

Models 22, 23, 24

Short Wave Converter

Specifications

General:

The Model 24 Short Wave Converter when used with the Model 20 or 21 is coded Model 22 or 23 respectively. Specifications here cover the converter only.

Tubes:

Type	Function
224A	First Detector
227A	Oscillator

Frequency Range:

1.5 to 22 megacycles

I.F.:

1000 K.C.

Realignment:

- No. 1. (A) Set Weston Type 590 Oscillator at 1000 K.C. (see note re this oscillator below).
- (B) Connect output of oscillator (with attenuator cut out of circuit) to antenna lead of converter.
- (C) Set broadcast receiver at 1000 K.C. Set short wave receiver dial at 20 megacycles.
- (D) Using twentieth harmonic of 1000 K.C. from oscillator align first detector tuning condenser trimmer C-7 (parallel pad) and oscillator parallel pad C-8 (both on main tuning

gang). See that low capacity point is obtained in order to ensure tuning to 22 megacycles. This parallel pad adjustment holds for all three frequency ranges.

- No. 2. (A) Set Weston 590 Oscillator to 700 K.C.
- (B) Set short wave receiver dial to 3.5 megacycles, middle or green band.
- (C) Using fifth harmonic of 700 K.C. viz: 3,500 K.C., align oscillator series pad, condenser C-11.
- No. 3. (A) Set Weston 590 Oscillator at 1600 K.C. (or use second harmonic of 800 K.C.)
- (B) Set short wave receiver dial to 1.6 megacycles, lowest or purple band.
- (C) Align oscillator series pad, condenser C-13.

The trimming condensers referred to in this realigning operation are located on the short wave chassis as follows:

- C-7 and C-8—On the main tuning gang condenser.
- C-11—Through top of main tuning condenser, hole located to the right, viewing chassis from the rear.
- C-13—Through base of chassis (beside power transformer).

