

# PHILCO

REG. U.S. PAT. OFF.

1938

## CHANGES IN MODELS

Since Publication of Each Service Bulletin



A PHILCO SERVICE PLAN



A PHILCO SERVICE PLAN

Grouped under each model and arranged according to Run No. Covers changes from January 1st to May 1st, 1938.

The following page contains complete listings of all major changes—involving changes in circuit, part numbers or anything of interest to the serviceman—in Philco models current at the time of printing. These are all the changes which have been made since the date of publication of the last printing of the Philco Service Bulletin on each model; the number of the Bulletin is given in each case for reference.

Ownership of this sheet in addition to Service Bulletins, gives the serviceman a complete record on each model; thus he will not be inconvenienced at finding, when servicing a current set, that it differs from that shown in the original Service Bulletin.

The Model, Code and Run Numbers are stamped on the rear of the chassis.

### Model 38-4

Service Bulletin 281

#### Run 5

The two condensers, Part No. 30-1097, which were connected in parallel with the new air padder (16), Part No. 31-6206, in Run 3 receivers, are removed beginning with Run 5. In place of these condensers, a Thermal Compensator, Part No. 31-6227 is connected in parallel with the air padder. The air padder (16), Part No. 31-6206 has also been relocated and is now mounted between the 6U7G R. F. tube and the 6F6G output tube. The Thermal Compensator, Part No. 31-6227, is also mounted in the same position with the thermostatic plate facing the power transformer.

The oscillator transformer (15) was changed from Part No. 32-2631 to Part No. 32-2894. Connection No. 1 of the new transformer has been increased in length for soldering to the air padder in the new location.

### Model 38-7 (Codes 121, 124)

Service Bulletin 280

#### REPLACEMENT PART DIFFERENCES BETWEEN CODES 121, 124

Schem. No.	Description	Part No. Code 121	Part No. Code 124
(24)	Condenser (.01 mfd. tubular)...	30-4479	30-4201 (.001 mfd.)
(32)	Resistor (51000 ohms ½ watt)	33-351339	33-340339
(38)	Condenser (.006 mfd. tubular)	30-4467	30-4479 (.01 mfd.)
(45)	Electrolytic Condenser	30-2219	30-2228
(47)	Condenser (.015, .015 mfd.)...	3793-DG	3793-ODG
	Cable (Power)	L-2778	L-2183
	Cable (Speaker)	.....	41-3345

### Model 38-7 (Codes 121, 124)

Service Bulletin 280

### Models 38-8—38-9 (Code 121)

Service Bulletin 280

#### Run 7—38-7; Run 7—38-8; Run 5—38-9

Resistor (9) Part No. 33-370339, 70,000 ohms changed to 40,000 ohms Part No. 33-340339. This change made to improve the oscillator circuit performance.

#### Run 6—38-7 (121-124); Run 6—38-8 (121); Run 4—38-9 (121):

In order to prevent oscillation, condenser (14) was removed from the rear of the chassis and mounted in back of the volume control. No change in the circuit, rearrangement of parts only.

### Model 38-10 (Codes 121, 124)

Service Bulletin 283

#### CIRCUIT DIFFERENCE BETWEEN CODES 121 AND 124

Schem. No.	Description	Part No. Code 121	Part No. Code 124
(45)	Condenser (Electrolytic 12 mfd.).....	30-2210	30-2131
(47)	Condenser (.015 mfd. Dual Bakelite)...	3793-DG	3793-ODG
	Cable (Power)	L-2778	L-2183
	Cable (Speaker)	L-2840	L-2980

### Model 38-10 (Codes 121, 124)

Service Bulletin 283

#### Run 5

Resistor (11) Part No. 33-370339, 70,000 ohms changed to 40,000 ohms, Part No. 33-340339. This change made to improve the oscillator circuit performance.

### Model 38-14 (Codes 121, 124)

Service Bulletin 288

#### Run 4, Code 121

To eliminate hum modulation, Electrolytic Condenser (32), Part No. 30-2246, 16 mfd., was changed to Part No. 30-2237, 40 mfd. The electrolytic condenser (32) in code 124 receivers is changed from Part No. 30-2277, 16 mfd., to Part No. 30-2256, 40 mfd.

#### Run 3, Code 121; Run 2, Code 124

Oscillator Blocking Condenser (8) 250 mmfd. Part No. 30-1032, changed to 50 mmfd., Part No. 30-1029.

### Model 38-33 (Code 121)

Service Bulletin 292

#### CIRCUIT CHANGE IN SCREEN VOLTAGE SUPPLY

#### Run 3

Beginning with Run 3 Resistor (20) Part No. 33-280339 was changed to 20,000 ohms, Part No. 33-320339. This new Resistor (20000) was removed from the 90 volt wire and reconnected to the 135 volt wire of the battery cable. The battery cable assembly was also changed from Part No. 41-3203 to Part No. 41-3402.

### Model 38-623

#### Run 2

Beginning with Run 2, Resistor (42) Part No. 33-280339 was changed to 20,000 ohms, Part No. 33-320339. The new resistor (20000) was removed from the 90 volt wire of the battery cable. The battery cable assembly was also changed from Part No. 41-3198 to Part No. 41-3394.

### Model 38-624 (Codes 121, 125)

The following circuit changes were made to reduce electrical hum, beginning with Run 6 receivers.

Schem. No.	Description	Old Part No.	New Part No.
(36)	Resistor (1 megohm, ½ watt).....	33-510339	33-475339
(47)	Resistor (1 megohm, ½ watt).....	33-510339	33-540339

In sets prior to Run 6, the 20 ohm filament Resistor (38) on the diagram was located in the power unit adjacent to the On-Off Switch. This resistor, beginning with Run 6, is located in the I. F. unit near the Volume Control.

### Model 37-620 (Code 125)

Service Bulletin 251A

### Model 37-630 (Codes 125, 126)

#### CORRECTION

Schem. No.	Description	Listed as	Should be
(69)	R. F. Range Switch.....	42-1245	42-1283
(70)	Antenna Range Switch.....	42-1170	42-1282

### Model 38-116 (Code 125)

Service Bulletin 286A

#### CORRECTION: Schematic Diagram and Parts List

Schem. No.	Description	Part No.	Corrected Part No.
(43)	Resistor (40,000 ohms, 1 watt).....	33-340439	33-240439