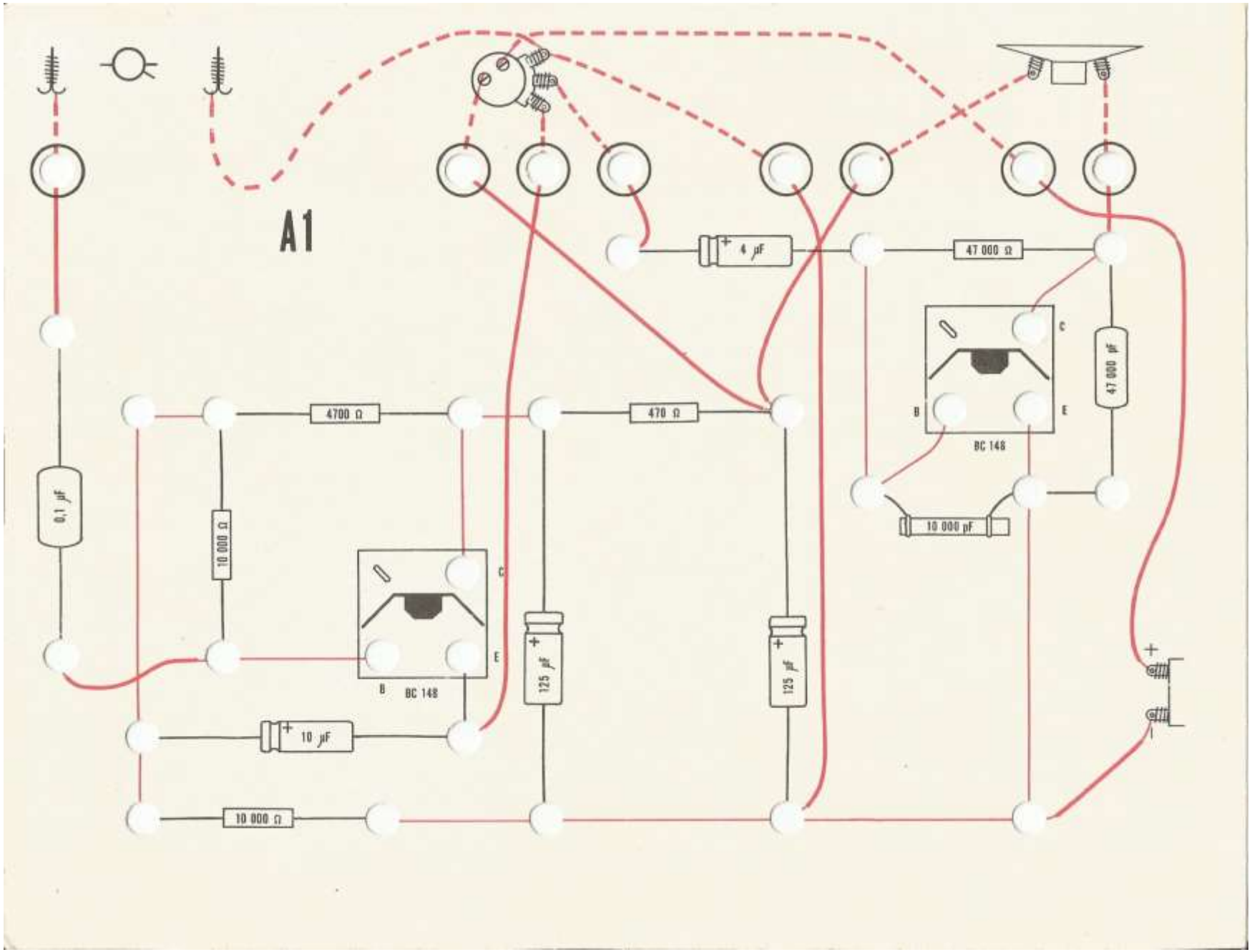
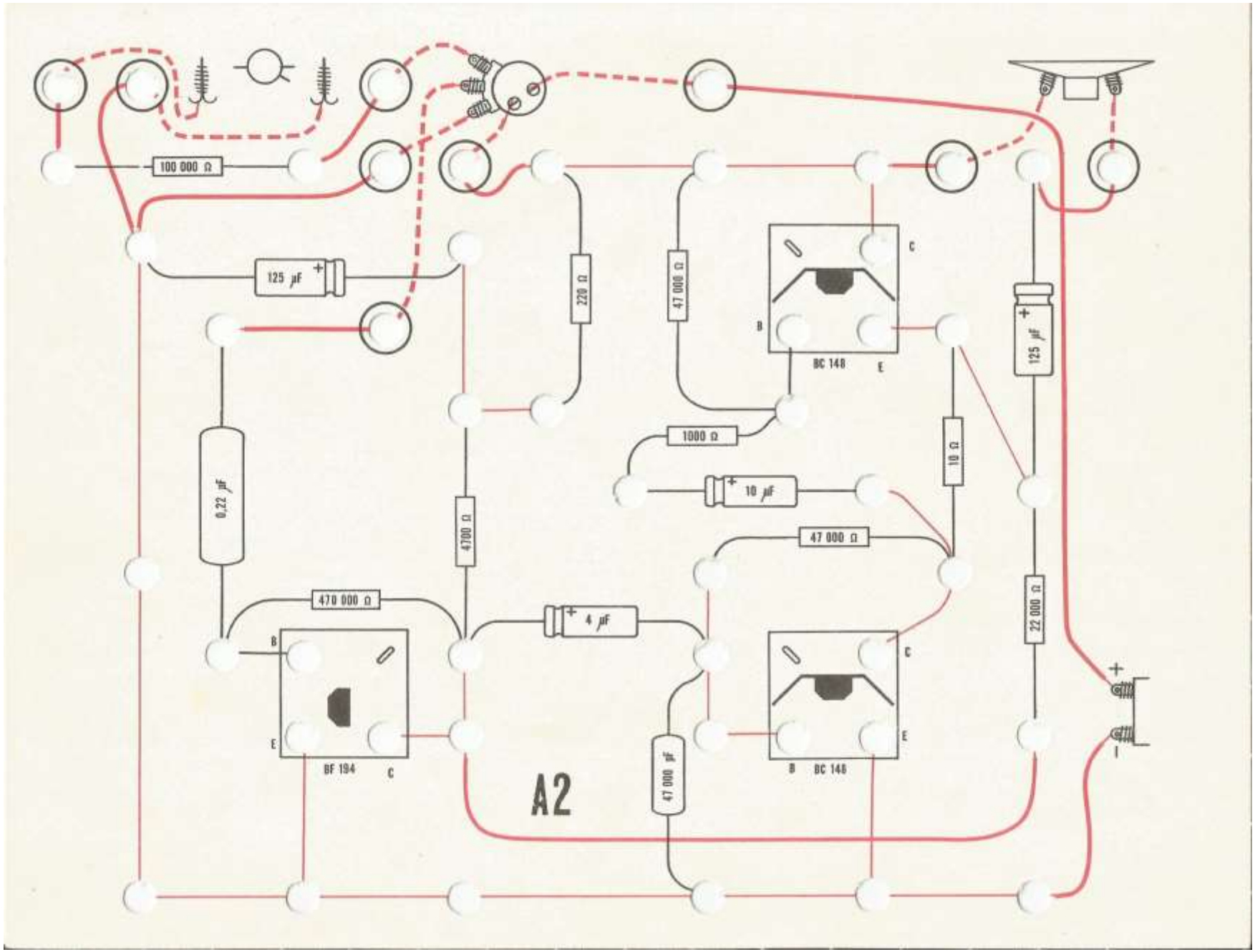
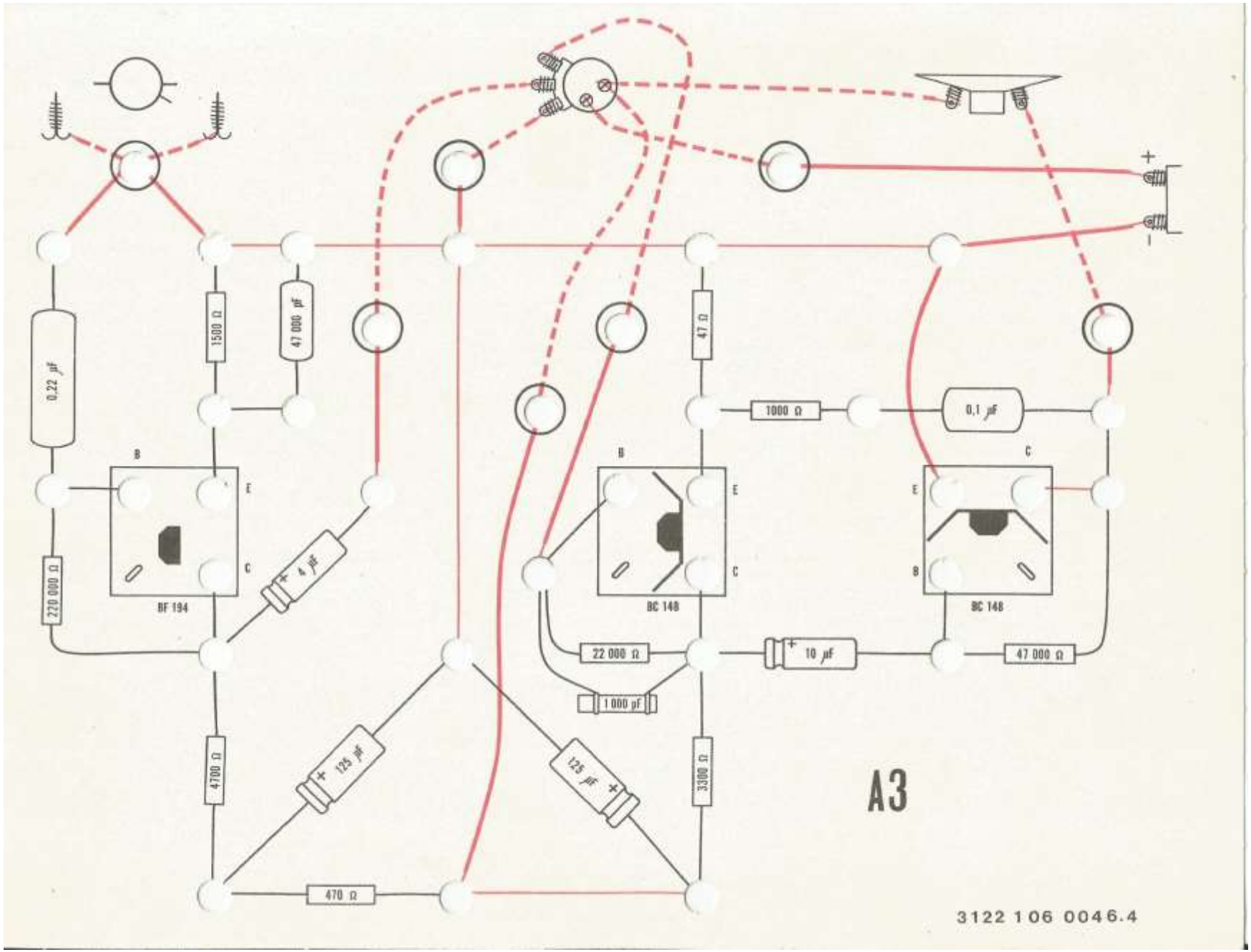
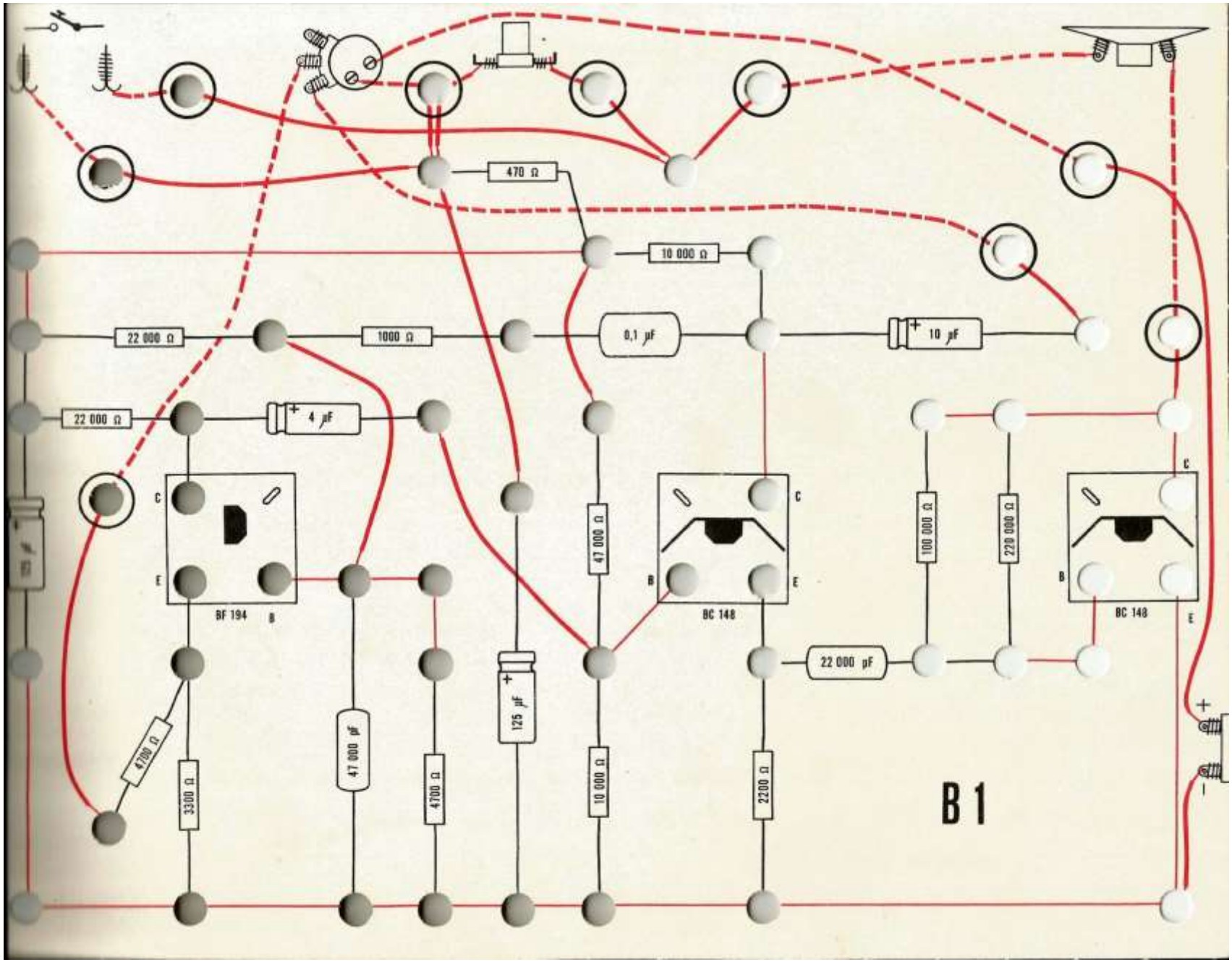
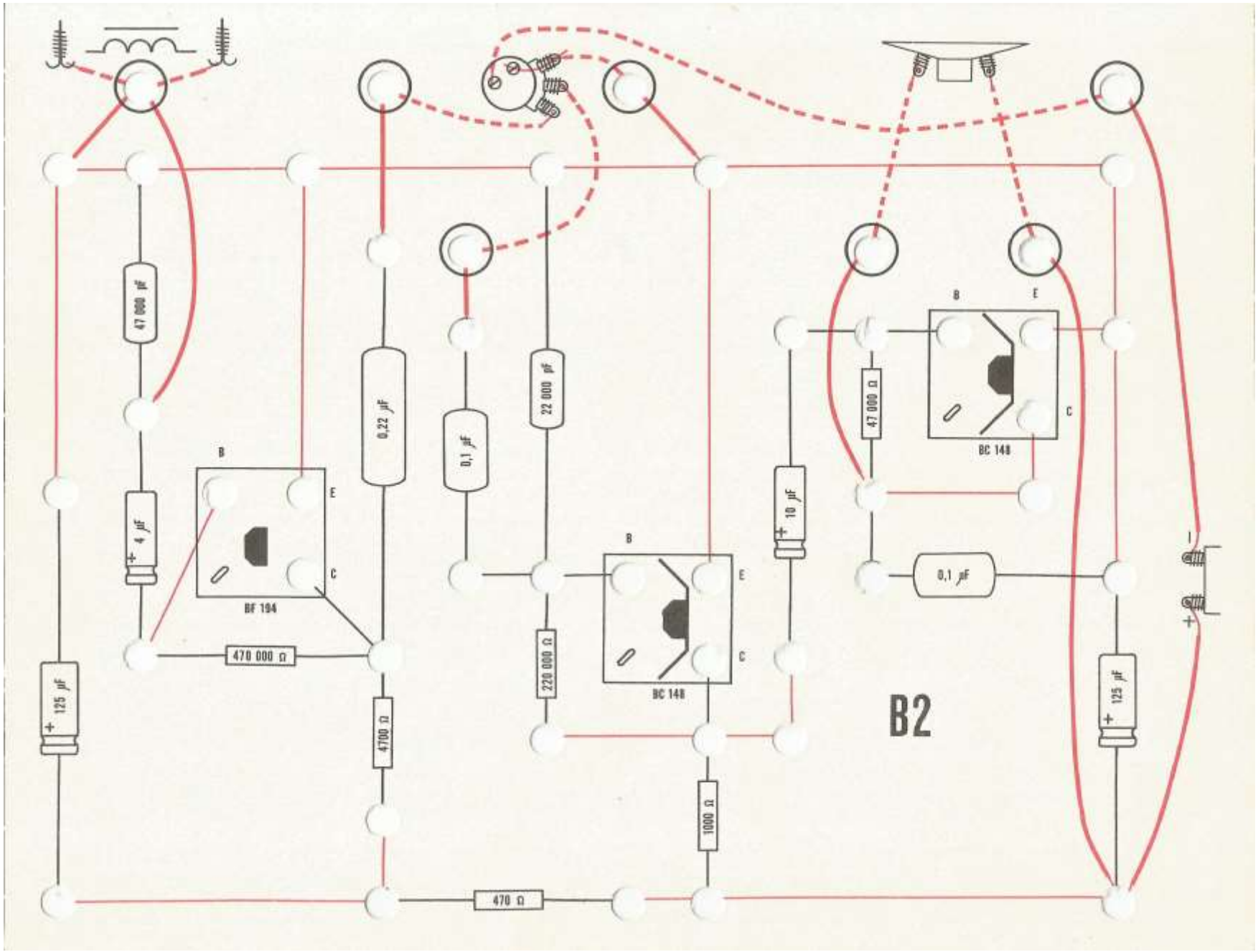
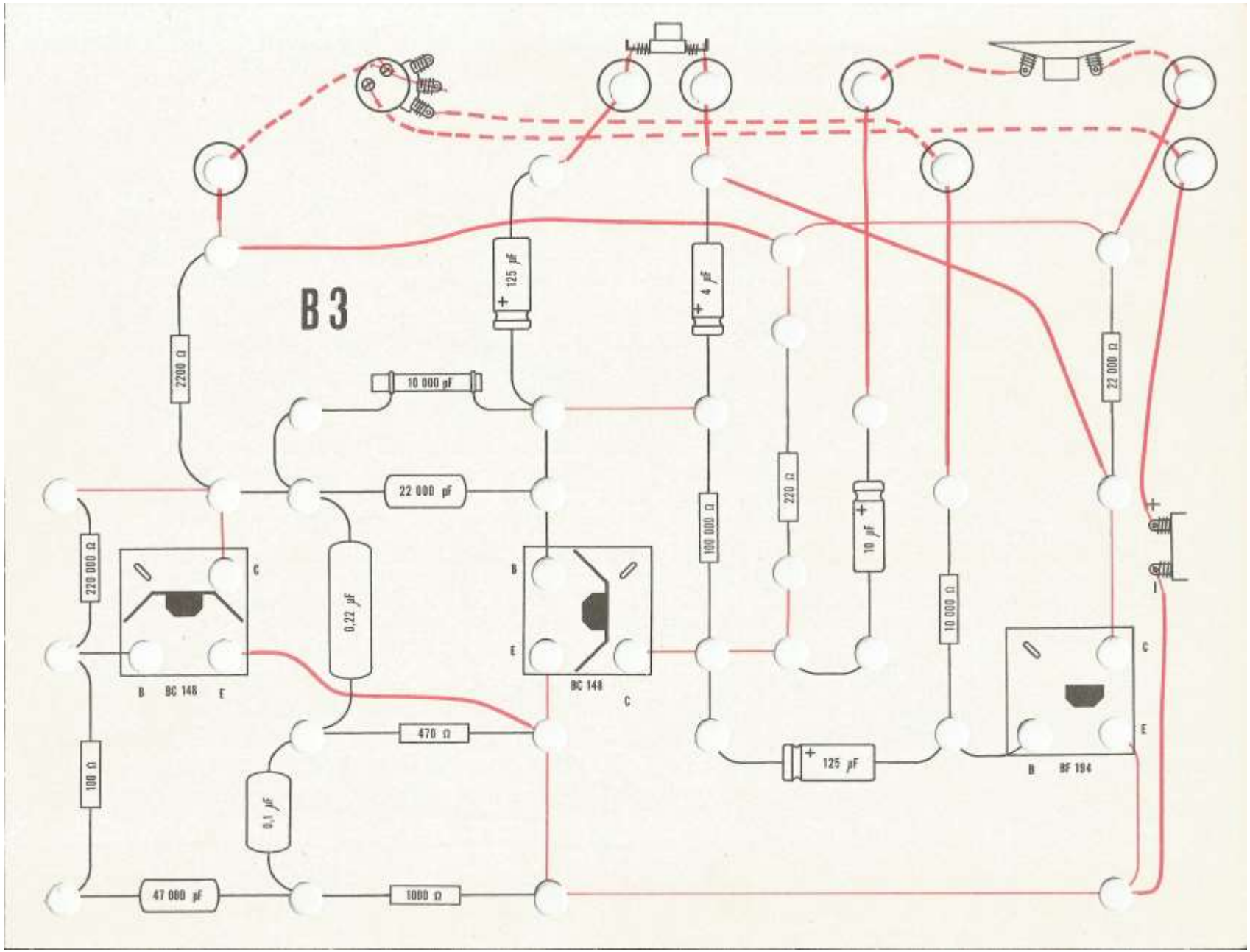

A1
4 µF
47 000 Ω
47 000 pF
C
B
E
BC 148
4700 Ω
470 Ω
0,1 µF
10 000 Ω
10 000 pF
125 µF
125 µF
10 µF
10 000 Ω
+

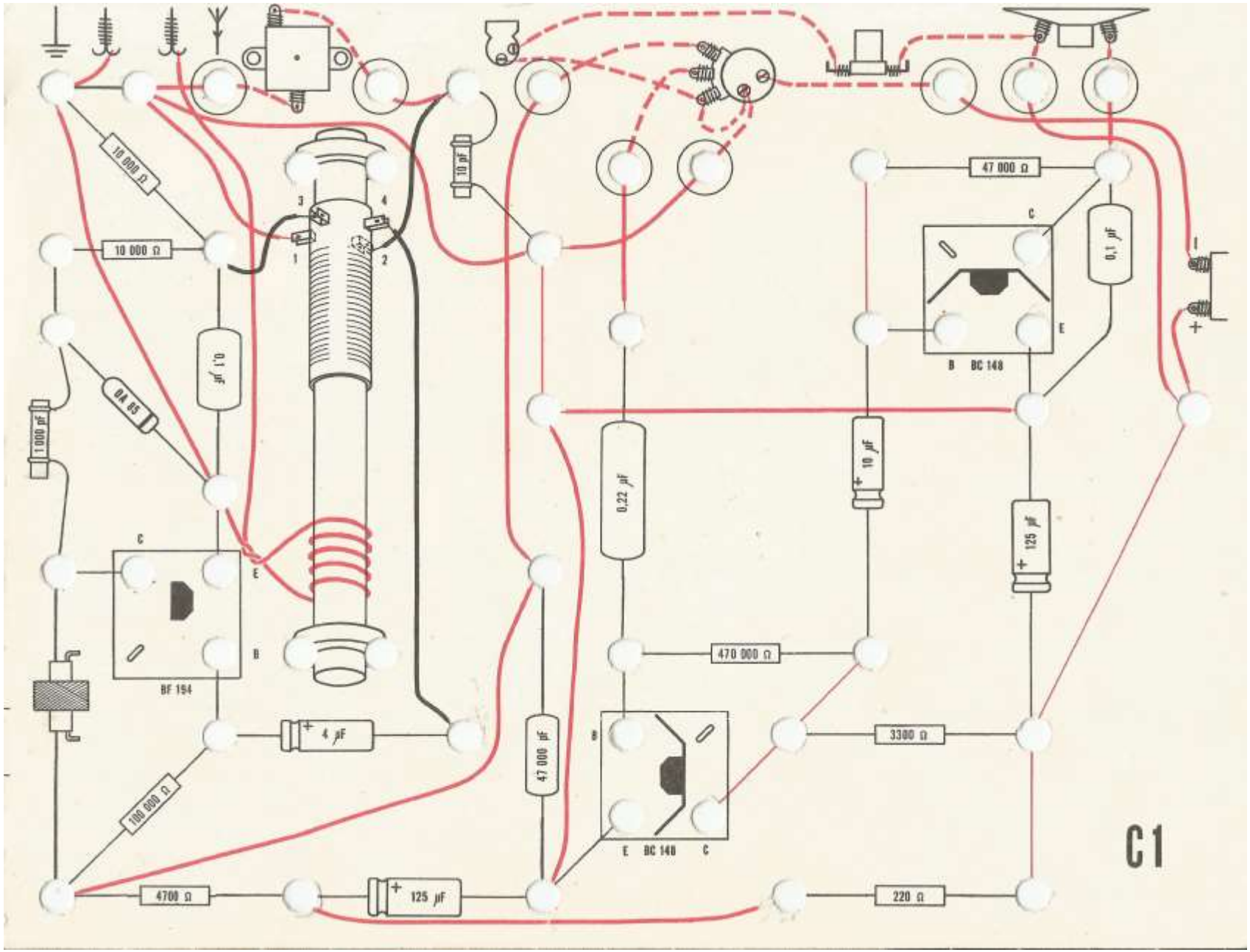

100 000 Ω
125 µF
220 Ω
47 000 Ω
BC 148
C
B
E
125 µF
1000 Ω
10 µF
10 Ω
0,22 µF
4700 Ω
47 000 Ω
470 000 Ω
4 µF
22 000 Ω
BF 194
47 000 µF
BC 148
A2
+
-

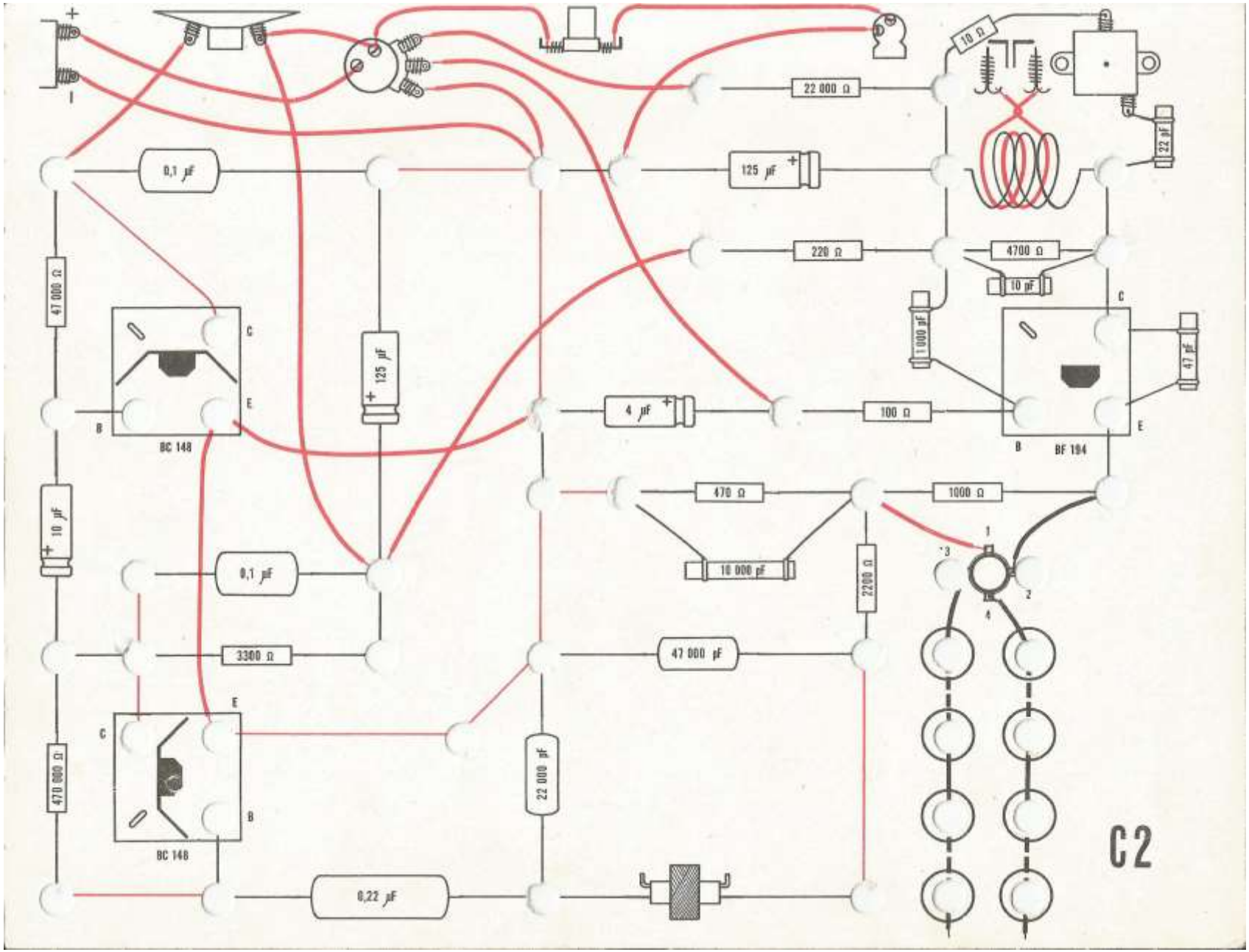

0,22 µF
1500 Ω
47 000 pF
47 Ω
1000 Ω
0,1 µF
220 000 Ω
BF 194
4 µF
BC 148
BC 148
22 000 Ω
10 µF
47 000 Ω
1 000 pF
4700 Ω
125 µF
125 µF
3300 Ω
470 Ω
A3
3122 106 0046.4

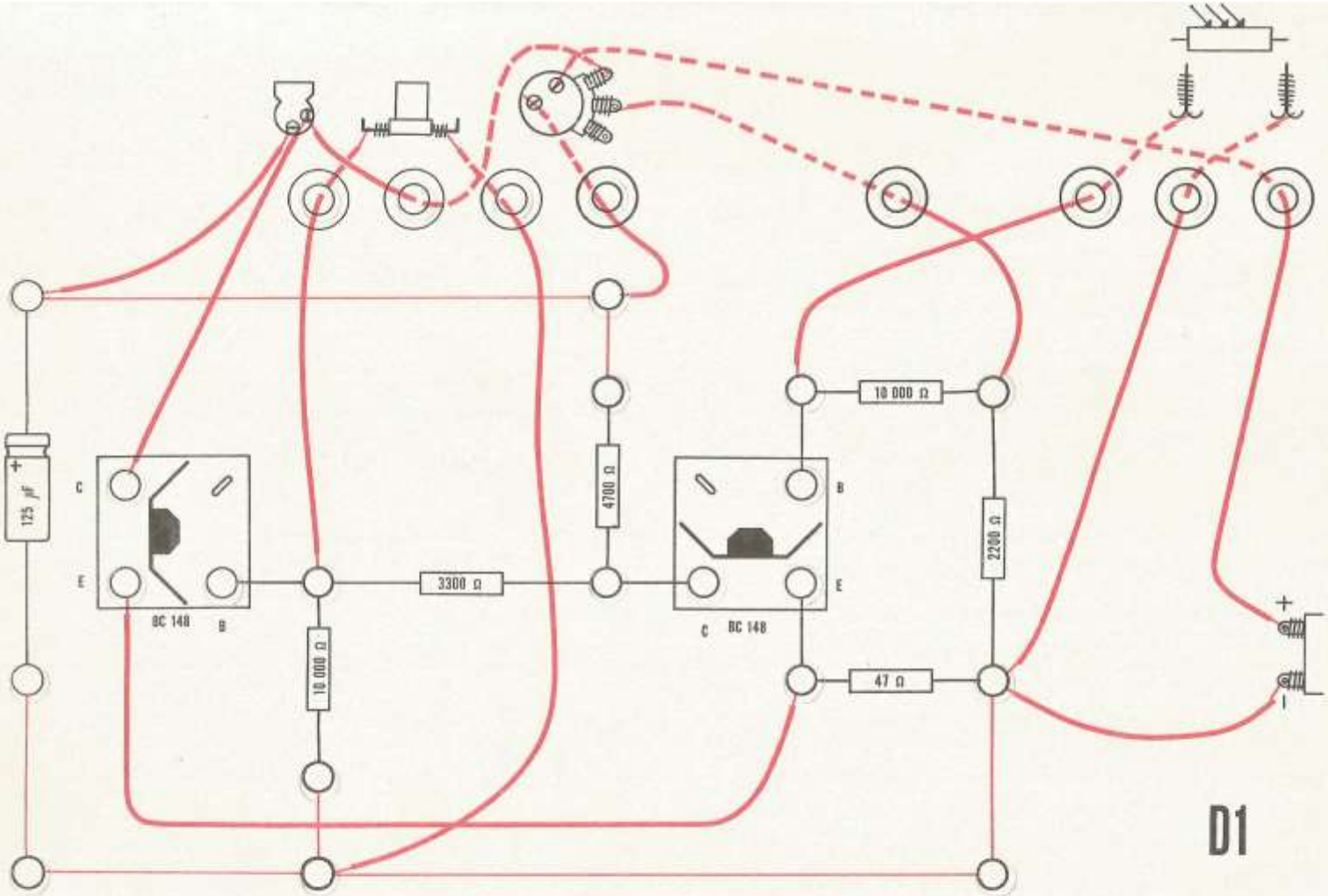

470 Ω
10 000 Ω
22 000 Ω
1000 Ω
0,1 µF
10 µF
22 000 Ω
4 µF
C
E
BF 194
B
47 000 Ω
B
C
E
BC 148
100 000 Ω
220 000 Ω
B
C
E
BC 148
22 000 pF
4700 Ω
3300 Ω
47 000 pF
4700 Ω
125 µF
10 000 Ω
2200 Ω
+
-
B 1


47 000 pF
4 µF
125 µF
B
E
C
BF 194
470 000 Ω
0,22 µF
4700 Ω
0,1 µF
22 000 pF
220 000 Ω
B
E
C
BC 148
1000 Ω
470 Ω
10 µF
47 000 Ω
B
E
C
BC 148
0,1 µF
125 µF
B2

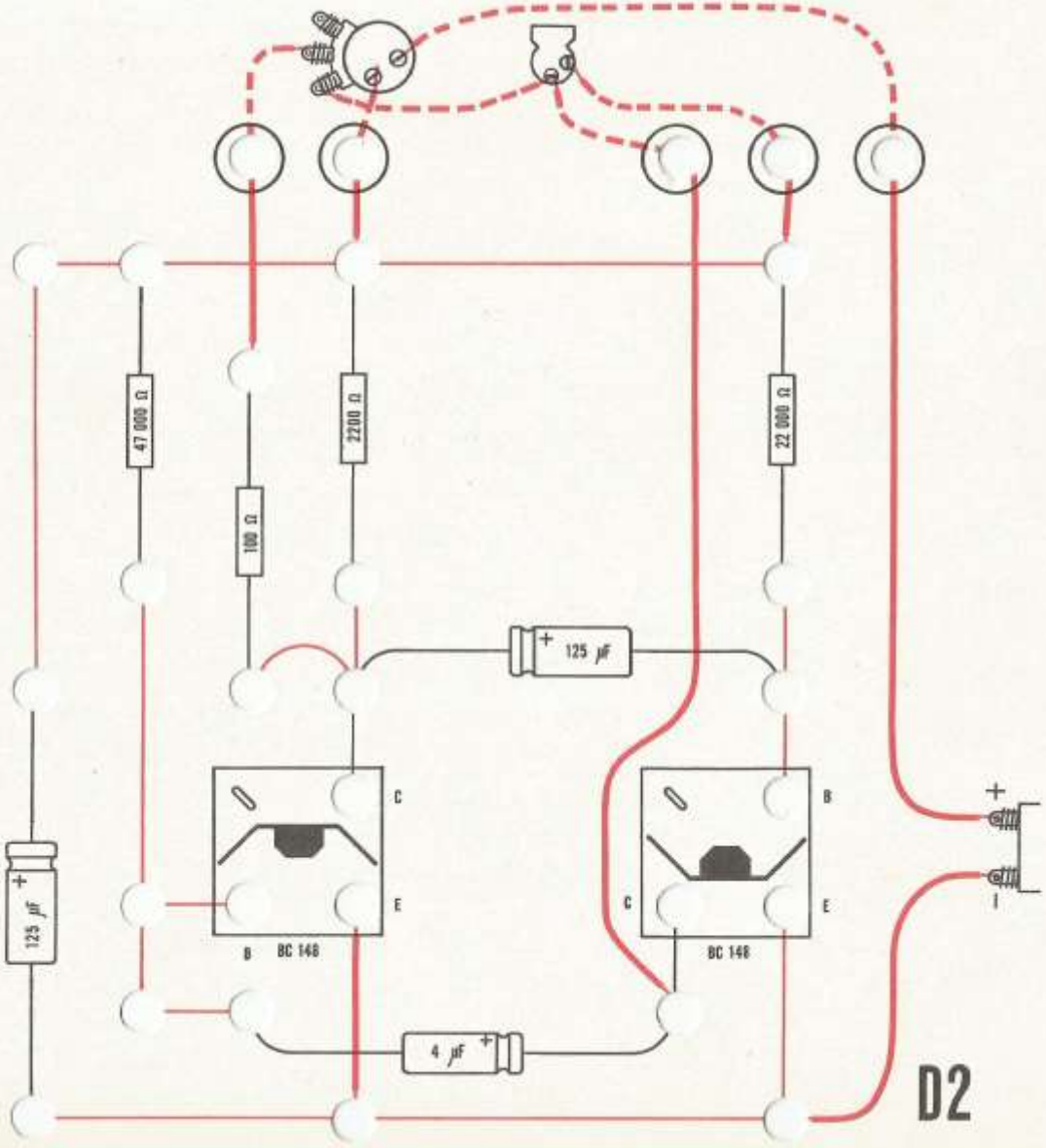

B 3
2200 Ω
10 000 pF
125 µF
4 µF
22 000 Ω
22 000 pF
220 000 Ω
0,22 µF
100 000 Ω
220 Ω
10 µF
10 000 Ω
B
C
E
BC 148
BC 148
BF 194
470 Ω
125 µF
100 Ω
0,1 µF
47 000 µF
1000 Ω
+
-


10 000 Ω
10 000 Ω
0,1 µF
OA 85
1 000 pF
BF 154
C
E
B
4 µF
100 000 Ω
4700 Ω
125 µF
10 pF
47 000 pF
0,22 µF
470 000 Ω
BC 148
E
B
C
10 µF
3300 Ω
47 000 Ω
BC 148
B
C
E
0,1 µF
125 µF
220 Ω
1
2
3
4
C1

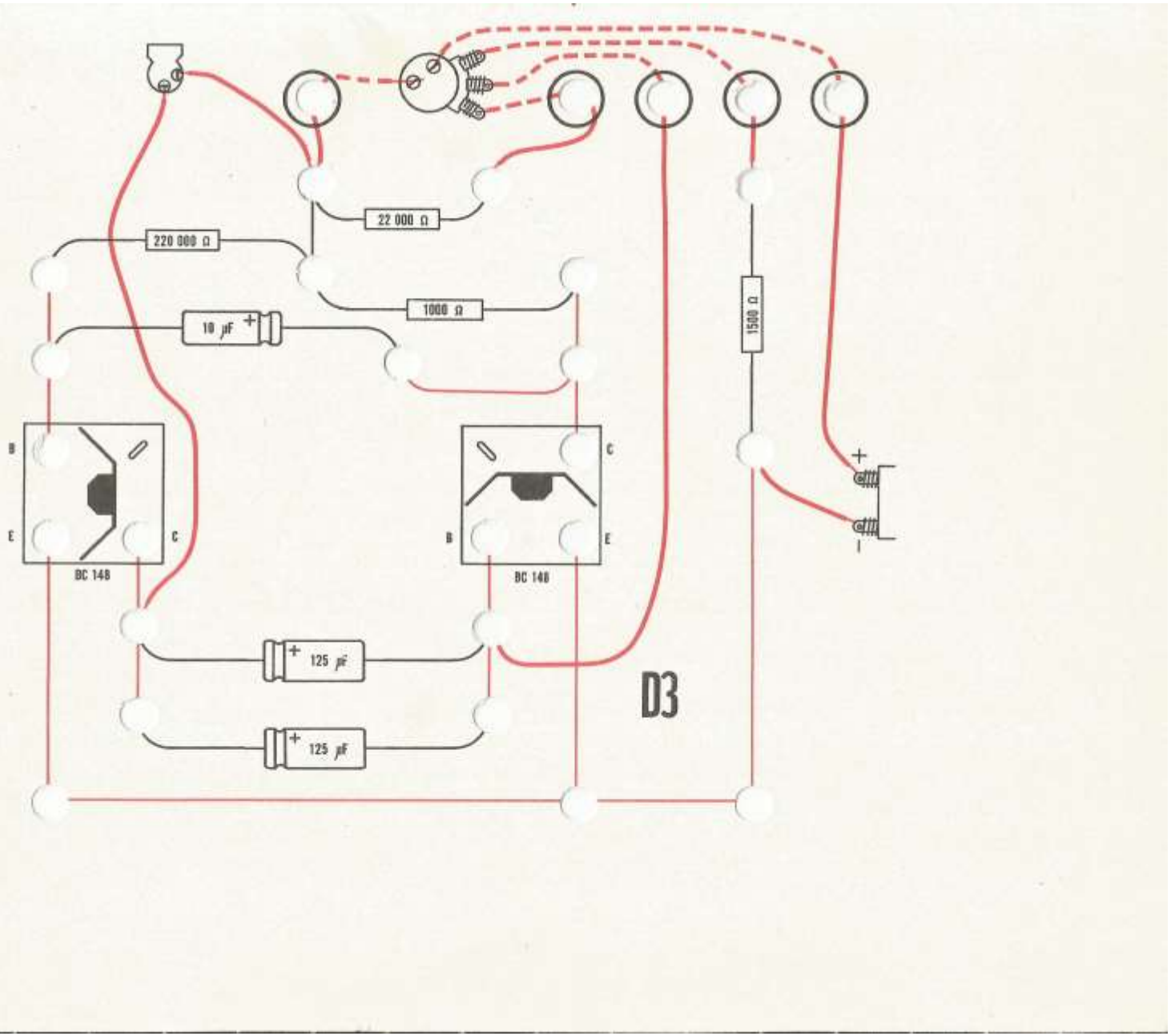

+
-
0,1 µF
47 000 Ω
C
E
B
BC 148
125 µF
10 µF
0,1 µF
3300 Ω
470 000 Ω
C
E
B
BC 148
0,22 µF
22 000 Ω
125 µF
220 Ω
4 µF
470 Ω
10 000 pF
47 000 pF
22 000 pF
2200 Ω
100 Ω
1000 Ω
10 Ω
4700 Ω
10 µF
1000 pF
22 pF
47 pF
C
E
B
BF 194
1
2
3
4
C2

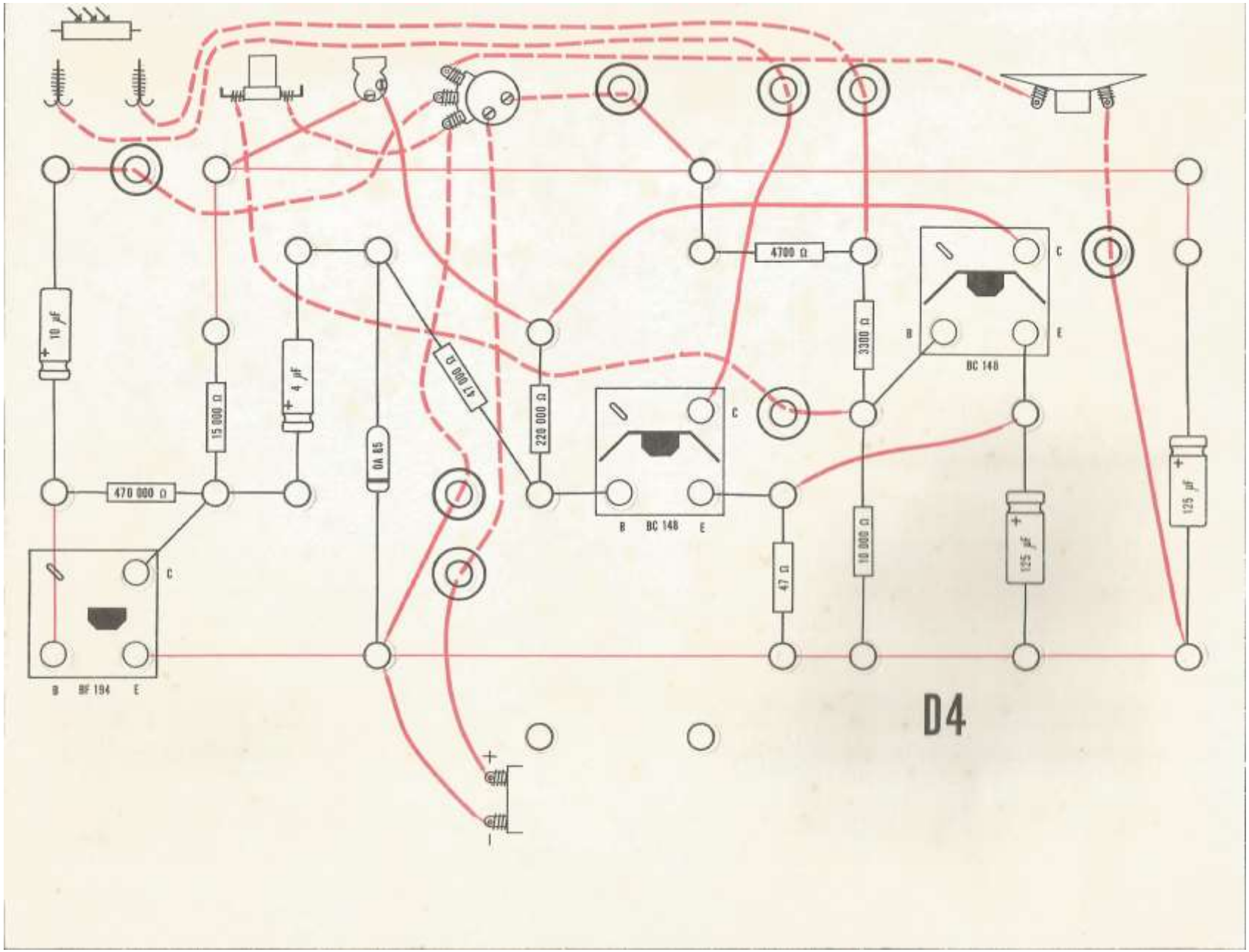

125 µF
+
C
E
BC 148
B
10 000 Ω
3300 Ω
4700 Ω
B
E
C
BC 148
10 000 Ω
2200 Ω
47 Ω
+
-

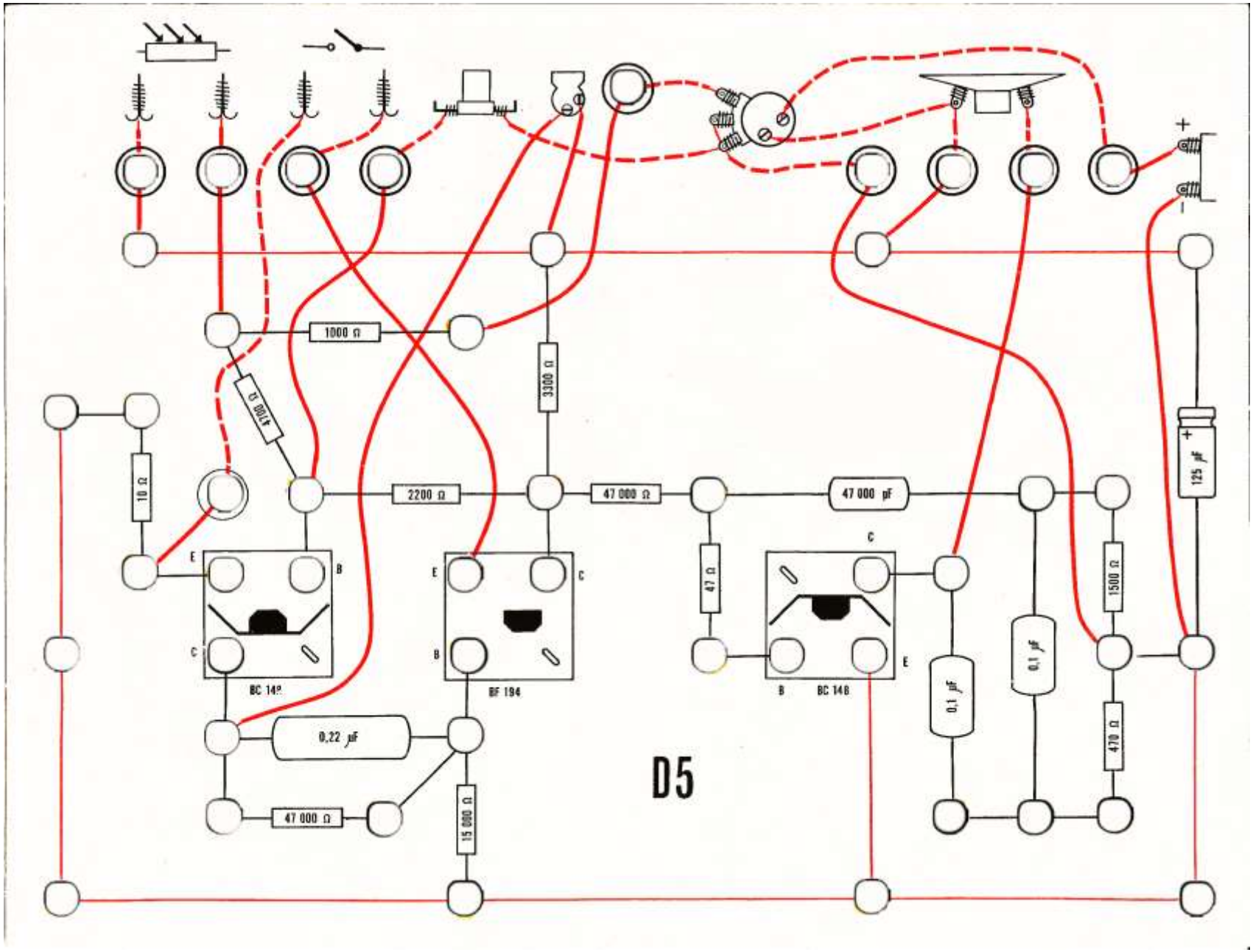
D1

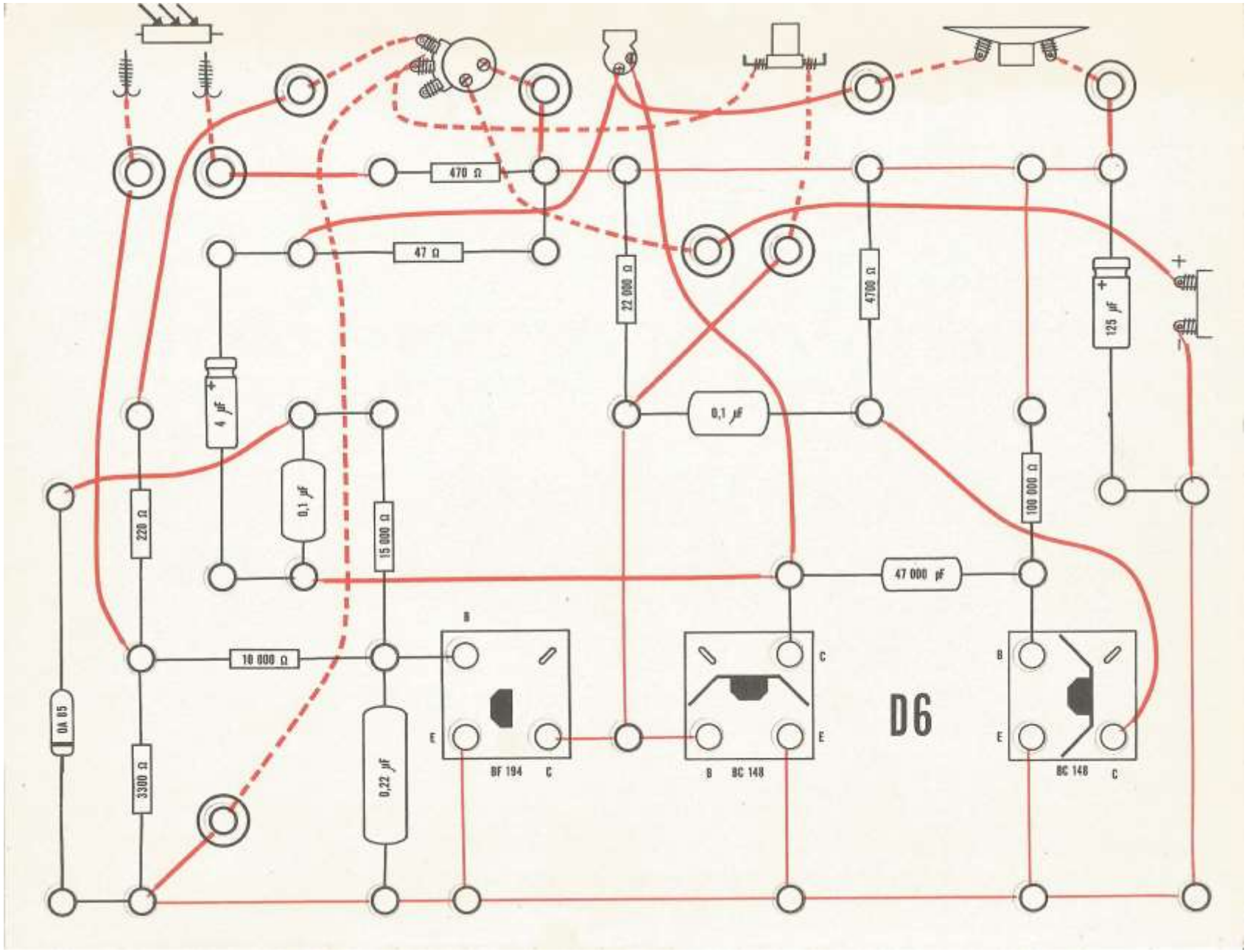

47 000 Ω
100 Ω
2200 Ω
22 000 Ω
125 µF
125 µF
4 µF
C
E
B
BC 148
B
C
E
BC 148
+
-

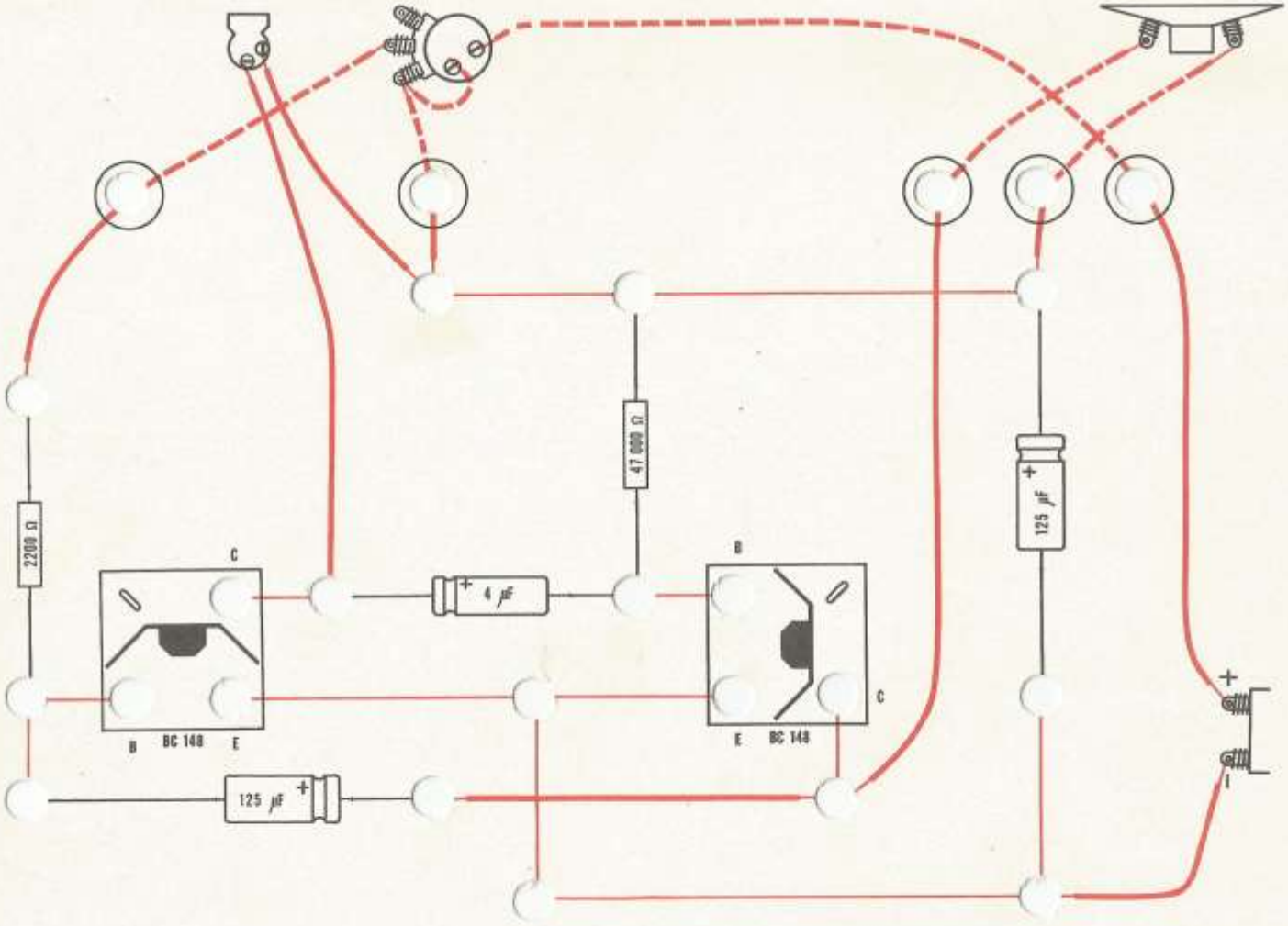
D2


22 000 Ω
220 000 Ω
1000 Ω
10 µF
1500 Ω
B
E
C
BC 148
C
B
E
BC 148
125 µF
125 µF
+
D3


10 µF
470 000 Ω
15 000 Ω
4 µF
OA 85
47 000 Ω
220 000 Ω
4700 Ω
3300 Ω
10 000 Ω
47 Ω
125 µF
125 µF
BC 148
BC 148
BF 194
B
C
E
+
-
D4

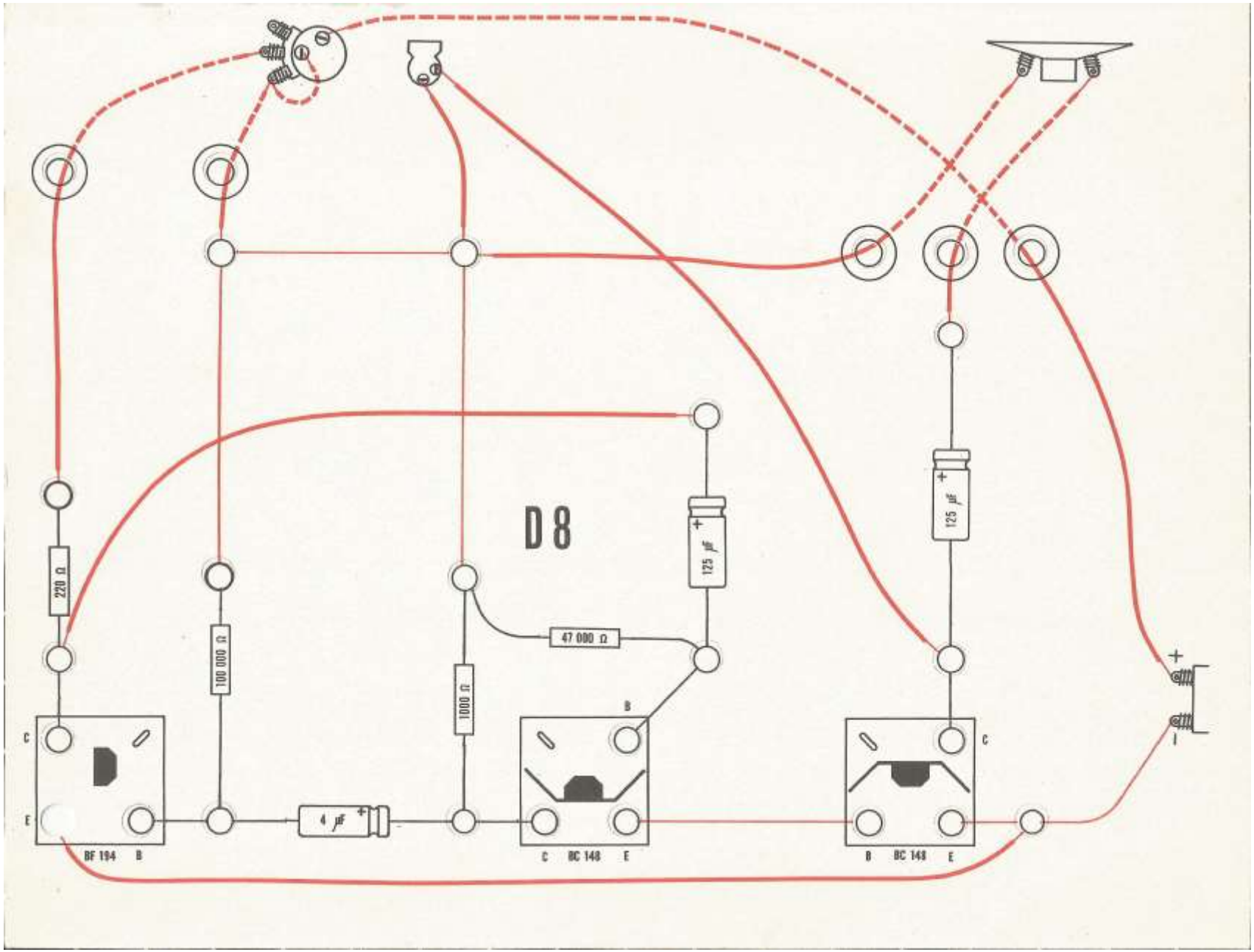

1000 Ω
4100 Ω
3300 Ω
10 Ω
2200 Ω
47 000 Ω
47 000 pF
125 µF
47 Ω
1500 Ω
470 Ω
0,1 µF
0,1 µF
0,22 µF
47 000 Ω
15 000 Ω
BC 149
BF 194
BC 148
E
B
C
D5

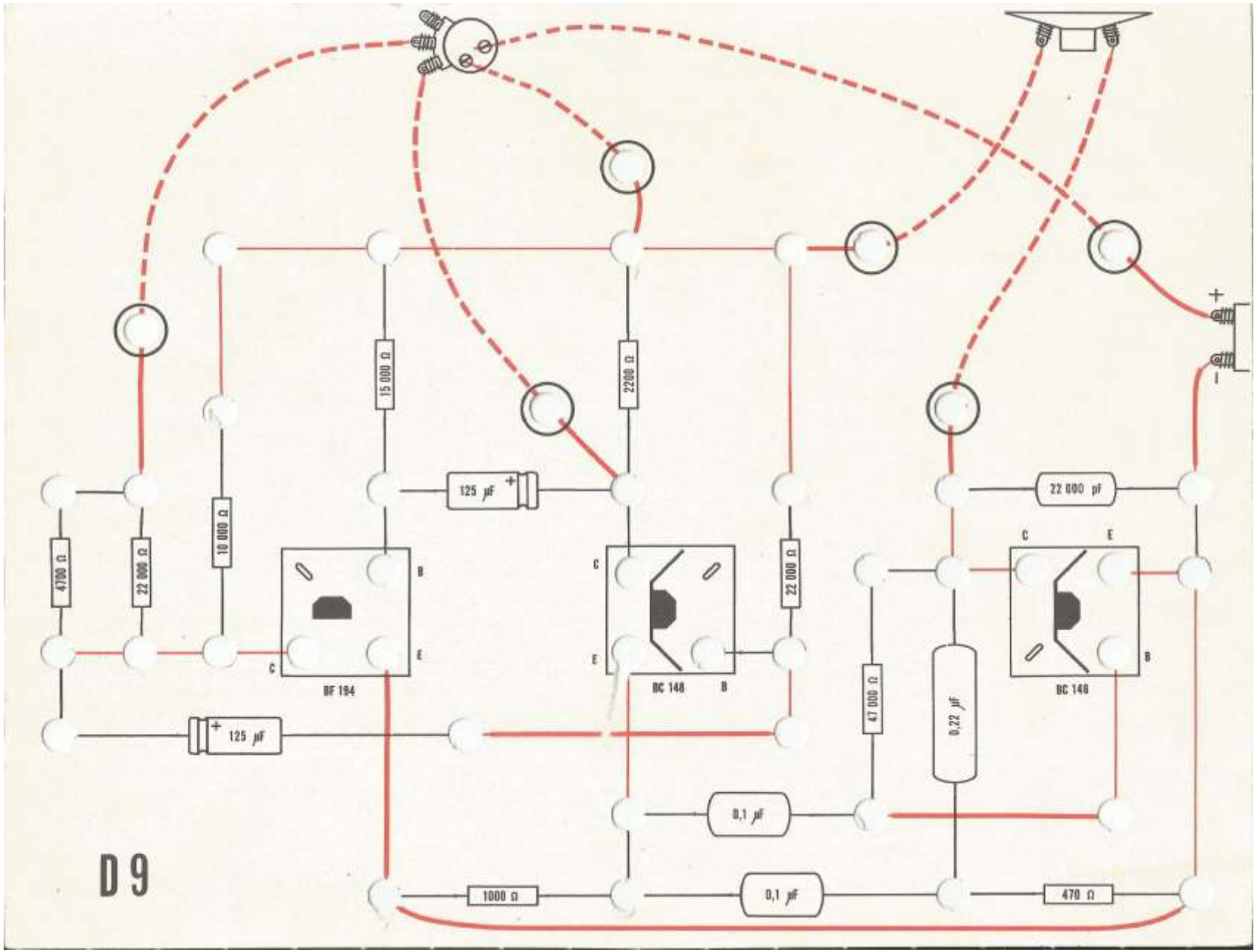

470 Ω
47 Ω
22 000 Ω
4700 Ω
125 µF
4 µF
0,1 µF
0,1 µF
220 Ω
15 000 Ω
100 000 Ω
47 000 µF
10 000 Ω
OA 85
3300 Ω
0,22 µF
B
E
C
BF 194
B
C
E
BC 148
B
E
C
BC 148
D6

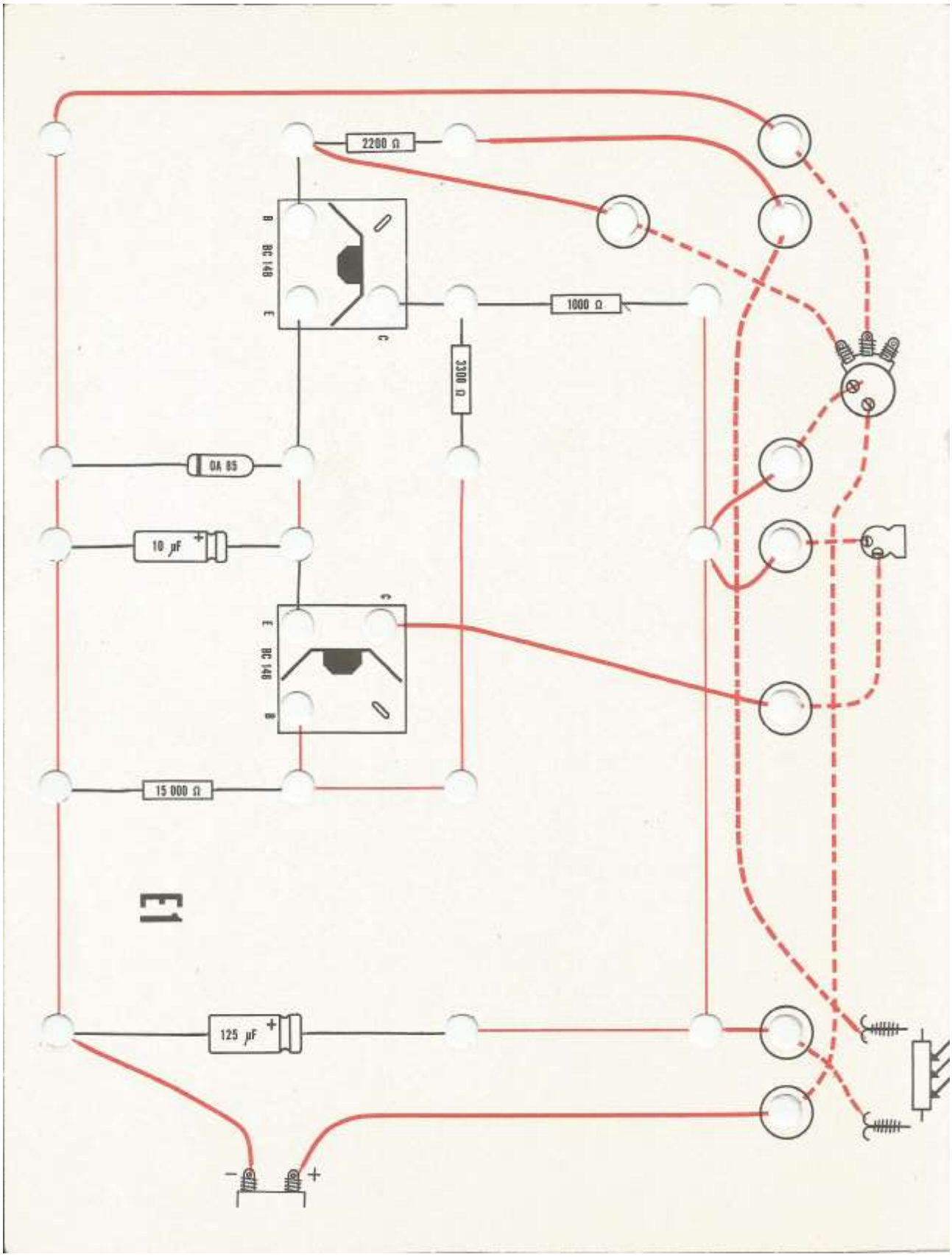


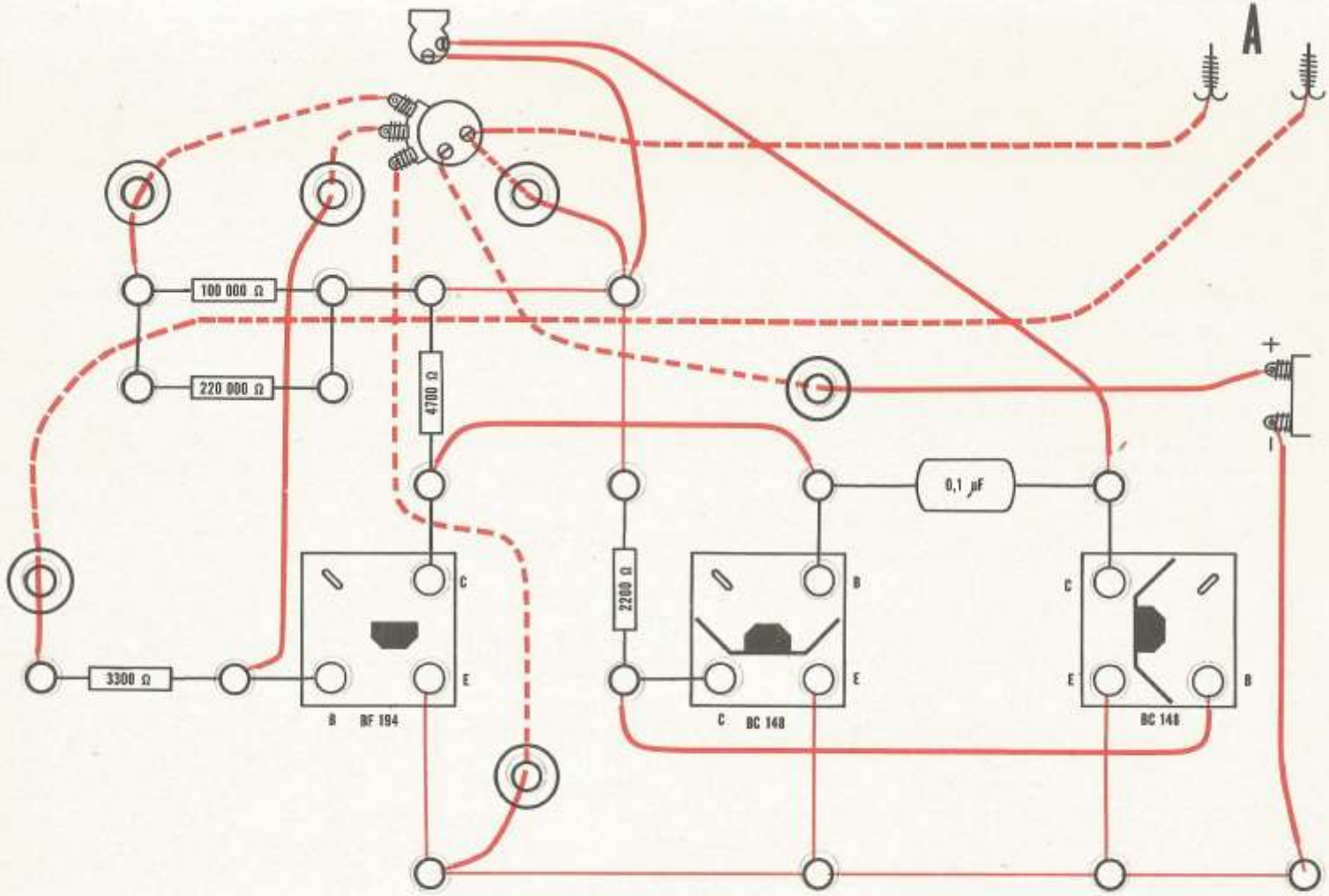
D7

3122 106 0047.4

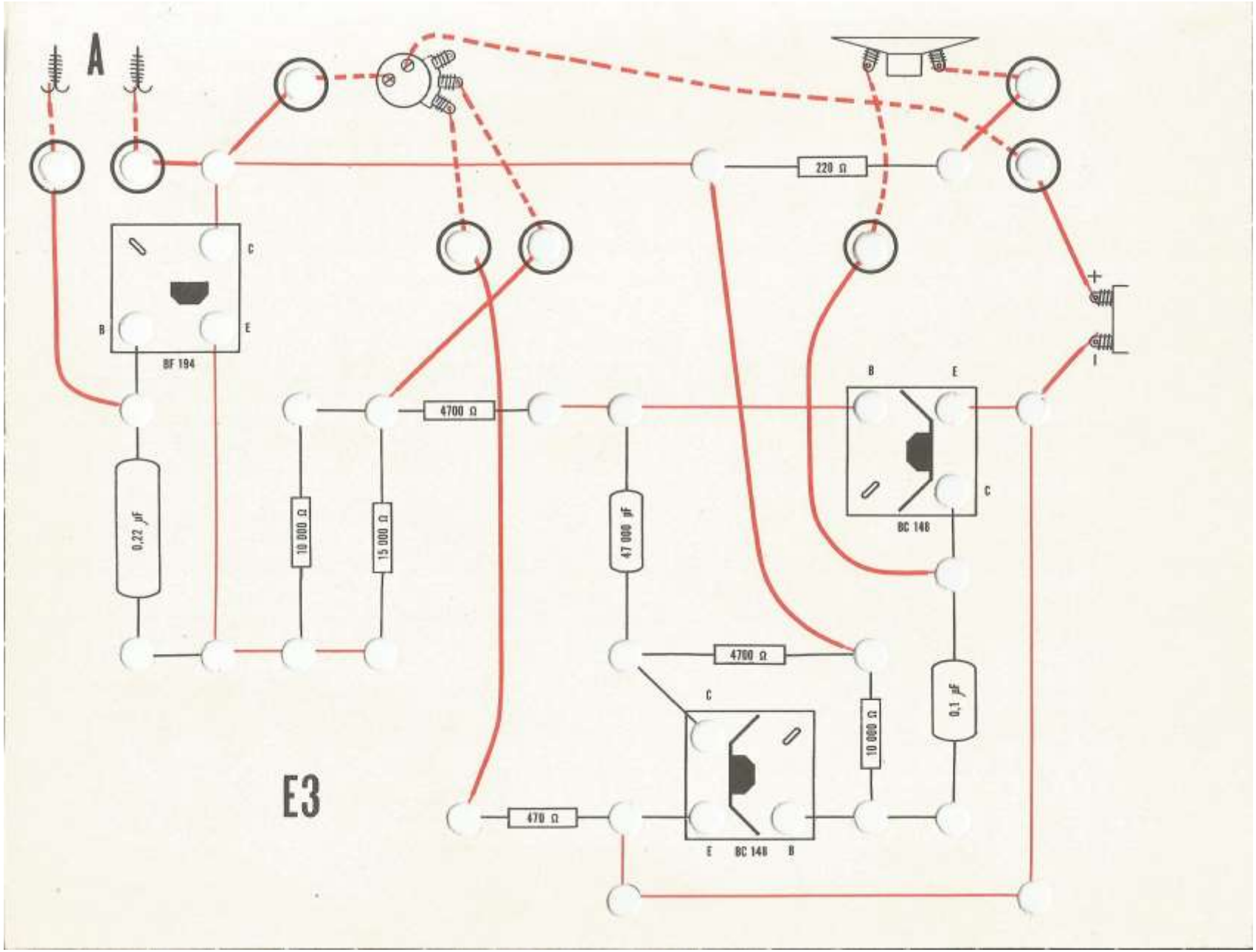

D8
220 Ω
100 000 Ω
1000 Ω
47 000 Ω
125 µF
125 µF
4 µF
C
E
BF 194
B
B
C
BC 148
E
C
B
BC 148
E
+
I

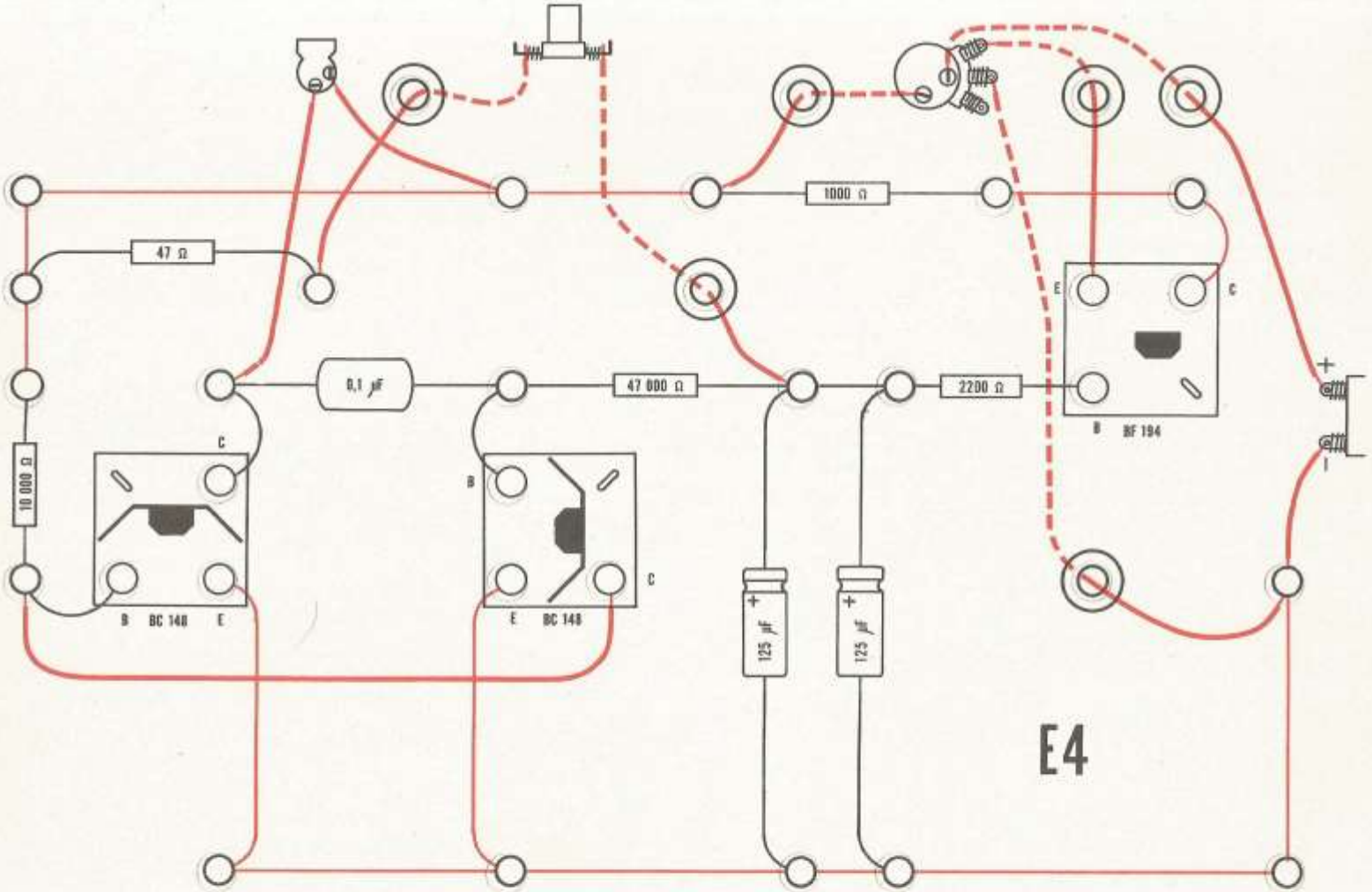

D 9
4700 Ω
22 000 Ω
10 000 Ω
15 000 Ω
2200 Ω
125 µF
125 µF
22 000 Ω
22 000 pF
47 000 Ω
0,22 µF
0,1 µF
0,1 µF
1000 Ω
470 Ω
BF 194
BC 148
BC 148
B
C
E
+
-


2200 Ω
BC 149
B
E
C
1000 Ω
3300 Ω
OA 85
10 µF
BC 149
C
E
B
15 000 Ω
E1
125 µF
−
+

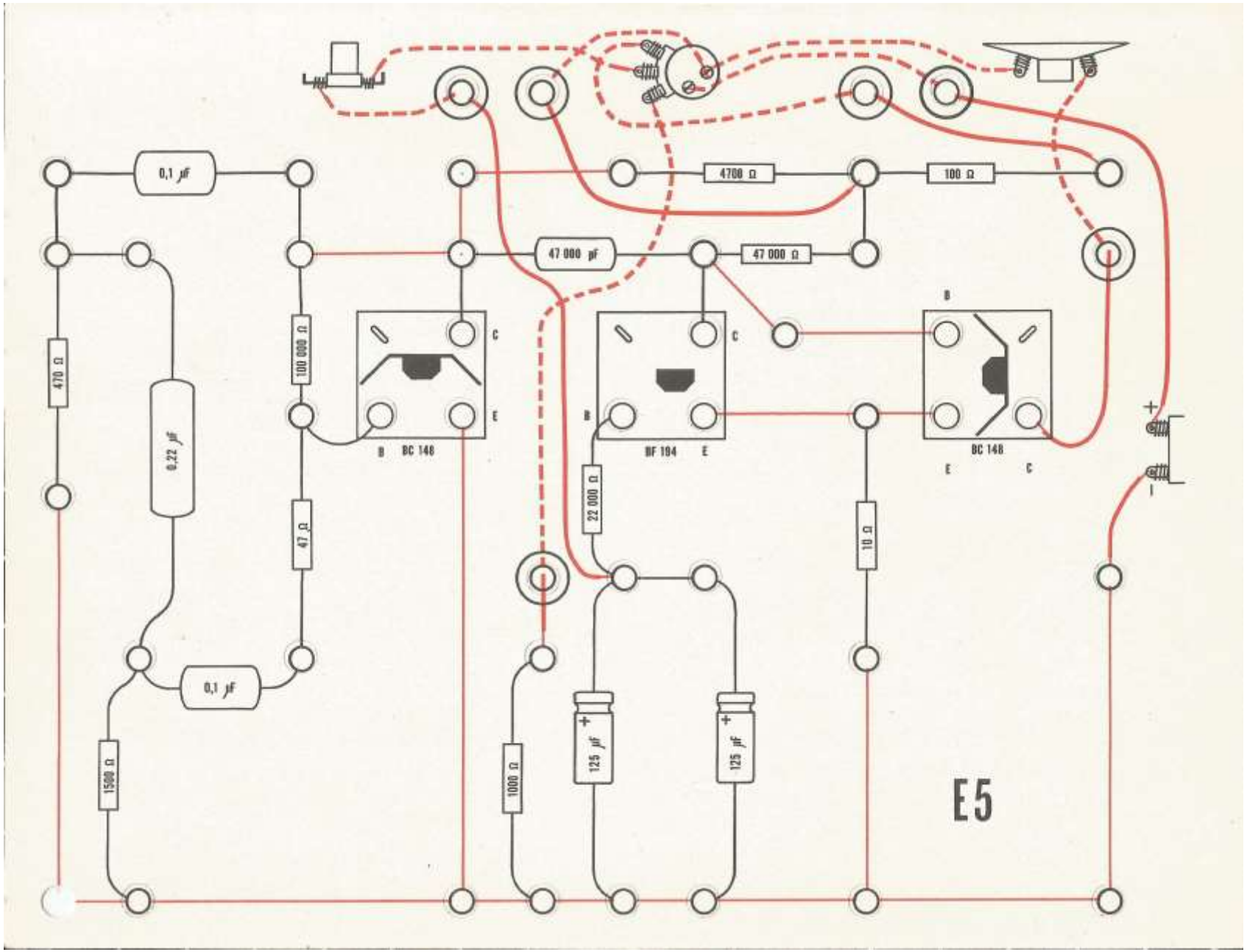

A
100 000 Ω
220 000 Ω
4700 Ω
3300 Ω
2200 Ω
0,1 µF
+
-
C
E
B
BF 194
C
BC 148
E
B
C
E
B
BC 148

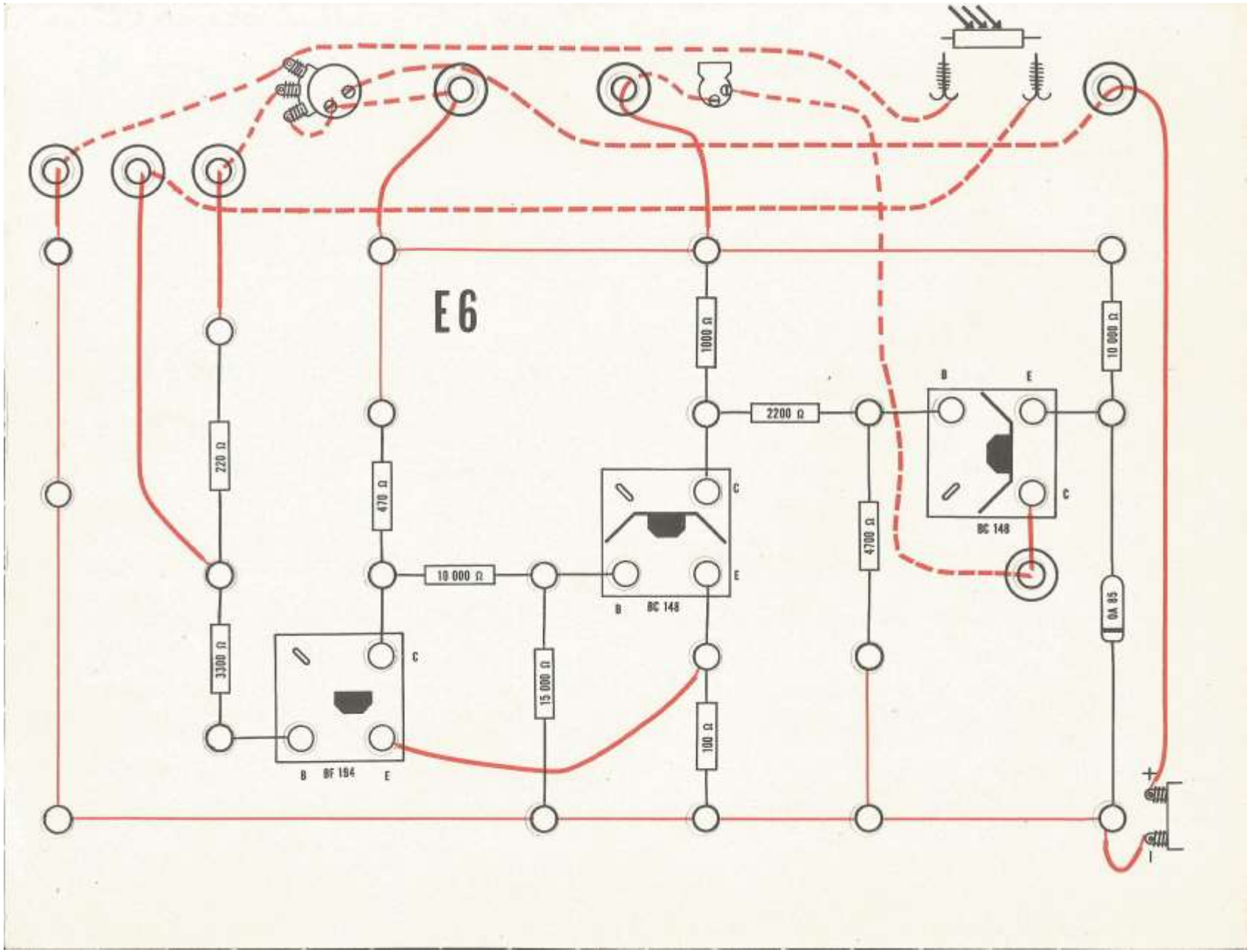
E2

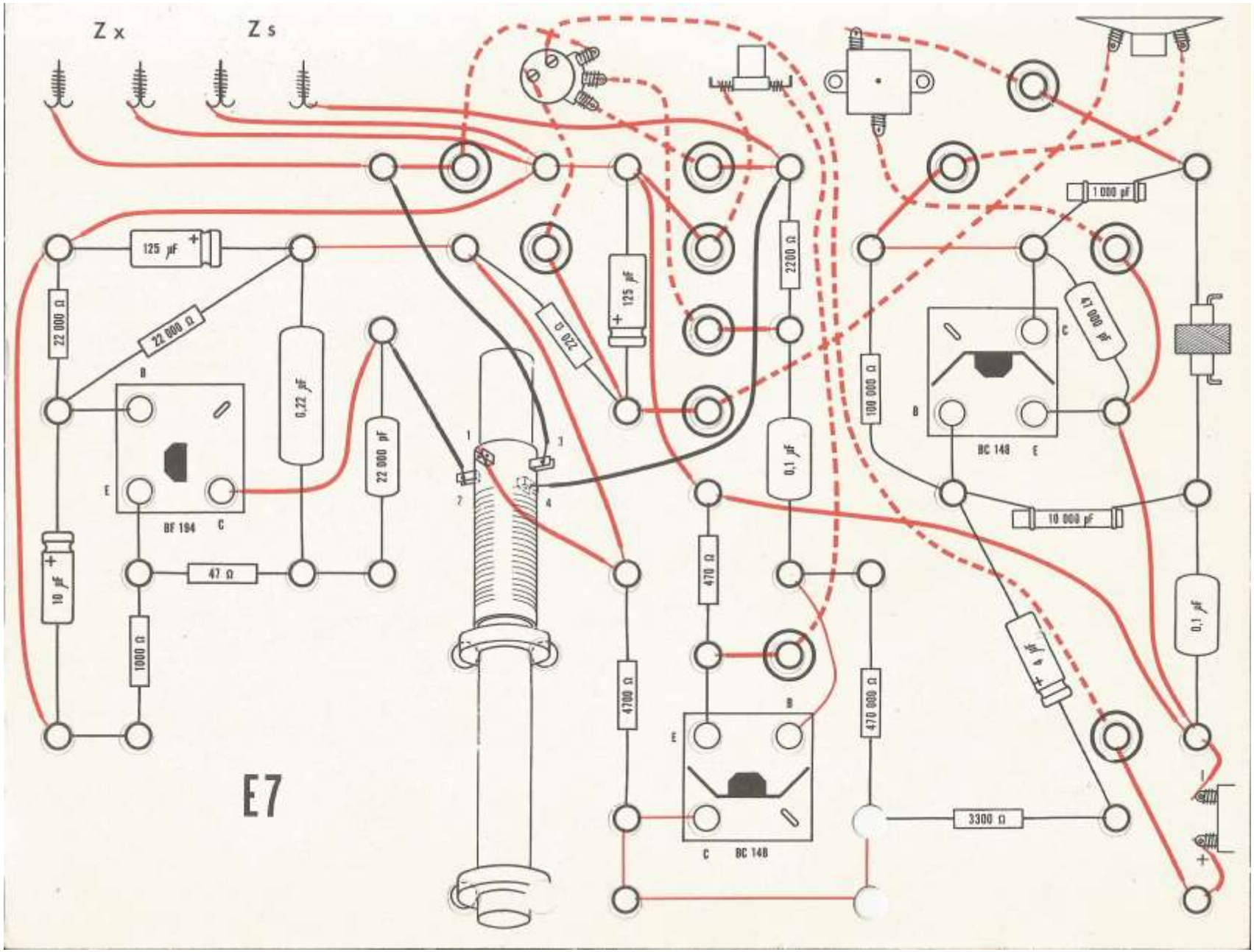

A
220 Ω
C
B
E
BF 194
+
I
B
E
4700 Ω
C
BC 148
0,22 µF
10 000 Ω
15 000 Ω
47 000 µF
4700 Ω
C
10 000 Ω
0,1 µF
E3
470 Ω
E
BC 148
B


47 Ω
1000 Ω
0,1 µF
47 000 Ω
2200 Ω
10 000 Ω
125 µF
125 µF
BC 148
BC 148
BF 194
B
C
E
+
-

E4


0,1 µF
4700 Ω
100 Ω
47 000 pF
47 000 Ω
470 Ω
100 000 Ω
0,22 µF
47 Ω
BC 148
BF 194
BC 148
22 000 Ω
10 Ω
0,1 µF
1500 Ω
1000 Ω
125 µF
125 µF
E5


E6
220 Ω
3300 Ω
470 Ω
10 000 Ω
15 000 Ω
1000 Ω
100 Ω
2200 Ω
4700 Ω
10 000 Ω
OA 95
BF 194
BC 148
BC 148
B
E
C
+
-


Zx
Zs
125 µF
22 000 Ω
22 000 Ω
0,22 µF
22 000 µF
BF 194
E
B
C
10 µF
1000 Ω
47 Ω
0,022
125 µF
2200 Ω
0,1 µF
470 Ω
4700 Ω
BC 148
C
B
E
470 000 Ω
3300 Ω
100 000 Ω
1 000 µF
47 000 µF
BC 148
C
B
E
10 000 µF
0,1 µF
E7