

ALIGNMENT — The output indicator may be an audio frequency meter across the voice coil or a vacuum tube voltmeter at the avc. For 0.5 watt the voltage at the voice coil is 1.2 volts or 2.5 to 3.5 volts avc. if a 30% modulated signal is used. A.F. alignment should be made with band switch on "B," pointer turned to 1000 kc. and signal to mixer grid through a .05 mfd. condenser. Trim both I.F. transformers for maximum reading.

R. F. alignment should be made in the usual manner. There is no inter-action between bands. The only precaution is that a dummy antenna be used between the generator and the antenna post on the receiver. This may be simply a 200 micro micro farad condenser in series with a 400 ohm resistor. The B band RF paddler, 550 KC., is very broad and should not be adjusted. The loop must be plugged in when adjusting the B band RF trimmer, 1600 kc.

ALIGNMENT CHART

Coupling	Signal	Band Switch	Dial	Adjustment
To converter grid thru .05 mfd capacitor	456 KC	B	1000 KC	Peak 1st and 2nd IF trimmers.
To "A" on antenna-ground terminal strip through 200 mmfd. and 400 ohms in series.	400 KC	A	400 KC	Peak RF, converter and oscillator trimmers marked "A".
	150 KC	A	150 KC	Peak RF, converter and oscillator cores marked "A".
	1600 KC	B	1600 KC	Peak "B" trimmers. Loop must be plugged in.
	550 KC	B	550 KC	Peak "B" cores except RF. Loop must be plugged in.
	4.7 MC	C	4.7 MC	Peak "C" trimmers.
	1.6 MC	C	1.6 MC	Peak "C" cores.
	10 MC	D	10 MC	Peak "D" trimmers.
	5 MC	D	5 MC	Peak "D" cores.
	22 MC	E	22 MC	Peak "E" trimmers.
	11.5 MC	E	11.5 MC	Peak "E" cores.

Note: Modulate the signal with 400 cycles 30%. The output indicator may be an audio meter at the voice coil or a VTVM on the avc. The voltage at the voice coil is 1.2 and the avc. voltage is between 2.5 and 3.5 for 1/2 watt output. Do not use signals for alignment which will give output in excess of 1/2 watt.

From conventional antenna. — If doublet is used, the two ends should be twisted together and connected to "A".

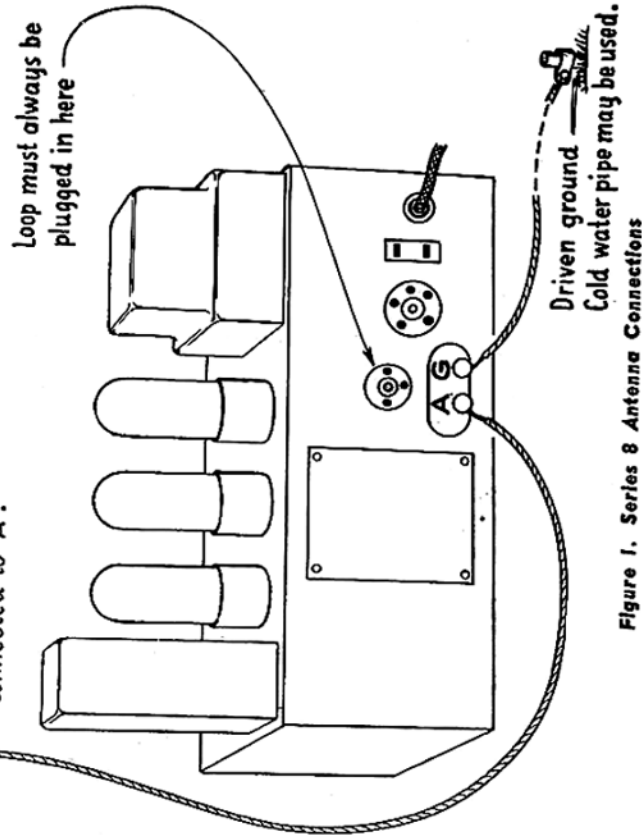
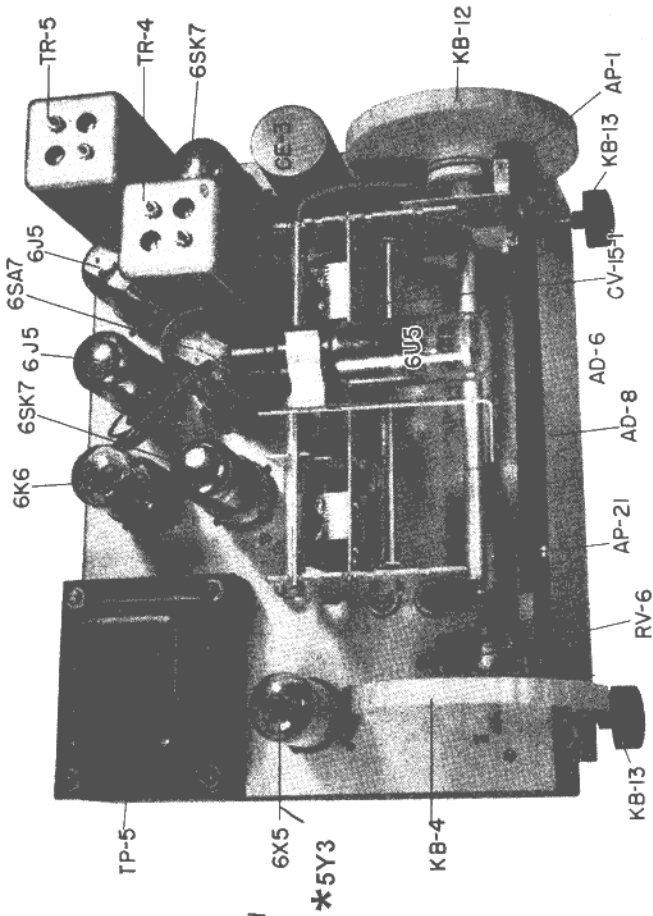
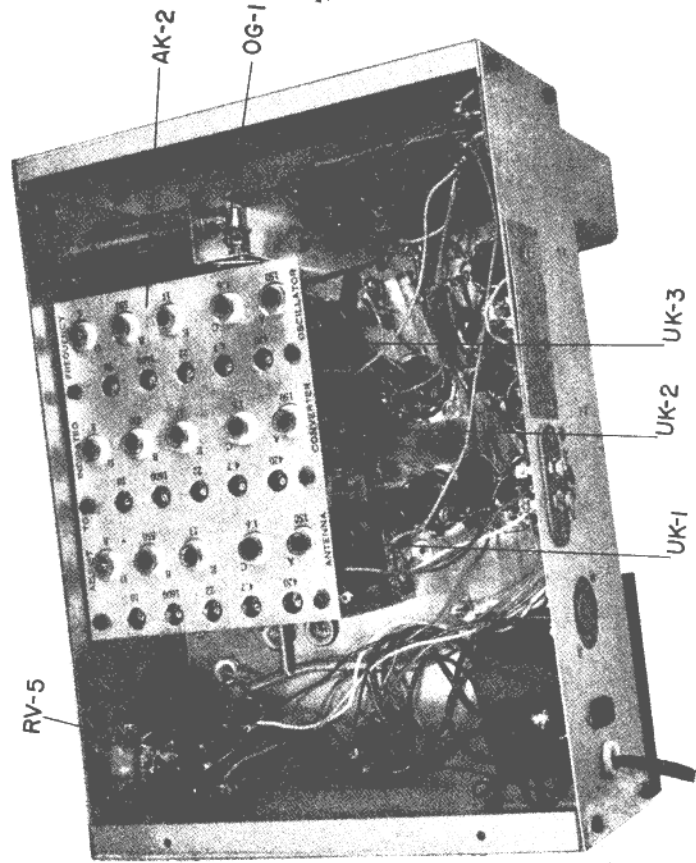


Figure 1. Series 8 Antenna Connections

MIDWEST CHASSIS

88, 88A, 98

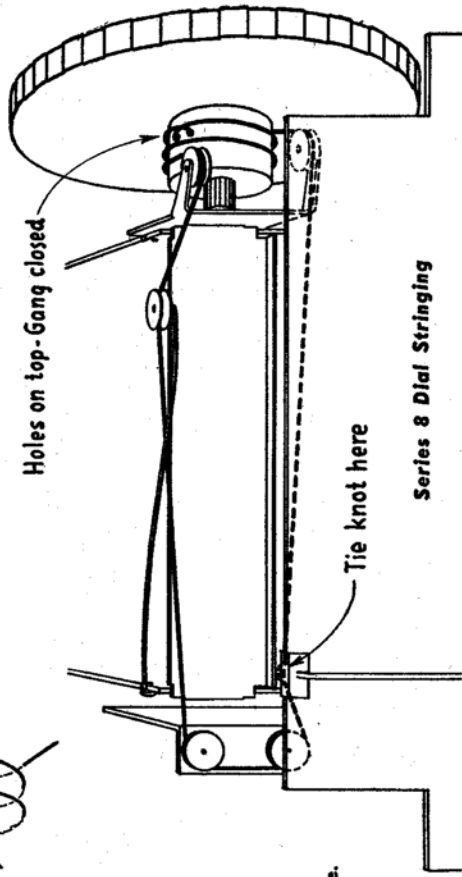
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* 5Y3 on models 88A and 98

DIAL STRINGING — Use a light weight flexible dial cord when replacing worn or broken cord such as Beven-Wilcox FSN-25-12.

Thread through holes
in dial drum.



PARTS LIST

Part	Description	Part	Description
AD-6	Dial, C, D, E	KB-12	Tuning knob
AD-8	Dial, glass	KB-4	Volume control knob
AE-6	Escutcheon	KB-13	Tone or Band knob
AK-2	Coil plate cover	OG-1	Miter gear, pair
AP-1	Wood pulley	OS-3	Dial string spring
AP-3	Pointer	PC-3	Loop plug
AS-1	Wood pulley mtg. stud	RV-5	Tone control
CE-3	Filter condenser 40-40-20	RV-3	Volume control
CE-4	Cathode by pass 40 mfd. 25 v	SP-1	Speaker, oval 6 x 9
CV-15-1	Tuning gang	TP-5	Power transformer
EG-2	Speaker mtg. grommet	TR-4	1st I.F. transformer
ES-13	Tube shield	TR-5	2nd I.F. transformer
HE-1	Speaker mtg. eyelet	UK-1	R. F. coil plate
IL-1	Panel Lamp, 6-8 volts	UK-2	Mixer coil plate
		UK-3	Oscillator coil plate

Note: Order resistors and condensers by value, tolerance and wattage or voltage.

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