

MODEL 41-84, CODES 121 AND 122

SPECIFICATIONS

Models 41-84, Codes 121 and 122 are five tube portable battery or 115 volt A. C.-D. C. operated superheterodyne radio covering standard broadcast frequencies. In general, Codes 121 and 122 are similar with the exception of the Tube types, Code 121 uses LOKTAL tubes and 122, OCTAL tubes.

Each Code of this Model includes a self-contained loop aerial; permanent magnet speaker; pentode audio output stage and an automatic volume control circuit.

TUNING RANGE: 540 to 1600 K. C.

INTERMEDIATE FREQUENCY: 455 K. C.

PHILCO TUBES USED:

Code 121; 1LA6, converter; 1LN5, I. F. amplifier; 1LA4, audio output; 117Z6G, Rectifier.

Code 122; 1A7G, converter; 1N5G, I. F. amplifier; 1H5G, 2nd detector, 1st audio; 1A5G, Radio output; 117Z6G, rectifier.

POWER SUPPLY AND BATTERIES: 115 volts, A. C.-D. C. or a Philco combination A-B battery pack type P60A-8F4.

For portable battery operation wrap the powerline cord around its holder clamp on the back of the cabinet and insert the plug end into the slots provided on the chassis.

To install the battery remove the back by pulling it out gently at the top and lifting up. Care should be taken not to loosen the wires attaching the loop antenna to the chassis when inserting the battery.

Observe the arrangement of the pins on the plug of the battery cable and the corresponding holes in the socket of the battery so you will be sure to insert them correctly. Insert the plug into the battery firmly.

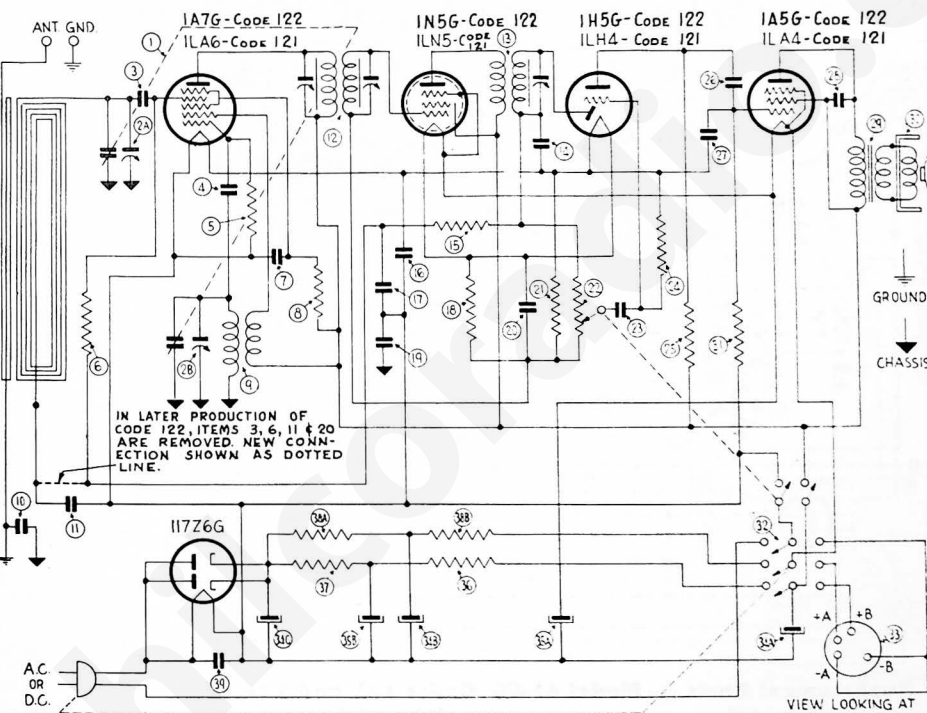
To operate on a 115 volt A. C.-D. C. power supply remove the power line cord plug from the slots on the chassis and insert into a power receptacle.

EXTERNAL AERIAL AND GROUND

An especially designed loop antenna is built into the cabinet for portable use. For maximum performance, however, in permanent or semi-permanent installations, such as regular camps, in the home, etc.) provisions have been made in the radio to connect regular outside antenna. Two leads are located on the inside of the cabinet. Connect the aerial lead to the white wire and the ground lead to the black wire. These leads are readily accessible when the cabinet back is snapped

off. A good ground connection is essential when an outside aerial is used.

External loop aerial connections are also provided on the side of the cabinet for connecting an additional portable loop aerial. The external aerial should be used, on trains, hotels, or other locations where signal strength is weak. The Philco Auxiliary Aerial, Part No. 45-2805 is especially designed for installations of the Type.



PRODUCTION CHANGES--- MODEL 41-84, CODE 122

The following changes were made in later production of Model 41-84, Code 122 to improve the operating performance. Condenser ⑩ 110 mmfd., Resistor ⑩, 1 megohm, Tubular Condenser ⑩, .1 mfd. and Tubular Condenser ⑩, .01 mfd. were removed. The low side of the loop aerial was reconnected as indicated by the dotted line on the diagram. The 1st I. F. transformer ⑩ was also changed from Part No. 32-3384 to Part No. 32-3533.

Replacement Parts — Model 41-84, Codes 121 and 122

SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.
1	Tuning Condenser	31-2438	28	Mica Condenser (.660 mmf.)	60-166127		Grommet (Tuning Cord Mounting)	27-4596
2	Padder	31-6246	29	Output Transformer	32-8100		Knob Assembly (Code 121)	27-4232
3	Mica Condenser (110 mmf.)	60-111157	30	Speaker	36-1506		Knob Assembly (Code 122)	27-4970
4	Mica Condenser (110 mmf.)	60-111157	31	Cone Assembly (for Speaker 36-1506-1)	36-4158		Socket (Rectifier)	27-6137
5	Resistor (240,000 ohms, 1/4 watt)	33-422154	32	Cone Assembly (for Speaker 36-1506-1)	33-522154		Socket (R. F. I. F., Audio) Code 121	35-0575
6	Resistor (1 meg., 1/4 watt)	33-510154	33	Automatic Switch	42-1553		Socket (R. F. I. F., Audio) Code 122	27-6138
7	Tubular Condenser (.05 mfd., 400 volts)	30-4518	34	Battery Cable	41-3526		Speaker	36-1506
8	Resistor (3300 ohms, 1/4 watt)	33-333154	35	Electrolytic Condenser (20 mf., 150 volts)	30-2452		Tube Shield	36-1566
9	Oscillator Transformer	32-4224	36	Resistor (1500 ohms, 1/2 watt)	33-215334		Tube Shield Clip	36-1567
10	Tubular Condenser (.0015 mf., 200 volts)	30-4555	37	Resistor (1500 ohms, 1/2 watt)	33-215334		Terminal Panel (External Loop)	27-6141
11	Tubular Condenser (.1 mf., 400 volts)	30-4452	38	Filament Resistors	33-215334		Screw (Mounting Terminal Panel)	W-685
12	1st I. F. Transformer	32-3384	39	Tubular Condenser (.05 mf., 400 volts)	33-3387			
13	2nd I. F. Transformer	32-3266						
14	Mica Condenser (.110 mmf.)	60-111157						
15	Resistor (4.7 meg., 1/4 watt)	33-547154						
16	Tubular Condenser (.10 mf., 400 volts)	30-4518						
17	Tubular Condenser (.05 mf., 400 volts)	30-4518						
18	Resistor (3300 ohms, 1/2 watt)	33-413334						
19	Tubular Condenser (.25 mf., 400 volts)	30-4604						
20	Tubular Condenser (.01 mf., 400 volts)	30-4572						
21	Resistor (3300 ohms, 1/2 watt)	33-233334						
22	Volume Control (1 meg.)	33-5390						
23	Tubular Condenser (.01 mf., 400 volts)	30-4572						
24	Resistor (4.7 meg., 1/4 watt)	33-547154						
25	Resistor (1 meg., 1/4 watt)	33-510154						
26	Tubular Condenser (.01 mf., 400 volts)	30-4572						
27	Mica Condenser (110 mmf.)	60-111154						