



IF PEAK 455 KC

### ALIGNMENT PROCEDURE

#### PRELIMINARY:

Output meter connection . . . . . Across loudspeaker voice coil  
Output meter reading to indicate 500 milliwatts . . . . . 1.6 volts  
Approximate microvolts input to indicate 500 milliwatts output . . . . . See chart below  
Dummy antenna value to be in series with generator output . . . . . See chart below  
Connection of generator output lead . . . . . See chart below  
Connection of generator ground lead . . . . . External ground  
Generator modulation . . . . . 30%, 400 cycles  
Position of Volume Control . . . . . Fully clockwise  
Position of Tone Control . . . . . HI  
Position of Dial Pointer with variable fully closed . . . . . On mark to left of 540 kc calibration mark

WAVE BAND SWITCH POSITION	POSITION OF VARIABLE	GENERATOR FREQUENCY	DUMMY ANTENNA	GENERATOR CONNECTION	TRIMMERS ADJUSTED (IN ORDER SHOWN)	TRIMMER FUNCTION	APPROXIMATE MICROVOLTS
"AM"	Closed	455 kc	.1 mfd.	6K3G Grid	T2, T1	IF	—
"AM"	600 kc	455 kc	.00005 mfd.	Ant. Clip	C8*	Wave Trap	—
"AM"	Fully open	1620 kc	.00005 mfd.	Ant. Clip	C9	Oscillator	—
"AM"	1400 kc	1400 kc	.00005 mfd.	Ant. Clip	C1	Translator	200
"AM"	600 kc (rock)	600 kc	.00005 mfd.	Ant. Clip	C13	Padder	65
"POL"	6 mc	6 mc	400 ohms	Ant. Clip	C11	Oscillator	—
"POL"	5 mc	5 mc	400 ohms	Ant. Clip	C3	Translator	85
"FOR"	18 mc	18 mc	400 ohms	Ant. Clip	C10	Oscillator	—
"FOR"	15 mc (rock)	15 mc	400 ohms	Ant. Clip	C4	Translator	10

### IMPORTANT ALIGNMENT NOTES

\* The generator should be adjusted for high output. The trimmer should be adjusted for minimum output meter reading instead of the usual maximum reading. If the frequency of an interfering station around 455 kc is known, the generator should be adjusted to the frequency of that station instead of to 455 kc.

Where indicated by the word, "Rock", the variable should be rocked back and forth a degree or two while making the adjustment.

The alignment procedure should be repeated stage by stage, in the original order, for greatest accuracy. Always keep the output from the test oscillator at its lowest possible value to make the AVC action of the receiver ineffective.

### ALIGNMENT FREQUENCIES:

FREQUENCY RANGES:	Oscillator	Ant-Transl.	Padder
Band "AM" . . . . .	1620 kc	1400 kc	600 kc
Band "POL" . . . . .	5 mc	5 mc	None
Band "FOR" . . . . .	13 mc	15 mc	Fixed