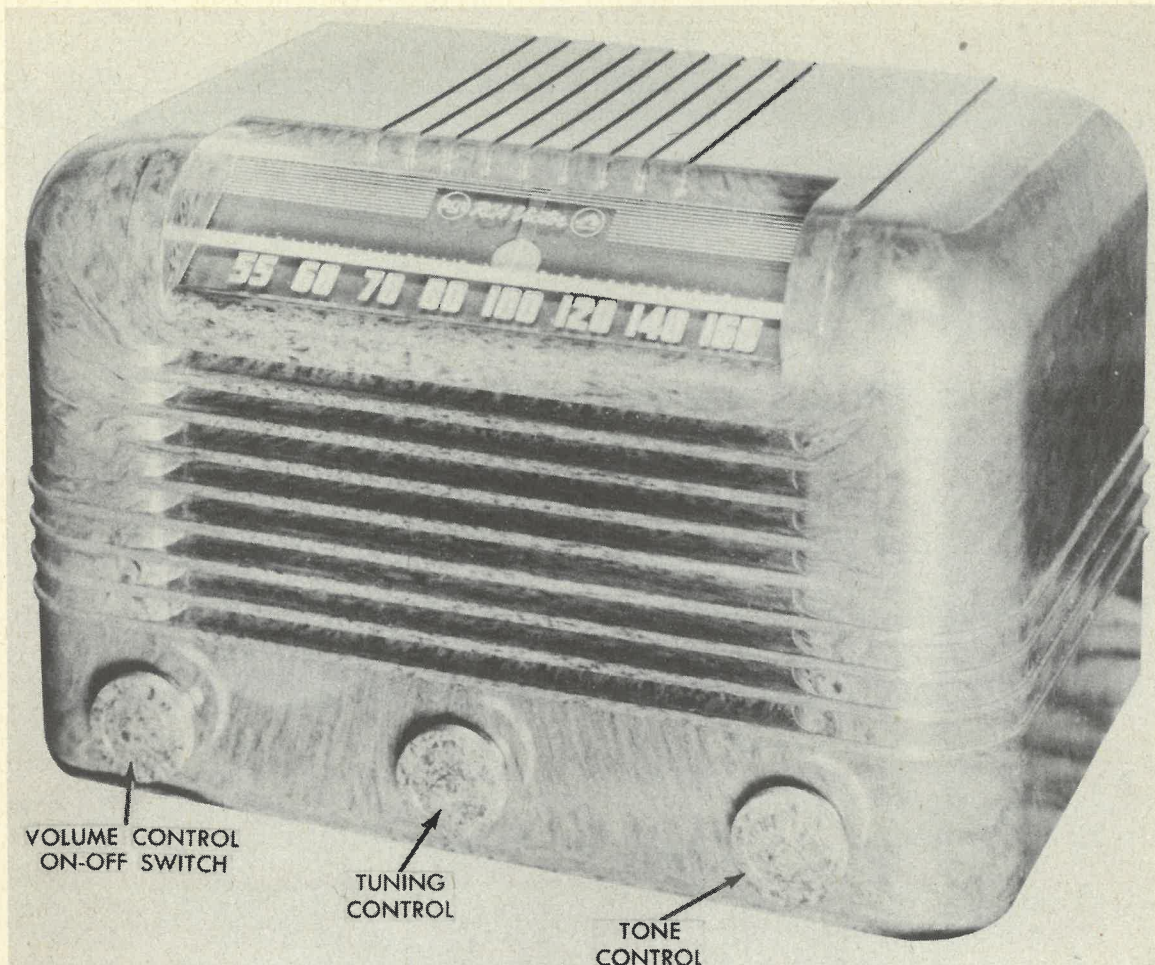


R C A VICTOR
MODELS 56X, 56X2, 56X3



VOLUME CONTROL
ON-OFF SWITCH

TUNING
CONTROL

TOE
CONTROL

RCA VICTOR MODEL 56X

R C A VICTOR
MODELS 56X, 56X2, 56X3

TRADE NAME RCA Victor, Models 56X, 56X2, 56X3 (Chassis RC-1011) MANUFACTURER Radio Corp. of America, RCA Victor Division - Camden, New Jersey TYPE SET AC - DC Superheterodyne - Self Contained Loop Antenna TUBES (SIX) Types 12SG7 Converter, 12J5GT Osc., 12SK7 IF Amp., 12SQ7 2nd Det.-AVC-AF, 35L6GT Power Output, 35Z5GT Rectifier POWER SUPPLY 117 Volts AC-DC Rating .240 Amp. @ 117 Volts AC TUNING RANGE—BROADCAST 540-1600KC SHORT WAVE						
ALIGNMENT INSTRUCTIONS						
DUMMY ANTENNA *	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.01MFD	High side to stator of rear section of gang. Low side to B-.	455KC	Quiet point at 1600KC end of dial.	Across voice coil.	A1,A2, A3,A4	Adjust for maximum output. Use isolation transformer if available. If not, isolating capacitor must be connected between signal generator ground lead and B-. Also decrease dummy ant. to .001MFD to prevent excessive hum modulation.
200MMFD	High side to ant. lead. Low to B-.	1300KC	1300KC	"	A5	Adjust for maximum output.
"	" "	"	"	"	A6	" " " "

Volume control at maximum and output from signal generator as low as possible for all adjustments. Adjust dial pointer by rotating tuning condenser fully counter-clockwise(plates in full mesh). Dial pointer should be over max. cap. mark(Left) on dialback plate. Use insulated alignment screwdriver. for adjusting trimmers.

PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	USE	REPLACEMENT DATA		BMA BASE TYPE	INSTALLATION NOTES
		RCA PART No.	STANDARD REPLACEMENT		
1	Converter	12S67	12S67	9BK	
2	Osc.	12J5GT	12J5GT	9Q	
3	IF Amp.	12SK7	12SK7	9N	
4	2nd Det.-AVC-AF	12SQ7	12SQ7	9Q	
5	Power Output	35L6GT	35L6GT	7AC	
6	Rectifier	35Z5GT	35Z5GT	6AD	

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	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		RCA PART No.	MALLORY PART No.	SOLAR PART No.	AEROVOX PART No.	
7 (A)	50 CAP.	39152	2N520	DIN-2X50Q-150	PRS150-40-40	Filter - Red
8	30	70615	TP426	S-4-05	TC-15	Line Filter
9	.05	70617	TP428	S-4-1	TC-1	Line Isolating
10	.1	70711	TP412	S-6-02	TC-12	35L6 Plate
11	.0018	800	TP405	S-6-002	TC-22	Tone Control
12	.005	70627	TP408	S-6-005	TC-25	Audio Coupling
13	.02	70711	TP412	S-6-02	TC-12	Osc. Coupling
14	.01	1000	TP410	S-6-01	TC-11	12SQ7 Screen Bypass
15	.035	70652	TP414	S-6-04	TC-14	AVC Filter
16	.01	1000	TP410	S-6-01	TC-11	Ant. Coupling
17	330	39940	MC243	MO-5-34	1468-.0004	12SQ7 Plate Bypass

CONTROLS

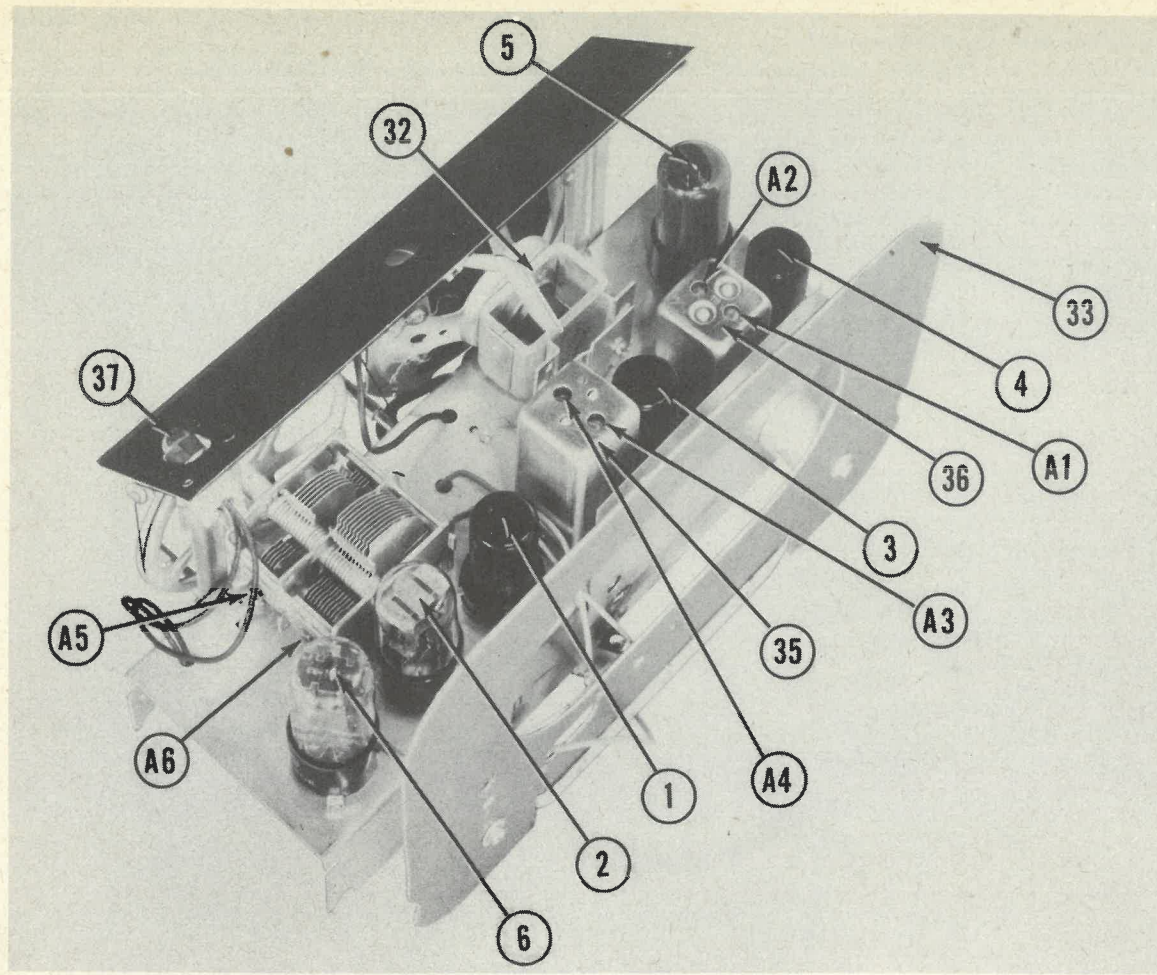
ITEM No.	BATING RESISTANCE	WATTS	REPLACEMENT DATA			INSTALLATION NOTES
			RCA PART No.	MALLORY PART No.	CLAROSTAT PART No.	
19 (A)	500K Ω	1	36242	MR48*	DS13-133*	M-60-Z*
(B)	Switch		Not Req.	M26T	47	SN-46

*Install a 50K Ω resistor in series with the right hand terminal of the control and the lead connecting to the same terminal of the original control. (Control viewed from the shaft side, terminals down.) Attach to 10A per instructions.

RESISTORS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
			RCA PART No.	IRC PART No.	
20	3300 Ω	1	30733	BTS-3300	Or.-Or.-Red Mixer Cathode
21	15 Meg.	1	39785	BTS-15 Meg.	Br.-Grn.-Blue AVC Network
22	22K Ω	1	30492	BTS-22K	Red-Red-Or. Osc. Grid
23	1500 Ω	1	30654	BTS-1500	Red-Red-Or. Screen Dropping
24	3.3 Meg.	1	12828	BTS-3.3 Meg.	Br.-Grn.-Red Screen Dropping
25	4.7 Meg.	1	30931	BTS-4.7 Meg.	Or.-Or.-Grn. AVC Network
26	220K Ω	1	14583	BTS-220K	Vl.-Vl.-Grn. 1st AF Grid
27	120 Ω	1	30189	EW-4-120	Red-Red-Vl. Plate Load
28	470K Ω	1	30648	BTS-470K	Br.-Red-Br. Output Cathode
29	1200 Ω	1	6134	BTS-1200	Vl.-Vl.-Vl. Output Grid
30	220K Ω	1	14583	BTS-220K	Br.-Red-Red-Vl. Line Isolating

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS

TRANSFORMER (OUTPUT)

ITEM No.	RATING		REPLACEMENT DATA		INSTALLATION NOTES
	IMPEDANCE	DC RES.	RCA PART No.	THORDARN PART No.	
31	2220 Ω 3.4 Ω	235 Ω .86 Ω	36800 (365805)	713542 Φ	When using listed replacements disregard capped primary which is used in conjunction with 1200 Ω resistor for filtering purposes. Drill new mounting holes.

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA		INSTALLATION NOTES
	FIELD	VC IMP.	RCA PART No.	JENSEN PART No.	
32	4 Φ	3.4	70413	ST-443 Φ	Original Part No. 92510-1 When using these units a suitable mounting bracket must be improvised to duplicate speaker position.
	CONV DIA: 4 Φ	VC DIA: 2 Φ	NOT REPLACABLE - USE COMPLETE SPEAKER UNIT		

R F COILS

ITEM No.	USE	DC RES.		REPLACEMENT DATA		INSTALLATION NOTES
		PRI.	SEC.	RCA PART No.	MEISSNER PART No.	
33	Loop Ant.	0	1 Ω	39821		
34	Osc.	2.6 Ω	7 Ω	39824		
35	Input IF	8 Ω	8 Ω	70411		Original Part No. M922226-3
36	Output IF	15 Ω	15 Ω	70412		Original Part No. 922226-4

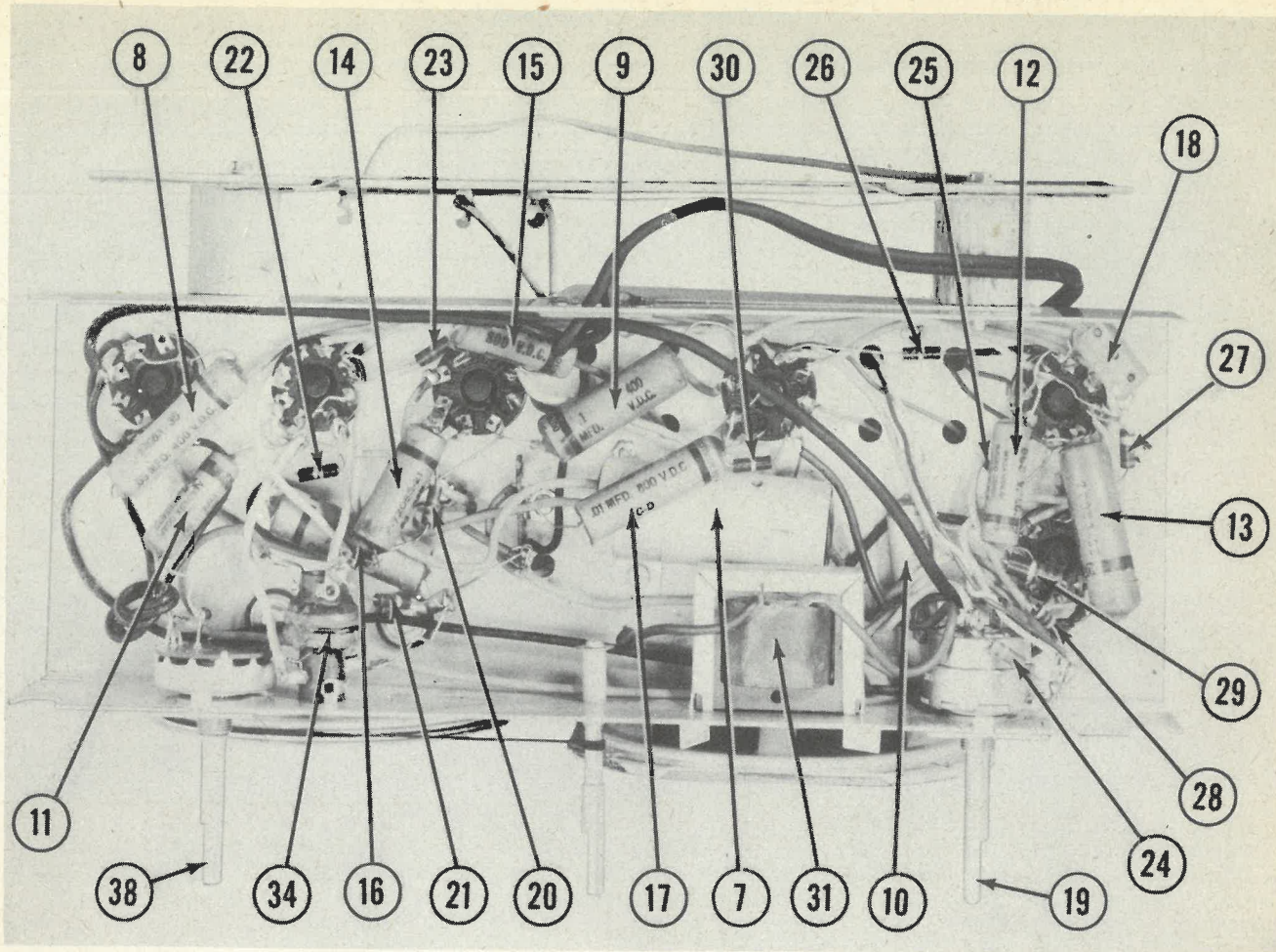
DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		INSTALLATION NOTES
				BEAD COLOR	RCA PART No.	
37	Min. Bayonet	6-8	0.2	White	11765	Type 51

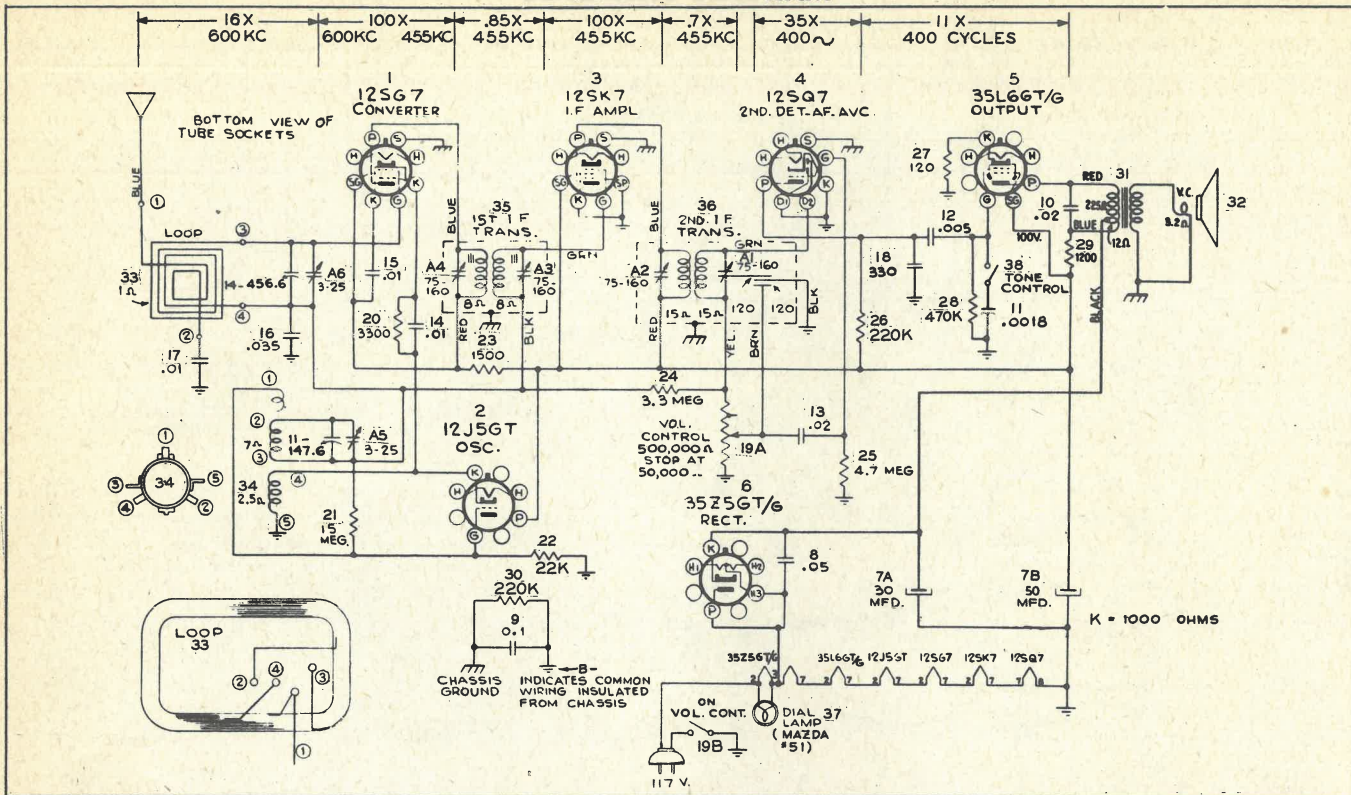
MISCELLANEOUS

ITEM No.	PART NAME	RCA PART No.	NOTES
A5	Trimmer	36226	3-25WTF Part of 36226
A6	Tun. Cap.	36228	2 Gang Main Tuning Cap {Ant. 14-450WTF
38	Tone Switch	70414	{Osc. 11-147WTF
	Knob	36722	Ivory-for 56X2
	Knob	36722	Walnut-for 56X, 56X3

CHASSIS—BOTTOM VIEW

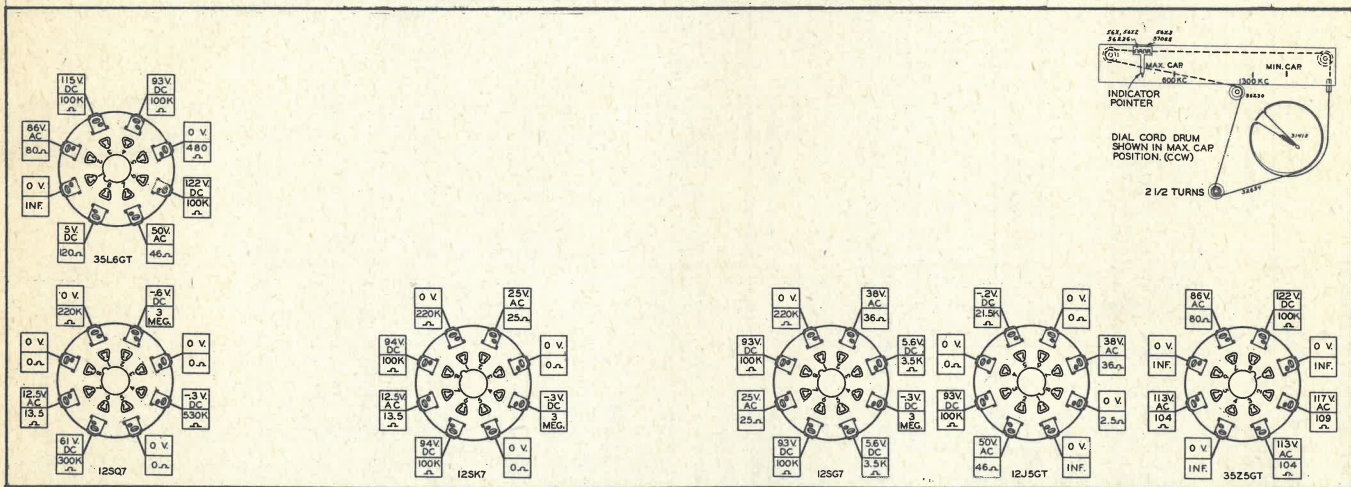


SCHEMATIC DIAGRAM



The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.

VOLTAGE AND RESISTANCE ANALYSIS CHART



- 1 - DC Voltage measurements are at 20,000 ohms per volt; 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 + 10% in voltage and resistance readings.
- 6 - Volume control at maximum, no signal applied for voltage measurements.

HOWARD W. SAMS & CO., INC.

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