

# Battery Set Voltages

First Edition - 1997

Second Edition - April 25, 1998

Reformatted - April 12, 2003

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Note: A \* before a voltage indicates that a separate second battery must be used for that circuit or circuits.

Model	A batteries	B Batteries	C Batteries
<b>A-C Dayton</b>			
XL-5	6	90, 22.5	N/A
XL-10	6	90, 22.5	N/A
XL-20	?	135, 90, 22.5	?
XL-25	?	135, 90, 22.5	?
XL-30	?	135, 90, 22.5	?
XL-50	?	135, 90, 45	?
XL-60	?	135, 90, 45	?
XL-61	6	135, 90, 45	?
XL-70	?	135, 90, 45	?
<b>Acme Apparatus</b>			
5 Tube Reflex	6?	90, 16.5-22.5	3-4.5
<b>Airline</b>			
839	6	Pwr, 135, 67.5	Pwr, 9
921, 923, 924	6	Pwr, 135, 67.5	Pwr, 9
1522 w/ 112A	6	180, 90	45, 4.5
1522 w/ 171A	6	135, 90	9, 4.5
Radiola 21, 22	6	Pwr, 135, 67.5	Pwr, 9
<b>American Bosch</b>			
16	6	135, 90, Det (45?)	Pwr (9?), 4.5?
27	6	135, 90, 45	9, 4.5
35	6	135, 90, 45	9, 4.5
46	6	180, 90, 45	Pwr (9?), 4.5?
56	6	135, 90, 45	9, 4.5
57	6	150, 90, Det (45?)	Pwr (9?), 4.5?
66	6	150, 90, 45	Pwr (9?), 4.5?
76, 76L	6	150, 90, 45	Pwr (9?), 4.5?
87	6	150, 90, Det (45?)	Pwr (9?), 4.5?
226	?	157.5, 67.5	22.5

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Amrad</b>			
80, 82, 83	?	90, 22.5	?
Inductrole	?	90, 22.5	N/A
S-522	6	90, ?-45	?
S-733	6	90-180, 90, 45	Pwr, 4.5?
DC-6, DC-6C	6	Pwr, 90	Pwr, 4.5
DC-7, DC-7C	6	Pwr, 90	Pwr, 4.5
<b>Apex</b>			
49	6	180, 90	45
<b>Atwater Kent</b>			
9, 10, 10-B	6	90, 22.5	N/A
12	6	90, *22.5 Det	N/A
19	6	90, 22.5	N/A
20	6	90, 22.5	N/A
20 Compact	6	90, 67.5, 22.5	4.5
21 Compact	4.5	90, 22.5	4.5
24	6	90, 22.5	N/A
30, 32, 33, 35	6	Pwr, 67.5, 22.5	?
48, 49	6	Pwr, 67.5, 22.5	?
67, 67-C	6	180, 135, 67.5, 45	45, 4.5
70-Q, 76-Q	6	180, 135, 67.5, 45	45, 4.5
81, 81-B, 81-C	6	135, 90	30, 16.5, 12, 1.5
82-Q	2.5?	135, 67.5, 45	15, 3
84-Q	2.5?	135, 67.5	13.5, 3
85-Q	2.5?	135, 67.5, 45	15, 3
91, 91-B, 91-C	6	135	30, 16.5, 12, 1.5
228-Q	2.5?	135, 67.5	13.5, 3
469-Q	2.5	180, 90	15, 10.5, 3
558-Q	2.5	180, 90	15, 10.5, 3
<b>Audiola</b>			
6-T	6	135, 90, 45	9, 4.5
8-T	6	135, 90, 45	Pwr (9?), 4.5
527	6?	90, 67.5, 22.5	N/A
627	6?	105, 67.5, 22.5	N/A
<b>Automatic</b>			
Tom Thumb	?	90, 45	?

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Bremer-Tully</b>			
6	6	135, 90, 45	9, 4.5
8-12	6	Pwr, Amp, Det	Pwr, 4.5
80	6	Pwr, 67.5, 45	?
<b>Brunswick</b>			
2-D	6	135, 90, 45	22.5, 4.5
15-B	2.5	135, 67.5	22.5, 3
Cordova	6?	6? 135, 90, 45	22.5, 4.5
PR-6	6?	135, 90, 45	22.5, 4.5
Radiola Superhet	6?	90, 45	4.5
<b>Century</b>			
7-38	6	135	N/A
<b>Cleartone</b>			
60	6?	90, 22.5	4.5?
70, 72	6?	90, 22.5	4.5?
80, 82	6?	AF (135?), RF (90?), Det (45?)	4.5?
100	6?	135, 90, 45	4.5
<b>Colonial</b>			
16-5, 16-6	6?	90, Det (22.5?)	4.5?
17-5	6?	90, Det (22.5?)	4.5?
20	6?	90, Det (22.5?)	4.5?
21	6	90, 22.5	4.5
40, 43	2.5?	135, 90, 67.5	22.5, 4.5, 3
56	2.5 or 6	135, 90	4.5, 1.5
65	2-3 or 6	135, 67.5	13.5, 3
69	2-3 or 6	135, 67.5	4.5, 4.5, 1.5
<b>Columbia Phonograph</b>			
120-B	2.5?	135	22.5
<b>Continental Wireless</b>			
Voice of the Road	6	180, 67.5-90	9

Model	A batteries	B Batteries	C Batteries
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**Crosley**

3B, 3C	?	45, 22.5	?
3R3 Trirdyn	6	90, 22.5	?
4-29	6	90, 45	4.5?
5-38 (Early)	6	90, 22.5	N/A
5-38 (Late)	6	90, 22.5	?
6-60, 6-85	6	90-180, 90, 45	9?
26	6	180	N/A
27, 28	2.5	180	N/A
51	6	45, 22.5	?
92	6	180	?
95	6	?	?
96	6	?	?
128	2.5	180, 22.5	N/A
156	2.5	135, 67.5, 22.5	22.5
401, 401-A	6	135, 90, 67.5	22.5, 4.5
RFL 60	6	90, 45	4.5?
RFL 70	6	90, 45	4.5?
RFL 90	6	90-180, 90, 45	9-45, 3-4.5
V	?	22.5	N/A
XJ, XL	?	45-90, 45, 22.5	?

**Day-Fan**

6	6?	90, 67.5, 22.5	N/A
6 Jr.	6?	Pwr 2, Pwr 1, Amp, Det	Pwr 1, Pwr 2
35	6	Pwr, Amp, Det	Pwr, Amp
61	6?	135, 90, 67.5, 22.5	?
170	?	135, 90, 67.5	22.5, 4.5, 3
527	6?	90, 22.5	?
5044	6?	90, 22.5	N/A
5053	6?	135?, 90?, 67.5?, 45?	27?, 4.5?
5050	6	Pwr (135?), 90, 67.5	Pwr (27?), 4.5
5106	6?	90, 22.5	N/A
OEM-7	6?	90, 22.5	N/A
OEM-11	6?	90, 22.5	N/A

**DeForest**

CS-5	6	90, 45	45
D-10	?	?	N/A
D-17	?	Amp, Det	N/A
F-5	?	60-90, 22.5	N/A

**Delco**

3002	6	180, 135, 67.5	16.5
RA-3, RB-3	32	139.5, 67.5	N/A
RA-B, RB-B	?	139.5, 90, 67.5	22.5, 4.5

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Earl</b>			
121	6	135, 90, 22.5	27, 4.5
<b>Erla</b>			
75, 77	32	135	N/A
231	32	135	N/A
S-61	6	180, 90, 45	40.5, 4.5
<b>Eveready</b>			
20, 21	6?	?	?
<b>Fada</b>			
22	6	Pwr, 90, Det	Pwr, 4.5
122	?	135, 90, 67.5, 45	22.5, 4.5, 3
160	6?	90, 22.5	N/A
170-A	6?	Pwr, 90, 22.5	Pwr, 4.5?
192-A, 192-S, 192 BS	6?	Pwr, 90, 22.5	Pwr, 4.5?
265-A	?	Pwr, 90, 45	Pwr, 4.5
475-A	?	Pwr, 90, 45	Pwr, 4.5
<b>Federal</b>			
59	6?	90?, 22.5?	N/A
102	6?	90, 22.5	N/A
A-10	6	135, 67.5, 22.5	9, 4.5
B	6?	135, 67.5, 22.5	9, 4.5
C	6	135, 67.5, 22.5	9, 4.5
D	6	135, 67.5, 22.5	9, 4.5
E-10, E-40	6	180/135, 67.5, 22.5	9, 4.5
F-10, F-11, F-40	6	135, 67.5, 22.5	9, 4.5
<b>Fenway</b>			
Superheterodyne	6	135, 67.5, 45	7.5-9
<b>Franklin</b>			
100	6	?	N/A

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Freed-Eisemann</b>			
30N	6?	135, 90, 22.5	9 or 27, 4.5
40	6?	135, 90, 22.5	9 or 27, 4.5
48N	6?	135, 90, 22.5	9 or 27, 4.5
50	6?	135, 90, 22.5	9 or 27, 4.5
800	6?	135, 90, 22.5	27, 4.5
FE-15	6?	90, 22.5	?
FE-18	6?	90, 45	?
FE-30	6?	135, 90, 22.5	9 or 27, 4.5
NR-5, NR-6	6	90, 45	?
NR-7	6	135, 90, 22.5	6
NR-8	6	135, 90, 22.5	27, 4.5
NR-9, NR-9A	6	Pwr (135?), 90, 22.5	27, 4.5
NR-10	6	135, 90, 22.5	9 or 27, 4.5
NR-12	6	90, 45	N/A
NR-20	6	90, 45	?
NR-53	6	135, 90, 22.5	27, 4.5
NR-66, NR-66A	6	135, 90, 22.5	27, 4.5
NR-77	6	135, 90, 22.5	27, 4.5
<b>Freshman</b>			
Equaphase	6	180?, 90, 45	45?, 4.5
Masterpiece	6	135, 90, 45	?
<b>Garod</b>			
Neurodyne	?	90, 22.5-45	6, 4.5
<b>General Electric</b>			
S-42B	2.5	180, 22.5	N/A
<b>General Motors</b>			
200, 201	?	139.5, 90, 67.5	22.5, 4.5
<b>Gilfillan</b>			
GN-6	6	90 or 135, 22.5	9, 4.5, 1.5

Model	A batteries	B Batteries	C Batteries
<b>Grebe</b>			
Broadcast Receiver	6?	Amp, Det	N/A
CR-9	6	Amp, Det	N/A
CR-12	6	Amp, Det	N/A
CR-13	6?	Amp, Det	N/A
CR-14	6?	Amp, Det	N/A
CR-18 w/ 1 stage AF	6	67.5, Det	N/A
CR-18 Special w/ 112A	6	135, 90, 67.5	9
CR-18 Special w/ 171A	6	180, 90, 67.5	40.5
Synchrophase 5 (1924)	6	Amp, Det	?
Synchrophase 5 (1925)	6	Amp, Det	?
Synchrophase MU-1	6	135, Amp, Det	?
Synchrophase MU-2	6	135, 90, 45	22.5, 4.5
Synchrophase 7	6	180, 90, Det	40.5, 4.5
<b>Grimes</b>			
4-DL	4.5	90, 22.5	4.5
<b>Gulbransen</b>			
53 w/ 112A	6	135, 90	30?, 9
53 w/ 171A	6	180, 135, 90	45?, 9
92, 93	?	135, 67.5	13.5, 3
<b>Hammarlund</b>			
5 Tube	6?	90-135, 90, 45	4.5-9, 4.5
DeLuxe	6?	135, 90, 45	9, 4.5
Hawk	6?	67.5-90, 45	4.5
HI-Q	6?	135, 90, 67.5, 45	2nd AF, 1st AF
HI-Q 6	6?	135, 90, 67.5	9, 4.5
HI-Q 29 Junior	6	135, 45	27, 4.5, 1.5
HI-Q 29 Master	6	135, 90, 45	27, 4.5
HI-Q 30	6	135 or 180, 135, 45	27-40.5, 9
Kresge Z4 Commander	6?	135, 90, 45	22.5, 4.5
Trans-Oceanic 2	6?	135, 45	N/A
<b>Hatry &amp; Young</b>			
7	?	135, 67.5	?
<b>High Frequency Laboratories</b>			
9-In-Line	6	135, 90, 22.5	9?
Isotone	6?	180, 135, 45	45, 13.5

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Hoodwin</b>			
A, B	6	135, 22.5	N/A
<b>Howard</b>			
A-5	6	135-180, Amp	?
A-6	6	Amp, Det	N/A
K	6?	90, 45	N/A
K-114	2.5	180, 90, 22.5	N/A
SN-7	6	180, 90	40.5
<b>Insuline</b>			
Conqueror S.W.	2.5	135, 67.5	13.5, 6, 3
<b>Kellogg</b>			
6 Tube	6	135, 90, 22.5	9, 4.5
7 Tube	6?	135, 67.5	?
RFL 701	6?	135, 67.5	?
Wave Master	6?	90-135, 90, 22.5	2nd AF, 1st AF
<b>Kennedy</b>			
20	6?	90, 45	N/A
24	6	135	N/A
<b>King</b>			
10KI	6	90, 45	?
10SK	6	90, 45	?
25	6	90, 45	?
30	6	?	N/A
40	6	?	N/A
61	6	135, 67.5, 45	?
62	6	135, 80-90, 45-135	?
71	6	Pwr, 135	Pwr, 9
80	6	135, 67.5, 45	?
81	6	90-135, 67.5-90	?
E	6	135, 90, 45	Pwr, AF
F	6	Pwr, AF, 90, 45	Pwr, AF
G	6	Pwr, AF, 90, 45	Pwr, AF

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Knight</b>			
30	2-3	135, 67.5	22.5
810	3, 2	135, 67.5	22.5
A-S-30	6	135, 67.5	9
<b>Kolster</b>			
6D, 6E, 6G, 6H	6	180, 90, 22.5	9, 4.5
7A, 7B	6	135, 90, 67.5, Det	9, 4.5
8A, 8B, 8C	6	180, 90, 22.5	9, 4.5
<b>Lacault</b>			
L-2	?	AF, RF	?
LR-4	?	135, Amp, Det	Amp, Det
<b>Lincoln</b>			
8-80	6	180, 135, 45, 22.5	40.5, 4.5
<b>Madison-Moore</b>			
Superheterodyne	?	135, 90, 45	9, 4.5
<b>Magnavox</b>			
A	?	Amp, Det	N/A
D	?	Amp, Det	N/A
One Dial	?	60-90, 22.5	N/A
TRF-5, TRF-50	6	90, 45	N/A
TRF-5, TRF-50 w/ 112A6		135, 90, 45	9
TRF-5, TRF-50 w/ 171A6		180, 90, 45	30-40
<b>Majestic</b>			
110	6	180, 90	N/A
120	?	135	22.5
<b>Midwest</b>			
Ultra 7	?	Pwr, 90, Det	?
Unitone 8	?	180, 90, 45	?

Model	A batteries	B Batteries	C Batteries
<b>Mohawk</b>			
44	6	135, 67.5, 45	Pwr (7.5?), 3
115	6	135, 90, 67.5, 45	7.5, 3
606	6	160, 90, 45	45, 4.5
808, 838, 848, 858, 868	6	180, 90, 45	45, 4.5
All-Amax Junior	?	?	N/A
All-Amax Senior	?	90	N/A
B	6	135	18, 6
B-80	2.5	157.5, 67.5	22.5
Chieftan	6	60-135, 22.5-45	N/A
Cherokee	6	90-135, 90, 22.5-45	?
Duet	6	90, 67.5, 22.5	7.5, 4.5
Forte, Lorraine, Sovereign	6	135, 90, 67.5, 45	7.5, 3
Navajo	6	90-180, 67.5-90, 22.5-45	4.5-45, 4.5
R	6	90, 45	4.5
Sextette	6	90, 67.5, 22.5	7.5, 4.5
VA	6	90, 22.5	4.5
<b>Motorola</b>			
5T-71	6	135	22.5
5-Tube Split Case	6	135, 67.5	22.5
6T-12 PL	6	135-180	N/A
7T-38	6	135-180, 67.5-90	N/A
7T-38-A	6	180, 90	N/A
7T-47-A	6	180, 90	N/A
<b>Motovox</b>			
10E	6	180, 45	N/A
<b>Murdock</b>			
65	6	Pwr, 67.5, Det	Pwr, ?
75	6	Pwr, 67.5, Det	Pwr, ?
Neurodyne	?	90, 45	?
<b>National</b>			
Auto Box	6	135, 67.5	9
Short-Wave Thrill Box	3?	135, 67.5	22.5, 3

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Norden-Hauck</b>			
C-7	6?	90, 22.5	4.5
Super 10	6?	Pwr, AF, RF, Det	Pwr, AF
Super DX-5A	6	180	N/A
<b>Operadio</b>			
7	?	135, 90, 45	22.5, 4.5
1926	?	135, 90, 45	22.5, 4.5
<b>Ozarka</b>			
91	6?	135, 45, 22.5	9
93	6?	135, 67.5	13.5, 6, 3
S-5	?	90, 67.5, 22.5	?
S-7	?	90, 67.5, 22.5	?
Viking 5-A	?	Pwr, 90, 22.5	?
<b>Philco</b>			
3 Transitone	6	180	N/A
7 Transitone	6	135, 67.5	N/A
30	2	180, 90	3, 3
35	2	135, 67.5	22.5
37	2.5	135, 67.5	9, 3
<b>Pilot</b>			
K-110	6	135, 90, Det	9, 4.5
K-121, K-121X	6	135, 90, 45	9, 4.5
<b>Radiart</b>			
Magnaformer 9-8	?	180, 135, 45	45, 9
<b>Radolek</b>			
SR227	3	135, 67.5	10.5, 7.5, 4.5

Model	A batteries	B Batteries	C Batteries
<b>RCA</b>			
AR-810, AR-812	4.5	90, 45	4.5
M-30	6	180, 45	22.5
M-32	6	180	N/A
P-31	3	157.5	22.5
Radiola VII	4.5	90, 45	6, 3
Radiola VII-B	4.5?	90?, 45?	4.5?
Radiola Super-VIII	4.5	90, 45	4.5
Radiola 16	6	135, 67.5, 45	9
Radiola 20	6?	135, 90, 45	22.5, 4.5
Radiola 21, 22	6	Pwr, 135, 67.5	Pwr, 9
Radiola 24	4.5	90, 22.5	9
Radiola 25	4.5	135, 90, 45	22.5, 4.5
Radiola 26	4.5	90, 45	9?
Radiola 28 Super	4.5	135, 90, 45	22.5, 4.5
Victor 7-1	6?	135, 90, 45	22.5, 4.5
Victor 7-3	4.5	135, 90, 45	22.5, 4.5
Victor 7-10	6	135, 67.5, 45	9
Victor 7-30	4.5	135, 90, 45	22.5, 4.5
Victor 9-15	4.5	135, 90, 45	22.5, 4.5
Victor R-20	4.5	135, 90, 45	22.5, 4.5
Victor R-43	2.5	180, 22.5	N/A
<b>Rees-Mace</b>			
5 Tube	2	100.5	9
5 Tube Improved	2	108, 75, 60	9, 4.5
<b>Remler</b>			
29	6?	Pwr, 135, 67.5	Pwr, 9
40 KC	6?	157.5, 90, 45	9, 4.5, 9, 1.5
115 KC	6?	135, 90, 45	4.5
<b>Scott</b>			
Shield Grid 9	6	135, 90, 45	7.5, 4.5
<b>Sentinel</b>			
261	?	135 or 180, 67.5 or 90	N/A

Model	A batteries	B Batteries	C Batteries
<b>Silver-Marshall</b>			
620 Silver Cockaday	6	90, 22.5	?
720	6?	180, 135, 45-135, 45	Amp, 3
722	6?	135	9, 4.5
724	6?	135, 67.5	22.5, 4.5
727	2.5	157.5, 67.5	22.5, 13.5
730, 731	6?	90-135, 45	9, 4.5
740	6?	180, 135, 45-135, 45	Amp, 3
770	6	135, 90, 45	27, 4.5
Long-Wave	6?	90, 45	?
Silver Cockaday II	6	Amp, 90, 45	Amp, Det
<b>Silvertone</b>			
1290, 1292	2.5?	135, 90, 67.5	22.5, 4.5, 3
1300, 1302	2.5?	135, 90, 67.5	22.5, 4.5, 3
1570, 1572, 1574	2-3 or 6	135	4.5, 4.5, 1.5
1620, 1622	2-3 or 6	135, 67.5	13.5, 3
E	6	135, 90, 45	Pwr, ?
F, G	6	Pwr, AF, 90, 45	Pwr, AF
<b>Simplex</b>			
6A	6	135, 45, 22.5	7.5
P	2.5	135	N/A
<b>Sleeper</b>			
RX-1	?	Amp, Det	3, 1.5
<b>Sparton</b>			
5-15, 5-26	6?	Pwr, Amp, Det	Pwr, ?
6-15, 6-26	6?	Pwr, Amp, Det	Pwr, ?
31, 32	3?	135, 90, 67.5, 45	22.5, 4.5, 3
34	6	135, 90	63, 45
39	?	Amp, 90, 67.5	?, 4.5
40	6	135, 67.5	63, 45
41	6	135 or 180, 45 or 67.5	?
49	?	Amp, 90, 67.5	?, 4.5
51, 52	2.5	135 or 180, 90, 67.5, 45	31.5 or 22.5, 4.5, 3
54	2.5	180, 135, 112.5, 67.5	18, 12
AR-19	6	180, 90	?
AR-50	6	180, 90	?

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Splitdorf</b>			
R-100	6	90-120, 22.5-90, 22.5	N/A
R-200	6	90, 22.5	N/A
RV-695	6	Pwr, 90-?	?
<b>Stewart-Warner</b>			
300, 305, 310, 315, 320, 325	4.5?	90, 45	N/A
330, 335, 340	4.5	67.5, 45	N/A
345, 350, 355, 360	4.5	135 or 90, 90 or 67.5, 45 or 22.5	?
385, 390	4.5?	135 or 90, 90 or 67.5, 45 or 22.5	?
500, 520, 525	6	135, 90, 67.5, 45	9, 4.5
700, 705, 710	6	135, 90, 67.5 or 45	N/A
806	6	135, 90, 67.5, 45	9, 4.5
950, 980	6?	Pwr, 135, 67.5, 45	Pwr, 9
<b>Stromberg-Carlson</b>			
1-A, 1-B	6	90, 45	4.5
501, 501-A, 501-B, 502, 502-A, 502-B	4.5?	135, 90, 45	9?, 4.5
601, 601-A, 601-B, 602, 602-B	6	135, 90, 45	?
<b>Tyrman</b>			
7	?	180, 135, 90, 45-67.5	45, 3
10	6	180, 90, 45	45, 3
<b>U. S. Electric</b>			
17	6	180, 135, 67.5, 45	9-40.5, 4.5
37	6	180, 135, 67.5, 45	9-40.5, 4.5
<b>U. S. Radio &amp; Television</b>			
30	6	180, 90	45, 4.5
906	2.5	180, 22.5	N/A
<b>Ware</b>			
4 Tube Music Master	?	90, Det	?
T	?	?	?

<b>Model</b>	<b>A batteries</b>	<b>B Batteries</b>	<b>C Batteries</b>
<b>Wells-Gardner</b>			
092	3	135, 67.5	10.5, 7.5, 4.5
B1	3	90, 67.5	N/A
<b>Zenith</b>			
11, 12, 14 (1st Type)	6	Pwr, 135, 22.5	Pwr, 4.5
11, 12, 14 (2nd Type)	6	Pwr, 90, 22.5	Pwr, 4.5
27	?	90, 22.5	?
30, 35	6	Pwr, 90, 22.5	Pwr, 4.5
Super Zenith	?	90, 22.5	3-4.5, 1.5