PHILCO
RED U.S. PAT. OFF
1938
CHANGES IN MODELS
Since Publication of Each Service Bulletin

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 inconvenience 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.

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**Model 38-4**

**Service Bulletin 281**

Run 5

The two condensers, Part No. 30-1097, which were connected in parallel with the new air pad (10), 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 pad. The air pad (10), Part No. 31-6206 has also been relocated and is now centered between the 46U7 G, R.F. tube and the 6F6 output tube. The Thermal Compensator, Part No. 31-6227, is also mounted in the same position with the thermostat plate facing the power transformer.

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**Model 38-7**

**Service Bulletin 280**

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

<table>
<thead>
<tr>
<th>Schem. No.</th>
<th>Description</th>
<th>Old Part No.</th>
<th>New Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(24)</td>
<td>Condenser (.01 mfd. radial)</td>
<td>30-4283</td>
<td>30-4284</td>
</tr>
<tr>
<td>(32)</td>
<td>Resistor (1,000 ohms, ½ watt)</td>
<td>33-34050</td>
<td>33-34050</td>
</tr>
<tr>
<td>(38)</td>
<td>Condenser (.001 mfd. radial)</td>
<td>30-4090</td>
<td>30-4090</td>
</tr>
<tr>
<td>(45)</td>
<td>Electrolytic Condenser</td>
<td>30-4211</td>
<td>30-4211</td>
</tr>
<tr>
<td>(47)</td>
<td>Condenser (.015, .015 mfd.)</td>
<td>3793-DG</td>
<td>3793-DG</td>
</tr>
<tr>
<td>(48)</td>
<td>Cable (Speaker)</td>
<td>L-2778</td>
<td>L-2783</td>
</tr>
</tbody>
</table>

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**Model 38-8—38-9**

**Service Bulletin 280**

Run 7—38-7; Run 8—38-8; Run 9—38-9

Resistor (9) Part No. 33-34024, 76,000 ohms changed to 40,000 ohms Part No. 33-34039. This change made to improve the oscillator circuit performance.

Run 6—38-7 (121-124); Run 5—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.

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**Model 38-10**

**Service Bulletin 283**

**CIRCUIT DIFFERENCE BETWEEN CODES 121 AND 124**

<table>
<thead>
<tr>
<th>Schem. No.</th>
<th>Description</th>
<th>Part No. 121</th>
<th>Part No. 124</th>
</tr>
</thead>
<tbody>
<tr>
<td>(45)</td>
<td>Condenser (Electrolytic 12 mfd.)</td>
<td>30-2126</td>
<td>30-2126</td>
</tr>
<tr>
<td>(47)</td>
<td>Condenser (.015 mfd. Dual Bakelite)</td>
<td>3793-DG</td>
<td>3793-DG</td>
</tr>
<tr>
<td>(48)</td>
<td>Cable (Speaker)</td>
<td>L-2778</td>
<td>L-2783</td>
</tr>
</tbody>
</table>

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**Model 38-14**

**Service Bulletin 288**

Run 4, Code 121

To eliminate hum modulation, Electrolytic Condenser (32), Part No. 30-2276, 16 mfd., was changed to Part No. 30-2254, 40 mfd. The electrolytic condenser (32) in code 124 receiver 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 mfd. Part No. 30-1052, changed to 50 mfd., Part No. 30-1052.

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**Model 38-33**

**Service Bulletin 282**

**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. 33-32039. 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.

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**Model 38-623**

**Service Bulletin 289**

Run 2

Beginning with Run 2, Resistor (42) Part No. 33-280339 was changed to 20,000 ohms, Part No. 33-32039. 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.

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**Model 38-624**

**Service Bulletin 289**

**Codes 121, 125**

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

<table>
<thead>
<tr>
<th>Schem. No.</th>
<th>Description</th>
<th>Old Part No.</th>
<th>New Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(25)</td>
<td>Resistor (10meg, ½ watt)</td>
<td>33-51039</td>
<td>33-47539</td>
</tr>
<tr>
<td>(47)</td>
<td>Resistor (1megohm, ½ watt)</td>
<td>33-51039</td>
<td>33-54039</td>
</tr>
</tbody>
</table>

In seta 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.

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**Model 37-620**

**Service Bulletin 281A**

**CORRECTION**

Resistor (40,000 ohms, 1 watt) Part No. 33-340439

Corrected Part No. 33-240439

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**Philco Models**

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