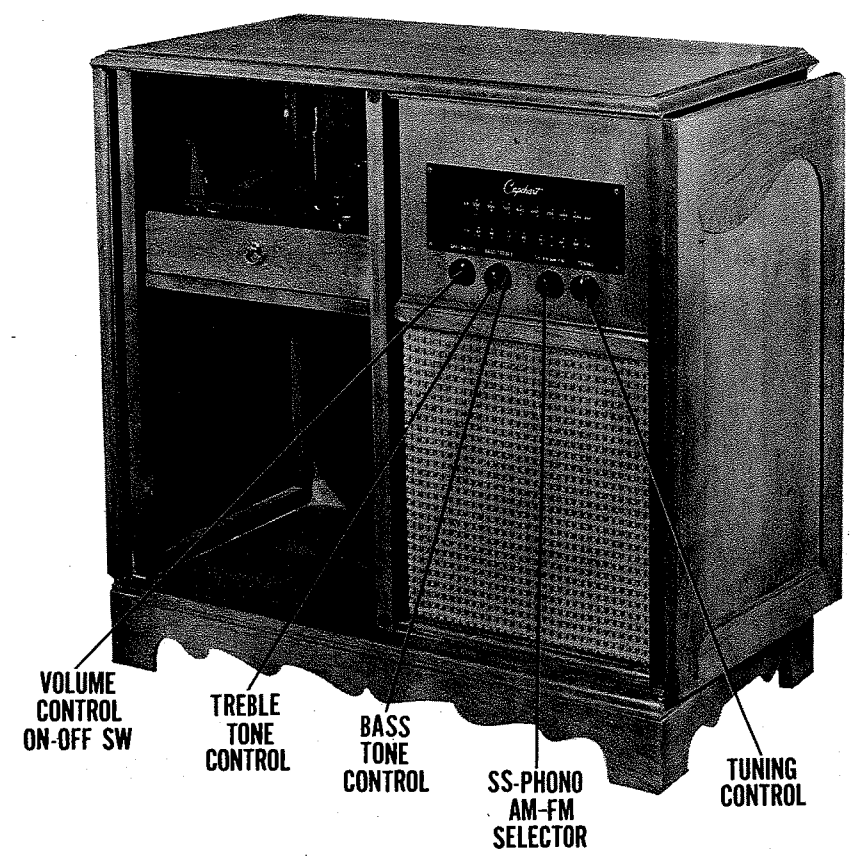


CAPEHART MODELS 35P7,
1002F, 1003M, 1004B

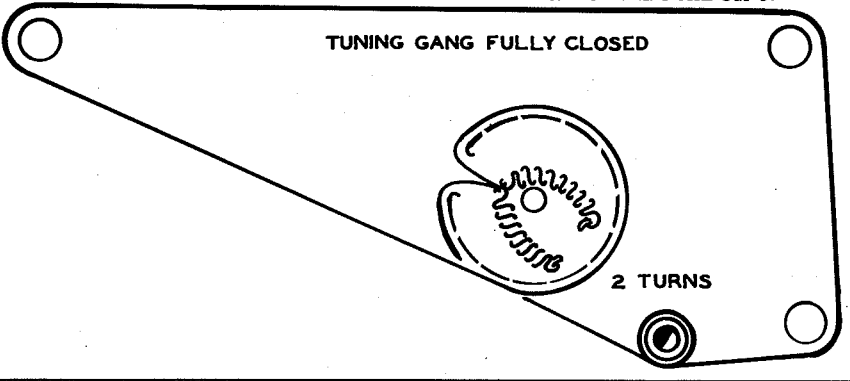


CAPEHART MODELS 35P7,
1002F, 1003M, 1004B

CAPEHART MODEL 1002F

TRADE NAME	Capehart, Models 35P7 (Ch. P-7), 1002F, 1003M, 1004B (Ch. P-8)	
MANUFACTURER	Capehart - Farnsworth Corp., Fort Wayne, Indiana	
TYPE SET	AC Operated Combination Phono-Radio, AM-FM Superheterodyne Receiver With Loop Antenna	
TUBES (ELEVEN)	Types 6AG5 RF Amp., 12AT7 FM Converter, 6BE6 AM Converter, 6SK7 1st IF Amp., 6SK7 2nd IF Amp., 6SK7 3rd IF Amp., 6T8 Det.-AF-Amp., 6SQ7 Phase Inv.-AVC, (2) 6V6GT Power Output, 5Y3GT Rectifier	
POWER SUPPLY	105-125 Volts AC	RATING .77 Amp. @ 117 Volts AC
TUNING RANGE-BROADCAST	540-1620KC	FREQ. MOD. 88-108MC

FOR SERVICE INFORMATION ON RECORD CHANGER SEE CAPEHART MODEL P-71 SIMILAR TO V-M MODEL 950 IN PHOTOFACT SET 107 FOLDER 13 OR RECORD CHANGER MANUAL CM-3.



TUNING GANG FULLY CLOSED

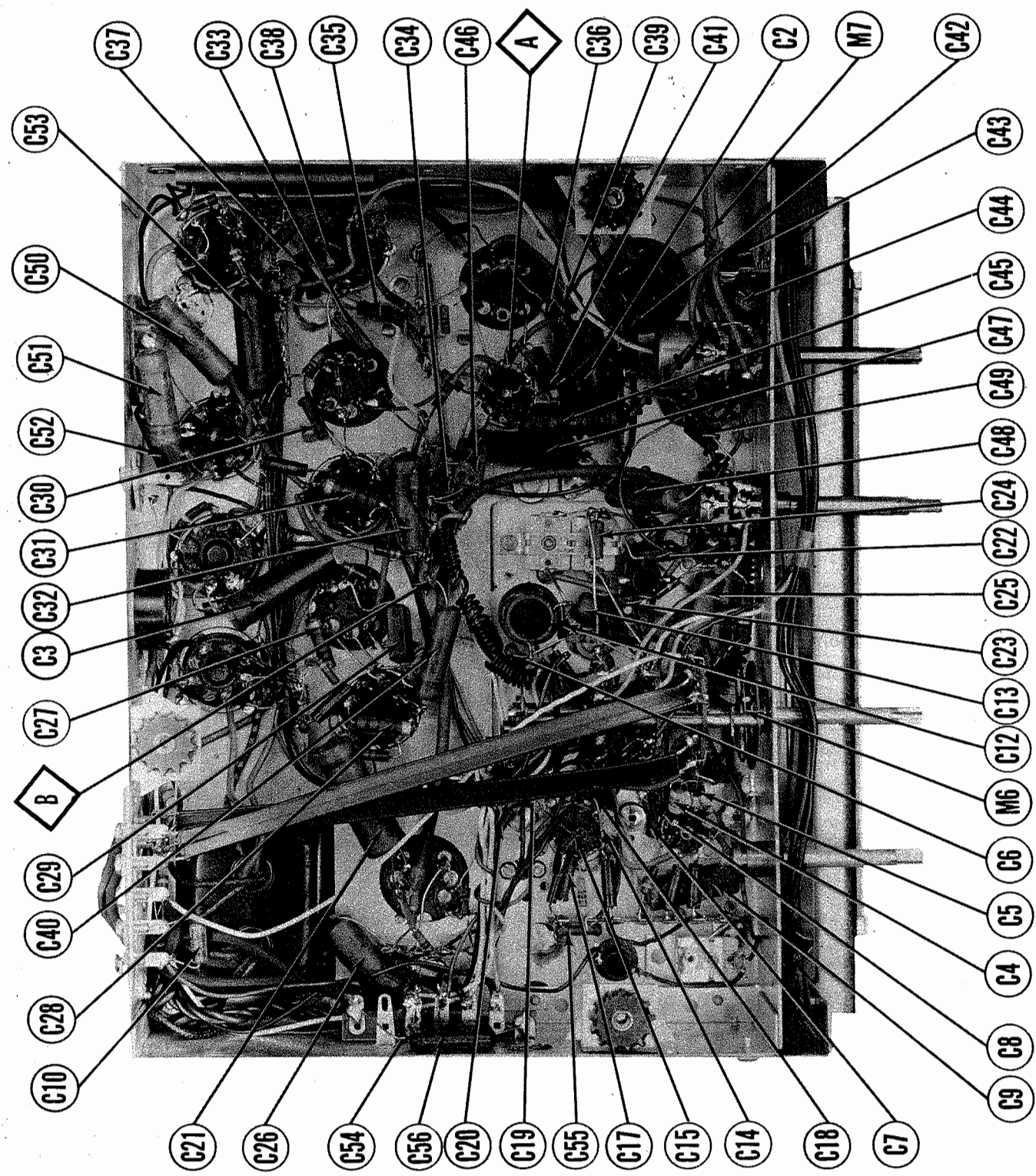
2 TURNS

DIAL CORD DRIVE

HOWARD W. SAMs & CO., INC. • Indianapolis 1, Indiana

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FUNCTION SWITCH IN EITHER AM OR FM POSITION
 † TAKEN IN FM POSITION
 ‡ TAKEN IN AM POSITION

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	-1VDC	1.6VDC	0V	6.2VAC	†185VDC ‡200VDC	†10VDC ‡130VDC	1.6VDC		
V 2	12AT7	†185VDC	0V	†4.8VDC	6.2VAC	6.2VAC	†175VDC ‡150VDC	†16.3VDC ‡11VDC	0V	0V
V 3	6BE6	6A-11VDC	0V	0V	6.3VAC	‡200VDC	†15VDC ‡80VDC	-1VDC	†175VDC ‡190VDC	
V 4	6SK7	0V	0V	0V	-1VDC	.1VDC	†30VDC ‡100VDC	6.2VAC	†175VDC ‡190VDC	
V 5	6SK7	0V	0V	0V	-1VDC	†3.2VDC ‡3.6VDC	†100VDC ‡105VDC	6.2VAC	†175VDC ‡190VDC	
V 6	6SK7	0V	0V	0V	0V	†3VDC	†85VDC	6.2VAC	†170VDC	
V 7	6T8	-4VDC	-7VDC	-4VDC	0V	6.2VAC	-8VDC	0V	-4VDC	120VDC
V 8	6SQ7	0V	-6VDC	0V	2VDC	-1.8VDC	145VDC	6.3VAC	0V	
V 9	6V6GT	0V	0V	†235VDC ‡230VDC	†205VDC ‡200VDC	.1VDC	.1VDC	6.3VAC	15VDC	
V 10	6V6GT	0V	0V	†235VDC ‡230VDC	†205VDC ‡200VDC	.1VDC	.1VDC	6.3VAC	15VDC	
V 11	5Y3GT	-1.8VDC	270VDC	0V	285VAC	0V	285VAC	0V	270VDC	

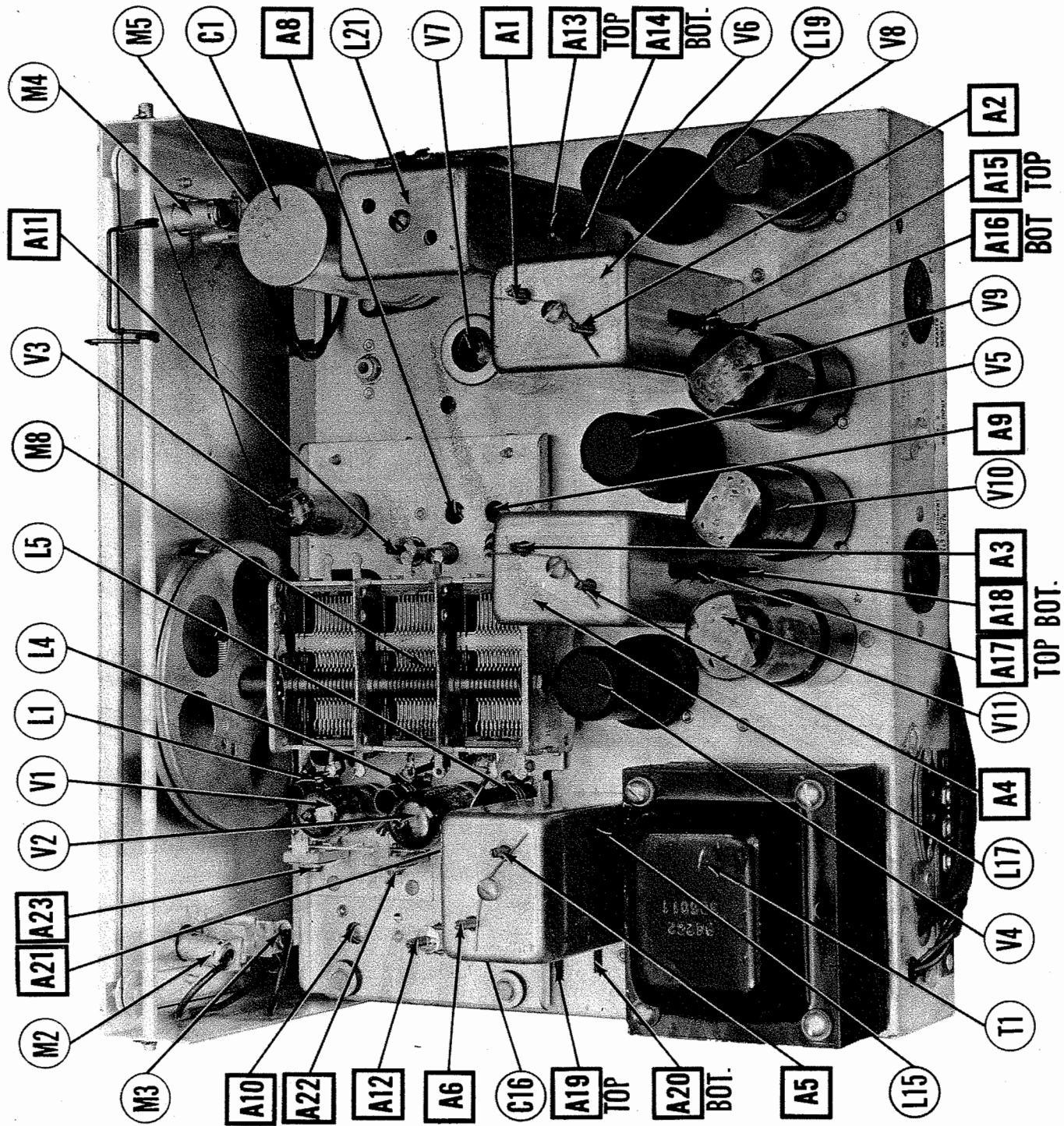
§ TAKEN WITH VACUUM TUBE VOLTMETER

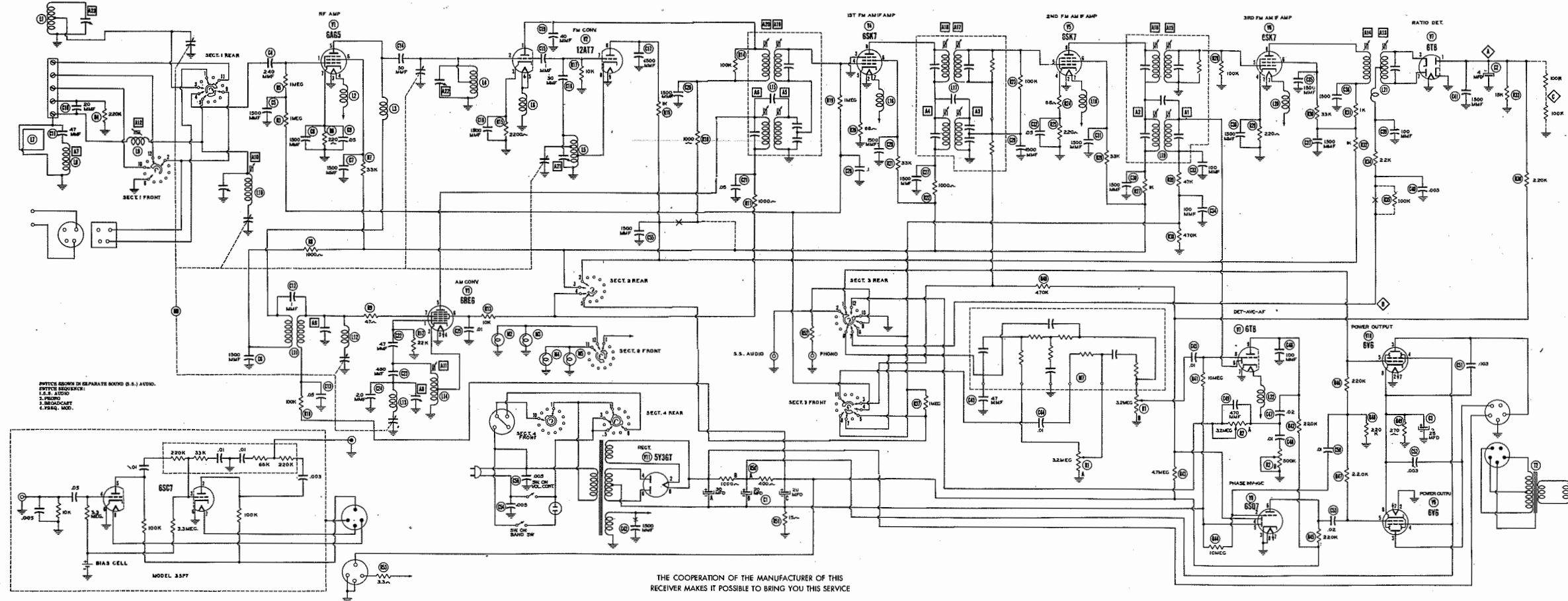
RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	†2.7Meg ‡3.5Meg	2200	00	.40	†2.4K0	†34K0	2200		
V 2	12AT7	†2.4K0	00	2.2K0	.40	†2.4K0	10K0	00	00	
V 3	6BE6	22K0	.40	00	.10	†2.4K0	†11K0	1.6Meg		
V 4	6SK7	00	00	00	†1.7Meg ‡2.5Meg	680	†34K0	.40	†2.4K0	
V 5	6SK7	00	00	00	1.6Meg	2900	†34K0	.40	†2.4K0	
V 6	6SK7	00	00	00	.40	2200	†35K0	.40	†3.4K0	
V 7	6T8	Inf.	15K0	Inf.	00	.40	520K0	00	10Meg	†220K0
V 8	6SQ7	00	10Meg	00	235K0	150	†220K0	00	.10	
V 9	6V6GT	00	00	†1800	†1K0	440K0	2.2K0	.10	2700	
V 10	6V6GT	00	00	†1800	†1K0	440K0	Inf.	.10	2700	
V 11	5Y3GT	150	35K0	Inf.	1350	Inf.	1350	Inf.	35K0	

† MEASURED FROM PIN 8 OF V1

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms.
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 $\pm 15\%$ in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.





ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT							
To set pointer turn tuning gang fully closed and set pointer to the small dots at the low frequency end of the dial scale.							
AM ALIGNMENT							
Loop should be maintained in same relative position to chassis as when receiver is in cabinet. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .1MFD	High side to Pin 7 (grid) of 6BE6, (V3). Low side to chassis.	455KC (400 % Mod.)	AM (Third pos. clockwise)	Tuning gang fully open	Across voice coil	A1, A2, A3, A4, A5, A6	Adjust for maximum output.
2.	Loop	"	"	"	"	A7	Fashion loop of several turns of wire and connect generator across loop to radiate signal into receiver loop. Adjust A7 for MINIMUM output.
3.	Loop	1600KC	"	1600KC	"	A8, A9	Radiate signal as in step 2. Adjust for maximum output.
4.	"	1500KC	"	1500KC	"	A10	"
5.	"	600KC	"	600KC	"	A11, A12	Adjust for maximum output. Repeat steps 3, 4 and 5 until no further improvement can be made.
FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM							
Connect two matched 100KΩ (± 1%) resistors in series from Point Ⓢ to chassis. The junction of these two resistors is alignment Point Ⓢ as shown on the schematic.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
6. .001MFD	High side to Pin 4 (grid) of 6SK7, (V5). Low side to chassis.	10.7MC (Unmod.)	FM (Max. CW)	Tuning gang fully open	DC probe to Point Ⓢ. Common to chassis.	A13, A14	Turn A13 fully out. (CCW). Adjust A14 for maximum deflection.
7.	High side to Pin 4 (grid) of 6SK7, (V4). Low side to chassis.	"	"	"	"	A15, A16	Turn A15 fully out. Adjust A16 for maximum deflection, then adjust A15 for maximum deflection.
8.	High side to Pin 4 (grid) of 6SK7, (V3). Low side to chassis.	"	"	"	"	A17, A18	Turn A17 fully out. Adjust A18 for maximum deflection, then adjust A17 for maximum deflection.
9.	High side to Pin 2 (grid) of 12AT7, (V2). Low side to chassis.	"	"	"	"	A19, A20	Turn A19 fully out. Adjust A20 for maximum deflection, then adjust A19 for maximum deflection.
10.	"	"	"	"	DC probe to Point Ⓢ. Common to Point Ⓢ.	A13	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE							
Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	SCOPE CONNECT	ADJUST	REMARKS
6. .001MFD	High side to Pin 4 (grid) of 6SK7, (V5). Low side to chassis.	10.7MC (450KC SWP)	FM (Max. CW)	Point of non-interference	Vert. amp. to Point Ⓢ. Low side to chassis.	A13, A14	Disconnect stabilizer capacitor C2 and connect a 350MMF capacitor across secondary of L21. Adjust A14 for a single broad peak centered at 10.7MC. Then remove the 350MMF capacitor and adjust A13 for a double peaked symmetrical curve similar to figure 1.
7.	High side to Pin 4 (grid) of 6SK7, (V4). Low side to chassis.	"	"	"	"	A15, A16	Turn A15 fully out. Adjust A16 and then A15 for maximum amplitude and symmetry as per figure 1.
8.	High side to Pin 4 (grid) of 6SK7, (V3). Low side to chassis.	"	"	"	"	A17, A18	Turn A17 fully out. Adjust A18 and then A17 for maximum amplitude and symmetry as per figure 1.
9.	High side to Pin 2 (grid) of 12AT7, (V2). Low side to chassis.	"	"	"	"	A19, A20	Turn A19 fully out. Adjust A20 and then A19 for maximum amplitude and symmetry as per figure 1.
10.	"	"	"	"	Vert. amp. to Point Ⓢ. Low side to chassis.	A13, A14	Reconnect capacitor C2. Adjust A13 so 10.7MC occurs at center of "S" curve as shown in figure 2. Adjust A14 for maximum amplitude and straightness of diagonal line.
FM RF ALIGNMENT							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
11. 300Ω carbon resistor	High side thru 300Ω to ungrounded "FM" terminal. Low side to chassis.	108MC (Unmod.)	FM	108MC	DC probe to Point Ⓢ. Common to chassis.	A21, A22, A23	Turn A21, A22 and A23 to MINIMUM capacity. Adjust A21 to first peak towards max. capacity. Then adjust A22 and A23 for maximum deflection.
12.	"	88MC	"	88MC	"	L5, L4, L1	Check coils with a tuning wand and if necessary expand or compress coil turns for maximum deflection. If coils are changed repeat steps 11 and 12 until no further improvement can be made.

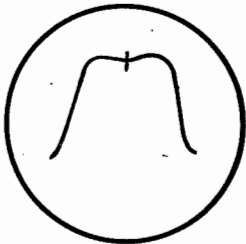


FIG. 1

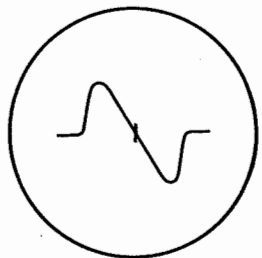
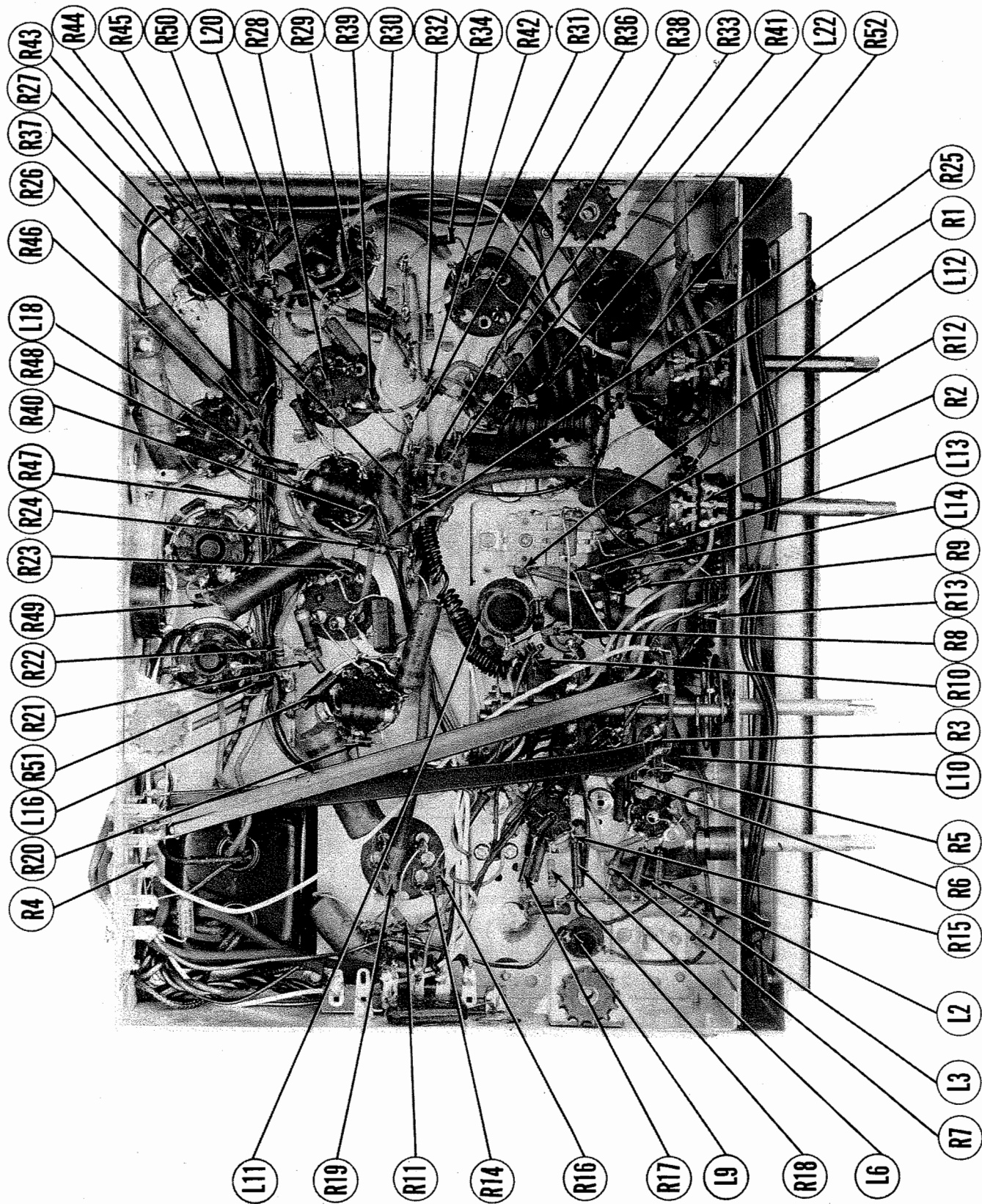


FIG. 2



CAPEHART MODELS 35P7,
1002F, 1003M, 1004B

PARTS LIST AND DESCRIPTIONS
 TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		INSTALLATION NOTES
		CAPEHART PART No.	RMA BASE TYPE	
V1	RF Amplifier	6AG5	TBD	
V2	FM Converter	12AT7	9A	
V3	AM Converter	6BE6	7CH	
V4	1st IF Amp.	6SK7	8N	
V5	2nd IF Amp.	6SK7	8N	
V6	3rd IF Amp.	6SK7	8N	
V7	Det.-AF Amp.-	6T8	9E	
V8	Phase Inverter-AVC	6SQ7	8Q	
V9	Power Output	6V6GT	7AC	
V10	6V6GT	5Y3GT	5T	
V11	Rectifier			

CAPACITORS

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

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA		IDENTIFICATION CODES AND INSTALLATION NOTES
		CAPEHART PART No.	AEROVOX PART No.	
C1A	30	25424	A766336B	UP3245C
C1B	450			
C2	20	25970	PRS150/4	BR415
C3	25	25427	PRS25/25	BR252A
C4	240	25273	SI240	5W5725
C5	1500	25273	SI1500	D6-251
C6	1500	25273	SI1500	D6-152
C7	1500	25273	SI1500	D6-152
C8	1500	25273	SI1500	D6-152
C9	1500	25273	SI1500	D6-152
C10	20	25196	P288-05	DF-503
C11	47	25492	SI20	TC2-47
C12	500	25193	1469-00005	TC2-1
C13	75	25196	P288-05	DF-503
C14	50	25493	SI50	D6-500
C15	1	25497	TC2-1	TC2-1
C16	30	25329	SI30	D6-300
C17	1500	25273	SI1500	D6-152
C18	1500	25273	SI1500	D6-152
C19	40	25507	SI39	D6-390
C20	1500	25273	SI1500	D6-152
C21	1500	25273	SI1500	D6-152
C22	47	25196	P288-05	DF-503
C23	480	25504	1468-00005	D6-470
C24	20	25492	SI20	TC2-20
C25	1	25186	P288-01	D6-103
C26	1	25186	P288-1	DF-104
C27	1500	25273	SI1500	D6-152
C28	1500	25273	SI1500	D6-152
C29	1500	25273	SI1500	D6-152
C30	1500	25273	SI1500	D6-152
C31	1500	25273	SI1500	D6-152
C32	1500	25273	SI1500	D6-152
C33	100	25186	1468-0001	D6-101
C34	100	25186	1468-0001	D6-101
C35	1500	25273	SI1500	D6-152
C36	1500	25273	SI1500	D6-152
C37	1500	25273	SI1500	D6-152
C38	1500	25273	SI1500	D6-152
C39	100	25186	1468-0001	D6-101
C40	100	25186	1468-0001	D6-101
C41	1500	25273	SI1500	D6-152
C42	1500	25273	SI1500	D6-152
C43	47	25193	1468-00005	D6-470
C44	500	25186	P288-01	D6-103
C45	500	25186	P288-01	D6-103
C46	500	25186	1468-0001	D6-101
C47	500	25186	1468-0001	D6-101
C48	600	25186	P288-02	DF-203
C49	600	25186	P288-01	D6-103

PARTS LIST AND DESCRIPTIONS (Continued)
 CAPACITORS

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

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA		IDENTIFICATION CODES AND INSTALLATION NOTES
		CAPEHART PART No.	AEROVOX PART No.	
C49	470	25285	1468-0005	D6-471
C50	500	25186	P288-01	D6-103
C51	500	25186	P288-01	D6-103
C52	500	25186	P288-01	D6-103
C53	500	25186	P288-01	D6-103
C54	500	25186	P288-01	D6-103
C55	500	25186	P288-01	D6-103
C56	500	25186	P288-01	D6-103
C57	500	25186	P288-01	D6-103
C58	500	25186	P288-01	D6-103
C59	500	25186	P288-01	D6-103
C60	500	25186	P288-01	D6-103
C61	500	25186	P288-01	D6-103
C62	500	25186	P288-01	D6-103
C63	500	25186	P288-01	D6-103
C64	500	25186	P288-01	D6-103
C65	500	25186	P288-01	D6-103
C66	500	25186	P288-01	D6-103
C67	500	25186	P288-01	D6-103
C68	500	25186	P288-01	D6-103
C69	500	25186	P288-01	D6-103
C70	500	25186	P288-01	D6-103
C71	500	25186	P288-01	D6-103
C72	500	25186	P288-01	D6-103
C73	500	25186	P288-01	D6-103
C74	500	25186	P288-01	D6-103
C75	500	25186	P288-01	D6-103
C76	500	25186	P288-01	D6-103
C77	500	25186	P288-01	D6-103
C78	500	25186	P288-01	D6-103
C79	500	25186	P288-01	D6-103
C80	500	25186	P288-01	D6-103
C81	500	25186	P288-01	D6-103
C82	500	25186	P288-01	D6-103
C83	500	25186	P288-01	D6-103
C84	500	25186	P288-01	D6-103
C85	500	25186	P288-01	D6-103
C86	500	25186	P288-01	D6-103
C87	500	25186	P288-01	D6-103
C88	500	25186	P288-01	D6-103
C89	500	25186	P288-01	D6-103
C90	500	25186	P288-01	D6-103
C91	500	25186	P288-01	D6-103
C92	500	25186	P288-01	D6-103
C93	500	25186	P288-01	D6-103
C94	500	25186	P288-01	D6-103
C95	500	25186	P288-01	D6-103
C96	500	25186	P288-01	D6-103
C97	500	25186	P288-01	D6-103
C98	500	25186	P288-01	D6-103
C99	500	25186	P288-01	D6-103
C100	500	25186	P288-01	D6-103

* Not used in all models.

CONTROLS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		INSTALLATION NOTES
		CAPEHART PART No.	CLAROSTAT PART No.	
R1A	3.2Meg	78158	Q13-140	Volume Control - Front
R1B	3.2Meg	78158	M13-140	Volume Control - Rear
R1C	3.2Meg	78158	76-1	Attach to R1A Per Instructions
R2A	500K	78159		Bass Control - Front
R2B	500K	78159		Treble Control - Rear

RESISTORS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		CAPEHART PART No.	IRC PART No.	
R3	1Meg	77181	BTS-1Meg	AVC Network
R4	220KΩ	77178	BTS-220K	Antenna Loading
R5	1Meg	77181	BTS-1Meg	RF Amp. Grid
R6	220KΩ	77181	BTS-220K	RF Amp. Cathode
R7	33KΩ	77183	BTS-33K	RF Amp. Screen
R8	1000Ω	77233	BTS-1000	Parasitic Suppressor
R9	47KΩ	77189	BTS-47K	AM Converter Grid
R10	100KΩ	77189	BTS-100K	AM Converter Decoupling
R11	1000Ω	77233	BTS-1000	AM Osc. Grid
R12	22KΩ	77169	BTS-22K	AM Osc. Anode
R13	10KΩ	77022	BTS-10K	1st IF Transformer Shunt
R14	10KΩ	77022	BTS-10K	FM Converter Cathode
R15	1000Ω	77184	BTS-1000	FM Converter Cathode
R16	1000Ω	77233	BTS-1000	FM Osc. Grid
R17	1000Ω	77180	BTS-1000	FM Osc. Plate
R18	1000Ω	77233	BTS-1000	1st IF Amp. Cathode
R19	1000Ω	77233	BTS-1000	1st IF Amp. Screen
R20	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling
R21	1000Ω	77233	BTS-1000	2nd IF Amp. Cathode
R22	1000Ω	77233	BTS-1000	2nd IF Amp. Screen
R23	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling
R24	1000Ω	77233	BTS-1000	2nd IF Amp. Cathode
R25	1000Ω	77233	BTS-1000	2nd IF Amp. Screen
R26	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling
R27	1000Ω	77233	BTS-1000	2nd IF Amp. Cathode
R28	1000Ω	77233	BTS-1000	2nd IF Amp. Screen
R29	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling
R30	1000Ω	77233	BTS-1000	2nd IF Amp. Cathode
R31	1000Ω	77233	BTS-1000	2nd IF Amp. Screen
R32	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling
R33	1000Ω	77233	BTS-1000	2nd IF Amp. Cathode
R34	1000Ω	77233	BTS-1000	2nd IF Amp. Screen
R35	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling
R36	1000Ω	77233	BTS-1000	2nd IF Amp. Cathode
R37	1000Ω	77233	BTS-1000	2nd IF Amp. Screen
R38	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling
R39	1000Ω	77233	BTS-1000	2nd IF Amp. Cathode
R40	1000Ω	77233	BTS-1000	2nd IF Amp. Screen
R41	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling
R42	1000Ω	77233	BTS-1000	2nd IF Amp. Cathode
R43	1000Ω	77233	BTS-1000	2nd IF Amp. Screen
R44	1000Ω	77233	BTS-1000	2nd IF Amp. Plate Decoupling

PARTS LIST AND DESCRIPTIONS (Continued)
 RESISTORS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		CAPEHART PART No.	IRC PART No.	
R45	220KΩ	77178	BTS-220K	Phase Inv. Plate
R46	220KΩ	77178	BTS-220K	Output Grid
R47	220KΩ	77178	BTS-220K	Output Grid
R48	220KΩ	77178	BTS-220K	Output Grid
R49	270KΩ	77174	BTA-270	Output Cathode
R50A	100KΩ	77463		Filter - Wire Wound
R51	150Ω	77491	BW-1-15	Bias Network
R52	680KΩ	77492	BTS-680K	Series Phone - See Note 1
R53	3.3Ω	77492	BW-1-3.3	Filament Dropping - See Note 2

Note 1. Not used in all models.

Note 2. Not used in P-8 chassis.

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA		CHICAGO PART No.
		CAPEHART PART No.	STANCOR PART No.	
T1	117VAC 600VCT 5VAC @ 2A	94262		

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA		INSTALLATION NOTES
		CAPEHART PART No.	STANCOR PART No.	
T2	7.7KΩ 3.5Ω 360Ω CT	94235	A-3870	① Drill one new mounting hole.

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA		INSTALLATION NOTES
		CAPEHART PART No.	VIKING PART No.	
SPI	V. C. IMP.	13892	12J12	12A4A
SP2	V. C. DIA.			
SP2	1 3/8"			

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA		NOTES
		CAPEHART PART No.	MEISSNER PART No.	
L1	FM Ant. Coil	38958		
L2	FL. Choke	38884		
L3	FM RF Coil	38959		
L4	FM RF Coil	38959		
L5	FM Osc. Coil	38960		
L6	FL. Choke	38884		
L7A	Loop Ant.	13893		Chassis P-7
L7B	Wave Trap	65089A-G1		Chassis P-8
L8	AM Antenna	38996		
L9	Loading Coil	38963		
L10	RF Choke	38884		
L11	AM RF Coil	38961		
L12	RF Choke	38884		
L13	RF Choke	38884		
L14	AM Osc. Coil	38962		
L15A	1st IF FM	38957		Tap at .4Ω
L16	1st IF FM	38957		
L17A	2nd IF FM	38884		
L17B	2nd IF FM	38950		Includes Resistance on AM Pri.

PARTS LIST AND DESCRIPTIONS (Continued)
 R F COILS

ITEM No.	USE
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