

ALIGNMENT OF R229 RECEIVER

EQUIPMENT REQUIRED

- Signal Generator: Capable of supplying modulated frequencies from 450 kc. to 1800 kc.
- Output Indicator: A power output meter or a high resistance A.C. voltmeter.
- Line Isolating Transformer: A 115 volt, 25-60 cycle, 1 to 1 ratio transformer.

ALIGNMENT PROCEDURE AND EQUIPMENT CONNECTIONS

Signal Generator: Allow a sufficient length of time after the generator has been turned on for it to become thermally stable before making test. Always be sure to use the specified capacitor in series with the signal generator output lead connections as listed in the alignment procedure chart. Connect the return lead of the signal generator to the Ground lead (black) of the receiver. **Do not connect a grounded lead to B—unless a line isolating transformer is used.**

Output Indicator: If a power output meter is used adjust it for 4 ohms impedance and connect it across the secondary of the output transformer in place of the speaker voice coil. Do not exceed 500 milliwatts output during alignment. If an AC voltmeter is used connect it across the voice coil (speaker connected) and do not exceed 1.5 volts during alignment. As the reading on the test meter increases with alignment, regulate the signal generator attenuator to keep the output within the limits specified above.

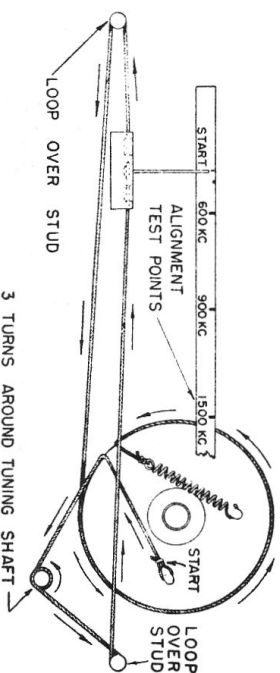
Receiver: With the Phono-Radio switch in the radio position turn the volume control to the maximum (full clockwise) position and set the tone control to the treble (full counter clockwise) position. With the gang tuning condenser fully closed, adjust the dial pointer to the alignment mark located under the first figure 5 at the low frequency end of the dial scale.

ALIGNMENT PROCEDURE

Operation Steps	SIGNAL GENERATOR		RECEIVER		
	Connections to Receiver	Frequency	Tuning Capacitor	See Notes	Adjust in Stated Order for Maximum Output
1	To 14A7 Control grid (6) through .05 mfd. capacitor	455 kc.	Min.		2nd I.F. Transformer T4 Sec. (Bottom) -Pri. (Top)
2	To Stator of C4 through .05 mfd. capacitor	455 kc.	Min.	A	1st I.F. Transformer T3 Sec. (Bottom) -Pri. (Top)
3	To Antenna Contact through 100 mmf. capacitor*	1500 kc.	1500 kc.	B	Oscillator Trimmer C11 Antenna Trimmer C3

NOTE. A: After completing operation No. 2, carefully readjust C18-C17 for maximum output.

NOTE B. After completing operation No. 4, return to 1600 kc. and repeat operation 3, then repeat operation 4.



ARRANGEMENT OF DIAL CORD

- LENGTH OF DIAL CORD APPROXIMATELY 42 INCHES
- COILS OF SPRING EXTENDED TO 1 1/4 INCHES
- POINTER SHOWN AT LOW FREQUENCY END OF DIAL
- GANG CONDENSER AT MAXIMUM CAPACITY (CLOSED)
- DIAL DRUM IN POSITION SHOWN

