

MODELS PT-43, Codes 121-122; and PT-55

SPECIFICATIONS

Models PT-43 and PT-55 are five tube superheterodyne radios, covering a frequency range from 540 to 1580 kilocycles (K. C.) on the broadcast band and 2.3 to 2.5 megacycles (M. C.) on the local police range. Each model is equipped with a loop aerial, built into the rear of the cabinet for portable use and does not require an outside aerial under average receiving conditions. Connections are also provided on the rear of the cabinet for attaching an outside aerial to obtain maximum performance in locations where signal strength is weak; such as in apartment houses, hotels and other shielded locations.

If an outside aerial is necessary, the Philco Utility Aerial, Part No. 40-6384, is recommended.

These models are similar with the exception of the cabinets. The circuit diagram and parts list shown below apply to both models.

INTERMEDIATE FREQUENCY: 455 K. C.

POWER SUPPLY: Operates on either a 115 volt alternating current (A. C.) or 115 volt direct current (D. C.) power supply.

Note—If no sound is heard on D. C. circuits, after the tubes are sufficiently heated, reverse the power plug. If a slight hum is heard when operating on an A. C. power supply, the power plug should be reversed.

PHILCO TUBES USED: One 7A8, converter; one 7B7, I. F. amplifier; one 7C6, 2nd detector, 1st audio, A. V. C.; one 35A5, audio output and one 35Z3, rectifier.

ALIGNING PROCEDURE: The instructions for adjusting the R. F. and I. F. compensators will be found on page 6.

PRODUCTION CHANGES

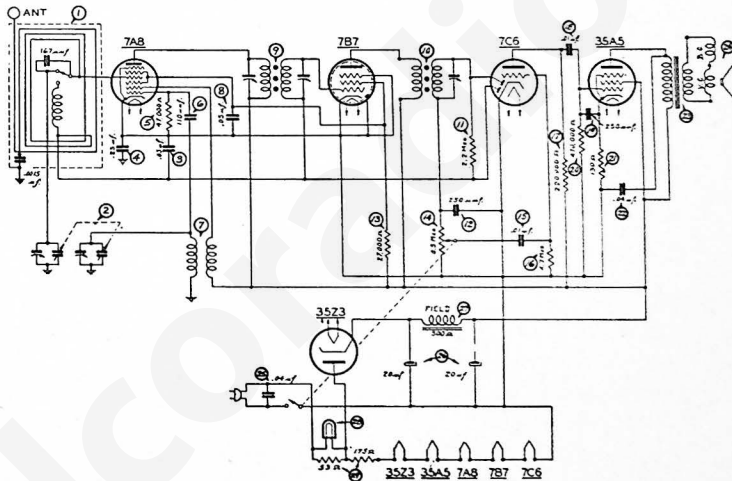
MODEL PT-43

Code number changed from 121 to 122 in addition to several part changes. These are as follows:

	Code 121	Code 122
Loop Aerial Ass'y	38-9936	32-3402
Tuning Condenser	31-2436	31-2446

PRODUCTION CHANGE

To stabilize the oscillator circuit and prevent oscillation at the high frequency end of the tuning dial, the oscillator grid leak was changed from 47000 ohms to 22000 ohms.



REPLACEMENT PARTS

SCH. No.	DESCRIPTION	PART No.	SCH. No.	DESCRIPTION	PART No.	SCH. No.	DESCRIPTION	PART No.
1	Loop Antenna Assembly		18	Tubular Condenser (.01 mf., 400 v.)	30-4572S		Clip (Coil Mounting)	28-5002
	(Code 121)	38-9936	19	Mica Condenser (250 mmf.)	61-0038		Cone Assembly	
	PT-43 (Code 122)	32-3402	20	Resistor (470,000 ohms, 1/4 watt)	33-447154		(for Speaker 36-1469-1)	36-4115
2	Tuning Condenser		21	Resistor (130 ohms, 1/2 watt)	33-113338		(for Speaker 36-1469-9)	36-4113
	(Code 121)	31-2436	22	Tubular Condenser (.04 mf., 400 v.)	30-4119S		(for Speaker 36-1469-2)	36-4132
	PT-43 (Code 122)	31-2446	23	Output Transformer			Drive Arm (Pointer Drive)	56-1376
3	Tubular Condenser (.05 mf., 200 v.)	30-4519S		(for Speaker No. 36-1469-1)	32-8047		Drive Drum	56-6033
4	Tubular Condenser (.25 mf., 400 v.)	30-4604S		(for Speaker No. 36-1469-2)	32-8044		Drive Cord	31-2358
5	Resistor (47,000 ohms, 1/4 watt)	33-347154		(for Speaker No. 36-1469-9)	32-8044		Drive Shaft	31-2370
6	Mica Condenser (110 mmf.)	30-1130	24	Speaker	36-1469		Grille Silk and Baffle	40-6452
7	Oscillator Transformer	32-3182	25	Tubular Condenser (.04 mf., 400 v.)	30-4119S		Grille Silk and Gasket	
8	Tubular Condenser (.05 mf., 200 v.)	30-4519S	26	Electrolytic Condenser			(PT-43, Code 121)	40-6451
9	1st I. F. Transformer	32-3177	27	Field Coil,	Part of Speaker No. 36-1469		Handle (PT-55, Code 121)	45-6082
10	2nd I. F. Transformer	32-3178	28	Pilot Lamp	84-2068		Knob Assembly	27-4899
11	Resistor (2.2 megs., 1/2 watt)	33-522154	29	Line Resistor	33-3367		Mounting Clip	28-5002
12	Mica Condenser (250 mmf.)	61-0033					Rubber Tubing (Drive Arm)	27-9334
13	Resistor (27,000 ohms, 1/2 watt)	33-327334					Spring (Drive Cord Assembly)	28-8751
14	Volume Control (500,000 ohms)	33-3308					Socket Assembly (Pilot Lamp)	38-9825
15	Tubular Condenser (.01 mf., 200 v.)	30-4479S					Socket (Tubes)	27-6130
16	Resistor (4.7 megs., 1/4 watt)	33-547154					Speaker Assembly	36-1469
17	Resistor (220,000 ohms, 1/4 watt)	33-422154					Screws (Back Mounting)	56-6056

MISCELLANEOUS PARTS

Cable (Power)	L-3199
Cabinet (PT-43, Code 121)	10451A
Cabinet Back (PT-55, Code 121)	27-4907
Cabinet (PT-55, Code 121)	104401t