## ALIGNMENT INSTRUCTIONS

**Equipment:**

Signal generator:

Output meter:

Alignment tools: Part No. M195 and PM581.

Mica capacitor: 0.01 MF Part No. PC145 for I.F. trans. alignment.

Dummy antenna: 65 MMF Part No. M341.

I.F. Attenuator: Part No. M174.

This attenuator consists of an 0.004 MF condenser and a 10K.ohm non-inductive resistor connected in series and having clips fitted for attaching to the receiver.

**Alignment Conditions:**

Supply voltage – Model ''RL'' 6 volt accumulator
,, ''RM'' 12 volt accumulator

Volume control – maximum volume (fully clockwise)

Output level – 50 Milliwatts

Load impedance – 5,000 ohms

Tone control – treble position

Intermediate frequency – 455 Kc/s.

Do not use a screw driver or an alignment tool with an iron point for adjusting the variable iron cores. Special tools – Part Nos. M195 and PM581 are available from the factory for alignment purposes.

| Operation | Generator Connection | Generator Frequency | Dummy Antenna | Instructions |
|---|---|---|---|---|
| 1. | Remove top and bottom sections of metal can to align I.F. transformers. | | | |
| 2. | To control grid of 6BA6 IF valve (pin No. 1) | 455 Kc/s. | 0.01 MF Mica cond. in series with generator. | Peak 2nd I.F. trans. pri. and sec. for max. output. |
| 3. | To control grid of 6AN7 valve (pin No. 2) | 455 Kc/s. | 0.01 MF Mica cond. in series with generator. | Turn tuning control knob until perm. tuner iron cores are fully out of the coil windings. Peak 1st IF trans. pri. and sec. for max. output. |
| 4. | Repeat operations No. 2 and 3. | | | |
| 5. | Connect attenuator Part No. M174 between 6BA6 I.F. valve control grid pin No. 1 and the metal chassis. | | | |
| 6. | Turn control head tuning knob to bring iron cores fully out of windings and perm tuner unit against stop. Make sure the centre of the dial pointer aligns with the centre of the end of travel spot on the dial reading at the high frequency end. | | | |
| 7. | To antenna lead-in cable socket | 1000 Kc/s. | Dummy antenna part No. M341 (65 MMF) in series with generator. | Turn control head tuning control knob until centre of dial pointer aligns with centre of alignment spot on receiver dial reading at 1000 Kc/s. Leave the perm tuner and dial pointer set in this position then peak oscl. coil trimmer condenser for max. output. |