

# PHILCO

High-Efficiency

# TUBES

# REPLACEMENT CHART

# FOR ALL PHILCO RADIOS

CHARACTERISTICS: "G" TYPES

# TABLE OF LIST PRICES

## TUBES USED IN ALL PHILCO RADIOS . . . 1928-1935

MODEL	YEAR	TOTAL TUBES	QUANTITIES & TYPES OF TUBES REQUIRED	LIST PRICE TUBE KIT	MODEL	YEAR	TOTAL TUBES	QUANTITIES & TYPES OF TUBES REQUIRED	LIST PRICE TUBE KIT
14 (1221 & 2)	1932-3	9	2-44, 1-36, 3-37, 2-42, 1-80.....	\$7.40	60	1933-5	5	1-6A7, 1-78, 1-75, 1-42, 1-80.....	\$4.85
14 (121-2-3)	1933-4	9	2-78, 1-6A7, 1-37, 1-77, 3-42, 1-80.....	8.55	65	1929	6	2-24, 2-45, 1-80, 1-27.....	4.50
15	1932-3	11	4-44, 4-37, 2-42, 1-80.....	9.00	66	1934	5	1-6A7, 1-78, 1-75, 1-42, 1-80.....	4.85
16	1933-4	11	1-76, 2-77, 3-78, 3-42, 1-37, 1-523.....	10.20	70	1931	7	4-24, 1-27, 1-47, 1-80.....	5.80
16B	1933-4	11	1-76, 2-77, 3-78, 3-42, 1-37, 1-80.....	10.00	70 Above				
17	1933-4	11	1-6A7, 3-78, 2-37, 1-77, 3-42, 1-523.....	10.55	Serial 22,000	1932	7	3-35, 1-24, 1-27, 1-47, 1-80.....	5.80
17B	1933-4	11	1-6A7, 3-78, 2-37, 1-77, 3-42, 1-80.....	10.25	71	1932	7	3-44, 1-36, 1-37, 1-42, 1-80.....	5.90
18	1933-4	8	1-6A7, 2-78, 1-75, 3-42, 1-80.....	7.85	76	1930	7	3-24, 1-27, 2-45, 1-80.....	5.40
19	1933-4	6	1-36, 2-44, 1-75, 1-42, 1-80.....	5.30	77	1930	7	3-24, 1-27, 2-45, 1-80.....	5.40
20	1930-1	7	3-24, 1-27, 2-71A, 1-80.....	5.40	80	1932	4	2-36, 1-42, 1-80.....	3.40
21	1931	7	3-24, 1-27, 2-45, 1-80.....	5.40	81	1933	4	2-77, 1-42, 1-80.....	3.60
22	1932	7	1-36, 3-44, 1-37, 1-42, 1-80.....	5.90	84	1934-5	4	2-77, 1-42, 1-80.....	3.60
23	1932	9	1-36, 2-44, 3-37, 2-42, 1-80.....	7.40	86	1928-9	8	4-26, 1-27, 2-71A, 1-80.....	5.10
24	1932-3	5	2-24, 1-35, 1-47, 1-80.....	4.20	87	1929	8	4-26, 1-27, 2-45, 1-80.....	5.10
25	1932-3	8	4-44, 2-37, 1-42, 1-80.....	6.60	89	1933-4	6	1-36, 2-44, 1-75, 1-42, 1-80.....	5.30
26	1933	6	1-36, 1-42, 1-75, 2-44, 1-80.....	5.30	89 (123)	1935	6	1-77, 2-44, 1-75, 1-42, 1-80.....	5.40
27	1933	6	1-36, 2-44, 1-75, 1-42, 1-80.....	5.30	90	1931	9	4-24, 2-27, 2-45, 1-80.....	7.00
28	1934	6	1-6A7, 2-39/44, 1-75, 1-43, 1-2525.....	6.05	90 Above				
29	1934	6	1-6A7, 2-39/44, 1-75, 1-42, 1-80.....	5.65	Serial 237,001	1931	9	3-24, 4-27, 1-47, 1-80.....	7.00
30	1930-1	8	3-32, 3-30, 2-31.....	7.25	90 Above				
32	1934	6	1-36, 2-39/44, 1-75, 1-42, 1-84.....	5.95	Serial 353,100	1932	9	2-35, 1-24, 3-27, 2-47, 1-80.....	7.20
34	1934	7	1-1-C-6, 2-34, 2-30, 1-32, 1-19.....	7.65	91	1932	9	2-44, 1-36, 3-37, 2-42, 1-80.....	7.40
34A	1934	8	1-1-C-6, 2-34, 2-30, 1-32, 1-19, 1-1-C-1.....	8.55	92-30	1930	9	3-24, 3-27, 2-45, 1-80.....	6.80
35	1931-2	7	3-32, 3-30, 1-33.....	6.85	96	1930	9	3-24, 3-27, 2-45, 1-80.....	6.80
36	1932-3	8	3-32, 3-30, 1-33, 1-No. 6.....	8.35	97	1935	7	2-42, 1-85, 2-78, 1-6A7, 1-80.....	6.85
37	1932-3	6	1-15, 2-32, 1-30, 1-19, 1-No. 6.....	7.20	111	1931	11	4-24, 4-27, 2-45, 1-80.....	8.40
38	1933-4	5	1-15, 2-32, 1-30, 1-19.....	5.70	112	1931	11	4-24, 4-27, 2-45, 1-80.....	8.40
38A	1933-4	6	1-15, 2-32, 1-30, 1-19, 1-No. 6.....	7.20	112 Above				
38 (123)	1934-5	5	1-1A6, 2-32, 1-30, 1-19.....	5.45	Serial 174,001	1931	11	4-24, 4-27, 2-47, 1-80.....	8.80
38A (123)	1934-5	6	1-1A6, 2-32, 1-30, 1-19, 1-1-A-1.....	6.35	116 (121)	1935	11	1-37, 3-42, 1-76, 2-77, 3-78, 1-80.....	10.00
39	1935	6	2-30, 1-32, 1-34, 1-1C6, 1-19.....	6.40	116 (122)(151)	1935	11	1-523, 2-6A3, 1-37, 1-42, 1-76, 2-77, 3-78.....	11.30
40	1930	6	3-24, 1-27, 2-71A.....	4.80	118	1934	8	1-6A7, 2-78, 1-75, 3-42, 1-80.....	7.85
41	1930	6	3-24, 1-27, 2-71A.....	4.80	114	1934	6	1-6A7, 2-78, 1-75, 1-42, 1-80.....	7.85
42	1931	6	3-24, 1-27, 2-71A.....	4.80	200	1934	10	1-6A7, 3-78, 1-37, 1-75, 3-42, 1-523.....	9.85
43	1932	8	4-44, 2-37, 1-42, 1-80.....	6.60	201	1934	10	3-78, 1-75, 3-42, 1-6A7, 1-37, 1-523.....	9.85
44	1933-4	6	1-6A7, 2-78, 1-75, 1-42, 1-80.....	5.85	212	1931	11	4-24, 4-27, 2-45, 1-80.....	8.40
45	1934	6	1-6A7, 2-39/44, 1-75, 1-42, 1-80.....	5.65	220	1931	7	3-24, 1-27, 2-71A, 1-80.....	5.40
46	1931	7	3-14, 1-17, 2-71A, 1-No. 2.....	8.30	270	1931	7	4-24, 1-27, 1-47, 1-80.....	5.80
47	1932-3	8	1-36, 2-44, 3-37, 2-43.....	6.80	370	1931	7	4-24, 1-27, 1-47, 1-80.....	5.80
48	1932-3	5	1-44, 2-36, 1-43, 1-No. 9.....	4.70	470	1932	9	5-24, 2-27, 1-47, 1-80.....	7.40
49	1934	7	1-6A7, 2-78, 1-76, 1-85, 2-43.....	6.95	490	1932	11	4-24, 5-27, 1-47, 1-80.....	8.60
50	1931	5	3-24, 1-47, 1-80.....	4.20	500	1934	11	1-76, 2-77, 3-78, 3-42, 1-37, 1-523.....	10.30
51	1932	5	2-24, 1-35, 1-47, 1-80.....	4.20	501	1934	11	1-76, 2-77, 3-78, 3-42, 1-37, 1-523.....	10.30
52	1932	5	2-24, 1-35, 1-47, 1-80.....	4.20	503	1933-4	8	2-78, 1-6A7, 1-75, 3-42, 1-80.....	7.85
53	1933	4	1-1223, 1-43, 2-77.....	4.00	504	1933-4	6	1-6A7, 2-78, 1-75, 1-42, 1-80.....	5.85
54	1933-4	5	1-2525, 1-43, 1-75, 1-6A7, 1-78.....	5.25	505	1933-4	6	1-6A7, 2-78, 1-75, 1-42, 1-80.....	5.85
57	1933	4	2-77, 1-42, 1-80.....	3.60	506	1934	6	1-6A7, 2-78, 1-75, 1-42, 1-80.....	5.85
58	1934	4	2-77, 1-42, 1-80.....	3.60	507	1934	8	1-6A7, 2-78, 1-75, 3-42, 1-80.....	5.85
59	1934-5	4	2-77, 1-42, 1-80.....	3.60	509	1934	10	3-78, 1-75, 3-42, 1-6A7, 1-37, 1-523.....	7.85
					511	1928	7	4-26, 1-27, 1-71A, 1-80.....	9.85
					551	1932	5	2-24, 1-35, 1-47, 1-80.....	4.20
					570	1931-2	7	4-24, 1-27, 1-47, 1-80.....	5.80

# TUBE REPLACEMENT CHART — 1936 & 1937 PHILCOS

MODEL	YEAR	TOTAL TUBES	TUBES REQUIRED	LIST PRICE TUBE KIT	MODEL	YEAR	TOTAL TUBES	TUBES REQUIRED	LIST PRICE TUBE KIT					
600	1936	4	1-6A7, 1-77, 1-41, 1-80.....	3.75	37-650	1937	8	2-6K7G, 1-6J5G, 1-6A8G, 2-6F6G, 1-5Y4G, 1-6K5G.....	\$9.75					
602	1936	5	1-6A7, 1-78, 1-43, 1-75, 1-2525.....	5.25	37-660	1937	9	2-6K7G, 1-6A8G, 2-6J5G, 1-6K5G, 2-6F6G, 1-5X4G.....	11.00					
604	1936	5	1-6A7, 1-78, 1-75, 1-43, 1-2525.....	5.25	37-665	1937	9	2-6K7G, 1-6A8G, 2-6J5G, 1-6K5G, 2-6F6G, 1-5Y4G.....	10.75					
610	1935	5	1-6A7, 1-42, 1-75, 1-78, 1-80.....	4.85	37-670	1937	10	2-6K7G, 1-6A8G, 4-6J5G, 1-6K5G, 1-6F6G, 1-5X4G.....	11.75					
611	1935	5	1-6A7, 1-2525, 1-43, 1-75, 1-78.....	5.25	37-675	1937	12	3-6K7G, 1-6L7G, 1-6A8G, 1-6N7G, 1-6H6G, 1-6Q7G, 3-6F6G, 1-5X4G.....	15.50					
620	1935	6	1-6A7, 1-42, 1-75, 2-78, 1-80.....	5.85	37-690	1937	20	5-6K7G, 1-6L7G, 1-6A8G, 1-6N7G, 1-6H6G, 4-6J5G, 1-6B8G, 2-6B4G, 1-6R7G, 2-5X4G, 1-6F6G.....	25.75					
623	1935	6	1-IC6, 1-19, 2-30, 1-32, 1-1A4.....	6.65	<h2 style="margin: 0;">AUTO-RADIO MODELS</h2>									
623A	1935	7	1-IC6, 1-19, 2-30, 1-32, 1-1A4, 1-No. 6.....	8.15										
624	1935-6	6	1-IC6, 1-1A4, 2-30, 1-32, 1-19.....	6.65										
625	1935-6	6	1-6A7, 2-78, 1-75, 1-42, 1-80.....	5.85										
630	1935	6	1-6A7, 1-42, 1-75, 2-78, 1-80.....	5.85										
635	1935-6	6	1-6A7, 2-78, 1-75, 1-42, 1-80.....	5.85										
640	1935	7	1-6A7, 2-42, 2-78, 1-85, 1-80.....	6.85										
641	1935	7	1-6A7, 2-43, 1-76, 2-78, 1-85.....	6.95										
642	1935	7	1-6A7, 1-6F7, 1-76, 1-78, 1-85, 2-48.....	10.45										
643	1935	7	1-IC6, 1-19, 2-30, 1-32, 2-34.....	7.65										
643A	1935	8	1-IC1, 1-IC6, 1-19, 2-30, 1-32, 2-34.....	8.55										
645	1935-6	7	1-6A7, 2-78, 1-85, 2-42, 1-80.....	6.85										
650	1935	8	1-6A7, 3-42, 1-75, 2-78, 1-80.....	7.85										
651	1935-6	8	1-6A7, 2-78, 1-85, 1-76, 2-43, 1-2525.....	7.95										
655	1935-6	8	1-6A7, 2-78, 1-75, 3-42, 1-80.....	7.85										
660	1935	10	3-42, 1-75, 1-76, 1-77, 3-78, 1-80.....	9.30										
665	1935-6	10	3-78, 1-77, 1-76, 1-75, 3-42, 1-80.....	9.30										
680	1935	15	1-5Z3, 2-6A3, 1-6B7, 1-6F7, 1-42, 1-76, 4-78, 1-80, 3-85.....	15.95										
37-33	1937	5	1-1D7G, 1-1D5G, 1-1H6G, 1-1H4G, 1-1E7G.....	7.25						3	1931	7	3-24, 2-01A, 2-71A.....	5.30
37-34	1937	5	1-1D7G, 1-1D5G, 1-1H6G, 1-1H4G, 1-1E7G.....	7.25						5	1935	5	1-6A7, 1-78, 1-75, 1-41, 1-84.....	5.40
37-38	1937	6	1-1C7G, 1-1D5G, 2-1H4G, 1-1E5G, 1-1J6G.....	8.25	6F	1932-3	5	3-36, 1-85, 1-41.....	4.60					
37-60	1937	5	1-6K7G, 1-6A8G, 1-6Q7G, 1-6F6G, 1-5Y4G.....	6.25	7 (121)	1933	6	3-36, 1-85, 1-41, 1-84.....	5.85					
37-61	1937	5	1-6A8G, 1-6K7G, 1-6Q7G, 1-6F6G, 1-5Y4G.....	6.25	8	1932	5	3-36, 2-38.....	4.50					
37-84	1937	4	2-6J7G, 1-6F6G, 1-5Y4G.....	4.75	9	1932-3	6	3-36, 1-38, 1-41.....	4.50					
37-89	1937	6	2-6K7G, 1-6A8G, 1-6Q7G, 1-6F6G, 1-5Y4G.....	7.50	9F	1932	6	3-36, 1-38, 2-41.....	5.40					
37-116	1937	15	4-6K7G, 1-6L7G, 1-6A8G, 1-6N7G, 1-6H6G, 1-6F6G, 3-6J5G, 2-6B4G, 1-5U4G.....	19.75	10	1933-4	6	3-36, 1-85, 1-37, 1-79.....	5.65					
37-600	1937	4	1-6A8G, 1-6J5G, 1-6K6G, 1-5Y4G.....	4.75	10F	1933	7	3-36, 1-85, 1-37, 1-79, 1-84.....	6.90					
37-602	1937	5	1-6A8G, 1-6K7G, 1-6Q7G, 1-25A6G, 1-25Z6G.....	6.50	11	1934	6	2-44, 1-77, 1-75, 1-42, 1-84.....	6.30					
37-604	1937	5	1-6A8G, 1-6K7G, 1-6Q7G, 1-25A6G, 1-25Z6G.....	6.50	12 (121)	1932-3	6	3-36, 1-38, 2-41.....	6.05					
37-610	1937	5	1-6K7G, 1-6A8G, 1-6Q7G, 1-6F6G, 1-5Y4G.....	6.25	12 (122)	1933	6	3-36, 1-37, 1-85, 1-79.....	5.65					
37-611	1937	5	1-6A8G, 1-6K7G, 1-6Q7G, 1-25A6G, 1-25Z6G.....	6.50	700	1934	6	2-44, 1-77, 1-75, 1-42, 1-84.....	6.05					
37-623	1937	6	2-6K7G, 1-6A8G, 1-6Q7G, 1-6F6G, 1-5Y4G.....	7.50	800	1934	7	1-6A7, 2-44, 1-37, 1-75, 1-79, 1-84.....	7.25					
37-623	1937	6	1-1C7G, 2-1D5G, 1-1H4G, 1-1F7G, 1-1J6G.....	9.25	802	1934	7	1-6A7, 2-44, 1-37, 1-75, 1-79, 1-84.....	7.25					
37-530	1937	6	2-6K7G, 1-6A8G, 1-6Q7G, 1-6F6G, 1-5Y4G.....	7.50	805	1935	5	1-6A7, 1-41, 1-75, 1-78, 1-84.....	5.40					
37-640	1937	7	2-6K7G, 1-6A8G, 1-6Q7G, 2-6F6G, 1-5Y4G.....	8.75	806	1935	6	1-6A7, 1-41, 1-75, 2-78, 1-84.....	6.40					
37-641	1937	7	2-6K7G, 1-6A8G, 1-6Q7G, 2-25A6G, 1-25Z6G.....	9.00	808	1935	7	1-6A6, 1-6A7, 1-75, 1-76, 1-77, 1-78, 1-84.....	7.45					
37-643	1937	7	2-1D5G, 1-1C7G, 2-1H4G, 1-1E5G, 1-1J6G.....	10.00	809	1935	6	1-6A7, 1-41, 1-75, 2-78, 1-84.....	6.40					
					816	1936	6	2-78, 1-6A7, 1-75, 1-41, 1-84.....	6.40					
					817	1935	6	2-78, 1-6A7, 1-75, 1-41, 1-84.....	6.40					
					818	1936	6	2-78, 1-6A7, 1-75, 1-41, 1-84.....	6.40					
					819	1936	7	2-78, 1-6A7, 1-75, 2-41, 1-84.....	7.30					

## COMPARATIVE CHART OF NEW PHILCO G-TYPE TUBES AND CORRESPONDING EARLY TYPE TUBES

The new Philco G-type tubes listed below are similar in characteristics with the more familiar tube types of last year. All the new types are furnished with octal bases and will have a minimum of seven pins in the base.

New G Type	Early Type
6A8G	6A7
6B4G	6A3
6B8G	6B7
6F6G	42
6H6G	5H6
6J5G	37 & 76
6J7G	77
6K5G	Triode section of 6Q7
6K6G	41
6K7G	78
6L7G	6L7
6N7G	6A6
6Q7G	75
6R7G	85
25A6G	43
1C7G	1C6
1D5G	1A4
1D7G	1A6
1E5G	1B4
1E7G	New Double Pentode
1F7G	1F6
1H4G	30
1H6G	1B5
1J6G	19
5V4G	83V
5X4G	5Z3
5Y4G	80
25Z6G	25Z5

## BASE PIN IDENTIFICATION FOR NEW G-TYPE PHILCO TUBES:

TYPE	Cap.	1	2	3	4	5	6	7	8
6A8G	G-4	N.C.	H	P	G-3-5	G-1	G-2	H	K
6B4G		N.C.	H	P	N.C.	G	N.C.	H	N.C.
6B8G	G-1	N.C.	H	P	D-2	D-1	G-2	H	K
6F6G		N.C.	H	P	G-2	G-1	No pin	H	K-G3
6H6G	Shield	N.C.	H	P-2	K-2	P-1	No pin	H	K-1
6J5G		N.C.	H	P	N.C.	G-1	No pin	H	K
6J7G	G-1	Cage	H	P	G-2	G-3	No pin	H	K
6K5G	G	N.C.	H	P	N.C.	N.C.	No pin	H	K
6K6G		N.C.	H	P	G-2	G-1	No pin	H	K-G3
6K7G	G-1	N.C.	H	P	G-2	G-3	No pin	H	K
6L7G	G-1	N.C.	H	P	G-2-4	G-3	No pin	H	K-G5
6N7G		N.C.	H	P-2	G-1 <sub>2</sub>	G-1 <sub>1</sub>	P-1	H	K
6Q7G	G	N.C.	H	P	D-2	D-1	No pin	H	K
6R7G	G	N.C.	H	P	D-2	D-1	No pin	H	K
25ACG		N.C.	H	P	G-2	G-1	No pin	H	K-G3
1C7G	G-4	N.C.	F+	P	G-3-5	G-1	G-2	F-	N.C.
1D5G	G-1	N.C.	F+	P	G-2	N.C.	No pin	F-G3	N.C.
1D7G	G-4	N.C.	F+	P	G-3-5	G-1	G-2	F-	N.C.
6N7G	G-1	N.C.	F+	P	G-2	N.C.	No pin	F-G3	N.C.
6Q7G		N.C.	F+	P-2	G-1 <sub>2</sub>	G-1 <sub>1</sub>	P-1	F-	G-2
6R7G	G-1	N.C.	F+	P	D-2	D-1	G-2	F-	N.C.
1H4G		N.C.	F+	P	N.C.	G	No pin	F-	N.C.
1H6G		N.C.	F+	P	D+	D-	G-1	F-	N.C.
1J6G		N.C.	F+	P-2	G-2	G-1	P-1	F-	N.C.
5V4G		N.C.	H	N.C.	P	N.C.	P	N.C.	H-K
5X4G		N.C.	N.C.	P	N.C.	P	N.C.	F	F
5Y4G		N.C.	N.C.	P	N.C.	P	N.C.	F	F
25Z6G		N.C.	H	P-2	K-2	P-1	No pin	H	K-1

Element Identification-D, diode; F, filament; G, grid; H, heater; K, cathode; N.C., no connection on pin. Replacement tubes of some types listed above will have only the required number of pins.

# AVERAGE CHARACTERISTICS OF NEW PHILCO "G" TYPE TUBES

## 6.3 VOLT SERIES

Type	Description	Use	Type of Cathode	Fil. Amps.	Plate Volts	Negative Control Grid Volts	Screen Volts	Plate Current (M. A.)	Screen Current (M. A.)	Mutual Conductance Micro-mhos	Plate Resistor Ohms	Amp Factor	Load Resistor Ohms	Power Output Watts
6A8G	Heptode	Converter	Heater	0.30	250	3.0	100	3.0	3.0	520C	360,000	4.2		
6B4G	Triode	Pwr. Amp.	Filament	1.00	250	45.0		60.0	per tube	Fixed Bias 5200 840	800	4.2	Anode Grid 200 Volts Max. 2500 3000*	
6B8G	Double Diode Pentode	R. F. or I. F.	Heater	0.30	180	3.0	75	3.4	1.5	1000	1,000,000	840 } Pentode section	Anode Grid Current 4.0 M. A. 3.5 Single tube 15.0 Push pull two tubes	
6P6G	Pentode	A. F. Pwr. Amp.	Heater	0.65	250	3.0	50	0.65	7.5	2350	79,000	185 } Pentode section	7,000 7,000 3,000	3.4 5.0 0.65
6H6G	Triode	Det. A. V. C.	Heater	0.3	250	8.0		33.0	Tied to P.	2600	100,000	6.2 } D. C. Output	4 M. A.	
6J5G	Double Diode	Amp.	Heater	0.3	250	3.0	100	2.3	0.5	1250	7,700	20.0 } 1500		
6J7G	Triode	R. F.	Heater	0.3	250	3.0	100	1.1	2.0	1200	1,500,000	70 } Current to be adjusted to 0.1 M. A. with no signal		
6K5G	Triode	Mixer	Heater	0.3	250	3.0	125	1.0	3.0	1325	58,500	150 } 11,000	0.65 (at 10% distortion)	
6K6G	Pentode	Pwr. Amp.	Heater	0.4	180	10.0	180	18.5	5.5	1850	81,000	150 } 9,000	1.50	
6K7G	Pentode	R. F.	Heater	0.3	250	3.0	180	32.0	1.0	2200	68,000	150 } 7,600	3.4	
6L7G	Pentagrid Mixer Amp.	Mixer	Heater	0.3	250	3.0	75	4.0	1.7	1100	1,000,000	1100 } Control grid volts on Mixer Grid -10		
6N7G	Double Triode	Amp. Pwr. Amp.	Heater	0.8	300	6.0	100	7.0	2.4	1450	800,000	1160 } 990		
6Q7G	Double Diode Triode	Det. Amp.	Heater	0.3	250	3.0	250	10.5	6.2	1650	600,000	350C } Control grid volts on Mixer Grid -15		
6R7G	Double Diode Triode	Det. Amp.	Heater	0.3	250	3.0	150	3.3	8.3	350C	1,000,000	1100 } Control grid volts on Mixer Grid -3		

## 25.0 VOLT SERIES

25A6G	Pentode	Pwr. Amp.	Heater	0.3	45	15.0	95	20.0	4.0	2000	45,000	90	4,500	0.9
					135	20.0	135	37.0	8.0	2450	35,000	85	4,000	2.0
					180	20.0	135	38.0	7.5	2500	40,000	100	5,000	2.75

## 2.0 VOLT SERIES

1C7G	Heptode	Converter	Filament	0.12	180	3.0	67.5	1.5	2.0	325C	750,000	720		
1D5G	Triode	R. F. Amp.	Filament	0.06	180	3.0	67.5	2.3	0.7	750	960,000	780	Anode Grid 135 Volts Max.	
1D7G	Heptode	Converter	Filament	0.06	180	3.0	67.5	1.3	1.8	300C	750,000	720	Anode Grid 135 Volts Max.	
1E3G	Triode	R. F. Amp.	Filament	0.06	180	3.0	67.5	1.7	0.4	650	1,200,000	780	Anode Grid 135 Volts Max.	
1E7G	Double Pentode	Pwr. Amp.	Filament	0.24	135	4.5	135	7.5	2.1	1600	220,000	350	230 per Section	
1F7G	Double Diode Pentode	Det. Amp.	Filament	0.06	180	4.5	67.5	2.0	0.6	650	1,000,000	650		
1H6G	Triode	Det. Amp.	Filament	0.06	90	5.0	67.5	2.5	3.0	900	11,000	9.3	10,300	
					135	5.0	67.5	3.1	3.1	900	10,300	9.3	10,300	
					135	3.0	67.5	3.1	3.1	900	35,000	20.0	35,000	
1H6G	Double Diode Triode	Det. Amp.	Filament	0.06	135	3.0	67.5	0.8	27.0	275	35,000	20.0	10,000*	Triode section only
1H6G	Double Triode	Pwr. Amp.	Filament	0.24	135	3.0	67.5	0.8	27.0	275	35,000	20.0	10,000*	Triode section only

## "G" TYPE RECTIFIER SERIES

Type	Description	Type of Cathode	Filament Rating		Supply	Max. Plate Volts Per Plate	D. C. Output Current M. A.	Remarks
			Volts	Amps.				
2X4G	Full Wave High Vacuum	Filament	5.0	2.0	A. C.	400	200	
2X4G	Full Wave	Filament	5.0	3.0	A. C.	500	250	
2X4G	Full Wave	Filament	5.0	2.0	A. C.	350	125	
2Z4G	Full Wave and Voltage Doubler	Heater	25.0	0.3	A. C. or D. C.	400	110	With choke input only

\*Plate to plate load.

C—Conversion Conductance.

G—Grids connected together and plates connected together.

There's a "ready-made" market  
of FIFTY MILLION  
Sockets for Philco  
High-Efficiency  
Tubes!



Over seven million Philco Radios in service today! Fifty million sockets in which Philco High-Efficiency Tubes were installed . . . and demonstrated their worth so convincingly that the set owners will insist on Philco tubes when replacement time comes around!

That's what we mean by a "ready-made" market . . . and it's a market that grows every day as more and more Philco Home Sets and Automobile Radios pass into the hands of new owners.

In addition to the millions of Philco owners who naturally demand Philco Tubes for their sets . . . don't forget the millions of owners of other radio sets who have read and heeded that line which has appeared in countless millions of Philco advertisements . . . "Philco Replacement Tubes improve the performance of any

radio." Those set owners want Philco High-Efficiency Tubes, too!

Radio's biggest year is under way! Don't find yourself making apologies instead of making sales! Get set for the replacement rush with a complete stock of Philco High-Efficiency Tubes . . . and *complete* means metal as well as glass replacement tubes!

PHILCO HIGH-EFFICIENCY TUBES  
*improve the performance of any radio!*

LIST PRICES for ALL PHILCO REPLACEMENT TUBES

EARLIER TYPE TUBES										OCTAL BASE GLASS TUBES—G TYPES				METAL TUBES			
Type	List	Type	List	Type	List	Type	List	Type	List	Type	List	Type	List	Type	List		
2	\$ .90	1B4	\$1.75	6C6	\$1.00	26	\$ .60	43	\$1.00	76	\$ .70	1C7G	\$1.75	6B8G	\$1.50	5Z4	\$1.25
4	.90	1B5/25S	1.25	6D6	.90	27	.70	45	.70	77	1.00	1D5G	1.75	6F6G	1.25	6A8	1.25
5	1.00	1F4	2.00	6F7	1.50	30	.70	46	1.00	78	1.00	1D7G	1.50	6H6G	1.00	6C5	1.00
6	1.50	1C6	1.50	10	2.00	31	.70	47	.90	79	1.25	1E5G	1.50	6J5G	1.00	6F5	1.00
9	1.00	2A3	1.25	12A	.70	32	1.25	48	2.50	80	.60	1E7G	1.50	6J7G	1.25	6F6	1.00
01A	.60	2A5	1.00	12A5	2.00	33	1.00	49	1.00	81	2.00	1F7G	1.75	6K5G	1.25	6H6	1.00
1V	.90	2A6	1.00	12A7	2.00	34	1.25	50	2.50	82	.90	1H4G	1.00	6K6G	1.25	6J7	1.25
1A1	.90	2A7	1.25	12Z3	1.00	35-51	.90	53	1.25	83	.90	1H6G	1.50	6K7G	1.25	6K7	1.25
1C1	.90	2B7	1.25	14	1.50	36	.90	55	1.00	84	1.25	1J6G	1.25	6L7G	1.50	6L6	2.00
1D1	1.00	5Z3	.90	15	1.50	37	.70	56	.70	85	1.00	5U4G	1.50	6N7G	1.50	6L7	1.50
1F1	1.00	6A3	1.50	17	1.50	38	.90	57	.90	89	1.00	5V4G	1.50	6Q7G	1.25	6N7	1.50
1X1	1.00	6A4	1.25	19	1.00	39-44	.90	58	.90	X99	1.00	5X4G	1.25	6R7G	1.25	6Q7	1.25
1Y1	1.00	6A6	1.25	22	1.25	40	.70	59	1.25	182B	1.50	5Y4G	1.00	25A6G	1.25	6R7	1.25
1A4	1.50	6A7	1.25	24A	.90	41	.90	71A	.70	183	1.50	6A8G	1.50	25Z6G	1.25	6X5	1.25
1A6	1.25	6B7	1.25	25Z5	1.00	42	1.00	75	1.00	485	1.50	6B4G	1.75	25B6G	1.50	25A6	1.50
																25Z6	1.25