## Ballery Operated Vibrator type.

IA4

IC6

200

19

HOOK

## CALIBRATION AND ALIGNMENT

RABOR SWITCH SHOWN

C 3

± 54.25

10,000

20,000-2

1.1 meg R9 BIAS CELLS

100 m/d c22

meter and an accurately calibrated oscillator with a tuning range from 456 KC. to 16 MC. are required. ALIGNING EQUIPMENT: For proper alignment, an output

Connect the output meter across the voice coil terminals

range switch to the broadcast position (fully clockwise). throughout the trol to maximum volume position and keep it in this position ALIGNING THE I.F. AMPLIFIER: Turn the volume conentire alignment procedure. the

effect on Set the receiver dial at any point where it has no tuning the oscillator output. trol grid and chassis with a .1 mfd. condenser in series with Connect the test oscillator output leads to the 1C6 conthe oscillator signal. Set the oscillator to exactly 456 KC

ning with the second stage and then repeat the operation Adjust the four I.F. trimmers for maximum output, begin-

to the signal. Adjust trimmer C10 for maximum output. Then try to increase the output meter reading by detuning C10 slightly and retuning the receiver dial. If the output

Adjust the test oscillator to 600 KC. and tune the receiver

trap on the actual frequency of the interfering station. code interference, it may be desirable to adjust the waveparticular station with a frequency near 456 KC. the wave-trap trimmer, C1, for MINIMUM output. with the A terminal and oscillator output. to the A and G terminals with a 400 ohm resistor in series the test oscillator at 456 KC. trimmer, C1, is located on the back of the chassis. WAVE-TRAP ADJUSTMENT: The Connect the oscillator output wave-trap adjusting Then If some causes adjust Leave

tion at 600 KC.

range switch to the center position.

receiver dial pointer to exactly 5.0 MC. on the tuning dial.

To calibrate the dial, adjust trimmer K for maximum Adjust the test oscillator to exactly 5.0 MC. and turn the BAND NO. 2 CALIBRATION AND ALIGNMENT: Turn the

If two peaks are found, the proper one is that with

sensitivity even though the dial may be slightly off calibra-

give maximum selectivity and

and when

This per-

operation is commonly known as "rocking" dial until maximum output meter deflection is secured. Continue detuning the trimmer and retuning the receiver goes down, detune the trimmer in the opposite direction

formed as described will

resistor. A and G terminals of wise position, and leave the test oscillator connected to the dial scale. Leave the range switch in the extreme clockshould be on the white horizontal line below 530 KC. on the With the gang condenser in full mesh, the dial pointer BROADCAST BAND CALIBRATION AND ALIGNMENT: the receiver through a 400 ohm

Adjust the test oscillator to exactly 1500 KC, and turn

mers C and F for maximum output. Then try to increase the output by detuning F slightly and retuning the receiver

Continue detuning F and retuning the dial until the

Then readjust C

Carefully tune the receiver to the signal and adjust trim-

mers C and F for maximum output.

output.

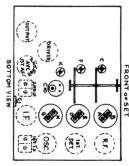
the trimmer screw farthest OUT.

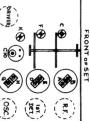
for maximum

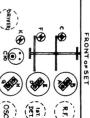
output meter deflection is a

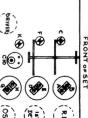
calibrate the dial, adjust trimmer G for maximum output the receiver dial pointer to 1500 KC. on the tuning dial. To trimmers A and D for maximum output. Carefully tune the receiver to the signal and adjust

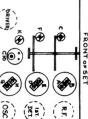
Node

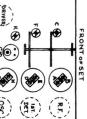


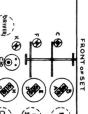


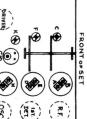


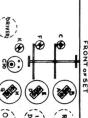


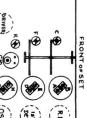


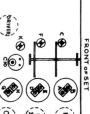


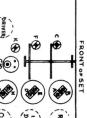


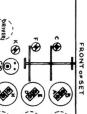


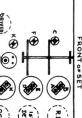


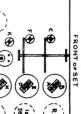


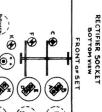


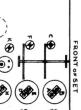


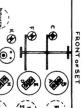


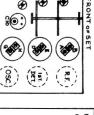














185 1C6 -F--

are connected together. sure the D and G terminals on the antenna terminal strip range switch to the extreme counter-clockwise position. BAND NO. 8 CALIBRATION AND ALIGNMENT: Turn the

Вe

THE BIAS CELLS.

VOLTMETER, THIS VOLTAGE IS OBTAINED FROM CANNOT BE MEASURED WITH AN ORDINARY

pointer to exactly 16 MC. on the tuning dial. Set the test oscillator to 16 MC. and turn the receiver dial

peak with the trimmer screw farther OUT. the receiver to 16 MC. and adjust trimmer H to the proper present, even with greatly increased oscillator output, retune repeat signal should be heard at this point. peak by tuning the receiver to approximately 15.1 MC. To calibrate the dial, adjust trimmer H for maximum Check to see that it has been adjusted to the proper If none is

Carefully tune the receiver to the signal and adjust trimmers B and E to a peak. Then try to increase the output by detuning E slightly and retuning the dial until a maximum output meter deflection is secured. Then readjust B for maximum output. Check the adjustment by tuning the receiver to the image at about 15.1 MC. The image should be much weaker than the 16 MC. signal; if the signal at 15.1 MC, dial setting is equal to or stronger than the 16 MC. signal at 17.1 MC, dial setting is equal to or stronger than the 16 MC. in or so, then

ATA SHEET