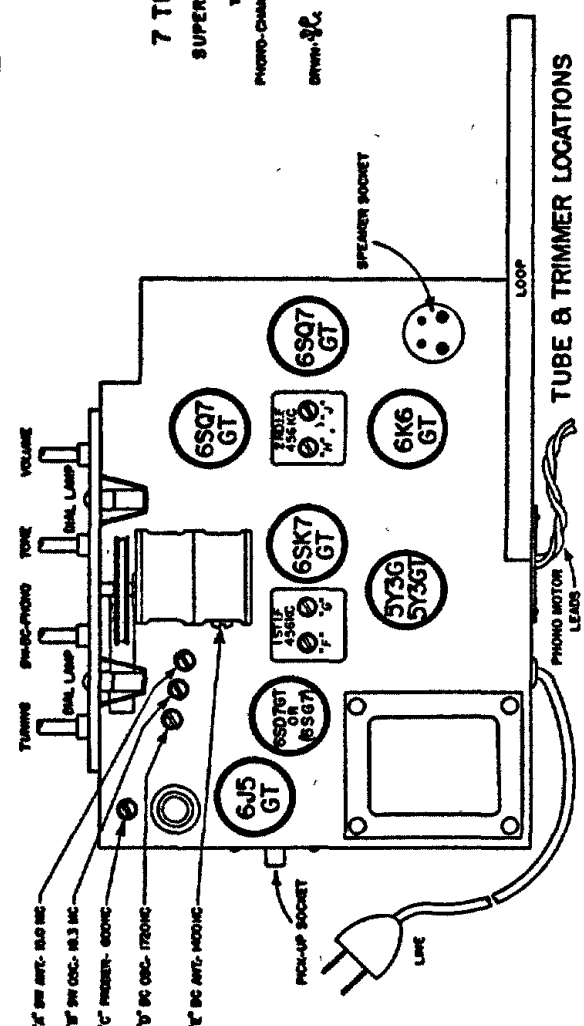


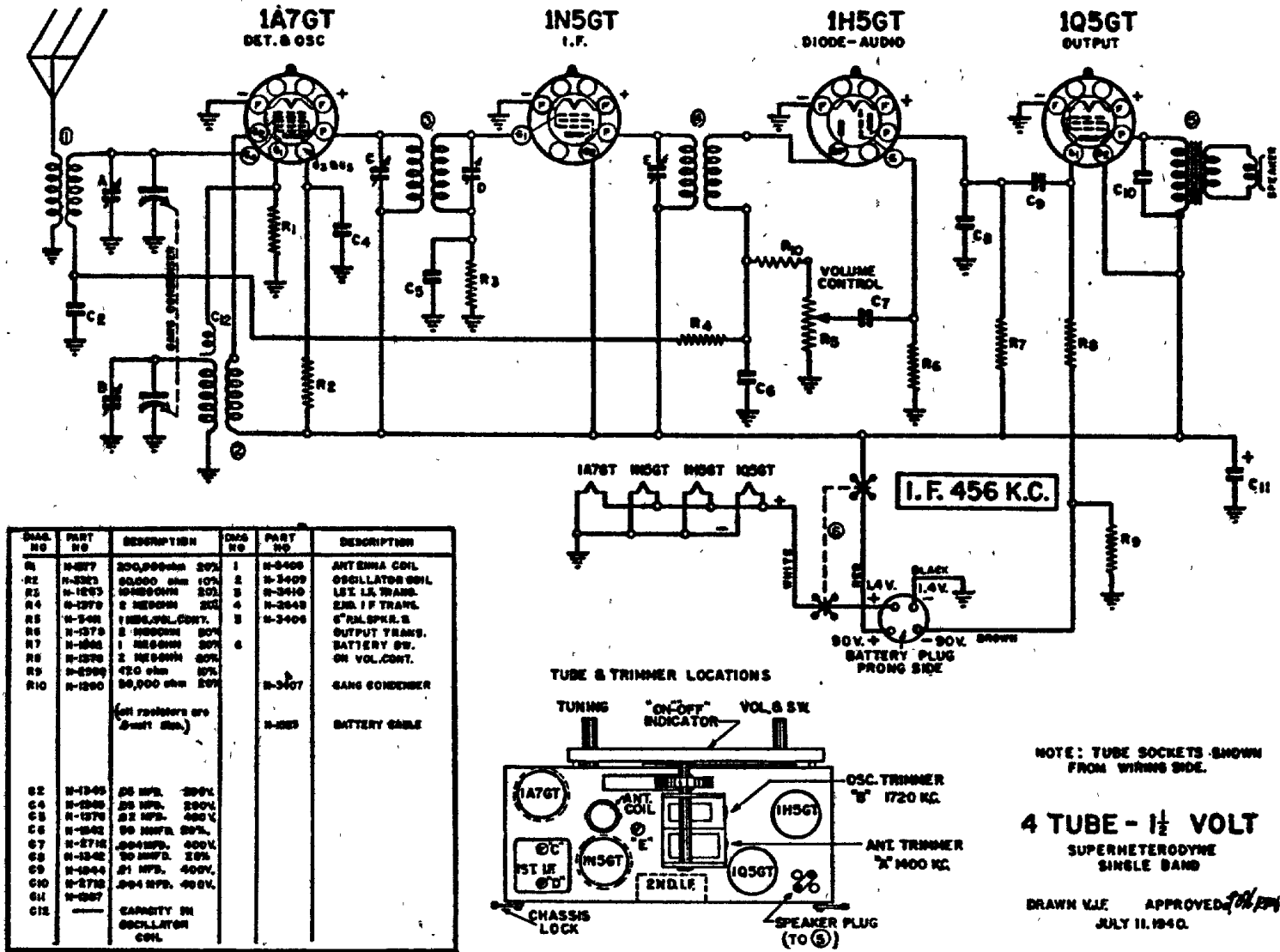
I.F. - 456 KC.

7 TUBE A.C.
SUPERHETERODYNE
TWO BAND
PHONO-CHAMBER COMBINATION
DRUM-8C
APP'D
JUNE, 1940



COMP. NO.	DESCRIPTION	QTY.	REMARKS
1	6SK7GT	1	10% 1000 OHM .5W.
2	6SQ7GT	1	10% 1000 OHM .5W.
3	6K6GT	1	10% 1000 OHM .5W.
4	6J5GT	1	10% 1000 OHM .5W.
5	5Y3GT	1	10% 1000 OHM .5W.
6	6SQ7GT	1	10% 1000 OHM .5W.
7	6SK7GT	1	10% 1000 OHM .5W.
8	6K6GT	1	10% 1000 OHM .5W.
9	6J5GT	1	10% 1000 OHM .5W.
10	5Y3GT	1	10% 1000 OHM .5W.
11	6SQ7GT	1	10% 1000 OHM .5W.
12	6SK7GT	1	10% 1000 OHM .5W.
13	6K6GT	1	10% 1000 OHM .5W.
14	6J5GT	1	10% 1000 OHM .5W.
15	5Y3GT	1	10% 1000 OHM .5W.
16	6SQ7GT	1	10% 1000 OHM .5W.
17	6SK7GT	1	10% 1000 OHM .5W.
18	6K6GT	1	10% 1000 OHM .5W.
19	6J5GT	1	10% 1000 OHM .5W.
20	5Y3GT	1	10% 1000 OHM .5W.
21	6SQ7GT	1	10% 1000 OHM .5W.
22	6SK7GT	1	10% 1000 OHM .5W.
23	6K6GT	1	10% 1000 OHM .5W.
24	6J5GT	1	10% 1000 OHM .5W.
25	5Y3GT	1	10% 1000 OHM .5W.
26	6SQ7GT	1	10% 1000 OHM .5W.
27	6SK7GT	1	10% 1000 OHM .5W.
28	6K6GT	1	10% 1000 OHM .5W.
29	6J5GT	1	10% 1000 OHM .5W.
30	5Y3GT	1	10% 1000 OHM .5W.
31	6SQ7GT	1	10% 1000 OHM .5W.
32	6SK7GT	1	10% 1000 OHM .5W.
33	6K6GT	1	10% 1000 OHM .5W.
34	6J5GT	1	10% 1000 OHM .5W.
35	5Y3GT	1	10% 1000 OHM .5W.
36	6SQ7GT	1	10% 1000 OHM .5W.
37	6SK7GT	1	10% 1000 OHM .5W.
38	6K6GT	1	10% 1000 OHM .5W.
39	6J5GT	1	10% 1000 OHM .5W.
40	5Y3GT	1	10% 1000 OHM .5W.
41	6SQ7GT	1	10% 1000 OHM .5W.
42	6SK7GT	1	10% 1000 OHM .5W.
43	6K6GT	1	10% 1000 OHM .5W.
44	6J5GT	1	10% 1000 OHM .5W.
45	5Y3GT	1	10% 1000 OHM .5W.
46	6SQ7GT	1	10% 1000 OHM .5W.
47	6SK7GT	1	10% 1000 OHM .5W.
48	6K6GT	1	10% 1000 OHM .5W.
49	6J5GT	1	10% 1000 OHM .5W.
50	5Y3GT	1	10% 1000 OHM .5W.
51	6SQ7GT	1	10% 1000 OHM .5W.
52	6SK7GT	1	10% 1000 OHM .5W.
53	6K6GT	1	10% 1000 OHM .5W.
54	6J5GT	1	10% 1000 OHM .5W.
55	5Y3GT	1	10% 1000 OHM .5W.
56	6SQ7GT	1	10% 1000 OHM .5W.
57	6SK7GT	1	10% 1000 OHM .5W.
58	6K6GT	1	10% 1000 OHM .5W.
59	6J5GT	1	10% 1000 OHM .5W.
60	5Y3GT	1	10% 1000 OHM .5W.
61	6SQ7GT	1	10% 1000 OHM .5W.
62	6SK7GT	1	10% 1000 OHM .5W.
63	6K6GT	1	10% 1000 OHM .5W.
64	6J5GT	1	10% 1000 OHM .5W.
65	5Y3GT	1	10% 1000 OHM .5W.
66	6SQ7GT	1	10% 1000 OHM .5W.
67	6SK7GT	1	10% 1000 OHM .5W.
68	6K6GT	1	10% 1000 OHM .5W.
69	6J5GT	1	10% 1000 OHM .5W.
70	5Y3GT	1	10% 1000 OHM .5W.
71	6SQ7GT	1	10% 1000 OHM .5W.
72	6SK7GT	1	10% 1000 OHM .5W.
73	6K6GT	1	10% 1000 OHM .5W.
74	6J5GT	1	10% 1000 OHM .5W.
75	5Y3GT	1	10% 1000 OHM .5W.
76	6SQ7GT	1	10% 1000 OHM .5W.
77	6SK7GT	1	10% 1000 OHM .5W.
78	6K6GT	1	10% 1000 OHM .5W.
79	6J5GT	1	10% 1000 OHM .5W.
80	5Y3GT	1	10% 1000 OHM .5W.
81	6SQ7GT	1	10% 1000 OHM .5W.
82	6SK7GT	1	10% 1000 OHM .5W.
83	6K6GT	1	10% 1000 OHM .5W.
84	6J5GT	1	10% 1000 OHM .5W.
85	5Y3GT	1	10% 1000 OHM .5W.
86	6SQ7GT	1	10% 1000 OHM .5W.
87	6SK7GT	1	10% 1000 OHM .5W.
88	6K6GT	1	10% 1000 OHM .5W.
89	6J5GT	1	10% 1000 OHM .5W.
90	5Y3GT	1	10% 1000 OHM .5W.
91	6SQ7GT	1	10% 1000 OHM .5W.
92	6SK7GT	1	10% 1000 OHM .5W.
93	6K6GT	1	10% 1000 OHM .5W.
94	6J5GT	1	10% 1000 OHM .5W.
95	5Y3GT	1	10% 1000 OHM .5W.
96	6SQ7GT	1	10% 1000 OHM .5W.
97	6SK7GT	1	10% 1000 OHM .5W.
98	6K6GT	1	10% 1000 OHM .5W.
99	6J5GT	1	10% 1000 OHM .5W.
100	5Y3GT	1	10% 1000 OHM .5W.

POSITION	CONTACTS MADE
FRONT	1-2, 10-11
REAR	3-4, 5-6, 7-8, 9-10
117 VOLTS A.C.	1-2, 10-11
TO HEATERS	3-4, 5-6, 7-8, 9-10



ALIGNMENT FOR MODELS: LV-181, KL-185, LV-186

GENERAL DATA. The alignment of this receiver requires the use of a test oscillator that will cover the frequencies of 456, 600, 1400, 1720, 6000, 15000 and 18300 KC and an output meter to be connected across the primary or secondary of the output transformer. If possible, all alignments should be made with the volume control on maximum and the test oscillator output as low as possible to prevent the AVC from operating and giving false readings.

CORRECT ALIGNMENT PROCEDURE. The intermediate frequency (I.F.) stages should be aligned properly as the first step. After the I.F. transformers have been properly adjusted and peaked, the Broadcast and Short Wave bands in the order given, should be aligned.

I.F. ALIGNMENT. With the wave switch in the Broadcast Band and the gang condenser set at minimum, adjust the test oscillator to 456 KC and connect the output to the grid of the first detector tube (6SG7 or 6SD7) through a .05 or .1 mfd. condenser. The ground on the test oscillator should be connected to the chassis base. Align all four I.F. trimmers to peak or maximum reading on the output meter.

BROADCAST BAND ALIGNMENT. With the switch turned to the broadcast position, connect the antenna to the generator through a 100[†]MMF dummy and the ground of the set (Black wire) to

the generator ground. Set the dial and generator at 1720 KC. Align the BC oscillator trimmer for maximum output. Set the generator at 1400 KC and tune-in signal with the dial. Adjust antenna trimmer for maximum output. Next set the generator at 600 KC and tune in the signal with the dial. Adjust the BC pad by rocking the gang back and forth while adjusting the pad until maximum output is attained. Recheck the adjustment at 1400 KC as the pad adjustment may have caused misalignment.

SHORT WAVE BAND ALIGNMENT. With the band switch turned to the S. W. position, connect the generator to the antenna with a 400 ohm dummy and the ground of the set (Black wire) to the generator ground. Adjust the S. W. oscillator to give a maximum output with the dial at 18300 KC (extreme end). Set the generator at 15000 KC and tune-in the signal with the dial. Adjust the antenna trimmer for maximum output. With a strong signal input turn the dial to approximately 1 M. C. lower in frequency and pick up the image frequency. If the image is not received, it will be necessary to return the dial to 18300 KC to reduce the capacity in the oscillator trimmer until a second signal is received. Proceed as before with the alignment of the antenna and recheck for image frequency. Check the sensitivity at 6000 KC to determine if the coils and mixer pad are not defective.

* 6SA7 for MODEL KL-185

† 200 mmf for MODEL KL-185