ALIGNMENT INSTRUCTIONS

The NC-153 receiver has been carefully aligned at the factory by specially trained and experienced personnel using precision equipment. Alignment of the receiver should not be attempted until all other possible causes of faulty operation have been investigated. Alignment should be made only by persons familiar with communications receivers and experienced in their alignment. Refer to illustration for location of all alignment adjustments.

EQUIPMENT REQUIRED:

- Signal generator covering 450 kc to 55 mc.

 Vacuum tube voltmeter (VTVM)

 Output meter. The AC scale of the VTVM can be used.

 Tuning Wand General Cement No. 8278 or equivalent.

 K Tran Tool General Cement No. 5097 or equivalent.

INITIAL CONTROL SETTINGS:

Bandswitch
RF and AF GainFully Clockwise.
Mode Switch
SelectivityAs indicated in chart.
TuningPlates half-meshed unless otherwise indicated
Antenna TrimmerMid range.
Lateral Dial AdjustmentMid range.
CalibratorOff.

ALIGNMENT PROCEDURE:

230 KC IF

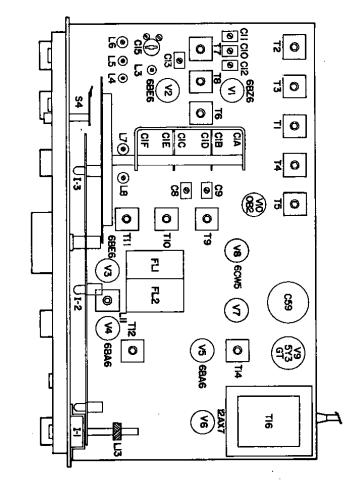
ing on VTVM.		to chassis.			
tain approximately 2V read-		Low side			
sides of T12 and T14. Main-		and C51.			to chassis.
through maximum. Peak bot		R24, R25,			6BE6. Low side
ator to insure both cores tur		junction of			pin 7 of 2nd
mum indication. Rock gener-		Probe to		(unmodulated)	directly to
Adjust FL1, FL2 for maxi-	0.6 kc	VIVM DC	80 M	230 kc	High side
Remarks	Setting	Connections	Setting	Frequency	Connections
•	Selectivity	Output	Bandswitch	Signal Generator	Signal Generator Signal Generator
		COO SEC. IL VITIGIAMETA I	270 250		

2215 KC IF ALIGNMENT

High side directly to mixer section of tuning gang.	Signal Generator S Connections
2215 kc (unmodulated)	Signal Generator Frequency
W 08	Bandswitch Setting
VIVM DC probe to junction of R24, R25, and C51. Low side to chassis.	Output Connections
0.6 kc	Selectivity Setting
Tune III to approximately 2445 kc for maximum response. Check to insure image is at 2675 kc. Peak top and bottom of T11. Maintain approximately 2V reading on VTVM.	Remarks

BFO ALIGNMENT

High side directly to pin 7 of 2nd 6BE6. Low side to chassis.	Signal Generator Connections
230 kc (unmodulated)	Signal Generator Frequency
ж ов	Bandswitch Setting
VTVM DC probe to junction of R24, R25, and C51. Low side to chassis.	Output Connections
0.6 kc	Selectivity Setting
Rock generator for maximum output. Maintain approximately 2V reading on VTVM. Set mode switch to CW-SSB. Set mode switch to CW-SSB. Set mode switch to CW-SSB. Set mode switch Loosen set screw and adjust L13 to zero beat with screwdriver through hole in shield. Then tighten set screw and return mode switch to AM-AGC OFF position.	Remarks
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TOP VIEW