X286-1, 14X297-1, 14X298-1 use 12AB5 in this application.

ELECTROLYTIC CAPACITORS

REPLACEMENT DATA					
ITEM No.	RATING	REMARKS	AEROVOX PART No.	CORNELL-DUBILIER PART No.	SPRAGUE PART No.
C30A	55 375	#30P322 #30P323	AFH4-79	D0150	TVL-4771
C30B	35 375		BRR25-25	TD-25-25	TYA-1205
C30C	15 350				TVA-1708
C30D	25 25				
C31	15 450	#30P281	PR31730	TC64	TVA-1607
C32	15 300		PR31640	BRL635	

Note 1. Ch. 14X286-1, 14X297-1 use 40mfd @ 400V, 40mfd @ 350V, 40mfd @ 25V in this application (Part #30P282)
Note 2. Not used in Ch. 14X286-1, 14X297-1.

FIXED CAPACITORS

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

REPLACEMENT DATA					
ITEM No.	RATING	REMARKS	AEROVOX PART No.	CORNELL-DUBILIER PART No.	SPRAGUE PART No.
C33	2000	#30P278-3	BPD-002	DD-202	5HK-D20
C34	10000		BPD-01	DD-103	5HK-S10
C35	50000		BPD-05	DD-503	5HK-S50
C36	2000		BPD-002	DD-202	5HK-D20
C37	10000		BPD-01	DD-103	5HK-S10
C38	200 N1500 5%		P415IN-022	DD-203	5HK-S10
C39	680 N330 10%		BPD-0047	DD-471	2SE-S22
C40	.02 400V		BPD-005	DD-502	5GA-747
C41	470		BPD-01	DD-103	5HK-S10
C42	5000		BPD-01	DD-103	5HK-S10
C43	10000	#30P278-3	BPD-01	DD-103	5HK-S10
C44	10000		BPD-01	DD-103	5HK-S10
C45	2000		BPD-01	DD-103	5HK-S10
C46	10000		BPD-01	DD-103	5HK-S10
C47	100 400V		P415IN-047	DD-471	2SE-S22
C48	1000 1400V		DAC-27	DD-27	2SE-S22
C49	.05 400V		P415IN-05	DD-503	5HK-S10
C50	4 25V		P415IN-05	DD-503	5HK-S10
C51	4 25V		P415IN-05	DD-503	5HK-S10
C52	2 25V		P2822N-2	WMFW2E	121P2050R1582

① Not used with Ch. 14X286-1, 14X297-1, 14X298-1.

* Weibor Part Number.

CONTROLS

REPLACEMENT DATA			
ITEM No.	RATING	REMARKS	INSTALLATION NOTES
R29A	1meg	31P143-2	Audio Level, Stereo
R29B	1meg		
R30	300K	31P141	Bass Treble
R31	1meg		

RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R32	47K	Note 1	R44	100K	Note 3
R33	100K		R45	2700Ω	
R34	2.2meg		R46	3000Ω	
R35	100K		R47	470K	
R36	100K		R48	100K	
R37	100K		R49	47K	
R38	120K		R50	1000Ω	
R39	30K		R51	47K	
R40	100K		R52	33K	
R41	50K		R53	150K	
R42	1500Ω	Note 2	R54	135Ω 4% 5W	Note 4
R43	15K		R55	2.7meg	

Note 1. Not used in Ch. 14X286-1, 14X298-1, 14X299-1, 14X297-1.
Note 2. Ch. 14X286-1, 14X297-1, 14X298-1 use 270Ω 2W in this application.
Note 3. Ch. 14X286-1, 14X297-1, 14X298-1 use 4500Ω 7W in this application. Not used in Ch. 14X286-1, 14X287-1.
Note 4. Ch. 14X286-1 uses 22K in this application. Not used in Ch. 14X286-1, 14X297-1, 14X298-1.
Note 5. Ch. 14X286-1 14X297-1 use 1000Ω 5W in this application. Ch. 14X286-1 uses 2200Ω 1W and Ch. 14X286-1 use 500Ω 7W.

TRANSFORMER (POWER)

REPLACEMENT DATA					
ITEM No.	RATING	REMARKS	WEBCOR PART No.	Hallderson PART No.	Stencor PART No.
T1	117V 670VCT 5V	① 22R32 ②	68P048-2 ①		P-8176 ②
	③ .99A ④ 2A				
	SEC. 3 SEC. 4 SEC. 5				
	12VCT ⑤ 4.5A				

① Alternate Part #68P070 for Ch. 14X290-1. Ch. 14X286-1 uses Part #68P068.
② Ch. 14X286-1 uses Part #68P068. Ch. 14X297-1 uses Part #68P050. Ch. 14X298-1 uses Part #68P071.
③ Drill new mounting holes. Connect 6.3V windings in series and phase.

TRANSFORMER (AUDIO OUTPUT)

REPLACEMENT DATA					
ITEM No.	IMPEDANCE	REMARKS	WEBCOR PART No.	Hallderson PART No.	Stencor PART No.
T2	6000Ω 16Ω CT	① 67P089 ②	24S55	A-3904 ③	AU-609
					A-3830
					24S55
					S-67Z

① Used in Ch. 14X286-1, 14X290-1. Ch. 14X286-1, 14X298-1 use Part #67P067. Ch. 14X297-1 use Part #67P071.
② Drill new mounting hole.

SPEAKER

REPLACEMENT DATA			
ITEM No.	TYPE	WEBCOR PART No.	NOTES
SP1	15" PM 15-16Ω	70P085 ①	① Models 1986, 1997, 1998 ② Models 1989, 1996, 1997, 1998 ③ Models 1989 ④ Models 1989, 1990, 1992, 1999 ⑤ 2 used in Models 1986, 1989, 1992, 1999. ⑥ Models 1985 ⑦ 2 used in Models 1985.
SP2	9" PM 15-16Ω	70P082-2 ②	
SP3	3" PM 7-8Ω	70P081-1 ③	
SP4	12" PM 7-8Ω	70P081-2 ④	
	10" PM 7-8Ω	70P086 ⑤	
	7" PM 7-8Ω	70P086 ⑥	
	4" PM 7-8Ω	70P086 ⑦	
	6" x 9" PM 21-22Ω	89A327 ⑧	
	4" PM 21-22Ω	70P050 ⑨	
		41A122	

TUNER PARTS LIST AND DESCRIPTIONS

TUBES

• CBS • GENERAL ELECTRIC • RAYTHEON • SYLVANIA •			
ITEM No.	USE	TYPE	TYPE
V1	FM RF Amplifier	6BC5	6AU6
V2	FM Converter - AFC	12AT7	
V3	AM Converter	6BE6	
V4	1st FM-AM IF Amplifier	6BA6	

ELECTROLYTIC CAPACITORS

REPLACEMENT DATA					
ITEM No.	RATING	REMARKS	AEROVOX PART No.	CORNELL-DUBILIER PART No.	SPRAGUE PART No.
C1	8 25	#30P314	BCD25008	NLW8-100	TE-1203.5

FIXED CAPACITORS

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

REPLACEMENT DATA					
ITEM No.	RATING	REMARKS	AEROVOX PART No.	CORNELL-DUBILIER PART No.	SPRAGUE PART No.
C2	1.5-9	#30P326	DI-1000 10%	999-10	10TS-D10
C3	1000		BPD-01	DD-102	5HK-S10
C4	10000		BPD-01	DD-103	5HK-S10
C5	10000		BPD-01	DD-103	5HK-S10
C6	10000		BPD-01	DD-103	5HK-S10
C7	10000		BPD-01	DD-103	5HK-S10
C8	10 NPO 10%		NPO-DI 10	DTZ-10	10TCC-Q10
C9	220		BPD-00022	DD-221	5GA-T22
C10	33 N330 10%			TC4-33	
C11	1.5-9	#30P337	BPD-05	DD-503	5HK-S50
C12	50000		BPD-05	DD-503	5HK-S50
C13	10 N750 10%		N750-DI 10	DTN-10	10TCC-Q10
C14	10000		BPD-01	DD-103	5HK-S10
C15	10000		BPD-01	DD-103	5HK-S10
C16	10000		BPD-01	DD-103	5HK-S10
C17	10 N150 10%		BPD-05	DD-503	5HK-S50
C18	50000		BPD-05	DD-503	5HK-S50
C19	10000		BPD-01	DD-103	5HK-S10
C20	10000		BPD-01	DD-103	5HK-S10
C21	10000	DI-330 10%	BPD-01	DD-103	5HK-S10
C22	10000		BPD-01	DD-103	5HK-S10
C23	330 10%		BPD-01	DD-103	5HK-S10
C24	330 10%		BPD-01	DD-103	5HK-S10
C25	330 10%		BPD-01	DD-103	5HK-S10
C26	1000 10%		BPD-01	DD-103	5HK-S10
C27	10000		BPD-01	DD-103	5HK-S10
C28	10000		BPD-01	DD-103	5HK-S10
C29	50000		BPD-05	DD-503	5HK-S50
C30	50000		BPD-05	DD-503	5HK-S50

* Weibor Part Number.

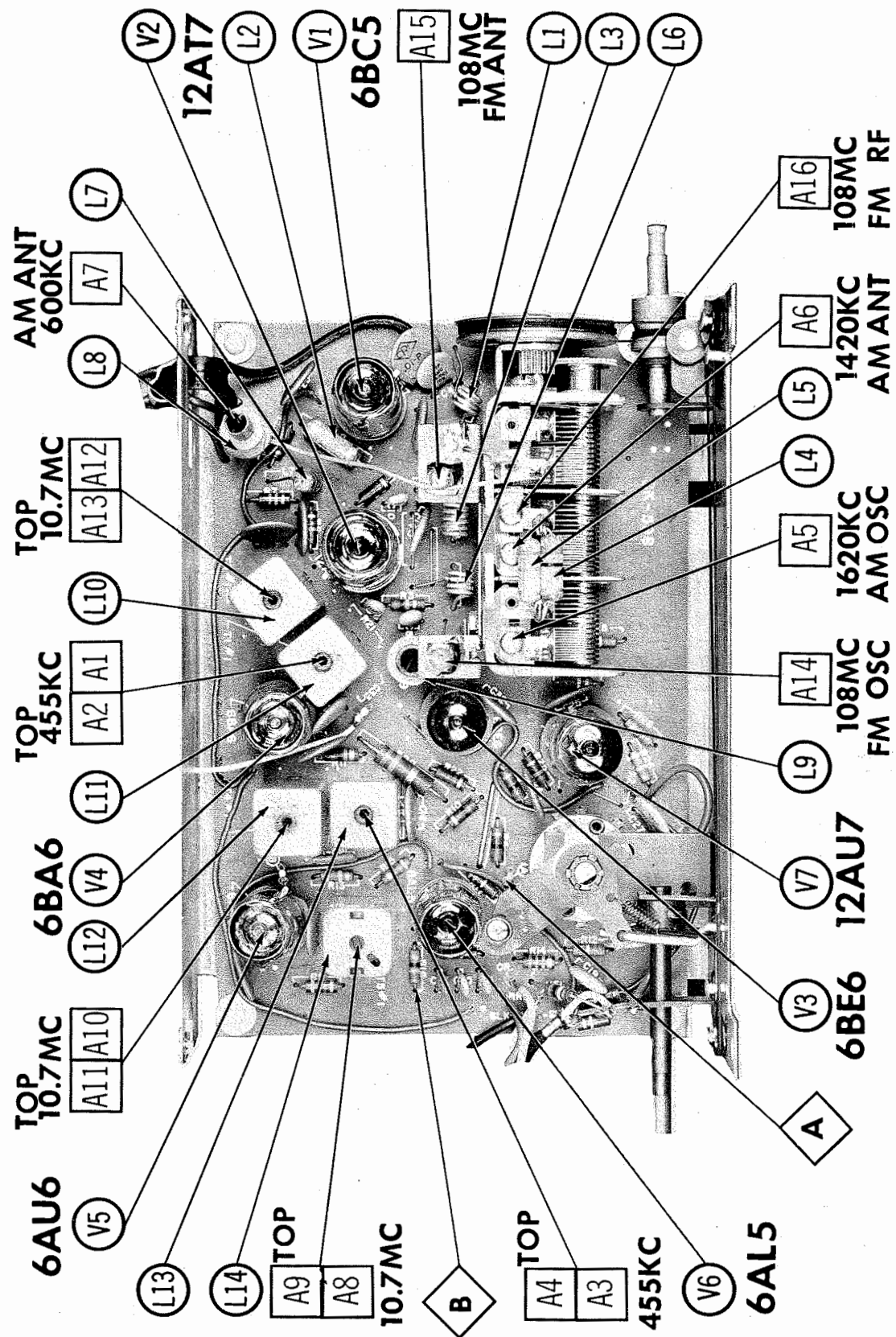
RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R1	100K	1meg	R21	1meg	22K
R2	1meg		R22	5000Ω	
R3	1000Ω		R23	5600Ω	
R4	10K		R24	470K	
R5	220Ω		R25	2200Ω	
R6	220K		R26	22K	
R7	220K		R27	100K	
R8	560Ω		R28	22K	
R9	27K				
R10	470Ω				

FOLDER 17

WEBCOR MODELS 1959-1, 1965-1, 1968-1, 1969-1, 1992-1, 1996-1, 1997-1, 1998-1, 1999-1 (Ch. 14X285-1, -2, 286-1, 288-1, 290-1, 297-1, 298-1, 299-1, 73X015-1, 016-1)



TUNER CHASSIS TOP VIEW - ALIGNMENT, INDUCTOR & TUBE IDENT.

1959-1
WEBCOR MODEL

FOLDER 17

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.
Suggested Alignment Tools: A1, thru A4, A7, A10 thru A13 GENERAL CEMENT #8606, 8606L, 8282, 9295
WALSCO #2526, 2543, 2544, 2545
A5, A6, A14, A15, A16 GENERAL CEMENT #5004, 5008, 5009
WALSCO #2520
A8, A9 GENERAL CEMENT #5097, 8727
WALSCO #2515

AM ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .05mfd	High side to pin 7 (grid) of AM Converter. Low side to chassis.	455KC (400% Mod.)	AM	Tuning gang fully open	Across voice coil	A1, A2, A3, A4	Adjust for maximum output.
2.	Loop	1620KC	"	"	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
3.	"	1420KC	"	Tune to 1420KC signal	"	A6	"
4.	"	600KC	"	Tune to 600KC signal	"	A7	Adjust for maximum output. Repeat steps 3 and 4.

Check Calibration at 600KC and 1000KC and repeat steps 2, 3 and 4 if necessary.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
5. 200mmf	High side to pin 1 (grid) of 2nd FM IF Amplifier. Low side to chassis.	10.7MC (Unmod.)	FM	Point of non-interference	DC probe to point A. Common to chassis.	A8	Adjust for maximum deflection.
6. "	"	"	"	"	DC probe to point B. Common to chassis.	A9	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
7. "	High side to FM RF stator lug of tuning gang. Low side to chassis.	"	"	"	DC probe to point C. Common to chassis.	A10, A11, A12, A13	Adjust for maximum deflection.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
5. 200mmf	High side to pin 1 (grid) of 2nd FM IF Amplifier. Low side to chassis.	10.7MC (450KC Swp)	FM	Point of non-interference	Vert. Amp. to point A. Low side to chassis.	A8	Disconnect Stabilizing Capacitor C1. Adjust for maximum gain and symmetry of response similar to Fig. 1.
6. "	"	"	"	"	Vert. Amp. to point B. Low side to chassis.	A9	Reconnect C1. Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A8 for maximum amplitude and straightness of crossover lines.
7. "	High side to FM RF stator lug of tuning gang. Low side to chassis.	"	"	"	Vert. Amp. to point C. Low side to chassis.	A10, A11, A12, A13	Disconnect C1. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C1.

FM RF ALIGNMENT

Coils not containing adjustable cores are adjusted by expanding or compressing coil turns.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
8. 240Ω Carbon Resistor	Across FM antenna terminals with 240Ω in high side.	108MC (Unmod.)	FM	108MC	DC probe to point A. Common to chassis.	A14, A15, A16	Adjust for maximum deflection.
9. "	"	88MC	"	88MC	"	L6, L3, L1	Adjust for maximum deflection. Repeat steps 8 and 9.

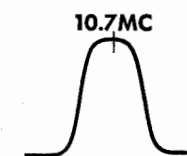


FIG. 1

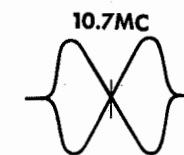
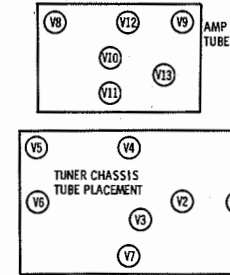
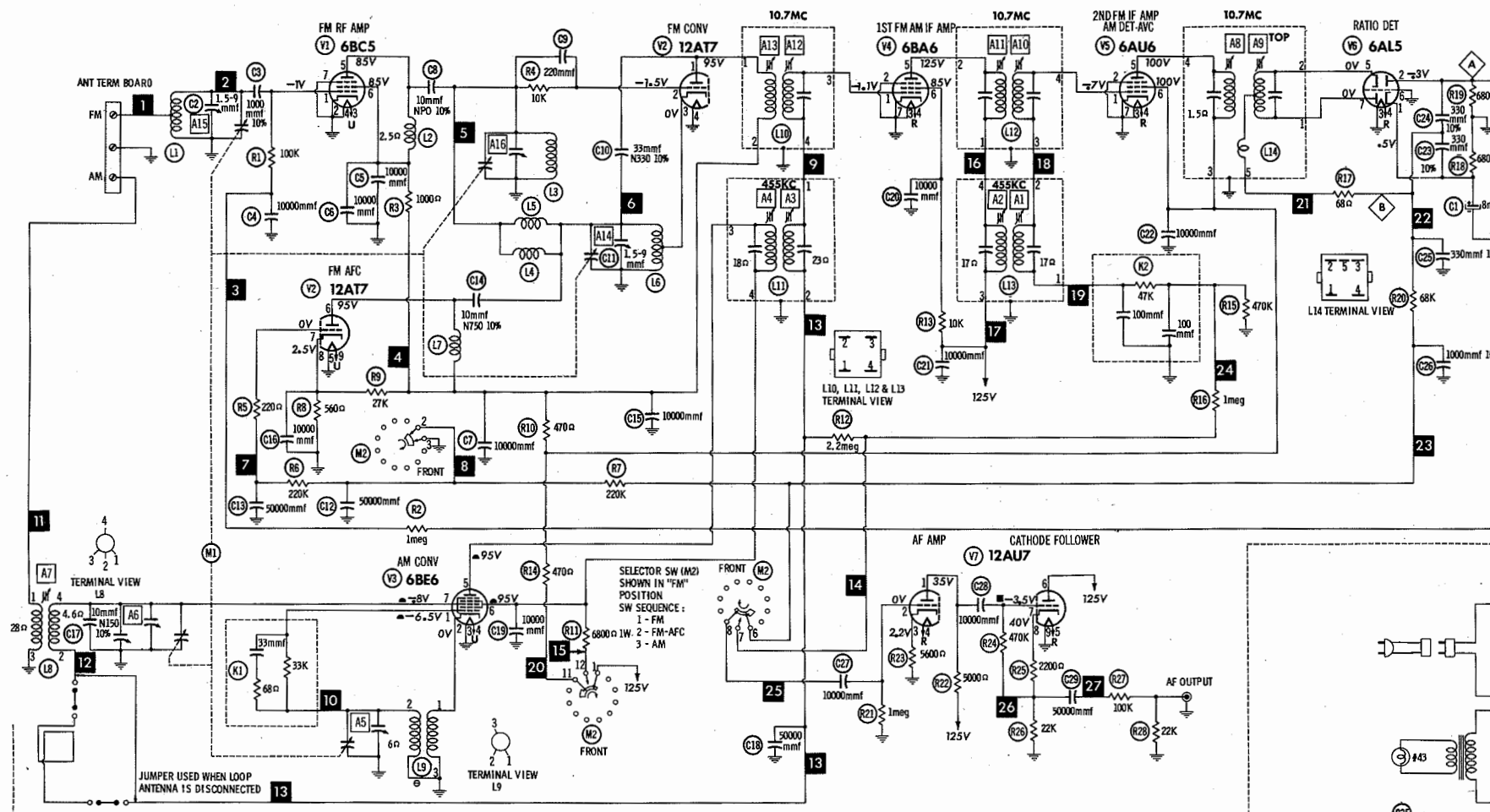
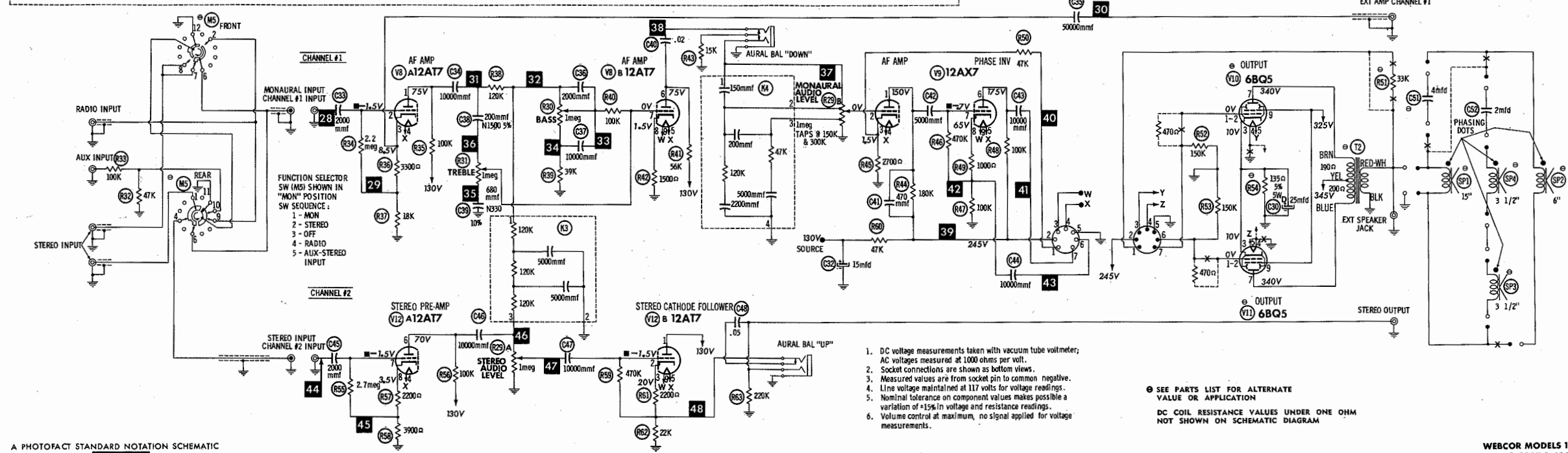
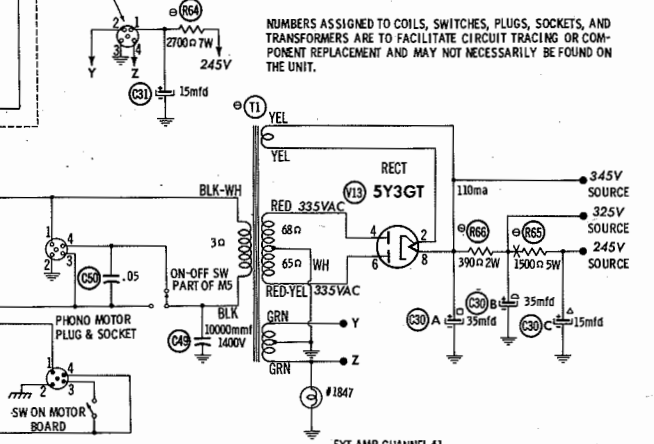


FIG. 2



		RESISTANCE READINGS								
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BC5	1.1meg	0Ω	.1Ω	0Ω	1650Ω	1650Ω	0Ω		
V2	12AT7	1550Ω	10K	0Ω	0Ω	0Ω	1550Ω	0Ω	560Ω	.1Ω
V3	6BE6	~33K	~.4Ω	0Ω	.1Ω	1.11K	1.11K	~3.7meg		
V4	6BA6	3.7meg	0Ω	0Ω	.1Ω	1460Ω	14K	0Ω		
V5	6AU6	520K	0Ω	0Ω	.1Ω	1500Ω	1500Ω	0Ω		
V6	6AL5	680Ω	680Ω	0Ω	.1Ω	290K	0Ω	290K		
V7	12AU7	1900Ω	1meg	560Ω	.1Ω	1460Ω	490K	24K	0Ω	
V8	12AT7	1150K	2.2meg	21K	.1Ω	110K	140K	150Ω	.1Ω	
V9	12AX7	1180K	0Ω	270Ω	.1Ω	110K	570K	100K	.1Ω	
V10	6BQ5	150K	150K	135Ω	0Ω	1.1Ω	NC	1190Ω	NC	1390Ω
V11	6BQ5	150K	150K	135Ω	0Ω	1.1Ω	NC	1200Ω	NC	1390Ω
V12	12AT7	149K	490K	24K	.1Ω	1150K	2.7meg	610Ω	.1Ω	
V13	5Y3GT	TP	1	NC	68Ω	NC	65Ω	NC	1	

ALL MEASUREMENTS TAKEN IN "FM" POSITION UNLESS OTHERWISE DESIGNATED.
 THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
 1. MEASURED IN "AM" POSITION.
 2. MEASURED FROM PIN 2 OF V13.
 3. MEASURED IN "FM-AFC" POSITION.
 4. MEASURED FROM CATHODE.



1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±1% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
 DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

A PHOTOFACT STANDARD NOTATION SCHEMATIC with CIRCUITRACE
 ©Howard W. Sams & Co., Inc. 1960

WEBCOR MODELS 1959-1, 1965-1, 1968-1, 1969-1, 1992-1, 1996-1, 1997-1, 1998-1, 1999-1 (Ch. 14X285-1, -2, 286-1, 288-1, 290-1, 297-1, 298-1, 299-1, 73X015-1, 016-1)