

Allied Radio Corp.

Model: 6 Tube Dual Wave

Chassis:

Year: Pre June 1933

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

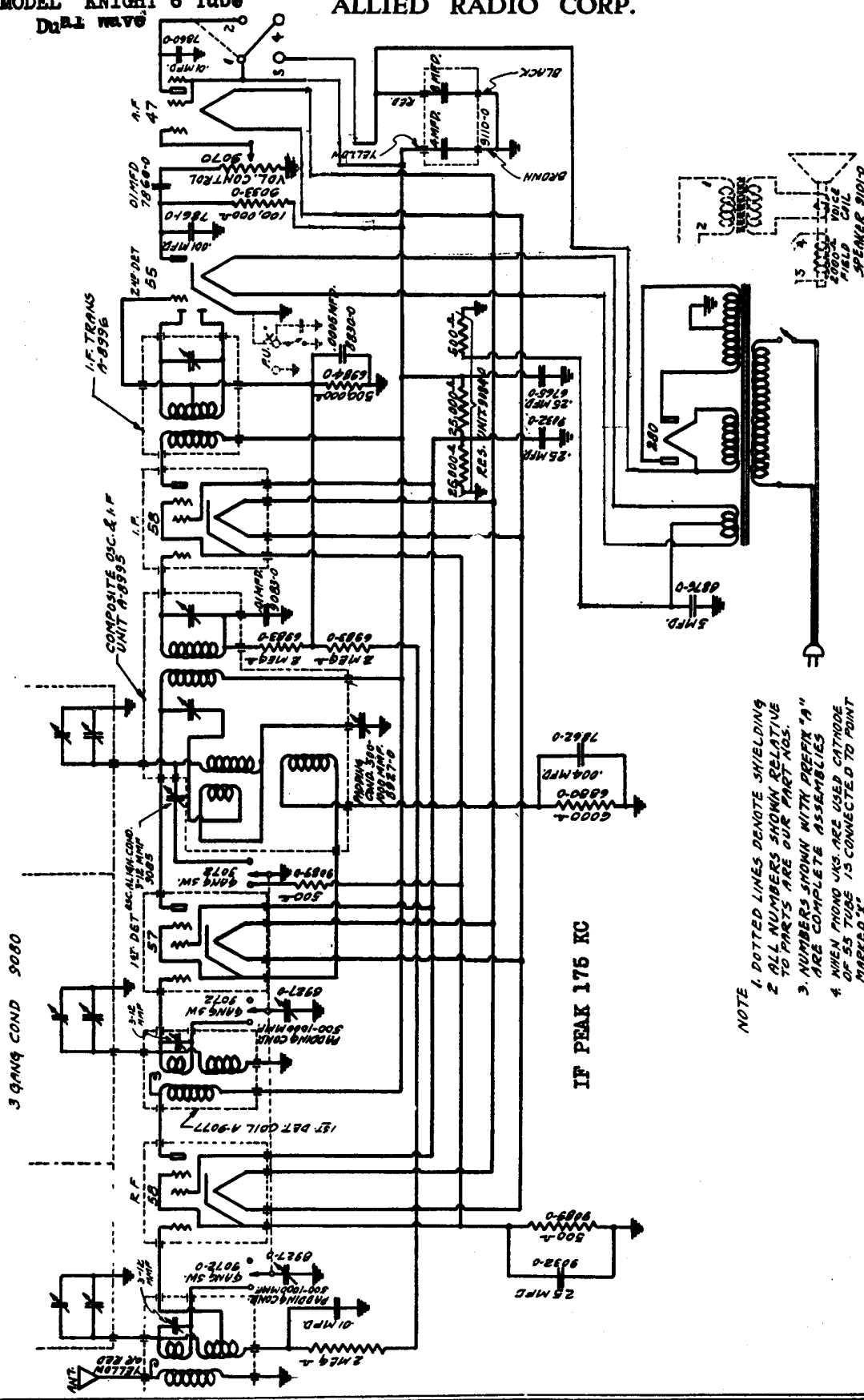
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MODEL KNIGHT 6 Tube

ALLIED RADIO CORP.

Dual wave



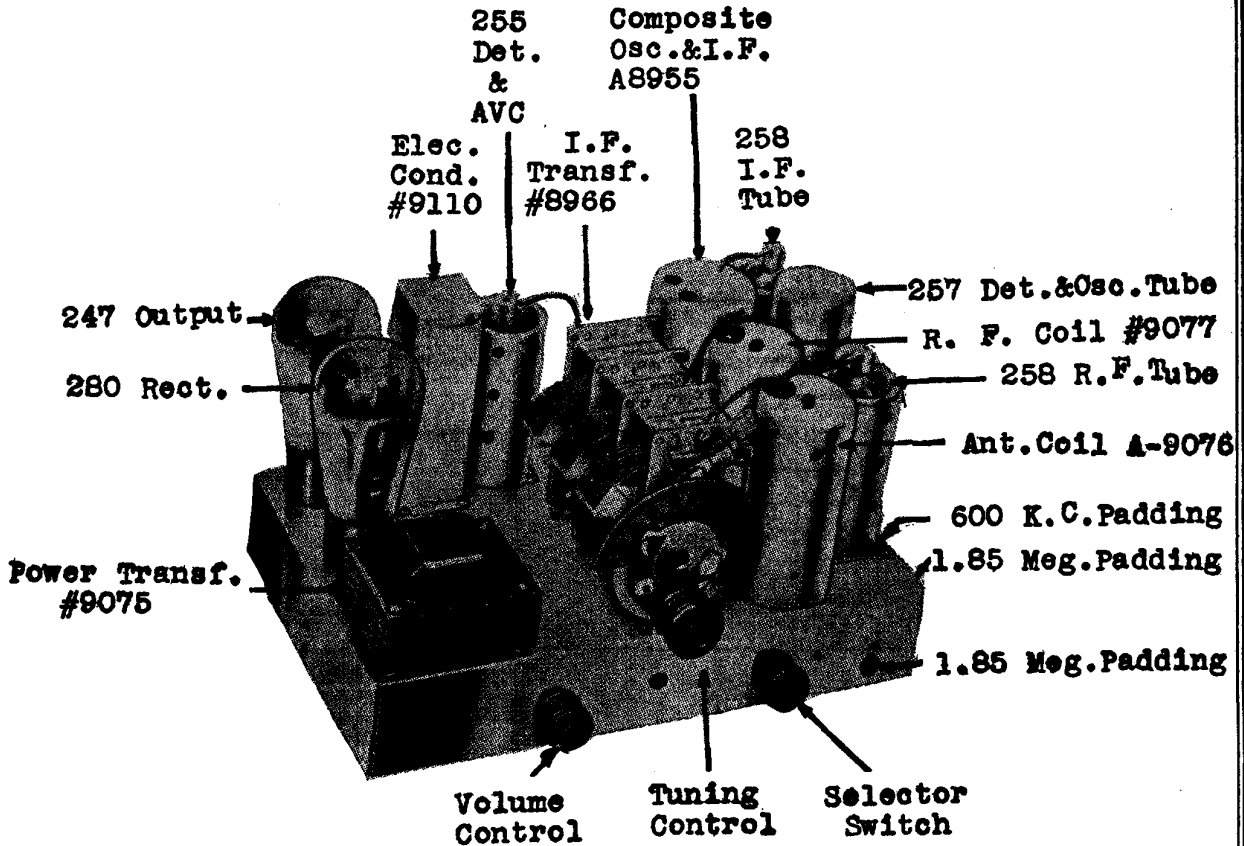
- NOTE
1. DOTTED LINES DENOTE SHIELDING
 2. ALL NUMBERS SHOWN RELATIVE TO PARTS ARE OUR PART NOS.
 3. NUMBERS SHOWN WITH PREFIX "A" ARE COMPLETE ASSEMBLIES
 4. WHEN PHONO JACKS ARE USED CATHODE OF 55 TUBE IS CONNECTED TO POINT MARKED "X"

SOCKET DATA AND VOLTAGE ON NEXT PAGE



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MODEL KNIGHT 6 Tube
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VOLTAGE TABLE:

Never check voltages until all tubes are fully warmed up to proper operating condition. The voltage table given below is taken at 115 volts line. It must be remembered that the voltage readings vary directly as the line voltage and also with the accuracy of the meters used. A variation of 10% plus or minus is permissible.

Type of Tube	Position of tube	TUBE VOLTAGES			Normal plate.M.A.	Screen Volts
		Filament volts	Plate volts	-C volts		
258	Radio frequency	2.3	225	2.5*	8	92
257	Composite oscillator and modulator	2.3	225	5.	3.5	92
258	Intermediate frequency	2.3	225	2.5*	8	92
255	Detector and audio	2.3	30*			
247	Output	2.3	215	5 **	32.5	225
280	Rectifier	4.9	27.5 M.A. ea. plate			

* These readings are only comparative and are not true voltages applied. The voltmeter, when readings are taken at these points, is in series with a very high resistance.

** To read 247 bias, read between 247 control grid and 500 ohm section of load resistor. (This point is by-passed with the 5 MFD Dry Elec. Cond.)

The ground side of the test oscillator should be connected to either the ground lead of the set or to the chassis. Set oscillator at 175 kilocycles (this must be accurate) and adjust the output of the oscillator so that a convenient reading is obtained on the output meter. If during the alignment, the meter goes off scale reduce the output of the oscillator or adjust the receiver volume control.

Align the first intermediate transformer by turning the I.F. trimmer screw up and down until maximum reading is obtained on the output meter. The first intermediate transformer has two screws which are accessible through the top of the transformer shield can. The second I.F. trimmer should also be aligned in this manner. This trimmer is also mounted on top of the shield can. It is always best to re-check the adjustment after the first alignment to be sure that the alignment of the secondary has not been changed by the adjustment of the primary trimmer.