

109-6

PHOTOFACT* Folder



GENERAL ELECTRIC MODEL 600
(BATTERY OPERATED)



VOLUME CONTROL
ON-OFF SWITCH

TUNING CONTROL

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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. Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
5. Volume control at maximum, no signal applied for voltage measurements.

RESISTANCE READINGS

Pin	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
V1 1R5	•	1140	18.2K	100K	•	3.8 Meg.	•
V2 1T4	•	1250	18.2K	3.8 Meg.	•	•	•
V3 1S5	•	80	500K	15.3 Meg.	1470K	10 Meg.	•
V4 3V4	•	1350	100	Inf.	•	3.3 Meg.	•

* DO NOT USE OHMMETER TO MEASURE FILAMENT RESISTANCE.
† MEASURED FROM PIN 3 OF V1.

VOLTAGE READINGS

Pin	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
V1 1R5	0V	8VDC	1.25VDC	0V	1VDC	1.5VDC	1.5VDC
V2 1T4	2.8VDC	8VDC	1.5VDC	1.5VDC	1.5VDC	4VDC	4VDC
V3 1S5	1.5VDC	0V	8VDC	0V	2.5VDC	1VDC	2.5VDC
V4 3V4	4VDC	8VDC	8VDC	0V	8VDC	0V	7.5VDC

† TAKEN WITH VACUUM TUBE VOLTMETER

THE COOPERATION OF THE MANUFACTURER OF THIS
RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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GENERAL ELECTRIC MODEL 600

TRADE NAME	General Electric, Model 600					
MANUFACTURER	General Electric Co., Electronics Dept., Electronics Park, Syracuse, New York					
TYPE SET	Battery Operated Portable Superheterodyne Receiver with Loop Antenna					
TUBES (FOUR)	Types 1R5 Converter, 1T4 IF Amp., 1S5 DET-AVC-AF, 3V4 Power Output					
POWER SUPPLY	7.5 Volts "A" Supply and 90 Volts "B" Supply in Pack Form					
RATING	56MA at 7.5 Volts DC and 15MA at 90 Volts DC					
TUNING RANGE—BROADCAST	540-1600KC					
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING 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	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .05MFD	High side to pin 6 (Grid) of 1R5 (V1). Low side to chassis.	455KC (400 % Mod.)	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.	Loop	1500KC	Tune for max. output	"	A6	Adjust for maximum output. Replace set in cabinet and set dial pointer to 1500KC calibration mark.

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DATE 10-50

SET 109

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TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		G. E. PART No.	STANDARD REPLACEMENT		
V1	Converter	IR5	IR5	7AT	
V2	IF Amp.	1T4	1T4	6AR	
V3	DET-AVC-AF	1S5	1S5	8AU	
V4	Power Output	3V4	3V4	6BX	

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	G. E. PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNEILL DUBIERRE PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
C1	8	UCC-098	PR8192/4	DF-503	BBE15		TYVA-1405	RF Bypass
C2	.03	RCE-042	P488-03	D6-500	PTE683	GP1K-56	BTM-13	Avc. Grid Cap.
C3	56	UCC-042	P488-03	D6-500	3W243		IFM-45	Decoupling
C4	.03	UCC-042	P488-03	D2-503	PTE683		BTM-13	Flament Bypass
C5	.1	UCC-048	P2685-1	DF-104	PTE41PI		2TM-1	Diode RF Filter
C6A	330	RCW-3015	S1330	D6-331	3W575	GP2K-330	10C14	Audio Coupling
C6B	200		BPD-002	D6-331	PTE6D2	811-002	28C2	AF Amp. Screen
C7	5000		BPD-005	D6-502	PTE6D5	811-005	28C1	AF Amp. Plate
D	220		S1220	D6-521	3W5755	GP2K-220	19C13	Audio Coupling
E	4000		P688-005	D6-502	PTE6D4	811-005	29C1	Output Plate Bypass
E7	.002	UCC-002	P688-002	D6-502	PTE6D2	GP2M-002	6TM-22	

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESIST. ANCE	WATTS	G. E. PART No.	IRC PART No.	CENTRALAB PART No.	
RIA	500KΩ	↓	RRC-107		AG-60-Z	Volume control Attach to RIA per instructions Not Req. Not Req.
B	Short		Not Req.		KSR-3 *	
C	Switch		Not Req.		SWB-2	

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	G. E.	IRC	
R2	100KΩ		URD-097	BTS-100K	Osc. Grid
R3	8200Ω		URD-071	BTS-8200	Screen Dropping
R4	3.3 Meg.		URD-133	BTS-3.3 Meg.	AVC Net.
R5	10 Meg.		URD-145	BTS-10 Meg.	AF Grid
R6	3.3 Meg.		URD-133	BTS-3.3 Meg.	AF Screen
R7	470KΩ		URD-113	BTS-470K	AF Plate
R8	3.3 Meg.		URD-133	BTS-3.3 Meg.	Output Grid
R9	20 Meg.		URD-1015	BTS-20 Meg.	Feedback
R10	1500Ω		URD-083	BTS-1500	Filament String
R11	820Ω		URD-047	BTS-820	Filament String

ITEM No.	EATING			REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE PAI	DC RES. PAI	SEC.	G. E. PART No.	STANCOCK PART No.	MERIT PART No.	CHICAGO PART No.	
TT	1105000	44	6600	RTO-070	A-3320	A-2932	RO-16	Ⓢ Drill one new mounting hole.

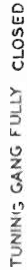
ITEM No.	RATINGS		REPLACEMENT DATA			INSTALLATION NOTES
	FIELD	V. C. IMP.	G. E. PART No.	JENSEN PART No.	QUAM PART No.	
SP1	PM	40	UOP-457	ST-113	4A07	
SP2	CONC DIA. 3 7/8"	V. C. DIA. 9/16"				

ITEM No.	USE	DC RES.		REPLACEMENT DATA	
		PRI	SEC	G. E. PART No.	MEISSNER PART No.
L1	Loop Ant.	1.6Ω	8.4Ω	RLC-035	
L2	Osc. Coil	2.8Ω	6.4Ω	RLC-101	14-1074 *
L3	1st IF	14Ω	17Ω	RTL-079	16-6668
L4	2nd IF	25Ω	25Ω	RTL-091	16-6669

* Add 50MMF from high side of tuning cap to grid

ITEM No.	VOLTAGE	G. E. PART No.	REPLACEMENT DATA				INSTALLATION NOTES
			EVEREADY "A"	"B"	"A.B"	BUXESS "B"	
M1	7.5V "A" 90V "B"				756		T0260

ITEM No.	PART NAME	G. E. PART No.	NOTES
52	2 Gang Var. Cap. Cabinet Knob Dial Pointer	RCT-036 RAU-308 RDK-136 RDP-050	(26-405MMF, [9-100MMF])



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