

MODEL 41-81, CODE 121

SPECIFICATIONS

Model 41-81, Code 121 is a four (4) tube portable battery operated superheterodyne. Included in this model are a self-contained loop aerial; permanent magnet speaker; pentode audio output stage, and automatic volume control.

In addition connections are provided for an external aerial and ground.

TUNING RANGE: 540 to 1600 K. C.

INTERMEDIATE FREQUENCY: 455 K. C.

PHILCO TUBES USED: 1A7G, converter; 1N5G, I. F. amplifier; 1H5G, 2nd detector, 1st audio; 1A5G, audio output.

BATTERIES REQUIRED: One Philco type P41A4G combination A-B battery.

VOLTAGE AND CURRENT CONSUMPTION: "A" 1.5 volts, 200 Ma
"B" 90 volts, 5.6 Ma

To install the battery, remove the two back mounting screws. Then, 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.

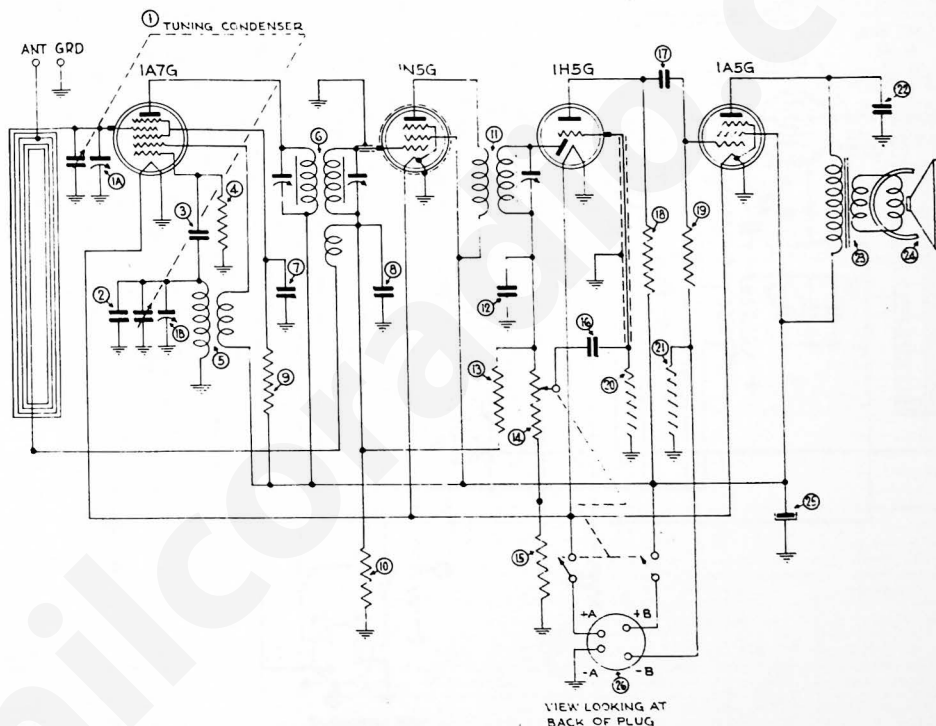
Observe the arrangement of the pins on the plug of the battery cable and the corresponding holes in the socket of the battery, so you will be sure to insert them correctly. Insert the plug into the battery socket facing the chassis.

Replace the back of the cabinet with the screws making sure both of them are screwed in tight.

EXTERNAL AERIAL AND GROUND

For maximum performance in permanent or semi-permanent installations (such as regular camps, etc.) provisions have been made on the radio to connect a regular outside aerial. Connect the aerial lead-in under the left hand cabinet-back mounting screw, and the ground lead under the right hand cabinet-back mounting screw. A good ground 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. 45-2807 is especially designed for installations of this Type.



Replacement Parts — Model 41-81

SCHEM. No.	DESCRIPTION	PART No.	SCHEM. No.	DESCRIPTION	PART No.	SCHEM. No.	DESCRIPTION	PART No.
1	Tuning Condenser	31-2455	17	Tubular Condenser (.004 mf., 400 V.)	30-4578		Clip (Cooil Mtg.)	28-5002
2	Mica Condenser (10 mmf.)	60-010157	18	Resistor (2.2 meg., 1/4 watt)	33-522154		Dial Scale	27-5578
3	Mica Condenser (110 mmf.)	60-111157	19	Resistor (4.7 meg., 1/4 watt)	33-547154		Screw (Scale Mtg.)	97-0111
4	Resistor (220,000 ohms, 1/4 watt)	33-422154	20	Resistor (4.7 meg., 1/4 watt)	33-547154		Drive Cord Assembly	31-2411
5	Oscillator Transformer	32-3425	21	Resistor (680 ohms, 1/2 watt)	33-168321		Drive Shaft	76-1036
6	1st I. F. Transformer	32-3265	22	Mica Condenser (660 mmf.)	60-160157		Spring (Tuning Cord)	28-8751
7	Tubular Condenser (.01 mf., 400 V.)	30-4572	23	Output Transformer	32-8062		Pointer	27-4891
8	Tubular Condenser (.05 mf., 200 V.)	30-4519	24	Speaker	36-1481		Knob	27-4970
9	Resistor (33,000 ohms, 1/4 watt)	33-333154		Cone Assembly	36-4121		Socket	27-6133
10	Resistor (4.7 megs., 1/4 watt)	33-547154	25	Electrolytic Condenser (10 mf., 150 V.)	30-2396		Speaker	36-1481
11	2nd I. F. Transformer	32-3266	26	Battery Cable	41-3487		Tube Shield (1N5G Tube)	56-1566
12	Mica Condenser (250 mmf.)	60-125157					Tube Shield Grounding Clip	56-1567
13	Resistor (10 megs., 1/4 watt)	33-610154					Terminal Panel	38-8323
14	Volume Control (1 meg.)	33-5389					Washer (Chassis Mtg.)	W-410
15	Resistor (6800 ohms, 1/2 watt)	33-268344					Screw (Chassis Mtg.)	W-2067
16	Tubular Condenser (.004 mf., 400 V.)	30-4578					Terminal Panel	38-8323

MISCELLANEOUS PARTS

Cabinet 10477A
(Screw 1 Back Mtg.) W-2188