

MODEL 501

(Chassis 5-B) GENERAL HOUSEHOLD UTILITIES CO.

Parts List

PARTS PRICE LIST
5B CHASSIS

Part No.	Description	No. Used in Set	List Price Each
20962	Grid Cap Only	3	.02
22333	Insulated Antenna Binding Post	1	.10
22856	Resistor, 25,000 Ohm, 1/4 Watt	1	.25
23358	Vertical Insulated Terminal	1	.05
23849	Resistor, 500,000 Ohm Carbon, 1/4 Watt	3	.25
23852	Resistor, 10,000 Ohm Carbon, 1/4 Watt	1	.25
23853	Resistor, 50,000 Ohm Carbon, 1/4 Watt	1	.25
23998	Resistor, 250,000 Ohm Carbon, 1/4 Watt	6	.25
24355	Condenser, 50 Mmf. Mica	1	.20
24416	Terminal Assembly	1	.03
24487	Condenser, 250 Mmf. Mica	1	.20
26198	Oscillator Transformer Shield Can	1	.10
26215	Tube Socket - 25Z5	1	.15
26216	Tube Socket - 43	1	.15
26217	Tube Socket - 75	1	.15
26218	Tube Socket - 78	1	.15
26219	Tube Socket - 6F7	1	.15
26247	I.F. Transformer Shield Can	2	.15
26564	Tube Shield Base	2	.10
26898	Tube Shield (Goat)	2	.10
27151	Electrolytic Filter Condenser Block	1	2.75
27153	Resistor, 100 Ohm, Wire wound	1	.20
27155	Resistor, 21 - 21 Ohm, Wire wound Tapped	1	.25
27163	Volume Control and Power Switch	1	1.10
27170	Tuning Condenser Assembly	1	2.75
27171	Volume Control Pilot Lamp Socket Assembly	1	.25
27182	Tuning Condenser Pilot Lamp Socket Assembly	1	.25
27184	Oscillator Transformer	1	.50
27185	1st I.F. Transformer	1	1.30
27186	2nd I.F. Transformer	1	1.75
27188	Oscillator Trimmer Condenser	1	.35
27330	Bypass Condenser Block (Replace with 28179)	1	2.50
27331	Filter Choke Assembly	1	1.10
27404	Power Cord	1	.70
27466	Control Knobs	2	.25
27643	Antenna Hank with Terminal	1	.35
27686	Antenna Transformer Assembly	1	1.15
27740	Selector Dial Assembly	1	.25
27741	Volume Control Dial Assembly	1	.25
27992	Resistor, 45 Ohm Wire Wound	1	.20
28045	Pilot Lamp	1	.15
28125	Insulated Ground Binding Post	1	.10
28127	Antenna Hank less terminal	1	.30
28179	Bypass Condenser Block (Replaces 27330)	1	2.50
28721	Condenser, Tubular, .01 Mfd. 400 Volt	4	.25
28723	Condenser, Tubular, .05 Mfd. 400 Volt	1	.25

SPEAKER PARTS

26321	Cone Head Assembly	1	2.70
27152	5" Electrodynamic Speaker	1	5.50
28435	Field Coil	1	1.10
28436	Bucking Coil	1	.30
28437	Output Transformer	1	1.40

COMPLETE SPEAKERS MAY NOT BE RETURNED FOR CREDIT.

MODELS 501,520,
530,550
Chassis 5B
Alignment

GENERAL HOUSEHOLD UTILITIES CO.

JUNE, 1935

SERVICE NOTES AND PARTS LIST

Grunow Radio

Chassis 5B

Models 501-520-530-550

GENERAL HOUSEHOLD UTILITIES COMPANY

31557-2

CHICAGO, U. S. A.

INTRODUCTION

The following characteristics apply to the GRUNOW output tube is a power amplifier pentode and is capable of producing large power output with a relatively small signal input. The rectifier tube is a 25Z5, the output of which is well filtered through the action of the speaker field and the 4, 8, and 20 mfd. electrolytic condensers.

This model is a 5-tube Super-Heterodyne Broadcast (550 to 1720 K.C.) Receiver using 1-78 tube as a 1st Detector, 1-6F7 tube as an I.F. Amplifier and Oscillator. 1-75 (Duplex-diode high mu triode) tube is used as a 2nd Detector or Signal Rectifier, delayed Automatic Volume Control (AVC) and high gain audio Amplifier. The 43 This receiver operates on either A.C. (alternating current) or D.C. (direct current) of 105 to 125 volts.

ALIGNMENT PROCEDURE CHASSIS 5B

Do not attempt to align the 5B Chassis without the proper equipment. Alignment condensers are shown in the accompanying illustrations and are numbered in order of procedure.

C—Align three I.F. trimmers (A1—A2—A3) located on under side of Chassis at base of I.F. Coils.

1. EQUIPMENT.

A—Test Oscillator.

A modulated oscillator capable of producing signals at 455 K.C., 600 K.C. and 1400 K.C. is necessary for alignment of the 5B Chassis.

B—Output Meter.

This may be any of the standard output meters on the market but should be sufficiently sensitive to provide a good deflection so that extremely strong signals may be read.

C—Coupling Means.

Coupling Condensers of 200 Mmf., 25 Mfd., should be used when coupling oscillator to receiver during alignment as specified in following paragraphs.

2. I. F. ALIGNMENT.

A—Connect signal lead of oscillator through .25 Mfd. condenser to grid of 78 tube (1st Detector Tube). The ground lead to ground post on rear of Chassis.

B—Place oscillator in operation at 455 K.C. and turn receiver volume control to maximum. (Volume Control should remain at maximum during entire alignment procedure and signal should be attenuated at oscillator to lowest value consistent with obtaining a readable indication on output meter).

3. DIAL CALIBRATION.

A—With condensers fully meshed dial pointer should be directly over end mark on dial.

B—When Chassis is removed from cabinet it will be necessary to simulate dial escutcheon which incorporates dial pointer.

4. 1400 K.C. ALIGNMENT.

A—Connect signal lead of oscillator through 200 Mmf. Condenser to antenna leading from Chassis.

B—Turn dial to 140 (1400 K.C.) and align 1400 K.C. oscillator trimmer (A4), located forward on variable condenser.

C—Align Antenna Trimmer (A5) which is the second trimmer on variable condenser.

5. 600 K.C. ALIGNMENT.

A—Place oscillator in operation at 600 K.C. Tune in signal (this does not have to be exactly on 600 Dial Setting).

B—Adjust 600 K.C. trimmer (A6) located on under side of Chassis directly under variable condenser) in direction of signal increase. Rocking dial knob through resonance until maximum output is obtained.

C—Recheck dial calibration: Over several points on dial.

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