



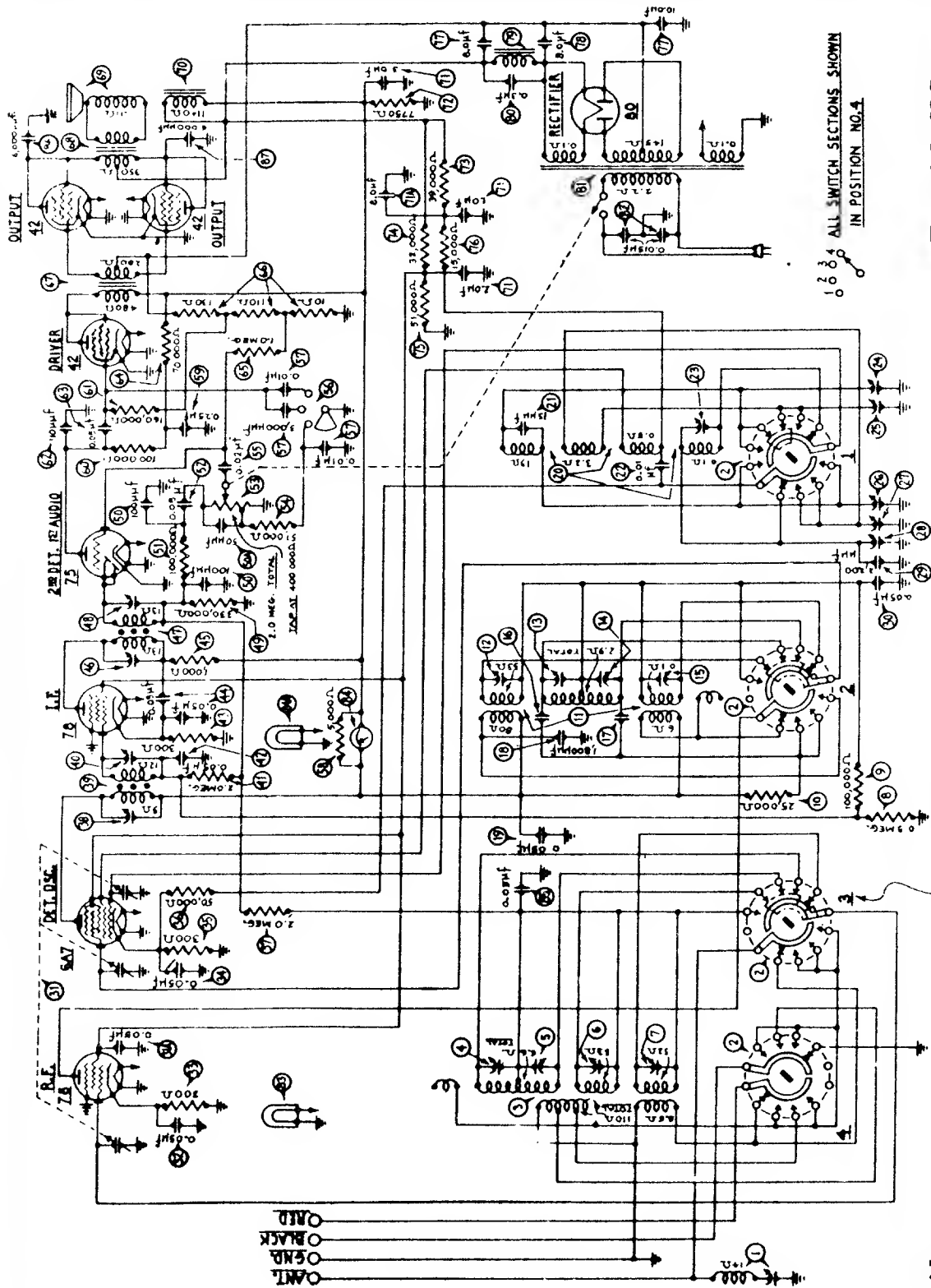
## Philco Radio & Television Corp.

	<b>Model:</b> <a href="#">650</a>	<b>Chassis:</b>	<b>Year:</b> <a href="#">Pre October 1936</a>
	<b>Power:</b>	<b>Circuit:</b>	<b>IF:</b>
	<b>Tubes:</b>		
	<b>Bands:</b>		

Resources
<a href="#">Beitmans 1926-38 146</a>
<a href="#">Riders 6 (VI) PHILCO 6-37</a>
<a href="#">Riders 6 (VI) PHILCO 6-38</a>
<a href="#">Riders 6 (VI) PHILCO 6-39</a>
<a href="#">Riders 7 (VII) PHILCO 7-149</a>
<a href="#">Riders 7 (VII) PHILCO 7-150</a>

# MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

**MODEL 650**



Philco Radio

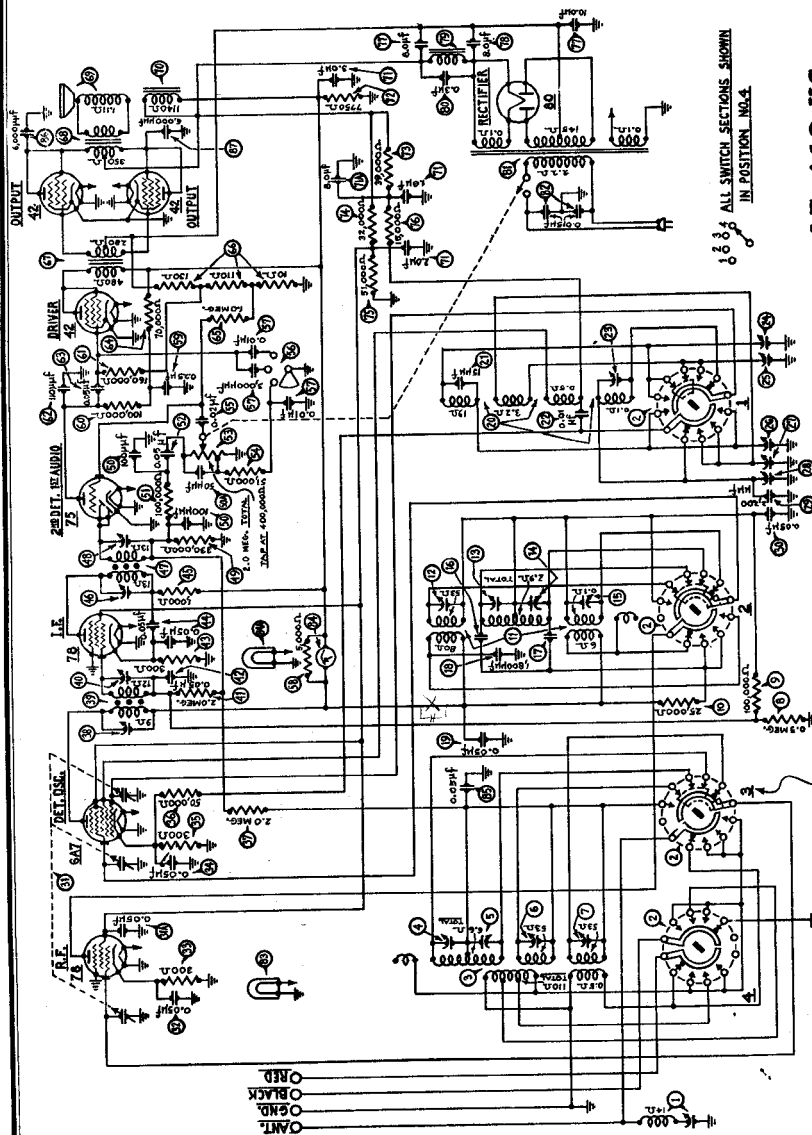
NUMBERS INDICATE RELATIVE POSITIONS OF SWITCH SECTIONS FROM FRONT OF CHASSIS

ALL SWITCH SECTIONS SHOWN  
IN POSITION NO. 4

I.F.=460 KC.

PHILCO RADIO & TELEV. CORP.

MODEL 650  
Schematic



ALL SWITCH SECTIONS SHOWN  
IN POSITION IND.

I.F. = 460 KC.

May, 1935

NUMBERS INDICATE RELATIVE POSITIONS OF SWITCH SECTIONS FROM FRONT OF CHASSIS

Fig. 2. Schematic Diagram of Model 650

## MODEL 650

Alignment, Trimmers  
Voltage, Data

PHILCO RADIO &amp; TELEV. CORP.

## Adjusting Compensating Condensers

Adjustment of compensating condensers in Model 650 requires an accurate signal generator covering long-wave, standard wave, police, and short-wave frequencies. The PHILCO Model 088 All-Wave Signal Generator, having a continuous range of from 100 to 20000 K.C., is ideal for this purpose.

An output meter is also needed. PHILCO Model 025 Circuit Tester includes a high grade output meter.

Philco No. 3164 fibre wrench and No. 27-7059 fibre-handled screwdriver complete the equipment needed for making these adjustments. The locations of the various compensating condensers is shown in Fig. 2. Connect the output meter to the plate contacts of the 42 output tubes (using the adapters provided with the "025") and set it at the 0-30 volt range.

I.F.—Set the Signal Generator at 460 K.C., and attach its antenna lead to the grid cap of the 6A7 tube on the Model 650 (having removed the grid clip from the tube). Connect the ground terminal of the Signal Generator to the ground terminal of the set. Turn on the set, turn the waveband switch to second position (standard) and set dial at 55. Now with the fibre screwdriver, adjust condensers ② and ③ (2d I.F.) and then ④ and ⑤ (1st I.F.) until maximum reading is obtained in the output meter. Turn down the "attenuator" on the signal generator if the output meter needle goes off the scale.

Tube Socket Voltages (Line Voltage 115)  
Measured to Ground

Tube	78 R.F.	6A7 Det. Osc.	78 I.F.	75 2d Det.	42 Driver	42 Out- put
Point P	55	200	200	115	200	300
SG	90	90	90	...	200	300
K	2.2	2.3	2.6	...	...	...

6A7: G<sub>1</sub> & G<sub>2</sub> = 155

Above voltages were obtained by using a PHILCO type 025 Circuit Tester (or 048A All-purpose Tester), using test prods applied to underside of chassis. Volume control at minimum; dial at 55; waveband switch counter-clockwise (band 1). Use Fig. 1 for test points. Type K-17 speaker employed.

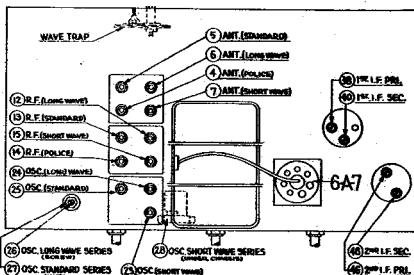


Fig. 2. Locations of Compensating Condensers

**WAVE TRAP**—Connect the Signal Generator antenna and ground leads to the antenna and ground posts of the set. Replace the grid clip on the 6A7 tube cap. With the signal generator operating at 460 K.C. and the set controls adjusted as for I.F., adjust wavetrap ① until the minimum reading is obtained in the out-put meter.

**SHORTWAVE**—Turn waveband switch to position 4 (extreme right). Set signal generator at 18 megacycles and dial of set at 18.0 (top scale). Now adjust the oscillator, R.F., and Antenna compensators in turn, for maximum reading. These are ③, ④ and ⑤ respectively.

Turn the dial to 6.0 M.C., set the signal generator at 6.0 M.C., and adjust condenser ⑥ for maximum reading. This compensator is located underneath the chassis and reached from underneath. (See Fig. 3).

**STANDARD WAVE**—Turn waveband switch to position 2 (standard broadcast), set signal generator at 1500 and dial of set at 150. Now adjust the oscillator, R.F., and antenna "Standard" condensers. These are ③, ④ and ⑤ respectively.

Now turn the dial to 60, set signal generator at 600 and adjust condenser ⑥ (oscillator standard-series) (nut) for maximum reading.

**POLICE BAND**—Turn waveband switch to position 3 from left (police band); set dial at 2.4 and signal generator at 2400 K.C. Adjust condensers ④ and ⑤ for maximum reading. (Antenna and R.F. Police.)

**LONG WAVE (Weather) BAND**—Turn waveband switch to position 1 (left) (Longwave). Set dial at 35 and signal generator at 350 K.C. Adjust condensers ③, ④ and ⑤ (oscillator, R.F., and Antenna Longwave) for maximum reading.

Turn dial to 17, signal generator to 170 and adjust condenser ⑥ (longwave series) (screw) for maximum reading.

**Type Circuit:** Superheterodyne, with preselector R.F. amplifier, and push-pull pentode output (10 watts); built in connections for Philco All-wave aerial; aerial selector built into and operated by wave-band switch.

**Power Supply:** Alternating Current. Voltage and frequency as specified on chassis nameplate.

**Tubes Used:** 1 type 78, R.F.; 1 type 6A7, Detector-Oscillator; 1 type 78, I.F.; 1 type 75, 2d Detector and 1st A.F.; 1 type 42 Driver; 2 type 42 Push-Pull Output; 1 type 80 Rectifier.

**Wave Bands:** Four: (1) Long-wave (U.S. Weather Forecasts); (2) Standard (with some Police); (3) Police; (4) Short-wave. Coverage of Each Band: Band 1, 145 to 390 K.C.; Band 2, 540-1720 K.C.; Band 3, 2.2 to 2.6 M.C.; Band 4, 5800-18000 K.C. (5.8 to 18.0 megacycles).

**Tuning Drive:** Dual planetary, ball bearing. 80 to 1 ratio for slow-speed tuning.

**Tone Control:** 4-position, with bass compensation effective in first position (counter-clockwise).

**Intermediate Frequency:** 460 K.C.

**Power Consumption:** 98 watts.

**Speaker:** 650B (Code 121); K-17, 650X, 650MX, 650-H, (Code 122); H-13.

## PHILCO RADIO &amp; TELEV. CORP.

## Replacement Parts—Model 650

	Description	Part No.	List Price
①	Wave Trap.....	38-6850	\$1.10
②	Waveband Switch.....	42-1114	2.50
③	Antenna Transformer.....	42-1708	4.00
④	Compensating Condenser (Ant.) (Police).....	Part of ③	.....
⑤	Compensating Condenser (Ant.) (Standard).....	Part of ③	.....
⑥	Compensating Condenser (Ant.) (Longwave).....	Part of ③	.....
⑦	Compensating Condenser (Ant.) (Shortwave).....	Part of ③	.....
⑧	Resistor (5 meg.) (Yellow-Black-Yellow).....	5097	.20
⑨	Resistor (10000 ohms) (White-White-Yellow).....	6099	.20
⑩	Resistor (25000 ohms) (Red-Green-Yellow).....	3656	.20
⑪	R.F. Transformer.....	32-1700	3.75
⑫	Compensating Condenser (R.F. Longwave).....	Part of ⑪	.....
⑬	Compensating Condenser (R.F. Broadcast).....	Part of ⑪	.....
⑭	Compensating Condenser (R.F. Police).....	Part of ⑪	.....
⑮	Compensating Condenser (R.F. Shortwave).....	Part of ⑪	.....
⑯	Condenser.....	Part of ⑪	.....
⑰	Condenser.....	6018	.40
⑱	Condenser (.05 Mfd. Bakelite Block).....	3615-SG	.35
⑲	Oscillator Transformer.....	32-1710	3.00
⑳	Condenser (.0015 Mfd. Mica).....	30-1000	.35
㉑	Condenser (.000015 Mfd. Mica).....	30-4145	.25
㉒	Condenser (.01 Mfd. Tubular).....	Part of ㉑	.....
㉓	Compensating Condenser (Osc. S.W.).....	Part of ㉑	.....
㉔	Compensating Condenser (Osc. Longwave).....	Part of ㉑	.....
㉕	Compensating Condenser (Osc. B.C. & Police).....	Part of ㉑	.....
㉖	Compensating Condenser (Osc. L.W. Series) Part of ㉑	31-6044	.50
㉗	Compensating Condenser (Osc. B.C. Series) Part of ㉑	31-6044	.50
㉘	Compensating Condenser (Osc. S.W. Series).....	04000-R	.45
㉙	Condenser (.0022 Mfd. Mica).....	30-1057	.40
㉚	Condenser (.05 Mfd. Tubular).....	30-4020	.35
㉛	Tuning Condenser Assembly.....	31-1555	4.50
㉜	Condenser (.05 Mfd. Flexible) (Orange-Black-Black).....	3615-SG	.35
㉝	Condenser (.05 Mfd. Tubular).....	30-4020	.35
㉞	Resistor (300 ohms) (Orange-Black-Black).....	31-3010	.20
㉟	Condenser (.05 Mfd. Tubular) (On top of chassis).....	30-4327	.20
㊱	Resistor (50000 ohms) (Green-Brown-Orange).....	31-3010	.20
㊲	Resistor (2 Meg.) (Red-Black-Green).....	33-1025	.20
㊳	Compensating Condenser (1st I.F. Primary).....	Part of ㊳	.....
㊴	1st I.F. Transformer.....	32-1711	2.00
㊵	Compensating Condenser (1st I.F. Secondary).....	Part of ㊴	.....
㊶	Resistor (2 Meg.) (Red-Black-Green).....	33-1025	\$0.20
㊷	Condenser (.05 Mfd. Tubular).....	30-4020	.35
㊸	Resistor (300 ohms Flexible) (Orange-Black-Black).....	32-8010	.20
㊹	Condenser (.05 Mfd. Twin Bakelite Block).....	3615-DU	.40
㊺	Resistor (1000 ohms) (Brown-Black-Red).....	5837	.20
㊻	Compensating Condenser (2d I.F. Primary).....	Part of ㊻	.....
㊼	2d I.F. Transformer.....	32-1712	2.00
㊽	Compensating Condenser (2d I.F. Secondary).....	Part of ㊼	.....
㊾	Resistor (330000 ohms) (Orange-Orange-Yellow).....	33-1200	.20
㊿	Condenser (.00011 Mfd. Twin Bakelite Block).....	3035-DG	.25
1	Condenser (.00005 Mfd. Mica) (Not shown Fig. 3).....	30-1029	.25
2	Resistor (100000 ohms) (White-White-Orange).....	6099	.20
3	Condenser (.05 Mfd. Tubular).....	30-4020	.35

4	Volume Control and On-Off Switch.....	33-5108	1.45
5	Resistor (51000 ohms) (Green-Brown-Orange).....	6098	.20
6	Condenser (.02 Mfd. Tubular).....	30-4113	.30
7	Condenser (500 ohms) (Orange-Black-Black).....	30-4345	.75
8	Tone Control.....	Part of ⑧	.....
9	Condensers in Tone Control.....	Part of ⑧	.....
10	Resistor (5000 ohms) (Green-Black-Red).....	5310	.20
11	Condenser (.25 Mfd. Tubular).....	30-4134	.40
12	Resistor (160000 ohms) (White-Black-Orange).....	6099	.20
13	Resistor (160000 ohms) (Brown-Blue-Yellow).....	33-1191	.20
14	Condenser (.00011 Mfd. Mica).....	30-1031	.35
15	Condenser (.05 Mfd. Bakelite Block).....	3615-SU	.35
16	Resistor (70000 ohms) (Violet-Black-Orange).....	5382	.20
17	Resistor (1 Meg.) (Brown-Black-Orange).....	33-1096	.20
18	B.C. Resistor (Wirewound) (10 ohms, 110 ohms, 130 ohms).....	33-3137	.30
19	Input Transformer.....	32-7114	2.00
20	Output Transformer.....	32-7078	1.40
21	Cone and Voice Coil Assembly (H-13).....	02635	1.20
22	Cone and Voice Coil Assembly (K-17).....	02996	.90
23	Field Coil and Pot Assembly (H-13 or K-17).....	36-3104	2.70
24	Condenser (Electrolytic—3 Mfd., 1 Mfd., 2 Mfd.).....	30-3122	1.85
25	Resistor (Wirewound) (7750 ohms).....	33-3211	1.60
26	Resistor (30000 ohms) (Orange-White-Orange).....	33-1027	.20
27	Resistor (32000 ohms) (Orange-Red-Orange).....	33-1026	.35
28	Resistor (51000 ohms) (Green-Brown-Orange).....	4237	.20
29	Resistor (15000 ohms) (Brown-Green-Orange).....	6208	.20
30	Condenser (Electrolytic—8 Mfd., 10 Mfd.).....	30-2045	1.80
31	Condenser (Electrolytic—8 Mfd.).....	150-2025	1.10
32	Filter Choke.....	32-7115	1.80
33	Condenser (.3 Mfd. Bakelite Block).....	*6287-DU	.40
34	Condenser (.015 Mfd. Twin Bakelite Block).....	32-7402	4.50
35	Pilot Lamp (Dial).....	32-7404	7.50
36	Shadow Tuning Meter.....	3793-DG	.40
37	Pilot Lamp (Shadowmeter).....	36-2064	.60
38	Condenser (.05 Mfd. Tubular).....	*45-2086	2.00
39	Condenser (.006 Mfd. Tubular).....	30-4020	.35
40	Condenser (.006 Mfd. Tubular).....	30-4125	.25
41	Condenser (.006 Mfd. Tubular).....	30-4125	.25

\* Omitted after Run 5.

\* In Model 650A (115 Volts 25 Cycles) this is part No. 04357, List .75.

\* In Code 122 (650X, 650MX, 650H) this is part No. 30-2014, List 1.50.

\* In Code 122 (650X, 650MX, 650H) this is part No. 45-2082.

\* After Run 2, this is 30-1032 mica, List .35.

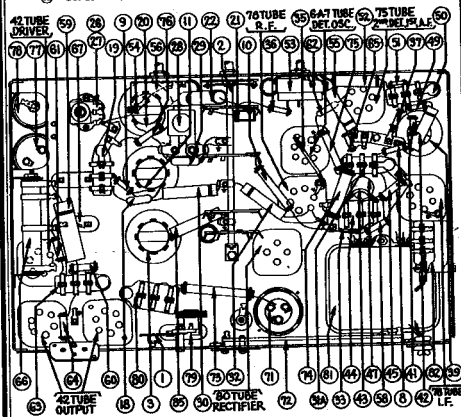


Fig. 3. Bottom View of Chassis

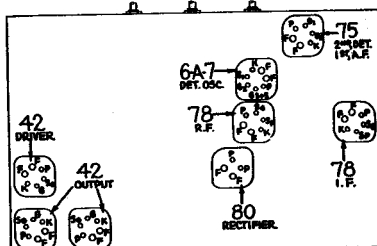


Fig. 1. Tube Sockets as viewed from bottom.

## Power Transformer Data

Terminals	A.C. Volts	Current	Circuit	Color
1-2	120	.....	Primary	White
3-5	760	140 M.A.	Secondary	Yellow
6-7	5.0	2.0 A.	Fil. Rect.	Blue
8-9	6.3	3.75 A.	Filaments	Black
4	...	.....	Center Tap of 3-5	Yellow, Green Tracer

# PHILCO RADIO & TELEV. CORP

MODELS 623, 623B, 623F

630, 630(121)

640(121) 640B

641, 642, 643, 650

**Changes**

## MODEL 623 (Continued)

Approximate Date of Change	Run No.	CHANGES
..	9	<p><b>S. W. SECTION OF OSC. TRANSFORMER</b></p> <p>Condenser @ and Resistor @ 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. 30-1040 inserted.</p> <p>The connection between the bottom (S. W.) primary and secondary of the Oscillator Transformer was broken and condensers @ and @ connected between the bottom of the secondary and ground. Resistor @ removed. The lead connected to the top of the primary disconnected and brought down to the bottom of the secondary. Resistor @ also removed.</p> <p>A lead from the bottom of the primary was connected to the lead running from Condenser @ to Resistor @. The oscillator plate wire was disconnected from this lead and brought down to the top of the primary.</p> <p><b>BROADCAST AND POLICE SECTION OF OSC. TRANSFORMER</b></p> <p>Resistor @ was disconnected from the bottom of the upper section of the Osc. Transformer and connected to the switch side of the Condenser @.</p>

## MODEL 623-B and 623-F

9-1-35	..	Remove bezel glass gasket, Part No. 27-7981, and replace with Part No. 27-8F36.
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## Model 630 (Code 121)

10-1-35	4		
	Old Part	New Part	
Resistor @	33-1040 (1/2 watt) 4,000 ohms	33-1031 (1/2 watt)	
Resistor @	6650 (1/2 watt) 20,000 ohms	6649 (1 watt)	
11-1-35	7	Remove Shadowmeter Shunt Resistor @ Part No. 33-1040 (4,000 ohms).	
Part	Schematic No.	Old Part	New Part
Shadowmeter	@	45-2086	45-2083

## MODEL 630

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

## MODEL 640 (Code 121)

8-1-35	6	Replace Resistor @, Part No. 6650 (20,000 ohms) with Part No. 33-1177.
	4	Replace speaker plug socket, No. 27-6033 with No. 27-8032.
		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 @ on base view in bulletin should be 2nd I. F. Part @, 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		
<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>
Tuning Condenser	⑤	31-1556	31-1671
Run No. 10			
Shadow Meter	⑤	45-2086	45-2083
Resistor	⑥	33-1040	Removed

## MODEL 640-B

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

## MODEL 641

9-1-35	..	Connect an 8,000 ohm resistor, Part No. 33-1114, across shadow meter.
10-1-35	..	<p><b>Corrections in Replacement Parts List</b></p> <p>Part @ .015 mf. Condenser is part of (64-A)</p> <p>Part @ should be .03 mf. and the correct Part Number is 30-4926.</p> <p>Part @ should be 3015-DG.</p> <p>Referring to bottom view of chassis, condenser marked @ should be @ and condenser @ changed to @.</p> <p>Capacity of sections in @ is (.05 — .2 — .75 — .09 — .25).</p> <p>Part Number of B-C Resistor is 33-8214.</p> <p>List Price 25c.</p> <p>Price of No. 27-4225 Waveband Knob, List 10c.</p>

11-1-35	..		Part	Old Part	New Part
			Bezel Assembly	40-5722	40-5724

12-1-35	2	A .00011 Mf. Condenser, Part No. 30-1081 is connected from the plate of the 85 Detector Tube to the Cathode Circuit.
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## MODEL 642

9-1-35	Tone Control @	Old Part	New Part
		30-4316	30-4392
12-1-35	2	The Dial and Mask Assembly were changed to the Glowing Arrow Wave Band Indicator Type.	

Part	Schematic No.	Old Part No.	New Part No.
Tuning Condenser	@	31-1626	31-1741
Hub and Set Screw Assembly		31-1650	31-1724
Mask Assembly			27-5137
Glowing Arrow Screen			27-5166
Screen Bracket			31-1760
Glowing Arrow Mask			27-5167
Mask Arm			29-3274
Link			29-3285
Coupling			29-3586
Pilot Lamp Assembly		38-7032	
Wave Switch	@	42-1107	42-1152

## MODEL 643

9-1-35	..	Filament current reads (point) .750MA. It should read 750MA.	
		Part No. 33-5119 @ 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.	
		Pilot Lamp @, Part No. 5316, should be Part No. 34-2065.	
11-1-35	3		
Part	Schematic No.	Old Part	New Part
Condenser	@	6369 (.006 mf.)	30-1081 (.00011 mf.)

## MODEL 650

11-1-35	13		
<u>Part</u>	<u>Schematic No.</u>	<u>Old Part</u>	<u>New Part</u>
Tuning Condenser	Ⓢ	31-1556	31-1671
Code 121, Run No. 15.			
Code 122, Run No. 13.			
Shadow Meter	Ⓢ	45-2086 & 45-2082	45-2088
Resistor	Ⓢ	6096	Removed

## MODELS 650, 660, 680 (122)

## Parts Catalog PHILCO RADIO &amp; TELEV. CORP.

## Changes

## MODEL 650

Approximate Date of Change	Run No.	CHANGES
8-1-35	9	Add Part No. 27-8001 Bezel Light Guard. Part @ on base view in bulletin should be 2nd I. F. Part @, 1st I. F. PRICE CORRECTION— Part No. 33-3211 @ resistor: correct list price is \$.65 instead of \$1.60. Part No. 30-4185 tubular condenser (used in several models) price changed from \$3.40 to \$0.25 list. Effective July 15, 1935.
Part	Remove	Schematic No. Install
1st I. F. Transformer	32-1835	⊗ 32-1917
Condenser	3615-DG	3615-DU
Rubber Bumper	27-4150	
Bezel Glass Gasket	27-7981	27-8006
Bezel Frame Gasket		27-7972
Conversion Code 121 to 123 (RX) —		
Electrolytic Condenser	30-2025	⊗ 7464
Dial Assembly	31-1533	31-1651
Line Cord	L-943A	
Antenna Power Cord		41-3104
Shadow Meter	45-2086	⊗ 45-2082
Tone Control	30-4343	⊗ 30-4378
By-Pass Condenser	3615-OSU	⊗ 3015-OSU
By-Pass Condenser	6287-DU	⊗ 6287-ODU
By-Pass Condenser	3615-SG	⊗ 3615-OSG
By-Pass Condenser	3793-DG	⊗ 3793-ODU
By-Pass Condenser	3615-DSU	⊗ 3615-ODU
By-Pass Condenser	8035-DG	⊗ 8035-ODG
9-1-35	12	Replace Part No. 30-4351 @ Tone Control with Part No. 30-4379 .110 mmfd. condenser, Part No. 30-1081 @ 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 ⊗	5385 (70,000 ohms)	33-1115
Resistor ⊗	6208 (15,000 ohms)	33-1177
Resistor ⊗	5310 (5,000 ohms)	6096
Resistor ⊗	5837 (1,000 ohms)	33-1028
	Wiring Panel	38-6151

These changes made to reduce hum.

## MODEL 660

9-1-35	8	Remove rubber bumper, Part No. 31-1706, (to prevent microphonics). B.C. Resistors @, Part No. 33-5020, in Bulletin No. 223, should be 33-5020. Compensating Condenser No. @ in Fig. 2 is labelled "standard." It should be "police"; also Condenser No. @ is labelled "police" and should be "standard."
Part	Old Part	New Part
Tone Control (Code 121)	30-4343	30-4378
2nd I. F. Transformer ⊗	32-1734	32-1865
Tone Control (Code 122)	30-4351	30-4379
11-1-35	..	Shadow meter shunt resistor (2000 ohms) Part ⊗, Part No. 6984, removed. Reverse Numbers @ and ⊗ shown in Fig. 2.
Part	Schematic No.	Old Part New Part
Condenser	5 ⊗	30-4123 (.05 mf.) 30-4170 (.1 mf.)
Tuning Condenser	3 ⊗	31-1706 31-1683
Dial Hub Assembly		31-1675 31-1724
12-1-35	..	September Change Notices indicated a change of the 2nd I. F. Transformer ⊗. The Part Number of the new Transformer is 32-1865 and the corresponding Compensating Condenser Number is 31-6987.

## MODEL 680 (Code 122)

Approximate Date of Change	Run No.	CHANGES
11-1-35	4	340,000 ohm resistor, Part No. 32-1097, 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 35-1158. Shadow Meter (120), Part No. 45-2088 is replaced with No. 45-2083. Shunt Resistor (121), Part No. 7352 (6,000 ohms) removed.
12-1-35	5	
	6	Sensitivity Control (85), Part No. 33-5124 is replaced with Part No. 33-5144. The correct number and price for Input Transformer (167) is 32-7447 at \$5.00.

## U-7 SPEAKER

9-1-35	..	The correct cone assembly number for the type U-7 speaker is 36-3381.
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## CORRECTIONS IN 1936 PHILCO PARTS CATALOG

Tubular Paper Condenser 30-4346 should be 30-4336, working voltage, 1000.  
Tubular Condenser Kit (page 13), Part No. 45-1100 should be 45-1139.  
Tuning Condenser 31-1030 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. 38-6885 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 8503.  
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 36-8159, list \$0.80 instead of 62996 (list \$0.90).  
Field Coil, S-15 Speaker should be 36-3519 instead of 36-8779.

## 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