

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.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 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 $\pm 10\%$ in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

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

473-19

PHOTOFACT* Folder

GENERAL TELEVISION
MODEL 22A5C

GENERAL TELEVISION MODEL 22A5C



GENERAL TELEVISION MODEL 22A5C

TRADE NAME		General Television Model 22A5C				
MANUFACTURER		General Television & Radio Corp., 2701 Lehmann Ct., Chicago, Ill.				
TYPE SET		AC Operated Combination Radio-Phono with Self Contained Loop Antenna				
TUBES (FIVE)		Types, 14Q7 Converter, 14A7 IF Amp., 14B6 Det.-AVC-AF, 50A5 Power Output, 35Y4 Rectifier.				
POWER SUPPLY		110-120 Volts AC				
TUNING RANGE—		BROADCAST 540-1720KC		RATING		.240 Amps. @ 117V AC
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
To adjust pointer turn variable fully closed and set pointer parallel to line under 55 and 170. Use isolation transformer if available. If not, connect capacitor in series with low side of signal generator and chassis. Volume control should be at maximum volume and output of signal generator no higher than necessary to obtain output reading. Use insulated alignment screwdriver for adjusting.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1 MFD.	High side to station of rear section of variable. Low side to chassis.	455KC	Variable 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.
	Lcop	1600KC	1600KC	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	"	1400KC	tune for maximum output.	"	A6	"

DISASSEMBLY INSTRUCTIONS

1. Remove the receiver push-on type control knobs.
2. Remove four Phillips head screws from radio-phonograph switch plate. Slide plate and switch through hole in cabinet.
3. Remove the two hex head machine screws holding chassis to cabinet. Pull chassis out of cabinet just far enough to unsolder the phono-pickup leads and phono-motor leads from the radio-phonograph switch and terminal strip on chassis.
4. Remove chassis from cabinet.

HOWARD W. SAMS & CO., INC.

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GENERAL TELEVISION
MODEL 22A5C

PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		GENERAL TELE. PART No.	STANDARD REPLACEMENT		
1	Converter	1407	1407	9AL	
2	IF Amp.	1457	1457	9V	
3	Det.-AVC-AF	1456	1456	9V	
4	Power Output	50A5	50A5	6AA	
5	Rectifier	50Y4	50Y4	5AL	

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
		GENERAL TELEVISION PART No.	SPRAGUE PART No.	AEROVOX PART No.	CORNING DUBILIER PART No.	
6A	CAP. 40		EL-24	AF64DA1	UPVC591	Filter
7	150				TP4P1	S-4-1
8	200		TC-1	484-1	TP4P1	S-4-1
9	1		TC-1	484-1	TP4P1	S-4-1
10	400		TC-12	484-2	TP4S2	S-4-1
11	400		TC-11	484-01	TP4S1	S-4-01
12	400		TC-11	484-01	TP4S1	S-4-01
13	200		TC-15	484-38	TP4S5	S-4-05
14	280		1M-325	1488-0005	SW425	AVC Filter
15	800		1M-31	1488-0001	SW41	Audio Plate Bypass
16	100		1M-31	1488-0001	SW41	IF Bypass Diode
17	500		1M-31	1488-0001	SW41	Sec. Grid Capacitor

*Not used in all models.

†Do not use bypass section.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		GENERAL PART No.	MALLORY PART No.	IRC PART No.	CLAROSTAT PART No.	
18A	RESISTANCE 500KΩ	20-1	NR48	D13-133	M-60-Z	Volume Control
19	500KΩ	Not Req.	Not Req.	A	Not Req.	Attach to 18A per instructions.
20	500KΩ	Not Req.	Not Req.	41	SW-4	

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		GENERAL TELEVISION PART No.	IRC PART No.	
17	200KΩ		BTS-22K	Red-Blk.-Gr. Oscillator Grid
18	10 Meg.		BTS-10 Meg.	Br.-Blk.-Blue AVC Network
19	1 Meg.		BTS-1 Meg.	Br.-Blk.-Grn.
20	6 Meg.		BTS-5.6 Meg.	Blue-Blk.-Grn.
21	500KΩ		BTS-470K	Grn.-Blk.-Yl. AF Plate Load
22	500KΩ		BTS-470K	Grn.-Blk.-Yl. AF Plate Load
23	150KΩ		BA-4-150	Grn.-Grn.-Br. Output Cathode
24	2000Ω		BA-4-2000	Red-Blk.-Red Filter
25	10Ω		BA-4-10	Br.-Blk.-Blk. Line Dropping
26	220KΩ		BTS-220K	Red-Red-Yl. Series Photo.

TRANSFORMER (OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		GEN. PART No.	STANCOR PART No.	THORDARN PART No.		
	PRI.	SEC.	PRI.	SEC.					
27	21000	32	1700	.50		A-3576	T22345+	†Lead mounting tabs down, file out slots and mount on original bracket.	

PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA		INSTALLATION NOTES
		GENERAL TELEVISION PART No.	JENSEN TELEVISION PART No.	
28	100	8-1	81-107	
29	2"		Mod. P-5V	
				NOT READY TO REPLACE-USE COMPLETE SPEAKER UNIT.

R F COILS

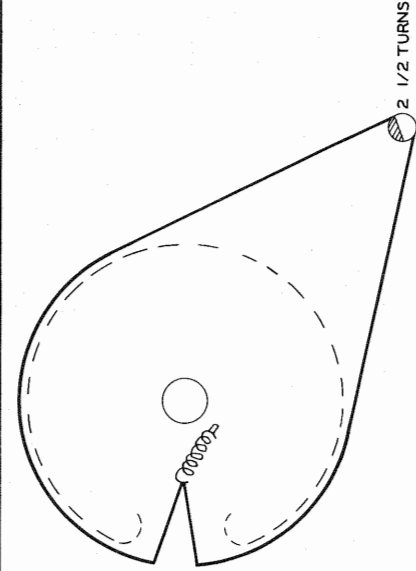
ITEM No.	USE	REPLACEMENT DATA		INSTALLATION NOTES
		DC RES. PRI. SEC.	GEN. TELEVISION PART No.	
30	Loop Ant.	1.5Ω	32.5	
31	Sec. Coil	6Ω	14-1040	
32	Input IF	10Ω	16-6668	
33	Output IF	10.5Ω	16-6669	

DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		INSTALLATION NOTES
				BEAD COLOR	GEN. TELEVISION PART No.	
34	Bayonet	6-8	0.15	Brown		Type 47

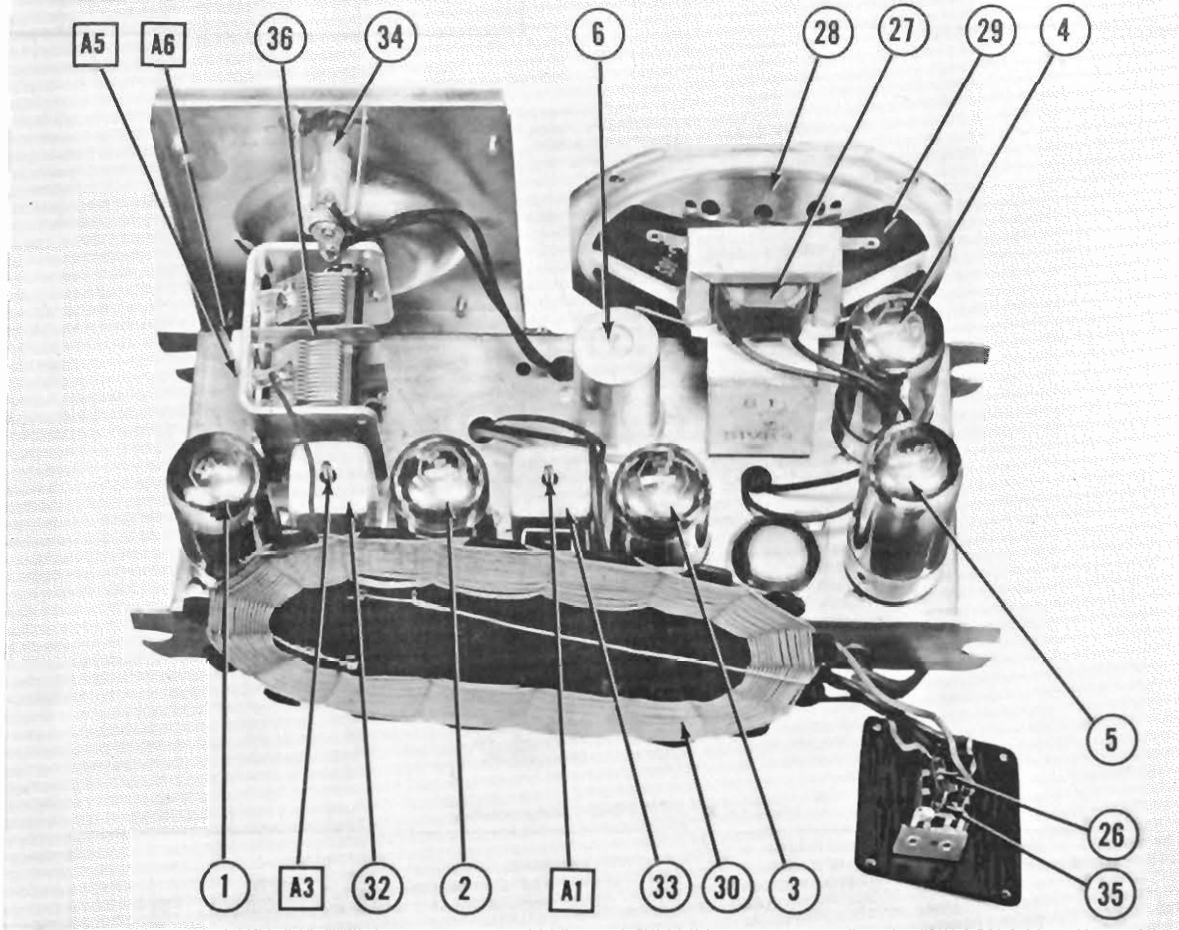
MISCELLANEOUS

ITEM No.	PART NAME	GEN. TELE. PART No.	NOTES
35	Switch		Radio-Phone.
36	2 Gang Var. Cap.		(20-474 pF, 33-191 pF)



DIAL CORD DRIVE

CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW

