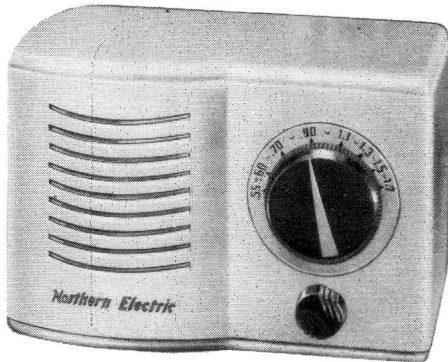


Model 450

Radio Receiver

Specifications



Frequency Range:
.535 to 1.712 M.C.
Broadcast Only

Tubes:

Type	Position
12K7GT	R-F Amplifier
12SJ7	Detector
50L6GT	Power Output
35Z5GT	Rectifier

Power Supply:
110-125 volts, 25-60 cycle
110-125 volts D.C.
Consumption: 25 watts

Controls:

Two: large knob with embossed arrow, tuning; small knob below it, volume and power switch.

Power Output:
1.5 watts

Loudspeaker:
4" E.D.

Dial:

(Knob) Illuminated large circular marked in megacycles. Red coloured for Ivory Cabinet and brown for Walnut Cabinet.

Dial Lamp:

6.3 volt—250 mil.

Audio:

50L6GT Resistance—capacitance coupled.

Antenna:

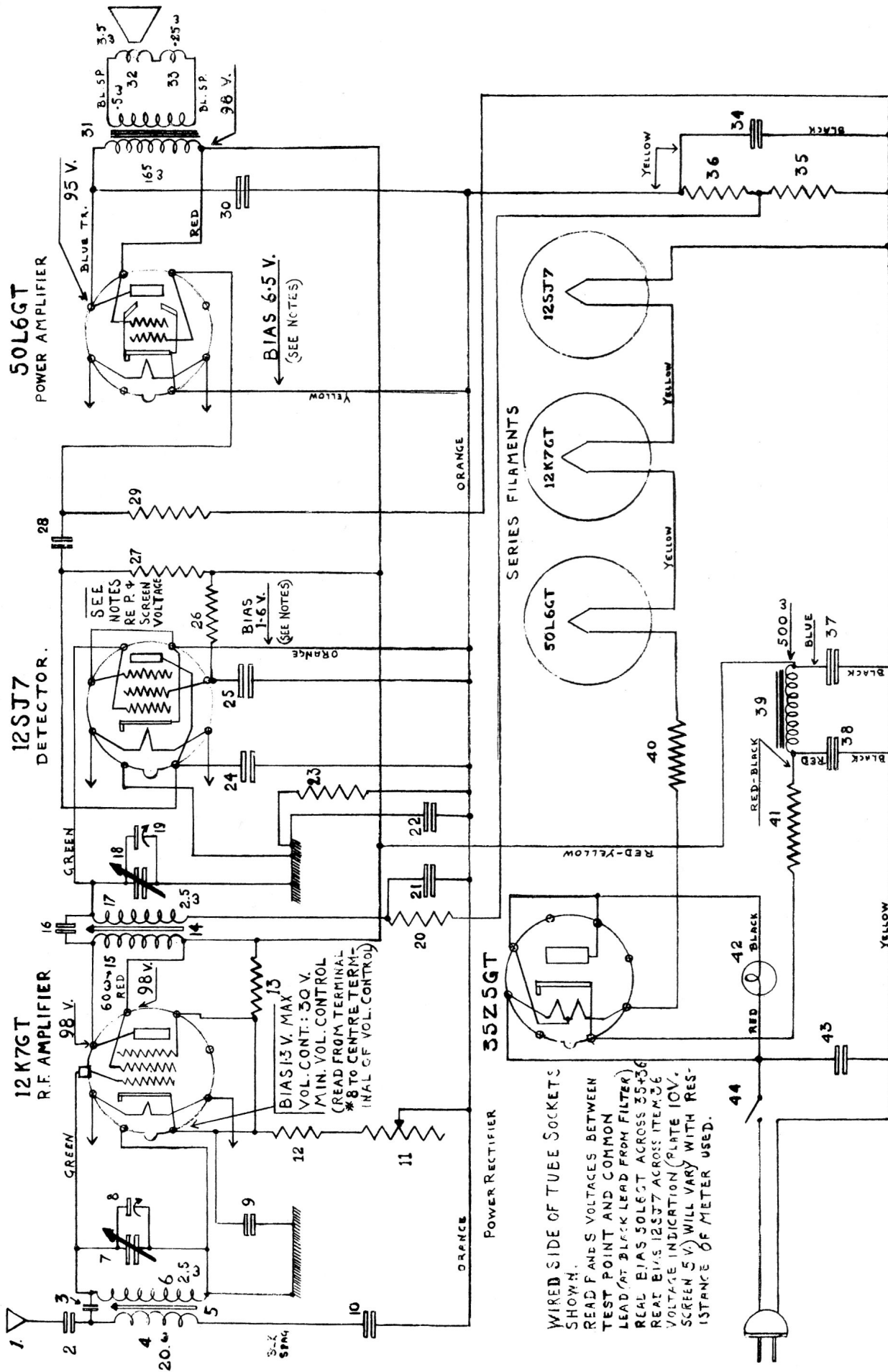
25 ft. insulated wire (#23) permanently connected.

Dimensions:

Chassis: Length 6-13/16", Breadth 3-5/8", Depth 1-15/32".
Cabinet: Ivory 8-9/16" x 5-1/2" x 4-7/8";
Walnut 8-7/8" x 5-7/8" x 4-1/8".

Cabinets:

"I" Cabinet finished in glossy ivory
"W" Cabinet walnut finish.



SCHEMATIC DIAGRAM MODEL 450-I (or W) UNIVERSAL

MODEL 450 RADIO RECEIVER

REPLACEMENT PARTS LIST

Item	Description	Part No.	Item	Description	Part No.
1	Antenna Wire (25' #23 Flex.)	K-5047	36	Resistor: 40 ohms, 1/2 Watt	K-2252-32
2	Capacitor .007 mf. 400 Volt	K-2228-13	37	Capacitor: 40 mf. 150 Volt)	Part of
3	Capacitor 7 mmf. mica	K-1611-32	38	Capacitor: 40 mf. 150 Volt)	K-5438
4-6	Antenna coil and core	K-5440	39	Loudspeaker field, Part of	K-5001-2
7-8	Tuning Gang and trimmer 0-356 mmf. Part of	K-5445	40	Resistor: 50 ohms, 10 Watt	K-4300-16
9	Capacitor .1 mf. 200 Volt	K-2227-9	41	Resistor: 35 ohms, 1/2 Watt	K-2252-28
10	Capacitor: .007 mf. 400 Volt	K-2228-13	42	Dial Lamp: 250 Mil	K-2589-3
11	Volume Control .1 meg. Var. (with switch)	K-5454	43	Capacitor .03 mf. 400 Volt	K-2228-18
12	Resistor: 100 ohm 1/2 Watt	K-2252-3	44	Power On-Off Switch, Part of Item 11	
13	Resistor: .1 meg. 1/2 Watt	K-2226-5	MISCELLANEOUS		
14-17	R-F Transformer	K-3693-2		Cabinet Back Cover	K-5436
16	Capacitor: 10 mmf. mica	K-1611-4		Speaker less O.T. and Bracket	K-5001-2
18-19	Tuning Gang and trimmer 0-356 mmf. Part of	K-5445		Sockets	K-4944
20	Resistor: 2.0 meg. 1/2 Watt	K-2226-1		Extruded Ins. Washer	K-4988
21	Capacitor: .1 mf. 200 Volt	K-2227-9		Standoff Ins. (Double)	K-1683-1
22	Capacitor: .1 mf. 200 Volt	K-2227-9		Standoff Ins. (Single)	K-2594
23	Resistor: .1 meg. 1/2 Watt	K-2226-5		Dial Scale	K-5453
24	Capacitor: 200 mmf. mica	K-1611-3		Dial Lamp Socket and Leads	K-5003
25	Capacitor: .05 mf. 200 Volt	K-2227-8		Grid Clip	K-3030-2
26	Resistor: 2.0 meg. 1/2 Watt	K-2226-1		Fibre Antenna Spool	K-5046
27	Resistor: 1/2 meg. 1/2 Watt	K-2226-3		Antenna Wire (25 feet)	K-5047
28	Capacitor: .01 mf. 200 Volt	K-2227-6		Felt Feet	K-4995
29	Resistor: 1/2 meg. 1/2 Watt	K-2226-3		Tuning Knob (Walnut)	K-5451-1
30	Capacitor: .03 mf. 400 Volt	K-2228-18		Tuning Knob (Red)	K-5451-2
31	Output Transformer	K-5008-2		Volume Knob (Walnut)	K-5176-1
32	Voice Coil (& Diaphragm)	K-5437		Volume Knob (Red)	K-5176-2
33	Hum Coil Part of Item 39			Recessed Head Screws for Back } Cover Mounting	K-3746-3
34	Capacitor: 20 mf. 25 V. Part of	K-5438		Back Cover Corner Screws	K-4026-4
35	Resistor: 135 ohm, 1/2 Watt	K-2252-26		Dial Scale Mounting Pin	K-3967
				Instruction Folder (English and French combined)	K-5443

REALIGNING DETAILS

- (1) Connect generator ground lead to common cathode circuit. This lead must remain in this position throughout.
- (2) Connect generator through .1 mf. capacitor to grid of R-F tube (at front section of tuning gang). Set generator to 1712 K.C. and with gang wide open, adjust C-19 (rear section trimmer) for maximum signal. Set generator to 535 K.C. and with gang closed, adjust core of R-F transformer, Item 14, for maximum signal.
- (3) Connect generator to the antenna through a 100-mm.f. capacitor. Set generator and dial 1600 K.C. While "rocking" the gang, adjust front gang trimmer, item C-8, for maximum signal. Set generator and dial to 600 K.C. Again "rock" gang while adjusting antenna coil core, item C-5, for maximum signal.

- IMPORTANT NOTES:** (1) Partial base-plate shielding by means of small metal plate having breadth of set base-plate but only half its length, must be used during alignment. If a plate is not immediately available, remove screws retaining set base-plate and use it loose changing its position only to permit access clearance to both cores, items 5 and 14.
- (2) Black common lead from filter capacitor should be placed close to fibre core of R-F transformer and midway between secondary and square fibre base of coil. If there is a tendency to oscillation, this lead should be moved nearer to fibre base and away from coil.
 - (3) 110 V. AC lead from twin cord to switch should be located well up in corner between volume control and side of chassis base.