

Set waveband switch to Long. Tune to 1,500 metres on scale, set signal generator to 200 Kc/s and adjust long wave oscillator (L5) and aerial coil (L6) for maximum audio output.

1. With tuning condenser at maximum, check that the pointer is in line with the vertical line at the low frequency end of the scale.

2. Via standard dummy aerial from signal generator, apply 540 Kc/s modulated signal to AF sockets and tune core of medium wave oscillator coil (L7) for maximum audio output. Tune to 200 metres on scale and set signal generator to 1,500 Kc/s. Adjust oscillator trimmer (O8) on tuning condenser for maximum audio output.

3. Tune to 225 metres on scale, set signal generator to 1333.3 Kc/s and adjust mixer grid trimmer (O5) on tuning condenser for maximum audio output. Tune to 500 metres on scale, set signal generator to 600 Kc/s and adjust core of mixer grid coil (L2) for maximum. Repeat these adjustments until no further improvement can be obtained.

4. Set waveband switch to Long. Tune to 1,500 metres on scale, set signal generator to 200 Kc/s and adjust long wave oscillator (L5) and aerial coil (L6) for maximum audio output.

R.F. Alignment

1. Set waveband switch to Medium, selectivity switch to Tune and tuning condenser to minimum capacity.
2. Inject unmodulated 470 Kc/s. signal into grid of mixer valve via existing 100 pf. condenser (C4).
3. Connect 0 - 100 micro-ammeter or valve voltmeter across lower resistor of diode load (R13).
4. Adjust core of first I.F. coil in anode circuit of mixer (L6) and core of second I.F. coil in grid of I.F. valve (L7) for maximum meter reading.
5. Adjust top and bottom cores of I.F. transformer (L8) for maximum meter reading. Repeat above adjustments until no further improvement is possible.
6. Connect 4.5 volt battery, negative to mixer A.V.C. line and positive to chassis, and check that maximum meter reading is still obtained at 470 Kc/s.
7. Set selectivity switch to Wide Band and swing signal generator over the range 460 - 480 Kc/s. The curve should show a flat top over this range with a slight dip at 470 Kc/s. If there is a marked hump at either side of the centre, adjust bottom core of I.F. transformer (L8) until a symmetrical curve is obtained. Only very slight adjustment should be necessary.
8. Set selectivity switch to Tune and check that maximum meter reading still occurs at 470 Kc/s. Repeat 7 until this condition is fulfilled.
9. Transfer signal generator leads to AF terminals via a standard dummy aerial and adjust I.F. trap (L1) for minimum meter reading.

I.F. Alignment

Remove waveband and selectivity knobs, slacken off grid screws securing dial drum to main tuning condenser, unscrew four pillars and withdraw front panel carefully to extent of tuning indicator lead. Remove tuning indicator from clip, thus freeing front panel completely. Replace the two pillars which pass through the earth tags of the tag strip, securing them with 4 B.A. nuts.

H W I