

ALIGNMENT EQUIPMENT

Signal Generator	-	modulated 400 cps.
Output Meter	-	15 ohm impedance
Series Capacitor	-	for I. F. T. alignment, .1uF Part No. 4006-005-03.

Alignment Tools

- (a) Flat metal blade each end - Part No. 4121-001-01 for I. F. T. and osc. coil iron core adjustment.
- (b) Chisel point type Part No. 4121-005-01 for trimmer capacitor adjustment.

ALIGNMENT CONDITIONS

Volume Control	-	maximum volume (fully clockwise)
Output Level	-	50 milliwatts
Output Meter Connection	-	across speaker voice coil
Supply Voltage Source	-	240 volts - 50 cycles.

DIAL INDICATOR SETTING

1. Prise the push-in type metal insert from the centre of the transparent tuning knob.
2. Loosen the three $\frac{1}{4}$ " x $\frac{3}{32}$ " Whit. csk. hd. screws fastening the washer in the centre of the tuning knob.
3. Fully mesh condenser gang plates, then set centre of indicator line on tuning knob to align with the end of travel spot near "State" station prefix numbers on dial reading.
4. Securely tighten the three $\frac{3}{32}$ " screws in centre washer then refit push-in metal insert.

INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Insert .1uF capacitor in series with generator "hot" lead.

Oper. No.	Generator Connection	Generator Frequency	Instructions
1.	to pin on circuit board (Term. 4 of rod aerial)	455 Kc/s	Adjust iron core of 3rd IF trans. for max. output.
2.	As oper. 1	455 Kc/s	Adjust iron core of 2nd IF trans. for max. output.
3.	As oper. 1	455 Kc/s	Adjust iron core of 1st IF trans. for max. output.
4.	Repeat operations 1, 2 and 3.		

BROADCAST ALIGNMENT

- A. To inject a signal into the receiver, connect 2 ft. of aerial wire to the "hot" terminal of signal generator. Fashion wire into a vertical position.
- B. Place receiver so that ferrite aerial is uppermost and horizontal. Tuning end of receiver is to be toward but not less than one foot from generator aerial wire.

Oper. No.	Generator Connection	Generator Frequency	Instructions
1.	Refer para. A & B	600 Kc/s	Turn tuning gang until centre of dial pointer line on knob aligns with centre of 600 Kc/s spot on dial reading. Peak iron core of oscillator coil for max. output while rocking gang to and fro through signal.
2.	As oper. 1	1400 Kc/s	Set dial pointer line to 1400 Kc/s spot on dial. Peak oscillator and aerial trimmer capacitors for maximum output.
3.	Repeat oper. 1 and 2 Tuning range after alignment - 525 to 1630 Kilocycles.		

