

VOLTAGE READINGS									
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	128A7	OV.	23VAC	88VDC	88VDC	-8.7VDC§	OV.	12VAC	-6VDC
2	128K7	OV.	23VAC	OV.	-6VDC	OV.	88VDC	36VAC	88VDC
3	128Q7	OV.	-5VDC	OV.	-4VDC	-4VDC	41VDC	12VAC	OV.
4	50L6GT	OV.	84VAC	124VDC	88VDC	OV.	OV.	36VAC	5.4VDC
5	35Z5GT	OV.	117VAC	105VAC	117VAC	116VAC	-6VDC	84VAC	128VDC

§ TAKEN WITH VACUUM TUBE VOLTMETER.

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RESISTANCE READINGS									
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	128A7	470KΩ	24Ω	67KΩ	67KΩ	22KΩ	.6Ω	12Ω	2.7 Meg
2	128K7	470KΩ	24Ω	Ω	2.7 Meg.	Ω	67KΩ	36Ω	67KΩ
3	128Q7	470KΩ	4.7 Meg.	Ω	500KΩ	500KΩ	540KΩ	12Ω	Ω
4	50L6GT	INF.	86Ω	85KΩ	67KΩ	470KΩ	Ω	36Ω	150Ω
5	32S15GT	INF.	116Ω	110Ω	119Ω	140Ω	2.7 Meg.	86Ω	68KΩ

RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY
ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS
THE COOPERATION OF THE MANUFACTURER OF THIS
RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

4811-8

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages are 100 Vrms.
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. Voltage control at maximum, no gain applied for voltage measurements.

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.

**GENERAL ELECTRIC MODELS 102, 102W,
107, 107W, 114, 114W, 115, 115W**



TUNING CONTROL

GENERAL ELECTRIC MODEL 107

TRADE NAME	General Electric, Model 102, 102W, 107, 107W, 114, 114W, 115, 115W					
MANUFACTURER	General Electric Co., Electronics Dept., Electronics Park, Syracuse, N.Y.					
TYPE SET	AC-DC Operated Superheterodyne Receiver with Loop Ant.					
TUBES (FIVE)	Types, 12SA7 Converter, 12SK7 IF Amp., 12SQ7 Det.-AVC-AF, 50L6GT Power Output, 35Z5GT Rectifier.					
POWER SUPPLY	105-125 Volts AC-DC					
TUNING RANGE—BROADCAST	540-1720KC	RATING	.24 Amp. @ 117 Volts AC			
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
Standard dummy in Steps 2 & 3 below consists of 200MMFD cap. in series with 20 microhenry choke shunted by 400MMFD cap. in series with 400Ω carbon resistor. Use isolation transformer if available. If not connect a .1 MFD capacitor in series with low side of signal generator and B-.						
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	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.05 MFD	High side to Pin 8 (grid) of 12SA7. Low side to B-.	455KC	Tuning cap. fully open.	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output. If isolation transformer is not used reduce dummy ant. to .001 MFD to reduce hum modulation.
Standard Dummy (See prealignment notes)	Across loop primary terminals.	1720KC	"	"	A5	Adjust for maximum output.
"	"	1500KC	Tune for maximum output.	"	A6	" " " "

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PARTS LIST AND DESCRIPTIONS
 TUBES (SYLVANIA or Equivalent)

GENERAL ELECTRIC
 MODEL 107

ITEM No.	USE	REPLACEMENT DATA			RMA BASE TYPE	INSTALLATION NOTES
		GEN. ELECTRIC PART No.	STANDARD REPLACEMENT			
1	Converter	12SA7	12SA7		8R	
2	IF AMP.	12SK7	12SK7		8N	
3	Det.-AVC-AF	12SQ7	12SQ7		8Q	
4	Power Output	50L6GT	50L6GT		7AC	
5	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
		GEN. ELECTRIC PART No.	AEROVOX PART No.	CORNELL DUBIER PART No.	SOLAR PART No.	
6A	30	30E-001	PRS150/30-30	E23315	DSB-2X30-150	TA-330 Filter-VI.
7	150	UCC-635	694-05	D7695	ST-6-05	TC-15 Line Filter
8	2.05	UCC-635	494-05	D7485	ST-4-05	72P1 Line Isolation
9	8	UCC-635	694-02	D7682	ST-6-02	TC-12 Output Plate Bypass
10	.01	UCC-630	694-01	D7681	ST-6-01	TC-11 Audio Coupling
11	.005	UCC-625	694-005	D76D5	ST-6-005	TC-25 Tuning Cap.
12	.02	UCC-631	494-02	D7482	ST-4-02	TC-12 AVC Filter
13	.05	UCC-635	494-05	D7485	ST-4-05	TC-15 AF Plate Bypass-Cer.
14	330	UCU-040	1468-0003	5W573	MO-5-33	1FM-33 AF Filter
15	330	UCU-040	1468-0003	5W573	MO-5-33	1FM-33 D1ode RF Filter-Cer.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		RESISTANCE	WATTS	CLAROSTAT PART No.	
16	500KΩ	SRQ-003	D13-133	AF-60-Z	Volume Control
17	B Shaft	"	"	KSS-3	Attach to 16a per instructions
18	C Switch	"	"	41	SW-A

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		RESISTANCE	WATTS	GEN. ELECTRIC PART No.	
17	22KΩ	4	4	URD-006	BTS-22K
18	2.2 Meg.	4	4	URD-126	BAS-2.2 Meg.
19	4.7 Meg.	4	4	URD-137	BAS-4.7 Meg.
20	470KΩ	4	4	URD-113	BRS-470K
21	470KΩ	4	4	URD-113	BRS-470K
22	150Ω	4	4	URD-029	BW-1-150
23	2200Ω	4	4	URD-009	BT-2-2200
24	22Ω	4	4	URD-113	BW-4-22
25	470KΩ	4	4	URD-113	BTS-470K

TRANSFORMER (OUTPUT)

ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		IMPEDANCE	DC RES.	GENERAL ELECTRIC PART No.	
26	2000Ω	3.6Ω	132Ω	STO-005	A-3876
27	4"			UOP-487	Mod. P4-X

PARTS LIST AND DESCRIPTIONS (Continued)

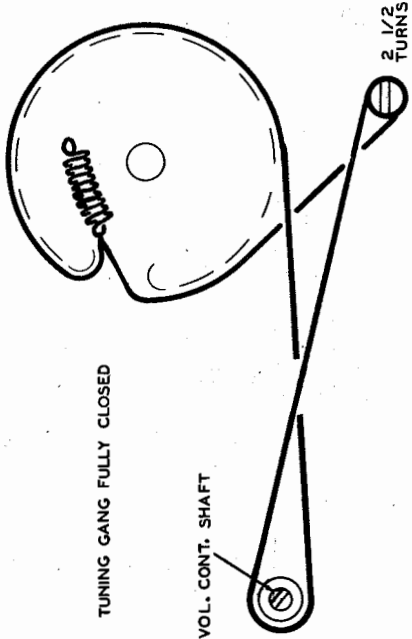
ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		GENERAL ELECTRIC PART No.	JENSEN PART No.	QUAM PART No.	
27	FIELD	VC IMP.	ST-113	4A07	
28	PM	3.6Ω	UOP-487	Mod. P4-X	
29	COIL DIA.	VC DIA.			

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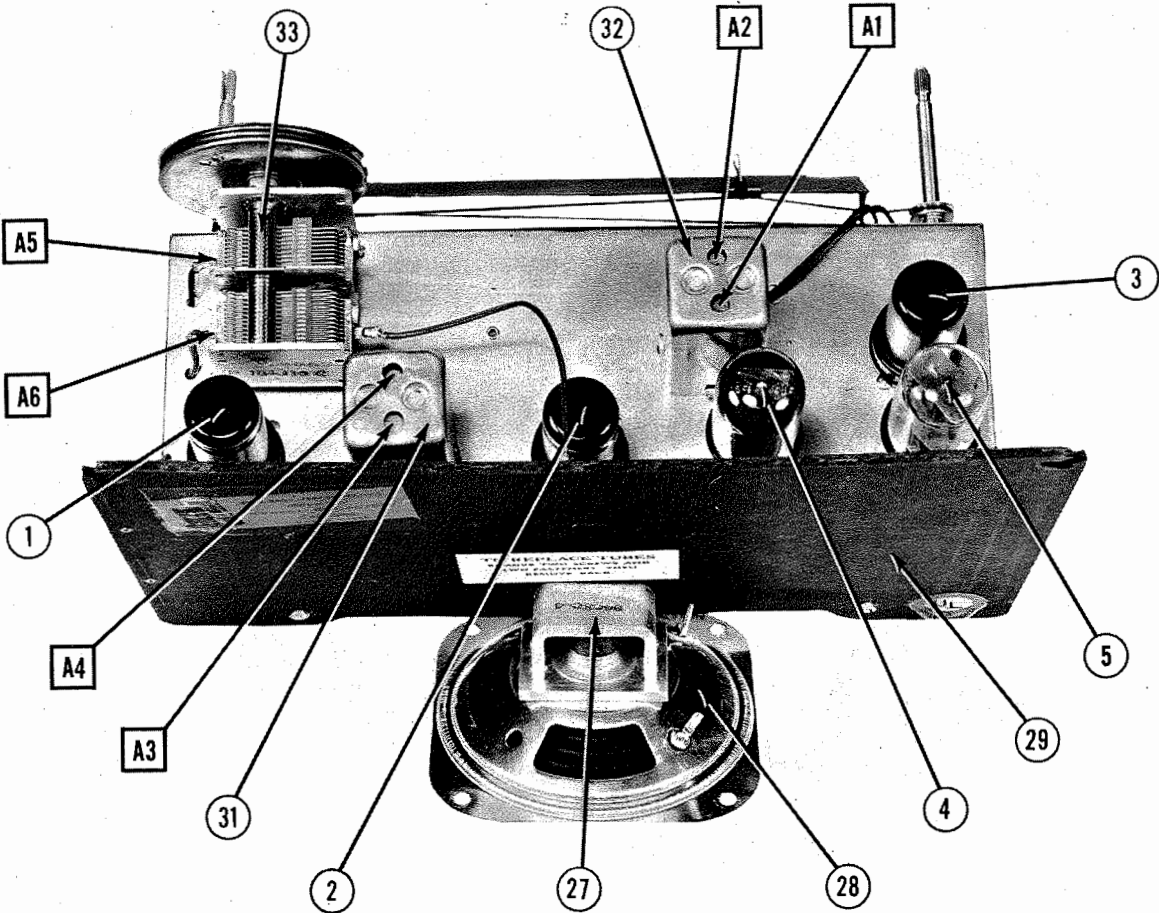
ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		DC RES.	GEN. ELECTRIC PART No.	MEISSNER PART No.	
29	Loop Ant.	2.8Ω	RAB-070	14-1060	Add 50Ppf. from high side tuning cap. to
30	Osc. Coil	9.3Ω	SIC-020	16-6658	osc. grid.
31	Input IF	20Ω	STL-007	16-6660	
32	Output IF	30Ω	STL-008	16-6660	

MISCELLANEOUS

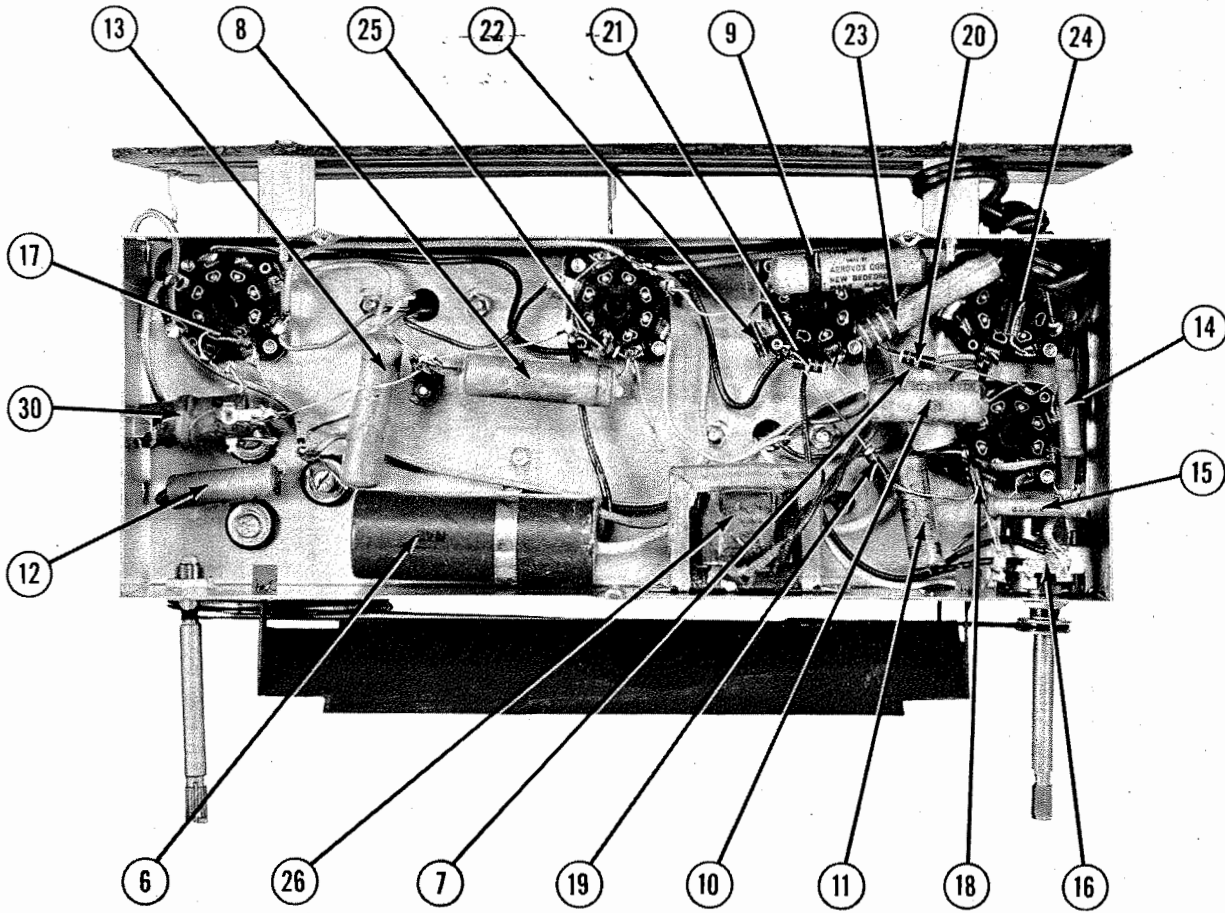
ITEM No.	PART NAME	GENERAL ELECTRIC PART No.	NOTES
33	2 Gang Var. Cap	RCV-005	(23-465Ppf, 30-195Ppf)
	Dial Pointer	SIP-001	Models 102, 1024, 107, 1074, 114, 114W
	Dial Scale	SIS-019	Models 115, 115W
		RDS-083	



CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW



GENERAL ELECTRIC
 MODEL 107

GENERAL ELECTRIC
 MODEL 107