

PHILCO

REG. U.S. PAT. OFF.

CHANGES IN MODELS

Since Publication of Each Service Bulletin



Grouped under each model and arranged according to date . . . All models included . . . August 1st to December 31st, 1935.

The following pages contain complete listings of all major changes — involving changes in circuit, part numbers or anything of interest to the serviceman — occurring within the dates mentioned above. These changes date back to 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 folder 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 second column on each page gives the "Run Number" of the set at the time of the change (where this information was available from our records). The Run Number is stamped on the top of the chassis with a rubber stamp and is the lefthand number in the rectangle.

The Code Number of the set is given on the chassis name plate or name label (at rear of chassis).

MODEL 29 Service Bulletin No. 195

Approximate Date of Change	Run No.	CHANGES
11-1-35	..	No. ④ on base view of Fig. 4 should be ③. No. ⑤ next to ④ on base view of Fig. 4 should be ③.

MODEL 54 Service Bulletin No. 158

Approximate Date of Change	Run No.	CHANGES								
9-1-35	14	<table border="1"> <thead> <tr> <th>Old Part No.</th> <th>New Part</th> </tr> </thead> <tbody> <tr> <td>Condenser ⑥</td> <td>3793-AG</td> </tr> <tr> <td>Condenser ④</td> <td>3615-BF</td> </tr> <tr> <td>Condenser ③</td> <td>8035-F</td> </tr> </tbody> </table>	Old Part No.	New Part	Condenser ⑥	3793-AG	Condenser ④	3615-BF	Condenser ③	8035-F
Old Part No.	New Part									
Condenser ⑥	3793-AG									
Condenser ④	3615-BF									
Condenser ③	8035-F									

MODEL 60 Service Bulletin No. 164

Approximate Date of Change	Run No.	CHANGES																		
10-1-35	11	Tube Shield and Tube Shield Base Nos. 28-2726 and 28-2725 for the 6A7 Tube will no longer be necessary.																		
		<table border="1"> <thead> <tr> <th>Old Part No.</th> <th>New Part No.</th> </tr> </thead> <tbody> <tr> <td>Resistor ②</td> <td>5872 (1/2 watt) 2 meg.</td> </tr> <tr> <td>Resistor ③</td> <td>4409 (1/2 watt) 1 meg.</td> </tr> <tr> <td>Resistor ④</td> <td>4411 (1/2 watt) 99,000 ohms</td> </tr> <tr> <td>Resistor ⑤, ⑥</td> <td>5385 (1/2 watt) 70,000 ohms</td> </tr> <tr> <td></td> <td>33-1025 (1/4 watt)</td> </tr> <tr> <td></td> <td>33-1096 (1/4 watt)</td> </tr> <tr> <td></td> <td>6099 (1/4 watt)</td> </tr> <tr> <td></td> <td>33-1115 (1/4 watt)</td> </tr> </tbody> </table>	Old Part No.	New Part No.	Resistor ②	5872 (1/2 watt) 2 meg.	Resistor ③	4409 (1/2 watt) 1 meg.	Resistor ④	4411 (1/2 watt) 99,000 ohms	Resistor ⑤, ⑥	5385 (1/2 watt) 70,000 ohms		33-1025 (1/4 watt)		33-1096 (1/4 watt)		6099 (1/4 watt)		33-1115 (1/4 watt)
Old Part No.	New Part No.																			
Resistor ②	5872 (1/2 watt) 2 meg.																			
Resistor ③	4409 (1/2 watt) 1 meg.																			
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	33-1025 (1/4 watt)																			
	33-1096 (1/4 watt)																			
	6099 (1/4 watt)																			
	33-1115 (1/4 watt)																			

MODEL 116 (Code 121 and 122) Service Bulletin Nos. 222 and 222A

Approximate Date of Change	Run No.	CHANGES																				
8-1-35	..	Adjustment of high frequency end of broadcast band should be made at 1500 K. C. (1.5 M. C. on the Philco 088 scale) instead of 1600 K. C.																				
	5	There will be an addition of resistor and condenser assembly. Replace Condenser No. 6287DU ⑥ with 6287-ODU. The latter is impregnated with the new high melting point wax.																				
		<table border="1"> <thead> <tr> <th>Remove</th> <th>No. on Schematic Code 121</th> <th>No. on Schematic Code 122</th> <th>Install</th> </tr> </thead> <tbody> <tr> <td>30-4336 (.00125 mfd.)</td> <td>④</td> <td>④</td> <td>38-6978</td> </tr> <tr> <td>5837 (1000 ohms)</td> <td>②</td> <td>②</td> <td></td> </tr> <tr> <td>33-1114 (8000 ohms)</td> <td>③</td> <td>③</td> <td></td> </tr> <tr> <td>30-1028 (.003 mfd.)</td> <td>①</td> <td>①</td> <td>7301</td> </tr> </tbody> </table>	Remove	No. on Schematic Code 121	No. on Schematic Code 122	Install	30-4336 (.00125 mfd.)	④	④	38-6978	5837 (1000 ohms)	②	②		33-1114 (8000 ohms)	③	③		30-1028 (.003 mfd.)	①	①	7301
Remove	No. on Schematic Code 121	No. on Schematic Code 122	Install																			
30-4336 (.00125 mfd.)	④	④	38-6978																			
5837 (1000 ohms)	②	②																				
33-1114 (8000 ohms)	③	③																				
30-1028 (.003 mfd.)	①	①	7301																			

9-1-35 | 9 | This change made to eliminate frequency drift.

2nd I. F. Transformer ⑤	Old Part No.	New Part No.
	32-1734	32-1865

| 3 | Code 122 only

Condenser ⑩	Old Part No.	New Part No.
	30-2011	30-2069
Insulator	Old Part No.	New Part No.
	27-7195	27-7194

MODEL 116 (Code 121 and 122) Service Bulletin Nos. 222 and 222A

Approximate Date of Change	Run No.	CHANGES
11-1-35	..	Code 122 The grid lead from the 6A3 power tube near the front of the chassis is changed to run over to and parallel with the end of the chassis down as far as condenser ③ then over to the input transformer. Change made to prevent audio oscillation.

Code 121, Run No. 9 Code 122, Run No. 11

Part	Schematic No.	Removed
Resistor	(Code 121) ③ (Code 122) ③	6984 (2000 ohms) 1/2 watt
	10	Code 121
	8	Code 122

Schematic No.	Old Part	New Part
Tuning Condenser Assembly ⑤	31-1606	31-1607
Dial Mask and Hub Assembly	31-1575	29-5136

12-1-35

Code 121, Run No. 12

Code 122, Run No. 10

Input Transformer ②	Part No.	Part No.
	32-7447	32-7057

Change ⑩ Resistor (10,000 ohm) to ⑩a
September Change Notices indicated a change in the 2nd I. F. Transformer ⑤. The Part No. of the new Transformer is 32-1865 and the corresponding Compensating Condenser Part No. is 31-6067.

MODEL 116X and 116B Service Bulletin Nos. 222 and 222A

Approximate Date of Change	Run No.	CHANGES
8-1-35	..	Add bezel frame gasket No. 27-7978. Remove Rubber Bumper No. 27-4150 to prevent microphonics. Remove Bezel Light Guard No. 27-8001 on Codes 121 and 122.

MODEL 610 Service Bulletin No. 217

Approximate Date of Change	Run No.	CHANGES
8-1-35	7	Tube Shield and Tube Shield Base on the 6A7 tube will not be necessary. Remove Part No. 28-2726 and 28-2725.
10-1-35	8	Part No. 6096 (5000 ohms) ④ Resistor and Part No. 33-1206 (20 ohms) ④ Resistor will not be used. In eliminating Resistor ④, shunt a wire across the terminals from which it is disconnected.
11-1-35	..	Reverse numbers ④ and ④ shown in Figure 3.

MODEL 610F Service Bulletin No. 217

Approximate Date of Change	Run No.	CHANGES
8-1-35	..	Remove 27-7981 Bezel Glass Gasket and install 27-8036. Add Bezel Frame Gasket, Part No. 27-7972 to 610-F.

MODEL 610B Service Bulletin No. 217

8-1-35	..	Add Part No. 27-7971 Bezel Frame Gasket.
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MODEL 611-F Service Bulletin No. 224

9-1-35	..	Remove bezel glass gasket, Part No. 27-7981, and install Part No. 27-8036.
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MODEL 611 (Code 121) Service Bulletin No. 224

Approximate Date of Change	Run No.	CHANGES																											
9-1-35	2	The new condensers are impregnated with the high melting point wax.																											
		<table border="1"> <thead> <tr> <th></th> <th>Old Part</th> <th>New Part</th> </tr> </thead> <tbody> <tr> <td>Condenser ②</td> <td>8035-DU</td> <td>8035-ODU</td> </tr> <tr> <td>Condenser ④</td> <td>3793-SU</td> <td>3793-OSU</td> </tr> <tr> <td>Condenser ⑤</td> <td>6287-DU</td> <td>6287-ODU</td> </tr> <tr> <td>Condenser ⑥</td> <td>3903-SU</td> <td>3903-OSU</td> </tr> <tr> <td>Condenser ⑦</td> <td>4989-FU</td> <td>4989-OFU</td> </tr> <tr> <td>Condenser ⑧</td> <td>4989-DU</td> <td>4989-ODU</td> </tr> <tr> <td>Condenser ⑨</td> <td>3615-SU</td> <td>3615-OSU</td> </tr> <tr> <td>Tone Control ⑩</td> <td>30-4345</td> <td>30-4377</td> </tr> </tbody> </table>		Old Part	New Part	Condenser ②	8035-DU	8035-ODU	Condenser ④	3793-SU	3793-OSU	Condenser ⑤	6287-DU	6287-ODU	Condenser ⑥	3903-SU	3903-OSU	Condenser ⑦	4989-FU	4989-OFU	Condenser ⑧	4989-DU	4989-ODU	Condenser ⑨	3615-SU	3615-OSU	Tone Control ⑩	30-4345	30-4377
	Old Part	New Part																											
Condenser ②	8035-DU	8035-ODU																											
Condenser ④	3793-SU	3793-OSU																											
Condenser ⑤	6287-DU	6287-ODU																											
Condenser ⑥	3903-SU	3903-OSU																											
Condenser ⑦	4989-FU	4989-OFU																											
Condenser ⑧	4989-DU	4989-ODU																											
Condenser ⑨	3615-SU	3615-OSU																											
Tone Control ⑩	30-4345	30-4377																											

Approximate Date of Change	Run No.	CHANGES									
10-1-35	2	<table border="1"> <thead> <tr> <th></th> <th>Old Part</th> <th>New Part</th> </tr> </thead> <tbody> <tr> <td>Resistor ⑪</td> <td>4237 (1 watt) 51,000 ohms</td> <td>4518 (½ watt)</td> </tr> <tr> <td>Condenser ⑫</td> <td>30-1055 .00225 mfd. mica</td> <td>30-1042</td> </tr> </tbody> </table> Resistor ⑬ Part No. 33-1001 (5000 ohm) no longer necessary.		Old Part	New Part	Resistor ⑪	4237 (1 watt) 51,000 ohms	4518 (½ watt)	Condenser ⑫	30-1055 .00225 mfd. mica	30-1042
	Old Part	New Part									
Resistor ⑪	4237 (1 watt) 51,000 ohms	4518 (½ watt)									
Condenser ⑫	30-1055 .00225 mfd. mica	30-1042									

Approximate Date of Change	Run No.	CHANGES
12-1-35	4	The Oscillator Circuit was changed to series feed. The Oscillator Plate is disconnected from the lead connecting Condenser ⑭ and Resistor ⑮ and connected to the top of the lower primary winding. The bottom end of this primary is disconnected from Condenser ⑯ and ⑰ and connected to the lead connecting Condenser ⑱ and Resistor ⑲. The lead from Resistor ⑲ to the top of the primary is changed so that it connects to the bottom of the secondary. Resistor ⑲ is removed from the circuit. Resistor ⑳ is changed so that it connects from the 6A7 cathode to the switch side of Condenser ⑱. Resistor ㉑ is removed. The following are necessary part changes:

Part	Schematic No.	Remove Old Part No.	Add New Part No.
Resistor ⑲	⑳	33-1128 (120,000 ohm)	
Osc. Transformer ⑳	㉑	32-1831	32-1973
Resistor ㉑	㉒	33-1206 (20 ohm)	

The Dial Mask Assembly was changed to the Glowing Arrow Wave Band Indicator Type.

Part	Schematic No.	Remove Old Part No.	Add New Part No.
Tuning Condenser	㉓	31-1528	31-1740
Glowing Arrow Mask			27-5167
Glowing Arrow Screen			27-5166
Mask Arm			29-3274
Link			29-3285
Coupling			29-3586
Screen Bracket			31-1751
Hub and Set Screw Assy.		31-1550	31-1724

MODEL 620 (Code 121) Service Bulletin No. 218

8-1-35		Add the following parts: 1 No. 27-7972 Bezel Frame Gasket. 1 No. 27-8036 Bezel Glass Gasket Remove No. 27-7981 Bezel Glass Gasket MODEL 620 B Add No. 27-7971 Bezel Frame Gasket
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Approximate Date of Change	Run No.	CHANGES												
10-1-35	5	<table border="1"> <thead> <tr> <th></th> <th>Old Part</th> <th>New Part</th> </tr> </thead> <tbody> <tr> <td>Resistor ⑳</td> <td>5837 (½ watt) 1,000 ohms</td> <td>33-1028 (½ watt)</td> </tr> <tr> <td>Resistor ㉑</td> <td>5385 (½ watt) 70,000 ohms</td> <td>33-1115 (½ watt)</td> </tr> <tr> <td>Resistor ㉒</td> <td>4411 (½ watt) 99,000 ohms</td> <td>6099 (½ watt)</td> </tr> </tbody> </table>		Old Part	New Part	Resistor ⑳	5837 (½ watt) 1,000 ohms	33-1028 (½ watt)	Resistor ㉑	5385 (½ watt) 70,000 ohms	33-1115 (½ watt)	Resistor ㉒	4411 (½ watt) 99,000 ohms	6099 (½ watt)
	Old Part	New Part												
Resistor ⑳	5837 (½ watt) 1,000 ohms	33-1028 (½ watt)												
Resistor ㉑	5385 (½ watt) 70,000 ohms	33-1115 (½ watt)												
Resistor ㉒	4411 (½ watt) 99,000 ohms	6099 (½ watt)												

MODEL 620 (Code 121)—Contd. Service Bulletin No. 218

Approximate Date of Change	Run No.	CHANGES
11-1-35	5	A condenser, Part No. 30-4310 (.001 mf.) was connected from the center terminal of condenser ㉓ to the ground terminal of condenser ㉔. Tube Shield, Part No. 28-2726 and Tube Shield Base, Part No. 28-2725, for 6A7 tube no longer necessary.

MODEL 620 Service Bulletin No. 218A

Approximate Date of Change	Run No.	CHANGES																
12-1-35	9	<table border="1"> <thead> <tr> <th></th> <th>Schematic No.</th> <th>Old Part No.</th> <th>New Part No.</th> </tr> </thead> <tbody> <tr> <td>Ant. Transformer ㉕</td> <td>⑳</td> <td>32-1699</td> <td>32-1867</td> </tr> <tr> <td>Det. Transformer ㉖</td> <td>㉑</td> <td>32-1636</td> <td>32-1868</td> </tr> <tr> <td>Osc. Transformer ㉗</td> <td>㉒</td> <td>32-1637</td> <td>32-1869</td> </tr> </tbody> </table>		Schematic No.	Old Part No.	New Part No.	Ant. Transformer ㉕	⑳	32-1699	32-1867	Det. Transformer ㉖	㉑	32-1636	32-1868	Osc. Transformer ㉗	㉒	32-1637	32-1869
	Schematic No.	Old Part No.	New Part No.															
Ant. Transformer ㉕	⑳	32-1699	32-1867															
Det. Transformer ㉖	㉑	32-1636	32-1868															
Osc. Transformer ㉗	㉒	32-1637	32-1869															

MODEL 623 Service Bulletin No. 225

Approximate Date of Change	Run No.	CHANGES						
9-1-35	..	Remove pilot light reflector No. 28-2979 and replace with reflector No. 28-3237. Change made to increase light intensity through dial scale.						
		<table border="1"> <thead> <tr> <th></th> <th>Old Part</th> <th>New Part</th> </tr> </thead> <tbody> <tr> <td>Input Transformer ㉘</td> <td>32-7454</td> <td>32-7480</td> </tr> </tbody> </table>		Old Part	New Part	Input Transformer ㉘	32-7454	32-7480
	Old Part	New Part						
Input Transformer ㉘	32-7454	32-7480						

10-1-35	4	Change made to increase sensitivity.
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	Old Part	New Part
1st I. F. Transformer ㉙	32-1793	32-1671
	34 I. F. Tube	1A4 Tube

	3	Connect bottom terminal (ordinarily grounded) to positive terminal of filament supply.
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	Old Part	New Part
Volume Control ㉚	33-5115	33-5142

11-1-35	6	10,000 ohm Resistor, part ㉛, Part No. 33-1000, no longer necessary.
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12-1-35	..	The Dial Mask Assembly was changed to the Glowing Arrow Wave Band Indicator Type.
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Part	Schematic No.	Old Part No.	New Part No.
Wave Switch	㉜	42-1112	42-1155
Tuning Condenser	㉝	31-1526	31-1740
Glowing Arrow Mask			27-5167
Glowing Arrow Screen			27-5166
Mask Arm			29-3274
Link			29-3285
Coupling			29-3586
Screen Bracket			31-1751
Hub Assembly		31-1550	31-1724

	9	The Oscillator Circuit was changed to series feed.
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Part	Remove Old Part No.	Schematic	Add New Part No.
Condenser	30-1033 (.00015 mf.)	㉞	30-1049 (.0006 mf.)
Resistor	6097 (490,000 ohm)	㉟	
Resistor	33-1018 (25,000 ohm)	㊱	
Oscillator Trans.	32-1831	㊲	32-1973
Resistor	33-1206 (20 ohm)	㊳	
Condenser	6359 (.006 mf.)	㊴	30-1031 (.00011 mf.)

MODEL 623 (Continued)

Service Bulletin No. 225

Approximate Date of Change	Run No.	CHANGES
..	9	<p>S. W. SECTION OF OSC. TRANSFORMER Condenser ④ and Resistor ⑤ were removed and the wires connected to the ends of these parts were connected together. The wires between the police tap at the left of Switch Section No. 2 and the joint in the wire just above that was broken and Condenser No. 30-1049 inserted. The connection between the bottom (S. W.) primary and secondary of the Oscillator Transformer was broken and condensers ④ and ⑤ connected between the bottom of the secondary and ground. Resistor ⑥ removed. The lead connected to the top of the primary disconnected and brought down to the bottom of the secondary. Resistor ⑦ also removed. A lead from the bottom of the primary was connected to the lead running from Condenser ② to Resistor ⑧. The oscillator plate wire was disconnected from this lead and brought down to the top of the primary.</p> <p>BROADCAST AND POLICE SECTION OF OSC. TRANSFORMER Resistor ⑨ was disconnected from the bottom of the upper section of the Osc. Transformer and connected to the switch side of the Condenser ⑩.</p>

MODEL 623-B and 623-F

Approximate Date of Change	Run No.	CHANGES
9-1-35	..	Remove bezel glass gasket, Part No. 27-7981, and replace with Part No. 27-8036.

Model 630 (Code 121)

Service Bulletin No. 219

Approximate Date of Change	Run No.	CHANGES												
10-1-35	4	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Old Part</u></td> <td></td> <td style="text-align: center;"><u>New Part</u></td> </tr> <tr> <td>Resistor ⑤</td> <td>33-1040 (1/2 watt)</td> <td>4,000 ohms</td> <td>33-1031 (1/2 watt)</td> </tr> <tr> <td>Resistor ⑥</td> <td>6650 (1/2 watt)</td> <td>20,000 ohms</td> <td>6649 (1 watt)</td> </tr> </table>		<u>Old Part</u>		<u>New Part</u>	Resistor ⑤	33-1040 (1/2 watt)	4,000 ohms	33-1031 (1/2 watt)	Resistor ⑥	6650 (1/2 watt)	20,000 ohms	6649 (1 watt)
	<u>Old Part</u>		<u>New Part</u>											
Resistor ⑤	33-1040 (1/2 watt)	4,000 ohms	33-1031 (1/2 watt)											
Resistor ⑥	6650 (1/2 watt)	20,000 ohms	6649 (1 watt)											
11-1-35	7	Remove Shadowmeter Shunt Resistor ④, Part No. 33-1040 (4,000 ohms).												
		<table border="0"> <tr> <td><u>Part</u></td> <td><u>Schematic No.</u></td> <td><u>Old Part</u></td> <td><u>New Part</u></td> </tr> <tr> <td>Shadowmeter</td> <td>④</td> <td>45-2086</td> <td>45-2083</td> </tr> </table>	<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>	Shadowmeter	④	45-2086	45-2083				
<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>											
Shadowmeter	④	45-2086	45-2083											

MODEL 630

Service Bulletin No. 219-B

Schematic No.	Old Part No.	New Part No.
Ant. Transformer ③	32-1699	32-1867
Det. Transformer ⑦	32-1636	32-1868
Osc. Transformer ⑩	32-1637	32-1869

MODEL 640 (Code 121)

Service Bulletin No. 221

Approximate Date of Change	Run No.	CHANGES												
8-1-35	6	Replace Resistor ⑥, Part No. 6650 (20,000 ohms) with Part No. 33-1177.												
	4	Replace speaker plug socket, No. 27-6033 with No. 27-6043.												
		Replace 1st I. F. Transformer, Part No. 32-1835 with No. 32-1917 to prevent microphonics.												
		Remove rubber bumper, No. 27-4150 to prevent microphonics.												
		Remove Bezel Light Guard No. 27-8001.												
		Part ⑧ on base view in bulletin should be 2nd I. F. Part ⑦, 1st I. F.												
		Replace Bezel Glass Gasket No. 27-7981 with No. 27-8036.												
		Add No. 27-7972 Bezel Frame Gasket.												
11-1-35	9	<table border="0"> <tr> <td><u>Part</u></td> <td><u>Schematic No.</u></td> <td><u>Old Part</u></td> <td><u>New Part</u></td> </tr> <tr> <td>Tuning Condenser</td> <td>⑨</td> <td>31-1556</td> <td>31-1671</td> </tr> </table>	<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>	Tuning Condenser	⑨	31-1556	31-1671				
<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>											
Tuning Condenser	⑨	31-1556	31-1671											
		<table border="0"> <tr> <td><u>Run No. 10</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Shadow Meter Resistor</td> <td>⑪</td> <td>45-2080</td> <td>45-2083</td> </tr> <tr> <td></td> <td>⑫</td> <td>33-1040</td> <td>Removed</td> </tr> </table>	<u>Run No. 10</u>				Shadow Meter Resistor	⑪	45-2080	45-2083		⑫	33-1040	Removed
<u>Run No. 10</u>														
Shadow Meter Resistor	⑪	45-2080	45-2083											
	⑫	33-1040	Removed											

MODEL 640-B

Service Bulletin No. 221

Approximate Date of Change	Run No.	CHANGES
9-1-35	..	Uses K31 instead of K21 Speaker.

MODEL 641

Service Bulletin No. 227

Approximate Date of Change	Run No.	CHANGES								
9-1-35	..	Connect an 8,000 ohm resistor, Part No. 33-1114, across shadow meter.								
10-1-35	..	<p>Corrections in Replacement Parts List Part ④ .015 mf. Condenser is part of (64-A). Part ③ should be .03 mf. and the correct Part Number is 30-4025. Part ⑤ should be 3615-DG. Referring to bottom view of chassis, condenser marked ⑥ should be ⑦ and condenser ⑧ changed to ⑨. Capacity of sections in ⑩ is (.05 — .2 — .75 — .09 — .25). Part Number of B-C Resistor is 33-3214. List Price 25c. Price of No. 27-4225 Waveband Knob, List 10c.</p>								
11-1-35	..	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Part</u></td> <td style="text-align: center;"><u>Old Part</u></td> <td style="text-align: center;"><u>New Part</u></td> </tr> <tr> <td></td> <td>Bezel Assembly</td> <td>40-5722</td> <td>40-5724</td> </tr> </table>		<u>Part</u>	<u>Old Part</u>	<u>New Part</u>		Bezel Assembly	40-5722	40-5724
	<u>Part</u>	<u>Old Part</u>	<u>New Part</u>							
	Bezel Assembly	40-5722	40-5724							
12-1-35	2	A .00011 Mf. Condenser, Part No. 30-1031 is connected from the plate of the 85 Detector Tube to the Cathode Circuit.								

MODEL 642

Service Bulletin No. 229

Approximate Date of Change	Run No.	CHANGES																																																
9-1-35	..	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Old Part</u></td> <td style="text-align: center;"><u>New Part</u></td> </tr> <tr> <td>Tone Control ④</td> <td>30-4316</td> <td>30-4332</td> </tr> </table>		<u>Old Part</u>	<u>New Part</u>	Tone Control ④	30-4316	30-4332																																										
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12-1-35	2	The Dial and Mask Assembly were changed to the Glowing Arrow Wave Band Indicator Type.																																																
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MODEL 643

Service Bulletin No. 226

Approximate Date of Change	Run No.	CHANGES								
9-1-35	..	Filament current reads (point) .750MA., it should read 750MA.								
		Part No. 33-5119 ④ in Model 643, Bulletin No. 226, listed at \$1.10 changed to \$1.45.								
12-1-35	..	Change Chassis Mounting Washer (rubber) listed as 27-4021 to 27-4201.								
11-1-35	3	Pilot Lamp ⑤, Part No. 5316, should be Part No. 34-2065.								
		<table border="0"> <tr> <td><u>Part</u></td> <td><u>Schematic No.</u></td> <td><u>Old Part</u></td> <td><u>New Part</u></td> </tr> <tr> <td>Condenser</td> <td>④</td> <td>6359 (.006 mf.)</td> <td>30-1031 (.00011 mf.)</td> </tr> </table>	<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>	Condenser	④	6359 (.006 mf.)	30-1031 (.00011 mf.)
<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>							
Condenser	④	6359 (.006 mf.)	30-1031 (.00011 mf.)							

MODEL 650

Service Bulletin No. 220

Approximate Date of Change	Run No.	CHANGES								
11-1-35	13	<table border="0"> <tr> <td><u>Part</u></td> <td><u>Schematic No.</u></td> <td><u>Old Part</u></td> <td><u>New Part</u></td> </tr> <tr> <td>Tuning Condenser</td> <td>⑥</td> <td>31-1556</td> <td>31-1671</td> </tr> </table>	<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>	Tuning Condenser	⑥	31-1556	31-1671
<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>							
Tuning Condenser	⑥	31-1556	31-1671							
		Code 121, Run No. 15. Code 122, Run No. 13.								
		<table border="0"> <tr> <td><u>Shadow Meter Resistor</u></td> <td><u>⑭</u></td> <td>45-2086 & 45-2082</td> <td>45-2088</td> </tr> <tr> <td></td> <td>⑮</td> <td>6096</td> <td>Removed</td> </tr> </table>	<u>Shadow Meter Resistor</u>	<u>⑭</u>	45-2086 & 45-2082	45-2088		⑮	6096	Removed
<u>Shadow Meter Resistor</u>	<u>⑭</u>	45-2086 & 45-2082	45-2088							
	⑮	6096	Removed							

MODEL 650 Service Bulletin No. 220

Approximate Date of Change	Run No.	CHANGES
8-1-35	9	Add Part No. 27-8001 Bezel Light Guard. Part ⑤ on base view in bulletin should be 2nd I. F., Part ⑥, 1st I. F. PRICE CORRECTION— Part No. 33-3211 ⑦ resistor; correct list price is \$.65 instead of \$1.60. Part No. 30-4185 tubular condenser (used in several models) price changed from \$0.40 to \$0.25 list. Effective July 15, 1935.

Part	Remove	Schematic No.	Install
1st I. F. Transformer	32-1835	⑤	32-1917
Condenser	3615-DG		3615-DU
Rubber Bumper	27-4150		
Bezel Glass Gasket	27-7981		27-8036
Bezel Frame Gasket			27-7972

Conversion Code 121 to 123 (RX) —

Part	Remove	Schematic No.	Install
Electrolytic Condenser	30-2025	⑤	7464
Dial Assembly	31-1533		31-1651
Line Cord	L-943A		
Antenna Power Cord			41-3104
Shadow Meter	45-2086	⑥	45-2082
Tone Control	30-4343	⑥	30-4378
By-Pass Condenser	3615-SU	⑥	3615-OSU
By-Pass Condenser	6287-DU	⑥	6287-ODU
By-Pass Condenser	3615-SG	⑥	3615-OSG
By-Pass Condenser	3793-DG	⑥	3793-ODU
By-Pass Condenser	3615-DU	⑥	3615-ODU
By-Pass Condenser	8035-DG	⑥	8035-ODG

9-1-35 12 Replace Part No. 30-4351 ⑤ Tone Control with Part No. 30-4379, 110 mmfd. condenser, Part No. 30-1031 ⑥ removed.

Code 123, Run No. 8. Code 151, Run No. 11.
Code 121, Run No. 12. Code 122, Run No. 9.

Part	Old Part	New Part
Resistor ⑥	5385 (70,000 ohms)	33-1115
Resistor ⑦	6208 (15,000 ohms)	33-1177
Resistor ⑧	5310 (5,000 ohms)	6096
Resistor ⑨	5837 (1,000 ohms)	33-1028
	Wiring Panel	38-6151

These changes made to reduce hum.

MODEL 660 Service Bulletin No. 223

9-1-35 3 Remove rubber bumper, Part No. 31-1706, (to prevent microphonics).
B. C. Resistors ⑩, Part No. 33-2020, in Bulletin No. 223, should be 33-3020.
Compensating Condenser No. ⑪ in Fig. 2 is labelled "standard." it should be "police"; also Condenser No. ⑫ is labelled "police" and should be "standard."

Part	Old Part	New Part
Tone Control (Code 121)	30-4343	30-4378
2nd I. F. Transformer ⑬	32-1734	32-1865
Tone Control (Code 122)	30-4351	30-4379

11-1-35 .. Shadow meter shunt resistor (2000 ohms) Part ⑭, Part No. 6984, removed.
Reverse Numbers ⑮ and ⑯ shown in Fig. 2.

Part	Schematic No.	Old Part	New Part
Condenser	5 ⑰	30-4123 (.05 mf.)	30-4170 (.1 mf.)
Tuning Condenser	3 ⑱	31-1706	31-1683
Dial Hub Assembly		31-1575	31-1724

12-1-35 .. September Change Notices indicated a change of the 2nd I. F. Transformer ⑲. The Part Number of the new Transformer is 32-1865 and the corresponding Compensating Condenser Number is 31-6087.

MODEL 680 (Code 122) Service Bulletin No. 228

Approximate Date of Change	Run No.	CHANGES
11-1-35	4	240,000 ohm resistor, Part No. 33-1097, added, connected from wiper arm (center terminal) to bottom terminal of bass control. The correct Part Number (163) on Parts List is 30-4113. Part No. of Large (H Type) Acoustic Clarifier is 36-1158.
12-1-35	5	Shadow Meter (120), Part No. 45-2088 is replaced with No. 45-2083. Shunt Resistor (121), Part No. 7352 (6,000 ohms) removed.
	6	Sensitivity Control (85), Part No. 33-5124 is replaced with Part No. 33-5144. The correct number and price for Input Transformer (157) is 32-7447 at \$3.00.

U-7 SPEAKER Service Bulletin No. 180-B

9-1-35 .. The correct cone assembly number for the type U-7 speaker is 36-3381.

CORRECTIONS IN 1936 PHILCO PARTS CATALOG

(SEE INDEX FOR PAGE No.)

- Tubular Paper Condenser 30-4346 should be 30-4336, working voltage, 1000.
- Tubular Condenser Kit (page 13), Part No. 45-1109 should be 45-1139.
- Tuning Condenser 31-1039 should be 31-1106, list \$5.30.
- Tuning Condenser 31-1006 should be 31-1005, list \$4.00.
- Potentiometer, Part No. 33-5511 should be 33-5111.
- I. F. Amplifier Kit, Part No. 38-6685 should be 38-7453, list \$6.15.
- I. F. Amplifier Kit complete should be Part No. 40-5814, list \$8.81.
- Headphones only should be Part No. 45-2098 instead of 8303.
- Filter Choke (in short-wave section) should be Part No. 5643 instead of 5463.
- Power Amplifier Output Transformer 32-7055 should be 32-7255, list \$15.00 instead of \$4.50.
- Heavy Duty Resistor, Part No. 33-3134 should be 33-3176.
- Heavy Duty Resistor, Part No. 33-3135 should be 33-3175.
- Knobs, Part No. 24-4051 should be 27-4051.
- Cones, replacement for K-13 and K-17 speakers should be 36-3159, list \$0.80 instead of 02996 (list \$0.90).
- Field Coil, S-15 Speaker should be 36-3519 instead of 36-3579.

PRICE CORRECTIONS IN 1936 CATALOG

	Price Listed	Correct Price
30-2073 Elec. Cond.	\$5.75	\$3.15
30-2077 Elec. Cond.	3.15	5.75
4234 Power Trans.	7.50	7.00
3868 Power Trans.	7.50	9.00
32-7067 Amp. Power Trans.	30.00	34.00
32-7032 Amp. Power Trans.	36.00	35.00
38-6057 Vibrator	6.00	5.00
L-1640 Wire (per 100 feet) ..	2.50	2.00
907-000 Wire (per 100 feet) ..	1.50	1.85

PHILCO
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Service Department