

General Household Utilities Co.

Model: 761

Chassis:

Year: Pre October 1936

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

Riders Volume 7 - GRUNOW 7-20

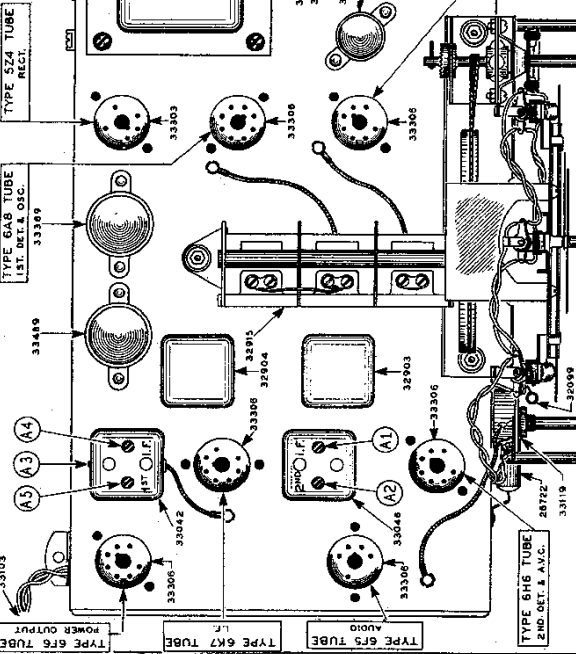
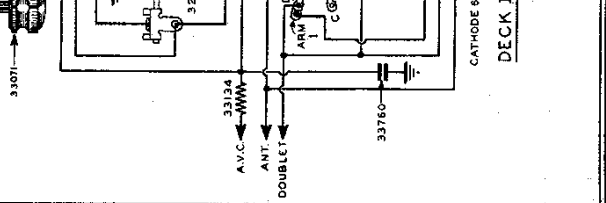
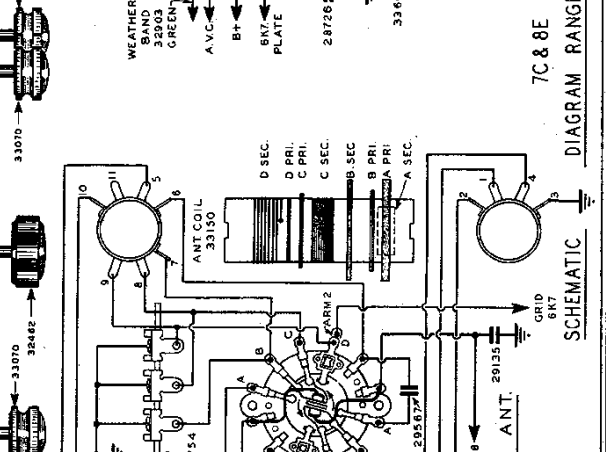
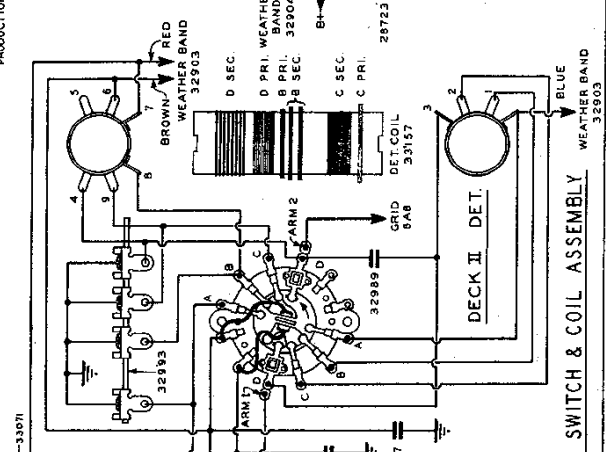
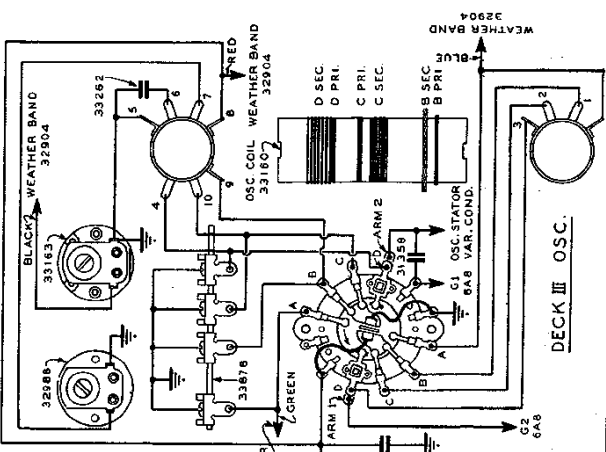
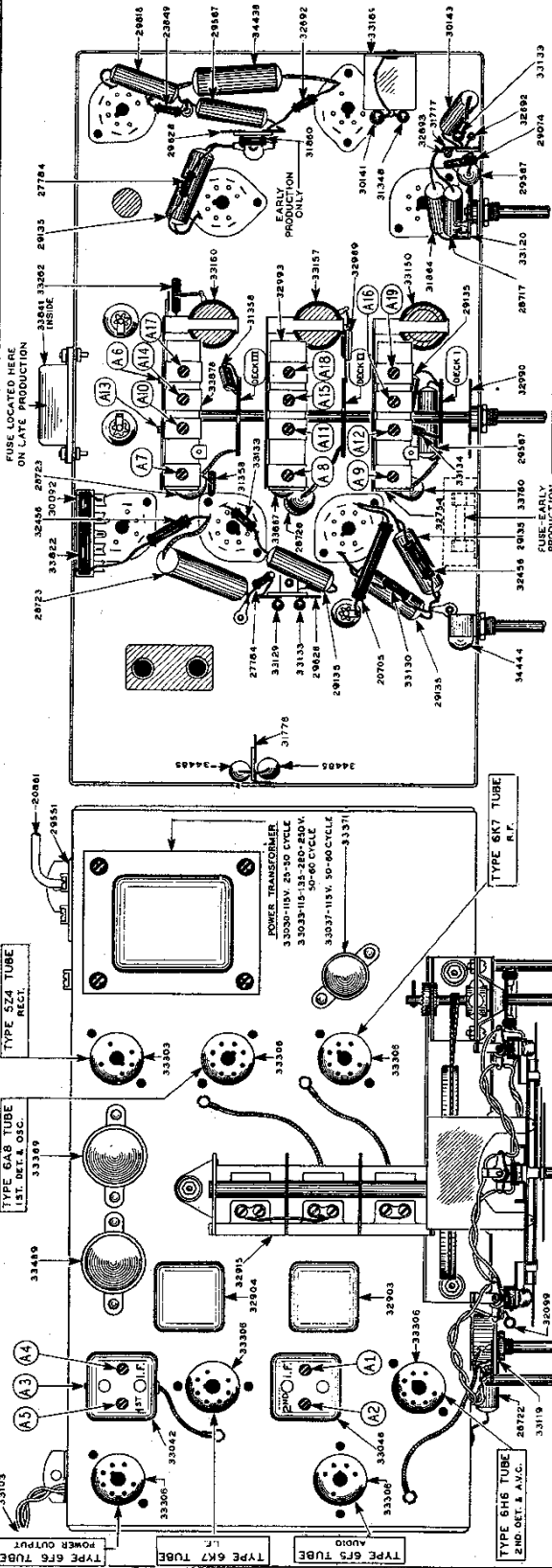
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MODELS 760, 761
Chassis 7C
Socket, Trimmers

GENERAL HOUSEHOLD UTILITIES CO.

Chassis, Switch &
Coil Assembly



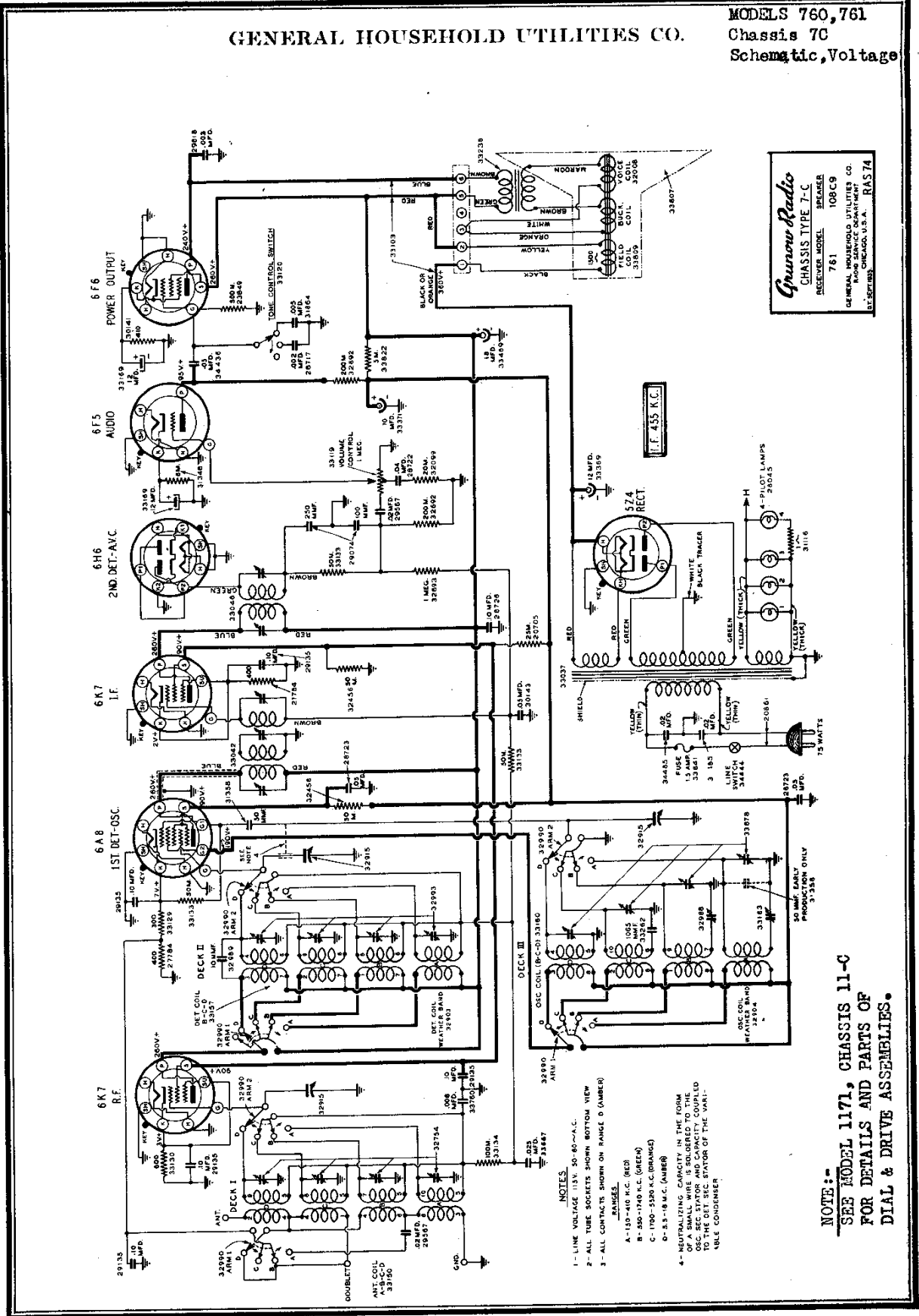
7C & 8E

DIAGRAM RANGE SWITCH & COIL ASSEMBLY

SCHEMATIC

GENERAL HOUSEHOLD UTILITIES CO.

MODELS 760, 761
Chassis 7C
Schematic, Voltage



Grunow Radio
Chassis TYPE 7-C
RECEIVER MODEL 761
761
108 C9
GENERAL HOUSEHOLD UTILITIES CO.
RADIO DIVISION
CHICAGO, U.S.A. RA574
E.F. RIDER

I.F. 455 K.C.

NOTES

- 1- LINE VOLTAGE 115V. 50-60-A.C.
- 2- ALL TUBE SOCKETS SHOWN BOTTOM VIEW
- 3- ALL CONTACTS SHOWN ON RANGE 0 (NUMBER) POSITION
- 4- NEUTRALIZING CAPACITY IN THE FORM OF A SMALL WIRE IS SOLDERED TO THE DET SEC. STATOR OF THE VARIABLE CONDENSER

NOTE:-
SEE MODEL 1171, CHASSIS 11-C
FOR DETAILS AND PARTS OF
DIAL & DRIVE ASSEMBLIES.

MODELS 760,761
Chassis 7C
Alignment, Parts

GENERAL HOUSEHOLD UTILITIES CO.

PARTS AND PRICE LIST
Model: 760,761 Chassis 7C

PART NUMBERS ARE GIVEN ON THE ILLUSTRATIONS AND THE NUMBERS ARE BROUGHT DOWN IN NUMERICAL ORDER FOR CONVENIENCE

Table with 5 columns: Part No., Description, No. Used, Price. Lists various components like resistors, capacitors, switches, and sockets.

SPEAKER PARTS
TYPE 108C9

Table with 5 columns: Part No., Description, No. Used, Price. Lists speaker parts like terminals, coils, and field coils.

SERVICE DATA

CONTINUITY AND VOLTAGE

Continuity and voltage readings should be taken from the underside of the chassis. The values given on the schematic diagram are average and allow the service man to make a quick check of the chassis constants.

THE RANGE SWITCH

The Range Switch is a simple three dect multiple pole, positive acting switch, used to connect the various coils into their proper circuits, and is designed in such a way that the coils being used are isolated from coils of all but two succeeding bands of a lower frequency.

CIRCUIT ALIGNMENT PROCEDURE

Do not attempt to align the 7C Chassis without proper equipment. Alignment components are shown in the accompanying illustrations, and are numbered in order of procedure - I.F. Condensers on top and side of the I.F. Transformers.

1. EQUIPMENT:

- (A) Test Oscillator.
(B) A regulated Oscillator capable of producing signals in the I.F., Broadcast, Short-Wave, and weather Band frequencies is necessary for alignment of the 7C Chassis.
(C) Output Meter.
(D) Coupling Meter.

Coupling Condensers of 200 mmf., .25 mfd., and a 400 Ohm resistor should be used when coupling oscillator to receiver during alignment as specified in the procedure.

2. DIAL SETTING:

Turn dial knob until condensers are fully meshed. The dial pointer (Hour hand) should be on the horizontal line of the dial, pointing to 9 and 3 o'clock.

3. I.F. ALIGNMENT:

- (A) Connect signal lead of test oscillator to grid of #43 (1st detector tube) through .25 mfd. condenser.
(B) Before any adjustment of circuit constants is attempted, allow the chassis to "heat up" to normal operating temperature.
(C) Set Dial pointer to 1400 K.C. and range switch on "Green" [No. 2] position.

4. 175 K.C. ALIGNMENT:

- (A) Connect signal lead of test oscillator through 200 mmf. Condenser to Antenna binding post on Chassis.
(B) Connect the test oscillator ground lead to the ground post of chassis.
(C) Place test oscillator in operation at 175 K.C.
(D) Tune in signal to maximum (this point does not have to be exactly at 175 K.C. dial setting) range switch on "Red" [No. 1] position.

of the detector circuit both the higher and lower frequency bands, above and below the circuit selected, are shorted out. This switching arrangement not only selects the proper coils for each band, but grounds the unused section, allowing the receiver to work at maximum sensitivity and selectivity on all four ranges.

The Range Switch and Coil Assembly is shown schematically in figure [3] and it will be noted that dect I (Antenna) is the center position and dect III (Oscillator) toward the rear of the chassis. The diagram shows the exact position of the coil and switch legs, and little difficulty should be experienced in making any necessary repairs or inspection.

Adjust the 175 K.C. Padding Condenser [A4] Fig. 2 (which is on rear of Chassis) in direction of signal increase. At the same time rack the tuning condenser back and forth through resonance while adjusting padding condenser, until maximum output is obtained.

Adjust Antenna Trimmer [A9] Fig. 2, to maximum output.

Adjust Antenna Trimmer [A9] Fig. 2, to maximum output.

Adjust Detector Trimmer [A15] Fig. 2, to maximum output.

Adjust Antenna Trimmer [A9] Fig. 2, to maximum output.

Check 175 K.C. Padder Condenser - See 4 - above.

1400 K.C. ALIGNMENT:

Place test oscillator in operation at 1400 K.C.

Turn dial pointer to 1400 K.C.

Turn range switch to range "Green" [No. 2] position.

Adjust broadcast oscillator trimmer [A10] Fig. 2, to maximum output.

Adjust 1st Det. Trimmer [A11] Fig. 2, to maximum output.

Adjust Antenna Trimmer [A12] Fig. 2, to maximum output.

600 K.C. ALIGNMENT:

Place test oscillator in operation at 600 K.C.

Tune in signal to maximum (this point does not have to be exactly at 600 K.C. dial setting).

Adjust the 600 K.C. Padding Condenser [A13], Fig. 2, which is on rear of Chassis, in direction of signal increase. At same time rack the tuning condenser back and forth through resonance while adjusting padding condenser until maximum output is obtained.

1400 K.C. ALIGNMENT: See 7 above.

5000 K.C. ALIGNMENT:

Set range switch to "Orange" [No. 3] position.

Place test oscillator in operation at 5000 K.C.

Turn dial pointer to 5000 K.C.

Adjust Set Oscillator Trimmer [A14], Fig. 2, to maximum output.

Adjust Detector Trimmer [A15] Fig. 2, to maximum output.

Adjust Antenna Trimmer [A16], Fig. 2, to maximum output.

18 M.C. ALIGNMENT:

Connect signal lead of test oscillator through 400 Ohm resistor to Antenna binding post of Chassis.

Connect the ground lead to ground terminal of Chassis.

Place Range Switch to "Amber" [No. 4] position and turn dial pointer to 18 M.C.

Place Test Oscillator in operation at 18 M.C.

Adjust set oscillator Trimmer [A17] Fig. 2, to maximum output.

Adjust Detector Trimmer [A18] Fig. 2, to maximum output.

Adjust Antenna Trimmer [A19] Fig. 2, to maximum output.

On the 18 M.C. Oscillator Alignment it will be noted that there are two settings at which the signal will be received. Use the lower of the images for alignment point, that is, the setting giving most copacity or the point of which the trimmer screw is farthest in.

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