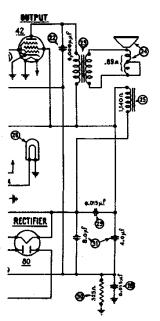
	Philco	Radio & Television	Corp.			
	Model: 630	Chassis:	Year: Pre October 1937			
	Power:	Circuit:	IF:			
	Tubes:	•	•			
	Bands:					
		Resources				
Riders Volume 8 - CH	ANGES 8-2					
Riders Volume 11 - Cl	HANGES 11-3					
Riders Volume 6 - PH	ILCO 6-31					
Riders Volume 6 - PH	ILCO 6-32					
Riders Volume 6 - PH	ILCO 6-33					
Riders Volume 7 - PH	ILCO 7-97					
Riders Volume 7 - PH	Riders Volume 7 - PHILCO 7-98					
Riders Volume 7 - PH	Riders Volume 7 - PHILCO 7-149					

Philco 59

The schematic, furnished by the manufacturer and shown on page 5-30 of Rider's Volume V, has an error in the field coil circuit, Part No. 25. Compare



Partial schematic of Philos 59, showing correct wiring of the field coil, Part No. 25.

the partial schematic shown here with the one mentioned above and you will see the difference in the connections to the field coil.

Philco 37-33

Starting with Run No. 3, the filament wiring of the 1D5G i-f. tube was reversed, thus improving operation of the set. In Fig. 1 on page 7-16 of Rider's Volume VII, the left-hand filament terminal of this tube is marked "2 volts." This terminal is now grounded to the chassis.

Referring to Fig. 3 on the same page, resistor No. 8 has been removed from the r-f. terminal panel and connected directly from the oscillator grid contact on the 1D7G socket to ground. This change improved the sensitivity in the center of the broadcast band.

Philco 630

The schematic of this receiver shown on page 6-31 of Rider's Volume VI indicates a ld-coil resistance of 1140 ohms. This is incorrect and should be 640 ohms. Please make this change in your Volume VI.

Philco 6!

The schematic of this receiver was published on the following pages of Rider's Volume I: page 1-16 of the revised edition and page *459 of the early edition; and on page 1038 of the Rider-Combination Manual. At the time of publication the values of the parts were unobtainable and these are now given in the list below. The first column is the idensifying number used on the schematic; the second column is the part number; and the third column is the value.

Sche-	•
matic	Part
Number	Number Value
1	3524 10,000 ohms
5	3292A .1 mf. — 250 ohms
6	3584A .05 mf 250 ohms
13	3583 .5 mf.
14	3525 32,000 ohms
21	3422 200 "
22	3526 5,000 "
23	3518 4,000 "
24	3512 2700 ohms (700,2000)
25	3528 2,000 oh.ns
26	3628 6 "
27	3292B .05 mf. 00 250 ohms
29	2850 3200 "
4/	2070 3200

Philco 645

The schematic of this set will be found on page 7-109 of Rider's Volume VII. Several changes have been made, as follows:

Starting with Run No. 3, the 51,000-ohm resistor, No. 16, has been removed. A 32,000-ohm resistor, ½ watt, Part No. 33-332334, has been connected from the oscillator grid of the 6A7 to the suppressor grid of the 78 r-f. tube. The 0.05-mf. condenser, No. 61, has been removed. The 25,000-ohm resistor, No. 60, has been replaced with one having a value of 240,000 ohms, ¼ watt, Part No. 33-424143.

A 0.06-mf. condenser, Part No. 30-4114, has been connected from the —C end of the B.C. resistor, No. 64, to the junction of the 1-megohm and 490,000-ohm resistors, Nos. 66 and 67.

The filament voltage of the 80 rectifier is shown as 6.3 volts in Fig. 3 on page 7-108 of Rider's Volume VII. This should be 5.0 volts.

Beginning with Run No. 4, the green and yellow leads of the a-f. input transformer, No. 52, were reversed to reduce hum.

Philco 651

The leads of the i-f. transformer should be separated as widely as possible from each other, in order to reduce the possibilities of i-f. oscillation. This means, too, that the leads from one of these transformers should be as far as possible from the leads of the other.

The -B lead from the suppressor plate terminal of the 78 r-f. tube to the wiring panel mounted on the 0.05-mf, condenser, No. 72, should be run close to the baseboard and away from the wave trap coil. This should eliminate motor-boating at 540 kc.

For schematic, see page 7-111, Rider's Volume VII.

Philco 655

In the paragraph titled "Police" of the alignment instructions on page 7-116 of Rider's Volume VII, it reads that the detector trimmer No. 11 should be adjusted for maximum output. This should be trimmer No. 12 to conform with the layout of Fig. 4 at the top of the page.

In Fig. 1, the designations of the r-f. transformers on page 7-114 shoul 1 b. changed as follows: 15-A, oscilla.or, to 16; 9, antenna, to 3; and 14, detector, to 10. To correct the lead designations of the oscillator transformer, No. 16 on the schematic, change No. 3 to 7; 7 to 5; 5 to 4; and 4 to 3.

Another error in the manufacturer's data was in the tube layout shown on the top of page 7-115 of Rider's Volume VII. The second detector is a 75, not an 85. The designation on the schematic on this same page is correct. Please make these changes in your Volume VII.

Beginning with Run No. 2, the 51,000-ohm resistor, No. 14, was removed and a 32,000-ohm resistor, Part No. 33-332334, ½ watt, was connected from the oscillator grid of the 5A7 to the suppressor of the 78 r-f. tube.

Phiico I-F. Peaks

In certain localities it has been found advisable to align certain twoand three-gang Philco sets at some other i-f. peak than the one for v hich they were designed, i.e., 470 kc. This change has been found necessary because of some interference that is peculiar to these localities: Portland, Maine; Miami, Fla.; New Haven, Conn.; San Diego, Cal.; about one third of northern Long Island; Newark and southern New Jersey.

Therefore, if you are operating in any of these places and are bothered by code interference, align either of the two type sets mentioned above at 456 kc., 465 kc., or 480 kc. The i.f. peaks just mentioned are to be used depending on the location and type of interference.

Remier 49, 171

The Remler Model 171 is identical with Model 49, shown on page 9-3 of Rider's Volume IX. The following additional information, not included on page 9-3, is now available.

The antenna-RF coil is located near the back of the chassis and is trimmed by the trimmer on the rear section of variable condenser. The detector coil is located under the chassis and is trimmed by the trimmer on the front section of the variable condenser.

The following table shows the d-c voltages to ground with no signal and the volume control at full volume.

Tube	Plate	Screen	Cathode
6D6	180	180	4.5
6C6	70	180	9.0
41	170	180	0

The d-c voltage of the bias supply for the 41 grid is a 15-volt drop across resistor (9) in the negative side of the power supply.

Airline 62-362 Issue B

Several changes are included in Issue B of the Model 62-362 Airline receiver (above serial number 8J285-200) as compared with the Model 62-362 shown on Montgomery-Ward pages 9-45 to 9-47 of Rider's Volume IX. Fig. 1 shows that condensers C1, C4, C5, C6, and C9 are mounted in the same unit in Model 62-362, Issue B. Fig. 1 of course corresponds to the layout shown in the upper left-hand corner of page 9-45.

Fig. 2 shows the output end of the schematic for Issue B of Model 62-362. By comparing Fig. 2 with the corresponding portion of the schematic shown on page 9-45, you will notice the new position of the tone control consisting of R14 and C20, and also the two resistors R16 and R17 added across the winding of the phonograph pickup coil.

The accompanying table lists the part numbers and descriptions for Model 62-362 Issue B which are different from those listed on page 9-45.

Schematic Reference R5 R16 R17	Part Number BE130144 BE130238 BE13020	Description 15,000 ohms, 1 w. 400,000 ohms, 34 w. 100,000 ohms, 34 w.
C1	BE12456	3-35 mmf adjustable trimmer
C4	BE12456	2-15 mmf ""
C5	BE12456	2-15 mmf ""
C6	BE12456	2-15 mmf " "
C9	BE12456	450 mmf working capacity,
C20 C22	BE1292 BE10092	series pad .0005 mf, mica .001 mf, 600 v

Philso 630, 630PF

Certain oscillator trimmers are incorrectly numbered on pages 6-32 and 6-33 of Rider's Volume VI (early model 630 Philco). In Fig. 2 and in the alignment instructions, both on page 6-32, the reference numbers should be changed as follows: Change 13 to 16; change 14 to 17; change 16 to 13; change 17 to 14. The same changes should be made in the parts list on page 6-33. These changes must be made so that the reference numbers will agree with those shown on the schematic which appears on page 6-31. Do NOT alter the numbers on the schematic.

These errors in numbering also appear in the parts list for the late Model

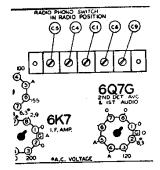


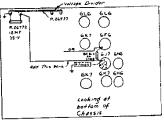
Fig. 1, above. The five trimmers, C1, C4, C5, C6, and C9 model 62-362.

matic of the output circuit of the Issue B shows the change in the tone control and two new resistors across the pickup coil.

630 and the Model 630PF Philco. Therefore the reference numbers on page 7-98 of Rider's Volume VII must be changed as follows: Change 13 to 16; change 14 to 17; change 16 to 13: change 17 to 14.

Stromberg 160-L

Variations in new 6J7 tubes have occasionally caused distortion in the automatic tone-control circuit of the Stromberg Model 160-L receiver as first released. These tubes function correctly after "aging" a few hours.



By adding the wire indicated, distortion can be eliminated from the automatic tone control circuit of the Stromberg Model 160-L

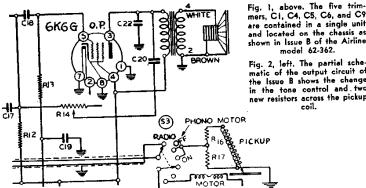
This possibility of distortion can also be eliminated by adding a wire as shown in the accompanying layout. This change stabilizes the screen voltage; it was put in effect at the factory in all 160-P and 180-L receivers, and in all 160-L receivers produced after October 23, 1936.

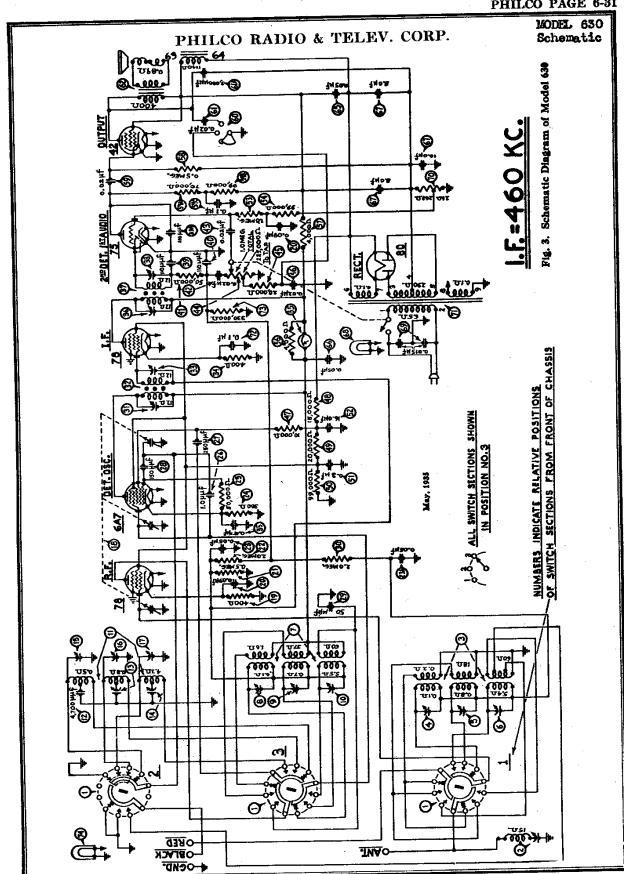
Philco 37-62

In order to eliminate oscillation, the screen resistor, No. 11, has been changed from 25,000 ohms to 32,000 ohms. See schematic on page 8-19 in Rider's Volume VIII.

Fairbanks-Morse 12A

Refer to the schematic shown on page 8-11 of Rider's Volume VIII. During production, the 47,000-ohm resistor in the AVC line which was connected to the bottom of the antenna coil secondary, and the condenser (4) were removed. The r-f secondary was then grounded directly, thus removing AVC from the 6L7G mixer tube, and the bottom of the antenna coil secondary was connected directly to the resistor (16). The condenser (33) in the grid circuit of the 6C5G oscillator was changed from 50 mmf to 100 mmf to increase sensitivity on the u-h-f band.





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MODEL 630

Voltage, Trimmers Chassis, Alignment

PHILCO RADIO & TELEV. CORP.

Data

Type Circuit: Superheterodyne, with preselector R.F. amplifier, and pentode output (5 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 Output; 1 type 80 Rectifier.

Wave Bands: Three—(1) standard (with some Police); (2) Police, Aircraft and Amateur; (3) Short-wave.

Coverage of Each Band: Band 1, 540-1720 K.C.; Band 2, 1750 to 5800 K.C. (1.75-5.8 megacycles); Band 3, 5700-18000 K.C. (5.7 to 18.0 megacycles).

Tuning Drive: Two-speed gear drive, ball bearing. 50 to 1 ratio for slow-speed tuning.

Tone Control: 3-position, with bass compensation effective in first position.

Intermediate Frequency: 460 K.C. Power Consumption: 70 watts.

Tube Socket Voltages Measured to Ground

Tube	78 R.F.	6A7 Det. Osc.	78 I.F.	75 2d Det.	42 Output
Point P	245	245	245	188	298
SG	102	102	102		311
K	2.7	2.6	2.6		
	6A7: G	2 & 5 = 175		I	1

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 maximum; dial at 55; waveband switch counter-clockwise (band 1). Use Fig. 1 for test points. Line voltage 115 volts.

Adjustment of High and Low Frequency Compensators

1. With the wave-band switch still at Range No. 1 (broadcast band), set the dial at 1700 K.C. Set the signal generator at this frequency and adjust compensators (a), (b) and (a) for maximum output. These are the oscillator, antenna, and R.F. "standard" compensators respectively.

2. Tune the receiver and the signal generator to 600 K.C and adjust compensator ② (screw) for maximum output This is the oscillator L.F. standard compensator.

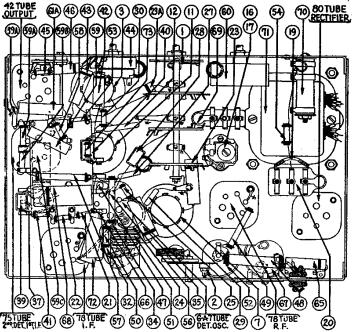
3. Turn the waveband switch to the second (middle) position. Set the dial at 3.6 M.C. at which point the fundamental of the 091 signal will be heard. If the Model 088 Signal Generator is being used, set it at 3.6 M.C. Adjust condensers (3), (8) and (9) in succession. These are the oscillator, antenna and R.F. police band adjustments.

4. Turn the tuning dial to 1.8 M.C., and set the signal generator (Model 026 or Model 088) at 1800 K.C. Adjust condenser [®] (Osc. L.F., police) (nut), to maximum signal.

5. Turn the wave-band switch to Band 3 (extreme right) and adjust the station selector to 18.0 megacycles. Set the signal generator at 18 M.C. By means of the Philco wrench, part No. 3164, adjust the oscillator S.W., antenna S.W. and R.F. S.W. compensators for maximum reading in the output meter. These are numbered (B), (1) and (3) respectively in figure No. 2.

Power Transformer Data

Term- inals	A.C. Volts	Current	Circuit	Color
12	120		Primary	White
35	746	78 M.A.	Secondary	Yellow
6–7	5.0	2.0 A.	Fil. Rect.	Blue
8-9´	6.3	2.25 A.	Filaments	Black
4 AOTURE			Center Tap of	Yellow, Green Tracer



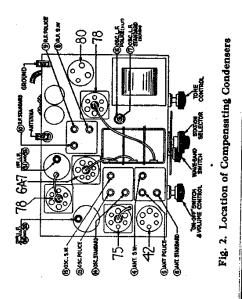


Fig. 4. Bottom View of Chassis

CJohn F. Rider, Publisher Courtesy Nostalgia Air

PHILCO RADIO & TELEV. CORP.

MODEL 630 Alignment, Part 2 Socket, Parts

Replacement Parts—Model 630

K	eplacement Parts—Mo	del (530
	Description	Part No.	List Price
1	Wave Band Switch	42-1107	\$1.75
<u> </u>	Wavetrap		1.10
③	Antenna Transformer		3.00
④ ⑤ ⑥ ⑦	Compensating Condenser (Ant. S.W.)		
3	Compensating Condenser (Ant. Police)	Part of (3)	
③	Compensating Condenser (Ant. Standard)	Part of 3	
Ð	R. F. Transformer	32-1636	3.25
◉	Compensating Condenser (R.F. Short-Wave)		
(A)	Compensating Condenser (R.F. Police)	Part of ①	• • • •
10)	Compensating Condenser (R.F. Standard)		
Œ.	Oscillator Transformer		2.50
13	Condenser (.0047 Mfd. Mica)		.60
®	Compensating Condenser (Osc. Police)	~	
œ.	Compensating Condenser (Osc. H. F. Standard)		
<u>(i)</u>	Compensating Condenser (Osc. S. W.)		
10 17	Compensating Condenser (Osc. L.F. Police) Part of Compensating Condenser (Osc. L.F. Standard) Part of	31-6027	.70
(B)	Tuning Condenser Assembly		2.75
Œ)	Resistor (400 ohms Flexible) (Vellow, Black,		
_	Brown)	33-3016	.20
(20)	Condenser (.09 Mfd. Twin Bakelite Block)		.46
(2)	Resistor (.5 Meg.) (Yellow, White, Yellow)	6097	.20
2	Resistor (2 Megs.) (Red, Black, Green)	33-1025	.20
➂	Condenser (.05 Mfd. Tubular)	30-4020	.3:
@ ?	Condenser (.05 Mfd. Tubular)	30-4020	.3
➂	Resistor (300 ohms Flexible) (Orange, Black,		
	Brown)	33-3010	.2
⊚	Resistor (50000 ohms) (Green, Brown, Orange)		2
寥	Condenser (1 Mmfd.)		
Ø	Condenser (.00025 Mfd. Mica)		.3
®	Condenser (.00015 Mfd. Mica)		.3
@	Condenser (.00005 Mtd. Mica)		.3
®	Resistor (2 Megs.) (Red, Black, Green)	_	.2
0	Compensating Condenser (1st I.F. Primary)		
(32)	1st I.F. Transformer	32-1646	\$2.2
(3)	Compensating Condenser (1st I.F. Secondary)		9
34)	Resistor (400 ohms Flexible) (Yellow, Black,		_
_	Brown)		.2
(B)	Condenser (.1 Mfd. Tubular)		.3
<u>@</u>	Compensating Condenser (2nd I.F. Pri.)		2.2
(3)	2nd I.F. Transformer		
(38)	Condenser (.00011 Mfd. Mica)		
	a Condenser (.00011 Mfd. Mica)		.3
(B)	Condenser (.00011 Mfd. Mica)		.3
•	Resistor (50000 ohms) (Green, Brown, Orange)		.2
*	Condenser (.02 Mfd. Tubular)		.4
(3)	Condenser (.02 Mfd. Tubular)		.3
(ii)	Volume Control and On-Off Switch		1.4
3	Resistor (20000 ohms) (Red, Black, Orange)		.2
16)	Condenser (.02 Mfd. Tubular)		
ñ	Resistor (10000 ohms) (Brown, Black, Orange)		
18)			.:
15)			.2
50)			.:
.1)			
.52	Condenser (16 Mfd. Electrolytic)	. 30-2118	1.4
53			-
(3)	Resistor (99000 ohms) (White, White, Orange)		
(53)	Shadow Tuning Meter		2.
(55)	Resistor (4000 chuns) (Yellow, Black, Red)	. 33-1040	
67			-
(8)			
(39)			
	a Resistor (70000 ohms) (Violet, Black, Orange)		
	b Resistor (99000 ohms) (White, White, Orange)		
- 3	c Condenser (A Mfd. Tubular)		-
(6)		Part of 6	_
(0)	a Condenser (.003 Mfd. Tubufar)		.
6			1.
63		36-3159	-:
(G			3.
(3)		. 30-4020	
(6)		. 30-4020	
	the second secon	. 30-2073	2.
(F)			
	Pilot Lamp (Shadow Tuning Meter)	. Part of (59 .
(AT	Pilot Lamp (Shadow Tuning Meter) Condenser (.015 Mfd. 7 win Bakelite Block)	. Part of (. 3793-DC	169 .

(T)	Power Transformer (115 Volts 60 Cycles)	32-7384	5.50
_	(115 Volts 25 Cycles)	32-7385	7.75
	(230 Volts 50 Cycles)	33-7386	5.75
അ	Condenser (.1 Mfd. Tubular)		.35
ത്	Resistor (330,000 ohms) (Orange, Orange, Yellow).		.20
ũ	Pilot Lamp		.09

*After Run 2, this is 10000 ohms ,Part 3524. 1After Run 2, this is 20000 ohms ,Part 6650

Adjusting Compensating Condensers

The adjustment of the compensating condensers in Model 630 requires a signal generator covering the broadcast and police band, and also one capable of producing a signal at certain frequencies in the short wave band. Philco Model 088 All-wave signal generator is ideal for these requirements. Or you can use the Philco Model 024 or 048A instrument for the broadcast frequencies, and the Model 091 crystal controlled short wave signal generator for the "short wave" frequencies. The location of all compensating condensers is shown in Fig. 2. An output meter is also needed, such as in Philco Model 025

Adjustment of I. F.

1. Remove the antenna connection from the receiver, disconnect the grid clip from the first detector (type 6A7 tube), and connect the "ANT" output terminal of the broadcast signal generator to the grid cap of this tube; connect the "GND" terminal of the signal generator to the "GND" terminal of the receiver.

terminal of the receiver.

2. Connect the 0 to 30 volt range of the output meter in the Philco 048A or 025 unit to the plate and cathode of the output tube or to the two bottom prongs of the speaker plug.

3. Adjust the signal generator to a frequency of 460 K.C. Place the receiver in operation with the dial turned to the low frequency end of the standard broadcast band, wave band switch to extreme left (clockwise), and have the volume control adjusted near its maximum setting. Adjust the signal generator attenuator for approximately half-scale reading of the output meter.

4. The I.F. compensating condensers are located at the tops of the I.F. coil shields. The primary is adjusted by turning the screw in top and the secondary by the nut. Adjust condensers and (a) (2d I.F. primary and secondary) for maximum reading in the output meter, and then condensers and (a) (1st I.F. primary and secondary).

Adjustment of Wave-Trap

1. Connect the signal generator leads to the antenna and ground terminals of the receiver. Replace the grid clip on the 6A7 grid cap.

2. With the wave-band switch of the receiver still in the extreme left (standard band), (540-1720 K.C.), turn the station selector to 55.

3. With the signal generator in operation at 460 K.C., adjust the wave-trap ② condenser until a MINIMUM reading is obtained on the output meter. The Philco fibre wrench, part No. 3164, is used for this adjustment. The wave-trap compensator is reached from rear of chassis.

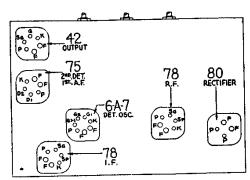
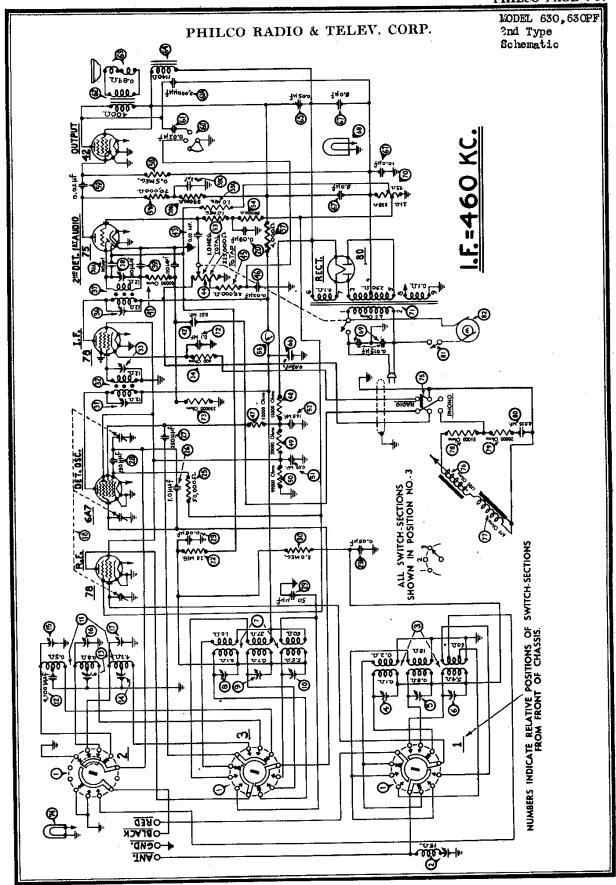


Fig. 1. Tube Sockets as viewed from bottom



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MODELS 630,630PF Changes, Parts

PHILCO RADIO & TELEV. CORP.

Later 1935 Production Runs

This sheet supplements the regular bulletin No. 219 on the Philco 630 and also covers the Philco Radio-Phonograph 630PF. All circuit and part number changes up to date have been included.

Beginning with run No. 5 the grid bias arrangement for the 78 R.F. and 6A7 1st detector was changed. A fixed bias from the B.C. resistor is fed through the AVC circuit to the grids of these tubes.

PARTS LIST

	Describedos	10 N 1-	List		.		List
െ	Description Wave Band Switch	Part No.	Price	_		Part No.	Price
0			\$1.75	9	Resistor (1 Meg.) (Brown, Black, Green)		\$0.20
ő	Antenna Transformer		1.10		Resistor (1. Meg.) (Brown, Black, Green)	33-1096	.20
ő	Compensating Condenser (Ant. S.W.)		3.00	₩	Resistor (99000 ohms) (White, White, Orange)		.20
ő			• • • •	89	Shadow Tuning Meter		2.00
l ŏ	Compensating Condenser (Aut. Police) Compensating Condenser (Ant. Standard)	Part of (a)	• • • •	99	Condenser (.05 Mf. Twin Bakelite)		
l ő	R. F. Transformer	Part of (8)		9	Resistor (4000 ohms) (Yellow, Black, Red)	33-1031	.20
ĕ	Compensating Condenser (R.F. Short-Wave)	32-1636	3.25	9	Resistor (490,000 ohms) (Yellow, White, Yellow)	22 1007	
ŏ	Compensating Condenser (R.F. Police)	Part of (7)		99	low)		.20
ĕ	Compensating Condenser (R.F. Fonce)	Part of (1)	• • • •	~	Resistor (70000 ohms) (Violet, Black, Orange).		
0	Oscillator Transformer	Part of (7)		90h			.20 .20
10	Condenser (.0047 Mfd. Mica)	32-1037	2.50	_	Condenser (.09 Mf. Bakelite)		
i	Compensating Condenser (Osc. Police)	30-1032	.60	ĕ	Tone Control (3 position)		.75
Ø	Compensating Condenser (Osc. H.F. Standard)	Part of @		•	Condenser in Tone Control		
<u>@</u>	Compensating Condenser (Osc. S.W.)	Part of (i)					.25
l ă	Compensating Condenser (Osc. L.F. Police)	rart or (i)	• • • •	€	Output Transformer		1.60
~		31-6027		•	Voice Coil & Cone Assembly (K-32)		.80
6	Compensating Condenser (Osc. L.F. Standard)	31.002/	.70	0	Field Coil & Pot Assembly (K-32)		3.25
ĭ		31-6027		ĕ	Condenser (.05 Mfd, Tubular)		.35
0	Tuning Condenser Assembly	31-002/ /		ĕ	Condenser (.05 Mfd.)		
liğ	Condenser (.09 Mfd. Twin Bakelite Block)	31-1/41 4090 D.C	40	6	Condenser (8 Mfd., 8 Mfd., 10 Mfd. Electrolytic)		2,15
0	Resistor (1 Meg.) (Brown, Black, Green)	7707·1JU	.40 .20	ě	Pilot Lamp (Shadow Tuning Meter)		
6	Condenser (.05 Mfd. Tubular)	30-1090	.35	ĕ	Condenser (.015 Mfd. Twin Bakelite Block)		
⊕ a	Condenser (.05 Mfd. Tubular)	20-4020		<u>@</u>	Resistor (BC Wirewound-22 ohms, 25 ohms,	5175-DG	.40
9	Resistor (50000 ohms) (Green, Brown, Orange)	50°4020 6000	.35 .20	•		33-3222	.20
8	Condenser (1 Mmfd.)	Doort of (A	.20	ூ	Power Transformer (115 Volts 60 Cycles)	32-7384	5.50
9	Condenser (.00025 Mfd. Mica)	30-1032	.35		(115 Volts 25 Cycles)	32-7385	7.75
⊕	Condenser (.00015 Mfd, Mica)	30.1033	.35		(230 Volts 50 Cycles)	33-7386	5.75
®	Condenser (.00005 Mfd. Mica)	30.1020	.35	€	Condenser (.05 Mf.)	Part of @	• • • • •
- 69	Resistor (51000 ohms) (Green, Brown, Orange)	6098	.20	™	Resistor (330,000 ohms) (Orange, Orange, Yel-		
90	Compensating Condenser (1st I.F. Primary)	Part of 69	.20	_	low)		.20
❷	1st I.F. Transformer	32.1646	2.25	€	Pilot Lamp		.09
⊕	Compensating Condenser (1st J.F. Secondary)	Part of 60			Phono Switch Cable Assy		1,30
❷	Resistor (400 ohms Flexible) (Yellow Black		••••		Pickup Head Assy		7.25
l	Brown)	33.3016	.20		Hum Bucking Coil Assy.		1.10
€	Compensating Condenser (2nd I.F. Pri.)	Part of 60			Resistor (51,000 ohms)		.20
€	2nd I.F. Transformer	22.1647	2.25		Resistor (20,000 ohms)		.20
9	Compensating Condenser (2nd I.F. Sec.)	Part of 6	2.23		Condenser (.025 Mf.)		.35
99	Condenser (.00011 Mfd.) (Twin Rakelita)	603E D.C	.35		Automatic Stop		3.15
®a	Condenser (.00011 Mfd. Mica)	30.1031	.35	•	Dial Scale		20.00 .25
169	Condenser (.00011)	Part of A			Dial Hub & Set Screw	31-1550	.15
⊕	Kesistor (50000 ohms) (Green, Brown, Orange)	KAOR	.20		Dial Front Spring	28-2837	.10
@	Condenser (.02 Mfd. Tubular)	30.4215	.30		Knob (Station Selector)	27-4206	.12
₩	Condenser (.02 Mfd, Tubular)	30.421E	.30		Knob (Fine Tuning)	27-4207	.10
0	Volume Control and On-Off Switch	33,5105	1.45		Knob (Waveband)	27-4219	.10
(0)	Resistor (20000 ohms) (Red, Black, Orange)	33-1178	.20		Tube Shield	28.2726	.10 .10
999	Condenser (.02 Mfd, Tubular)	20.4215	.30		Tube Shield Base	28-2725	.03
•	Resistor (10000 ohms) (Brown, Black, Orange)	4412	.20		Tube Socket (4-Prong)	27-6034	.10
⊕	Resistor (15000 ohms) (Brown, Black, Orange)	5718	.35		Tube Socket (6-Prong)	27-6036	.11
9	Resistor (20000 ohms) (Red, Black, Orange)	3524	.20		Tube Socket (7-Prong)	27-6037	.11
60	Resistor (20000 ohms) (Red, Black, Orange)	6649	.20		Speaker Plug Socket	27-6033	.08
1 60	Condenser (.15 Mtd. Tubular)	2014101	.40		Chassis Mtg. Washer (Rubber)		superC .01
∥ ຶ	Condenser (16 Mfd. Electrolytic)	30-2118	1.65		Electric Cord & Plug	L-943-A	.60
II							

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

PHILCO RADIO & TELEV. CORP 630.630(191)

MODEL 623	(Contin	ued)	MODEL 64	D-B C1	640(121)640B 641,642,643,650
Approximate Date of Change	Run No.	CHANGES	Approximate Date of Change	Run No.	CHANGES
	9	S. W. SECTION OF OSC. TRANSFOR	MER 9-1-35		Uses K31 instead of K21 Speaker.
	•	Condenser @ and Resistor @ w moved and the wires connected	ere re-	1	
		ends of these parts were connected at the connected at th	police 9-1-35		Connect an 8,000 ohm resistor, Part No.
		tap at the left of Switch Section	No. 2		33-1114, across shadow meter. Corrections in Replacement Parts List
		was broken and Condenser No. inserted.	311	••	Part @ .015 mf. Condenser is part of (64-A).
		The connection between the bott W.) primary and secondary of the lator Transformer was broken ar	e Oscil- II		Part ® should be .08 mf. and the correct Part Number is 30-4025.
		densers & and & connected between	een the		Part @ should be 3615-DG. Referring to bottom view of chassis, con- denser marked @ should be @ and con- denser @ changed to @.
		Resistor (removed. The lead co	nnected		denser & changed to &. Capacity of sections in & is (.05 — .2 —
		and brought down to the bottom	ved.		.75 — .09 — .25). Part Number of B-C Resistor is 33-8214.
		A lead from the bottom of the r was connected to the lead runnin Condenser (a) to Resistor (a). Th	e oscil-		List Price 25c. Price of No. 27-4225 Waveband Knob,
		lator plate wire was disconnected this lead and brought down to the the primary.	a mom	l —	List 10e.
-		BROADCAST AND POLICE SECTION OF OSC. TRANSFORMER	11	į	
		Resistor @ was disconnected fr	om the he Osc.	Part	Old Part New Part
		Transformer and connected to the side of the Condenser (8).	switch Be	zel Assembl	y 40-5722 40-5724
MODEL 62	3-B and	623-F	12-1-35		A .00011 Mf. Condenser, Part No. 80-
9-1-35		Remove bezel glass gasket, Pa 27-7981, and replace with Part .8036.	art No.		1031 is connected from the plate of the 85 Detector Tube to the Cathode Circuit.
Model 630	(Code 1	21)	MODEL 64	2	N. PA
10-1-85	4		0.1.95	Tone Contr	Old Part New Part 30-4316 30-4332
	1		9-1-35	Tone conta	
Resistor @	Old Part 33-1040 (New Part 38-1031 (1)	(watt)	2	The Dial and Mask Assembly were
Resistor 6	6650 (½ watt) 20.000 ohms 6649 (1		1	changed to the Glowing Arrow Wave Band Indicator Type.
11-1-85	7	Remove Shadowmeter Shunt Res Part No. 33-1040 (4,000 ohms).	Part	'	Schematic No. Old Part No. New Part No.
Part	Schem		w Part Tuning Conde	nser	n 31-1526 31-1741
Shadowmeter		© 45-2086 45-	-2083 Hub and Set S Mask Assembl Glowing Arro	У	27-5137 27-5166
MODEL 63	0	······································	Screen Bracke Glowing Arro	t	31-1760 27-5167
Schemat		Old Part No. New Pa	rt No. Link		29-3274 29-3285 29-3586
Ant. Transfor	mer ③	32-1699 32-1 32-1636 32-1	oco II Luot Damb ve	sembly	38-7032 ⊕ 42-1107 42-1152
Det. Transfor Osc. Transfor	mer (I)	32-1637 32-13			32-1101
MODEL 64	0 (Code		MODEL 64	13	
		Replace Resistor S, Part N (20,000 ohms) with Part No. 33-	1177.		Filament current reads (point) .750MA., it should read 750MA.
8-1-85	6	Replace speaker plug socket, 6033 with No. 27-6043.	No. 27-		Part No. 33-5119 (3) in Model 643, Bulletin No. 226, listed at \$1.10 changed to
	4	Replace 1st I. F. Transformer, I 32-1835 with No. 32-1917 to	Part No. prevent 12-1-35	ļ	\$1.45. Change Chassis Mounting Washer (rubbon) listed as 27-4021 to 27-4201.
		microphonics. Remove rubber bumper, No. 27.	-4150 to		ber) listed as 27-4021 to 27-4201. Pilot Lamp ®, Part No. 5316, should be Part No. 34-2065.
		prevent microphonics. Remove Bezel Light Guard No. Part on base view in bulletin	27-8001. a should Part	Schematic	
		be 2nd I. F. Part (7), 1st I. F. Replace Bezel Glass Gasket No.	11		6359 (.006 mf.) 30-1031 (.00011 mf.)
		with No. 27-8036. Add No. 27-7972 Bezel Frame Ga	L L	50	
11 4 68	·		11-1-35	13	
11-1-85			Part		natic No. Old Part New Part
	ert Condenses		w Part Tuning Cond		31-1556 31-1671
Run No. 10	Condenser	A 01-1000 01	Code 121, R Code 122, R	un 140, 15	
Shadow Resistor	Meter		2083 Shadow Meter noved Resistor	•	€9 45-2086 & 45-2082 45-2088 € 6096 Removed