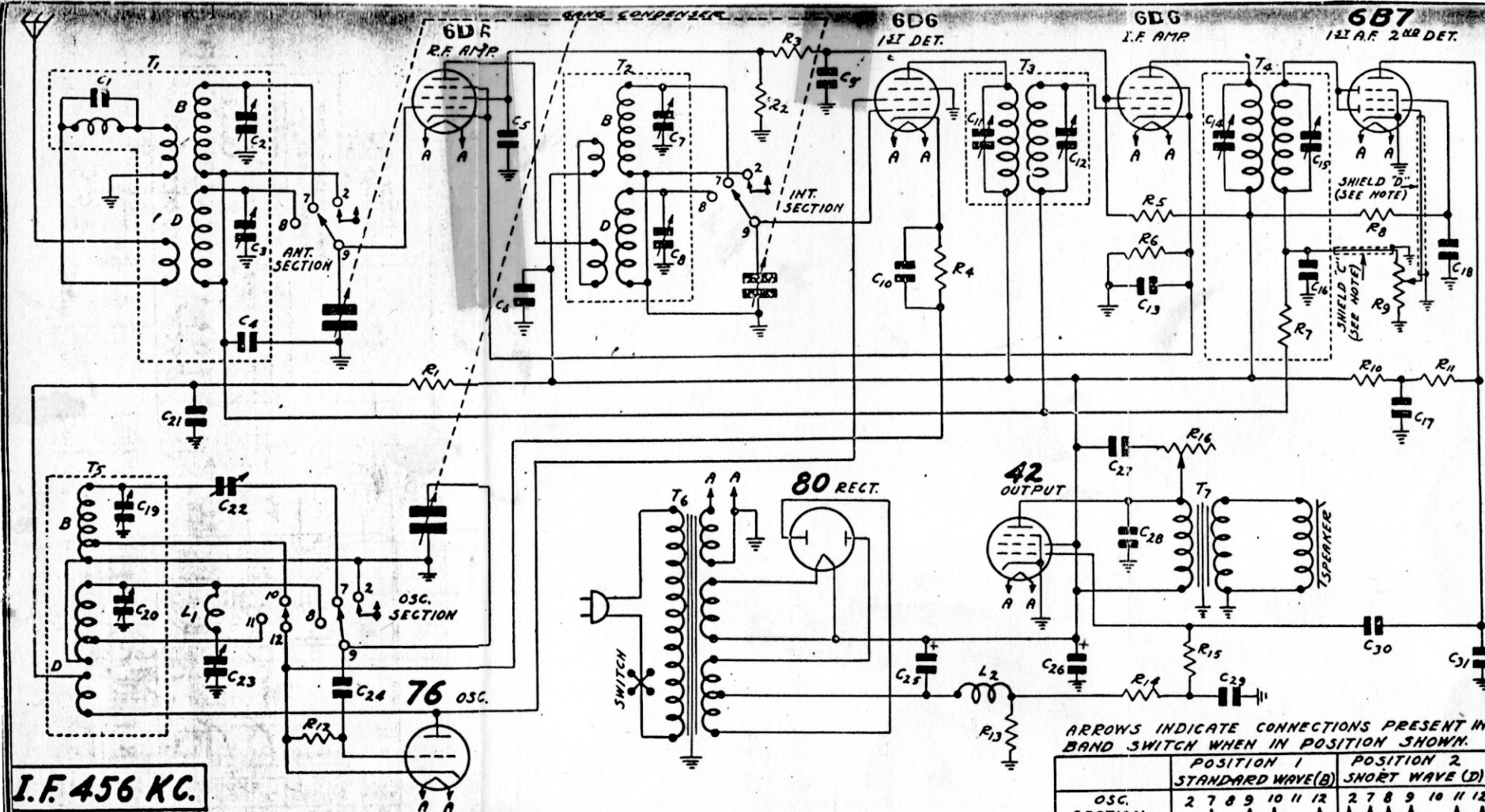


Series 7J



GROUPS OF CIRCUIT ELEMENTS ENCLOSED IN DOTTED RECTANGLES COMPRISE DISTINCT MECHANICAL ASSEMBLIES.
THE CAPACITY OF SHIELD "C" AND "D" IS 50 MMF EACH.

ARROWS INDICATE CONNECTIONS PRESENT IN BAND SWITCH WHEN IN POSITION SHOWN.

	POSITION 1 STANDARD WAVE (B)	POSITION 2 SHORT WAVE (D)
OSC. SECTION	2 7 8 9 10 11 12 ↑ ↑ ↑ ↑ ↑	2 7 8 9 10 11 12 ↑ ↑ ↑ ↑ ↑
ANT. & INT. SECTION	2 7 8 9 ↑ ↑ ↑	2 7 8 9 ↑ ↑ ↑

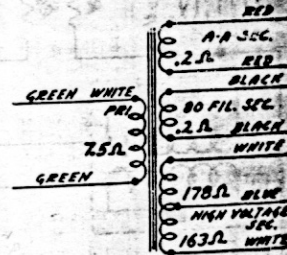
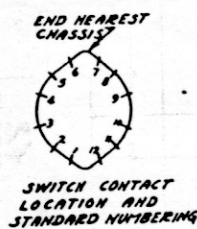
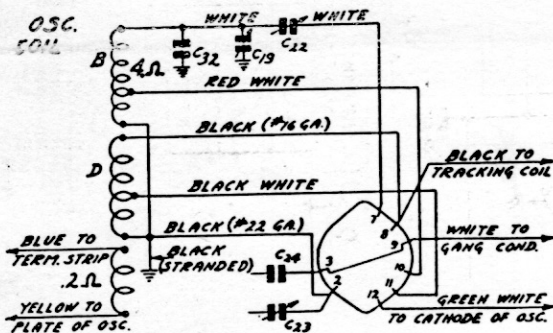
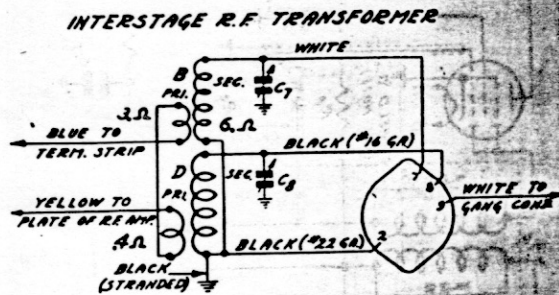
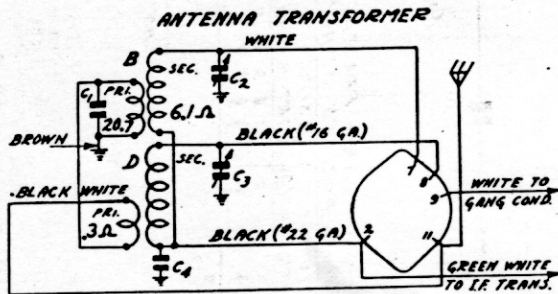
CONTACT LOCATIONS NOT NUMBERED ARE BLANK.

- | | | | | | |
|----------------------|------------------------------|-----------------------------|---------------------------------|-------------------------------|-----------------------------|
| C 1 250 mmf. Moulded | C 9 .25 mf. 240 V. | C 17 .25 mf. 360 V. | C 25 14 mf. 400 V. Electrolytic | R 3 6000 ohm .5 W. | T 4 2nd I. F. Trans. |
| C 2 2-25 mmf. | C 10 .05 mf. 180 V. | C 18 .25 mf. 360 V. | C 26 18 mf. 300 V. Electrolytic | R 4 2500 ohm .2 W. | T 5 Osc. Inductors |
| C 3 2-25 mmf. | C 11 70-150 mmf. } One | C 19 2-25 mmf. | C 27 .05 mf. 600 V. | R 5 16000 ohm 2.0 W. | T 6 Power Trans. |
| C 4 .05 mf. 180 V. | C 12 70-150 mmf. } Assembly | C 20 2-25 mmf. | C 28 .002 mf. 600 V. | R 6 150 ohm .2 W. | T 7 Output Trans. |
| C 5 .05 mf. 240 V. | C 13 .25 mf. 180 V. | C 21 .10 mf. 360 V. | C 29 .03 mf. 180 V. | R 7 2.0 Megohm .2 W. | |
| C 6 .10 mf. 360 V. | C 14 70-150 mmf. } One | C 22 300-600 mmf. } One | C 30 .01 mf. 480 V. | R 8 300000 ohm .5 W. | |
| C 7 2-25 mmf. | C 15 150-250 mmf. } Assembly | C 23 40-100 mmf. } Assembly | C 31 .002 mf. 600 V. | R 9 500000 ohm Volume Control | |
| C 8 2-25 mmf. | C 16 50 mmf. Moulded | C 24 35 mmf. Moulded | R 1 25000 ohm 1.0 W. | R 10 20000 ohm .2 W. | T 1 Antenna R. F. Trans. |
| | | | R 2 30000 ohm .5 W. | R 11 60000 ohm .5 W. | T 2 Interstage R. F. Trans. |
| | | | | R 12 80000 ohm .2 W. | T 3 1st I. F. Trans. |

L 1 Osc. Tracking Coil
L 2 Speaker Field (1050 ohms)

WELLS-GARDNER & CO.

Series 7J



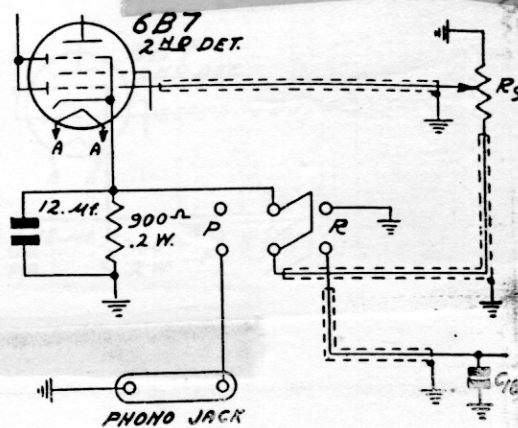
NOTE: RESISTANCE VALUES NOT SHOWN ARE SMALL.

VOLTAGES AT SOCKETS

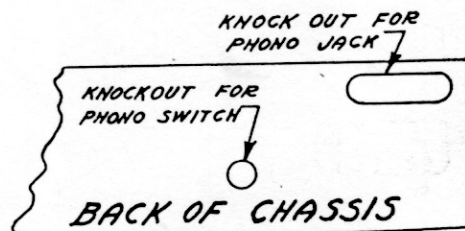
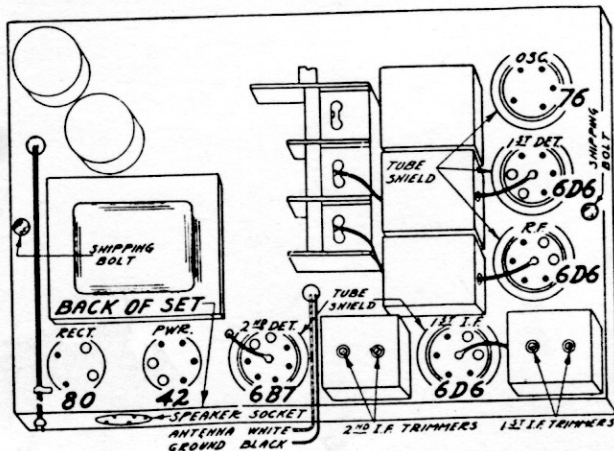
Line Voltage - 112
Antenna Shorted to Ground

Type of Tube	Function	Heater Volts	Plate to Ground	Screen to Ground	Cathode to Ground	Plate M. A.
6D6	R. F.	6.1	240	95	3	7.
6D6	1st Det.	6.1	240	100	9	3.5
76	Osc.	6.1	100			5.
6D6	I. F.	6.1	240	120	3	7.5
6B7	2nd Det.	6.1	55	40	0	2.5
42	Power	6.1	225	240	17 (1)	38.0
80	Rectifier	4.6				32.0 per plate

(1) .As read across R13.



Phonograph Connections



Location of Phono Knockouts