

NC-140 ALIGNMENT

Alignment of the NC-140 receiver should be made only by persons familiar with the Alignment Location Figure for location of all adjustments.

EQUIPMENT REQUIRED

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|---|--------------------------|
| 1. Signal generator covering 200 Kc. to 35 Mc. | STBY-REC. |
| 2. Vacuum tube voltmeter (VTVM) | ANL..... |
| 3. Output meter. The AC scale of the VTVM can be used. | AGC..... |
| 4. Tuning Wand — General Cement No. 8278 or equivalent. | BFO..... |
| 5. Hex Alignment — General Cement No. 5097 or equivalent. | Bandswitch.
RF and AF |

230 KC IF

<i>Signal Generator Connections</i>	<i>Signal Generator Frequency</i>	<i>Bandswitch Setting</i>	<i>On Conn</i>
High side directly to mixer section of tuning gang. Low side to chassis.	230 Kc. (unmod.)	Broadcast Band	VTVM DC probe to junction of R21 and Low side to (Topside of

Q MULTIPLIER

Set signal generator at BFO zero beat frequency as indicated in 230 KC IF ALIGNMENT.

Turn selectivity control clockwise until beat note is heard. Then turn control of transformer T12 for maximum output. Adjust the generator output and selectivity point. Turn selectivity control back to Broad position.

2215 KC IF

<i>Signal Generator Connections</i>	<i>Signal Generator Frequency</i>	<i>Bandswitch Setting</i>	<i>On Conn</i>
High side directly to mixer section of tuning gang. Low side to chassis.	2215 Kc. (unmod.)	4-10 MC	VTVM DC probe to junction of R21 and Low side to

RF ALIGNMENT

Before proceeding with RF Alignment, check dial pointer for proper index on the logging scale. With bandspread capacitor fully closed, adjust dial disc to the capacitor to "Set" mark.

General Instructions — The signal generator should be connected to the Antenna oscillator circuits should always be adjusted first for proper dial calibration and then be set for maximum output. A certain amount of interaction may occur between calibration. The trimmer adjustments should always be the final adjustments at the operating frequency. Suitable precautions or checks should be used to insure this condition.

<i>Bandswitch Setting</i>	<i>Generator and Receiver Frequency</i>
.54-1.6 MC (Broadcast)	.6 MC 1.5 MC
1.6-4.0 MC	1.8 MC 4.0 MC
4.0-10.0 MC	4.0 MC 10.0 MC
10-20 MC	11.0 MC 20.0 MC
20-30 MC	20.0 MC 30.0 MC