

PHILCO RADIO & TELEVISION CORP. MODEL 40-81 (121, 122 MODEL 40-81T, CSL MODEL 40-82 (121) MODEL 40-83

Model 40-82, Code 121, is a 4-tube portable battery operated superheterodyne radio and covers the standard broadcast frequency range from 540 to 1550 K. C. This Model is similar to Philco Model 40-81, Code 122, with the exception of the cabinet, and several of the replacement parts.

The following service data listed for Model 40-81, Code 122, also applies to Model 40-82, Code 121. The parts used in 40-82 which differ from those shown for Model 40-81, Code 122, are as follows:

Knob	27-4876
Pointer	27-4891
Scale	27-5556
Tuning Condenser	31-2432
Grille Screen	56-1235
Cabinet	10480A

MODEL 40-83

Model 40-83 is similar to Model 40-81, Code 122, with the exception of the following parts:

Grille Screen	56-1539
Scale	27-5556
Pointer	27-5556

The service data listed for Model 40-81, Code 122, applies to Model 40-83.

MODEL 40-81, CODES 121-122

To improve the padding at 1500 K. C., condenser (2) 25 mmfd. Part No. 30-1137 changed to 16 mmfd. Part No. 61-0038.

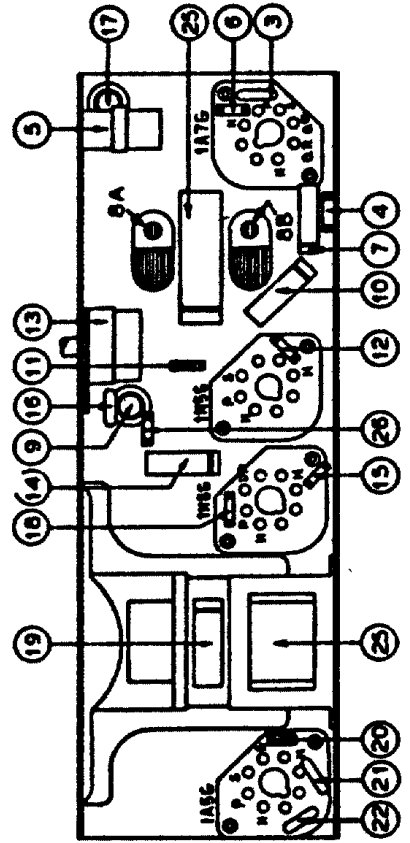
Tuning condenser, dial scale, and pointer changed on later production receivers. These changes are as follows:

	Early Production	Later Production
(8) Tuning Condenser	31-2402	31-2432
Dial Scale	27-5538	27-5561
Pointer	56-1326	27-4891

MODEL 40-81, CODE 122

To improve the operating characteristics of the receiver at 550 K. C. and prevent oscillation the following items should be observed:

1. The loop wire going to the 1A7 grid, the wire from the 1A7 grid to the wiring panel, and the wire from the tuning condenser antenna section lug to the wiring panel must be kept as far away from the 1A7 tube as is possible.
2. The second I. F. Shield must be tightly fastened to the sub-base so that no openings exist between the base and the bottom of the shield.

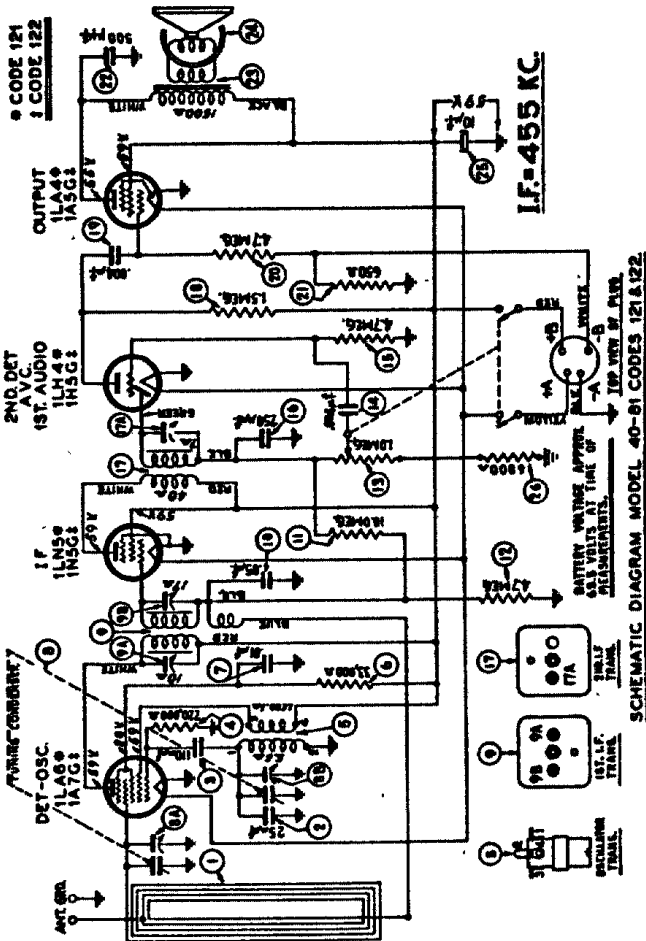


PART LOCATIONS, UNDERSIDE OF CHASSIS, MODEL 40-81

FOR ALIGNMENT
SEE INDEX

BATTERY CURRENT:
"A" Battery, 200 M. A.

"B" Battery, 5.6 M. A.



Models 40-81, Codes 121 and 122 are 4 tube portable battery operated superheterodyne receivers. These receivers are similar with the exception of the type tubes used. Incorporated in the receiver is a self-contained loop aerial and an extremely sensitive permanent magnet field speaker. In addition terminals are provided for connection an outside aerial and ground. The receiver is operated from a self-contained A-B battery pack.

TUNING RANGE: 540 to 1550 K. C.
INTERMEDIATE FREQUENCY: 455 K. C.

SCHE. No.	DESCRIPTION	PART No.	DESCRIPTION	PART No.
1	Loop Assembly (Part of Cabinet)	10413A	Knob (Volume and Tuning)	27-4876
2	500 ohm Resistor (15 mmfd.)	61-0028	Pointer	27-4891
3	500 ohm Resistor (15 mmfd.)	26-1631	Speaker	30-1401
4	Resistor (250,000 ohms, 1/2 watt)	32-42339	Shield (Tube, Code 122)	56-1506
5	Resistor (250,000 ohms, 1/2 watt)	32-3277	Sockets (Leak, Code 121)	56-0575
6	Resistor (250,000 ohms, 1/2 watt)	32-3277	Sockets (Rental, Code 122)	27-2132
7	Tubular Condenser (.01 mfd.)	32-32329	Spring (Drive Cord)	26-0791
8	Tuning Condenser Assembly	31-2432	Tuning Shaft Assembly	30-0575
9	1st I. F. Transformer Assembly	32-3058		
10	Tubular Condenser (.02 mfd.)	30-0810		
11	Resistor (10,000 ohms, 1/2 watt)	32-01030		
12	Resistor (6.7 meg., 1/2 watt)	32-04729		
13	Volume Control and On-Off Switch	32-5331		
14	Tubular Condenser (.004 mfd.)	30-0575		
15	Resistor (4.7 meg., 1/2 watt)	32-04729		
16	500 ohm Resistor (250 mmfd.)	61-0023		
17	2nd I. F. Transformer Assembly	32-3058		
18	Resistor (1.5 meg., 1/2 watt)	32-51929		
19	Tubular Condenser (.004 mfd.)	32-04729		
20	Resistor (4.7 meg., 1/2 watt)	32-04729		
21	Resistor (500 ohms, 1/2 watt)	32-10929		
22	500 ohm Resistor (250 mmfd.)	30-1114		
23	Output Transformer	32-0002		
24	Bone and Voice Coil Assembly	30-0181		
25	Electrolytic Condenser (10 mfd., 150 V.)	30-2394		
26	Resistor (5000 ohms, 1/2 watt)	32-00039		

MODEL 40-81T, CSL

Cabinet	10413C
Knob	27-4876
Pointer	27-4891
Scale	27-5556
Tuning Condenser	31-2432
Grille Screen	56-1235
Cabinet	10480A

This model is the same as 40-81, Code 122, with the exception of the above parts.