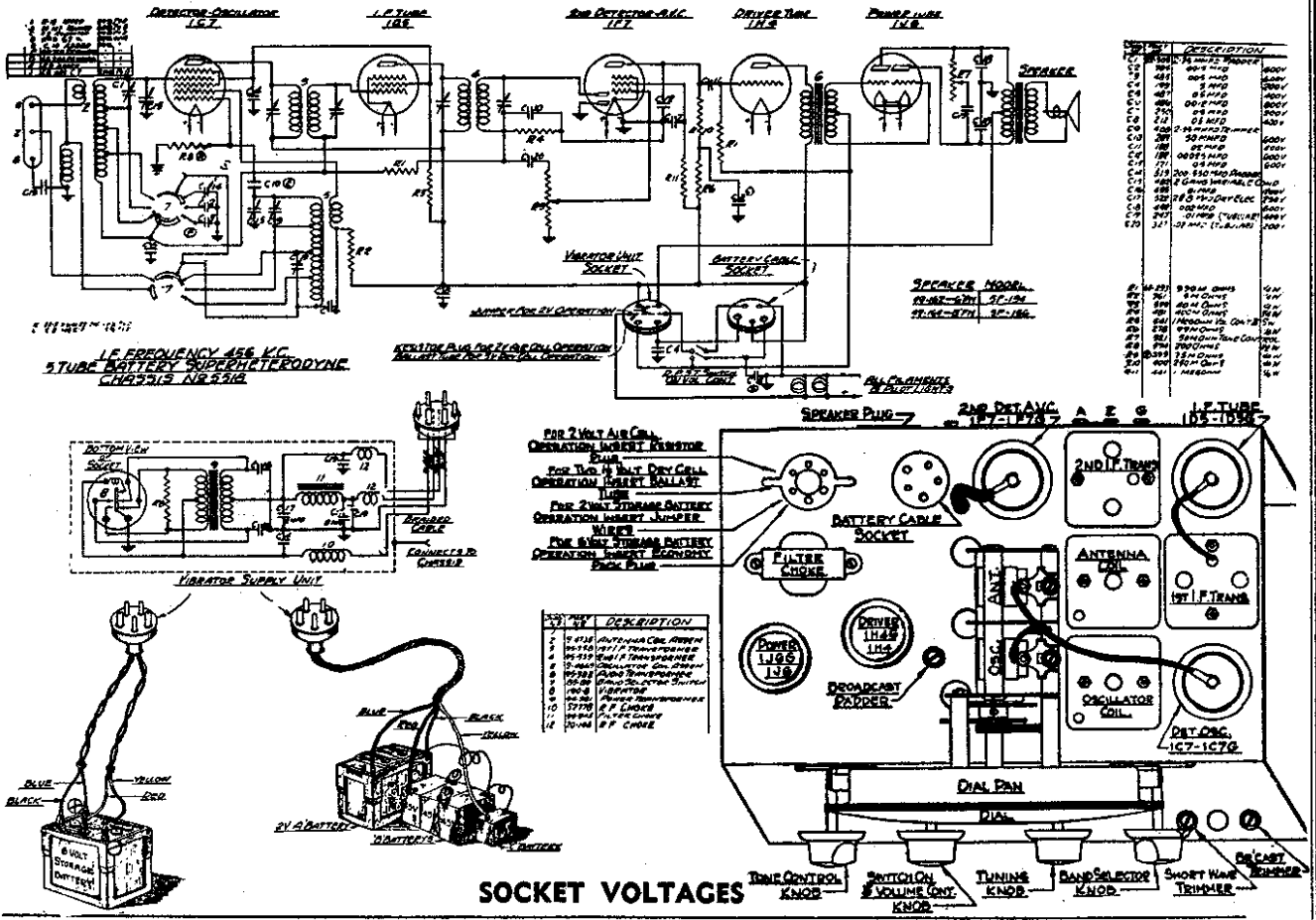


ZENITH RADIO CORP.

MODELS 5F134, 5F166  
 Chassis 5518  
 Schematic, Voltage  
 Socket, Trimmers  
 Alignment, Parts  
 Battery Conn.



NO.	DESCRIPTION
1	1C7 1st Det. Osc. 600V
2	1D5 I.F. Transformer 500V
3	1F7 2nd Det. A.V.C. 500V
4	1H4 Driver 250V
5	1J6 Power 500V
6	1K7 1st I.F. Transformer 500V
7	1L1 1st I.F. Transformer 500V
8	1L2 2nd I.F. Transformer 500V
9	1L3 3rd I.F. Transformer 500V
10	1L4 4th I.F. Transformer 500V
11	1L5 5th I.F. Transformer 500V
12	1L6 6th I.F. Transformer 500V
13	1L7 7th I.F. Transformer 500V
14	1L8 8th I.F. Transformer 500V
15	1L9 9th I.F. Transformer 500V
16	1L10 10th I.F. Transformer 500V
17	1L11 11th I.F. Transformer 500V
18	1L12 12th I.F. Transformer 500V
19	1L13 13th I.F. Transformer 500V
20	1L14 14th I.F. Transformer 500V
21	1L15 15th I.F. Transformer 500V
22	1L16 16th I.F. Transformer 500V
23	1L17 17th I.F. Transformer 500V
24	1L18 18th I.F. Transformer 500V
25	1L19 19th I.F. Transformer 500V
26	1L20 20th I.F. Transformer 500V
27	1L21 21st I.F. Transformer 500V
28	1L22 22nd I.F. Transformer 500V
29	1L23 23rd I.F. Transformer 500V
30	1L24 24th I.F. Transformer 500V
31	1L25 25th I.F. Transformer 500V
32	1L26 26th I.F. Transformer 500V
33	1L27 27th I.F. Transformer 500V
34	1L28 28th I.F. Transformer 500V
35	1L29 29th I.F. Transformer 500V
36	1L30 30th I.F. Transformer 500V
37	1L31 31st I.F. Transformer 500V
38	1L32 32nd I.F. Transformer 500V
39	1L33 33rd I.F. Transformer 500V
40	1L34 34th I.F. Transformer 500V
41	1L35 35th I.F. Transformer 500V
42	1L36 36th I.F. Transformer 500V
43	1L37 37th I.F. Transformer 500V
44	1L38 38th I.F. Transformer 500V
45	1L39 39th I.F. Transformer 500V
46	1L40 40th I.F. Transformer 500V
47	1L41 41st I.F. Transformer 500V
48	1L42 42nd I.F. Transformer 500V
49	1L43 43rd I.F. Transformer 500V
50	1L44 44th I.F. Transformer 500V
51	1L45 45th I.F. Transformer 500V
52	1L46 46th I.F. Transformer 500V
53	1L47 47th I.F. Transformer 500V
54	1L48 48th I.F. Transformer 500V
55	1L49 49th I.F. Transformer 500V
56	1L50 50th I.F. Transformer 500V
57	1L51 51st I.F. Transformer 500V
58	1L52 52nd I.F. Transformer 500V
59	1L53 53rd I.F. Transformer 500V
60	1L54 54th I.F. Transformer 500V
61	1L55 55th I.F. Transformer 500V
62	1L56 56th I.F. Transformer 500V
63	1L57 57th I.F. Transformer 500V
64	1L58 58th I.F. Transformer 500V
65	1L59 59th I.F. Transformer 500V
66	1L60 60th I.F. Transformer 500V
67	1L61 61st I.F. Transformer 500V
68	1L62 62nd I.F. Transformer 500V
69	1L63 63rd I.F. Transformer 500V
70	1L64 64th I.F. Transformer 500V
71	1L65 65th I.F. Transformer 500V
72	1L66 66th I.F. Transformer 500V
73	1L67 67th I.F. Transformer 500V
74	1L68 68th I.F. Transformer 500V
75	1L69 69th I.F. Transformer 500V
76	1L70 70th I.F. Transformer 500V
77	1L71 71st I.F. Transformer 500V
78	1L72 72nd I.F. Transformer 500V
79	1L73 73rd I.F. Transformer 500V
80	1L74 74th I.F. Transformer 500V
81	1L75 75th I.F. Transformer 500V
82	1L76 76th I.F. Transformer 500V
83	1L77 77th I.F. Transformer 500V
84	1L78 78th I.F. Transformer 500V
85	1L79 79th I.F. Transformer 500V
86	1L80 80th I.F. Transformer 500V
87	1L81 81st I.F. Transformer 500V
88	1L82 82nd I.F. Transformer 500V
89	1L83 83rd I.F. Transformer 500V
90	1L84 84th I.F. Transformer 500V
91	1L85 85th I.F. Transformer 500V
92	1L86 86th I.F. Transformer 500V
93	1L87 87th I.F. Transformer 500V
94	1L88 88th I.F. Transformer 500V
95	1L89 89th I.F. Transformer 500V
96	1L90 90th I.F. Transformer 500V
97	1L91 91st I.F. Transformer 500V
98	1L92 92nd I.F. Transformer 500V
99	1L93 93rd I.F. Transformer 500V
100	1L94 94th I.F. Transformer 500V
101	1L95 95th I.F. Transformer 500V
102	1L96 96th I.F. Transformer 500V
103	1L97 97th I.F. Transformer 500V
104	1L98 98th I.F. Transformer 500V
105	1L99 99th I.F. Transformer 500V
106	1L100 100th I.F. Transformer 500V

SOCKET VOLTAGES

Tube	Position	1	2	3	4	5	6	7	8	9
1C7	1st Det. Osc.	0	2	130	53	0	115	0	0	0
1D5	I.F.	0	2	130	53	—	—	0	0	0
1F7	2nd Det. A.V.C.	0	2	24	0	0	15	0	0	0
1H4	Driver	0	2	120	—	0	—	0	0	—
1J6	Power	0	2	143	-1	-1	143	0	0	—

All voltages measured with a 1000 ohm per volt D.C. meter and using the Zenith 6 V Economy Pack—Antenna and ground disconnected.

Battery Voltage—6.3 V.

Battery Drain—1.1 ampere

ALIGNMENT PROCEDURE

Connect the output leads of the signal generator to grid of the first detector and receiver chassis. Also connect an output meter across the speaker transformer leads.

Set the signal generator at 456 K.C. and carefully adjust the four I.F. trimmers to the point giving the highest reading on the output meter. The I. F. transformers are of a very high gain, selective type, and these adjustments should be repeated several times in order to secure maximum accuracy.

All adjustments should be made using as weak an output from the signal generator as possible in order to prevent the A.V.C. action from affecting the output readings.

Change the signal generator leads to the antenna and ground terminals of the receiver.

Set signal generator at 5 M.C. Switch receiver to band B and adjust osc. trimmer on gang for correct dial reading.

Set signal generator at 1400 K.C. Switch receiver to band A and adjust broadcast trimmer (located at front of chassis—see diagram below) for correct dial reading. Also adjust antenna trimmer on gang to resonance.

Set signal generator at 18 M.C.—Switch receiver to band C and adjust the short wave trimmer while rocking the pointer past 18 M.C. on the dial to the combination giving the greatest output.

Set signal generator at 600 K.C.—Switch receiver to band A and rock pointer past 600 on dial while adjusting the broadcast padder (located adjacent to gang condenser) to combination giving the greatest output reading.

Readjust broadcast and ant trimmers at 1400 K.C. (Same as No. 5).