

540/544 ACCESSORIES

REMOTE VFO



REMOTE VFO Model 242. Duplicate of the 540/544 VFO to allow two frequencies of operation. MODE switch with LED indicators selects any one of six modes: TRANSCEIVER transmit and receive; REMOTE transmit and receive; TRANSCEIVER transmit-REMOTE receive; REMOTE transmit-TRANSCEIVER receive; TRANSCEIVER transmit-BOTH receive; or REMOTE transmit-BOTH receive. Instant break-in any mode. Two-position crystal oscillator also may be selected for fixed frequency operation or out-of-band use (as much as 100 kHz from 80 and 40 meter band edges and 200 kHz from 20, 15 and 10 meter edges). Includes matching enclosure, cable (less crystals for 29-30 MHz VFO operation or fixed frequency modes). Ten meter crystals required: Model 212 for 29-29.5 MHz; model 213 for 29.5-30 MHz.

SPECIFICATIONS: FREQUENCY RANGE AND STABILITY: same as 540/544 transceivers. ACCURACY: ± 1 kHz from nearest calibration point. SWITCHING: instant break-in. PANEL CONTROLS: MAIN Tuning, BAND Switch, 5 pos. 28-30 MHz Switch, 4 pos. REMOTE Switch, 3 pos. (VFO, X1 X2). MODE Switch: 6 pos. SEMICONDUCTORS: 1 IC, 13 transistors, 10 diodes. Powered by 540/544 transceivers. SIZE: HWD $4\frac{1}{2}'' \times 10\frac{3}{8}'' \times 8''$. Wt. 4 lbs.

ONE-SIXTY CONVERTER



ONE-SIXTY CONVERTER Model 240. Provides 540/544 transceivers with transmit and receive capabilities on 160 meters. Crystal controlled mixer converts 1.8-2 MHz signals to 3.5-3.7 MHz which are then tuned in the 80 meter mode. The crystal oscillator also mixes with the 540/544 VFO signal to provide proper injection for the transmitting mixer in the transceiver. A low pass filter is switched into the antenna line to reduce harmonics. Power input is reduced a nominal 25%. Panel switch also selects the two transceiver crystal channels when fixed frequency use is desired. Includes cables (less crystals).

SPECIFICATIONS: FREQUENCY RANGE: 1.8-2 MHz. SENSITIVITY: $1 \mu\text{V}$ for 10 dB S+N/N max. RECEIVER FEEDTHROUGH: -55 dB typical. POWER INPUT TO FINAL: 150 watts, approx. PANEL CONTROLS: 2 pos. band switch, 1.8-2 and 3.5-30.; 3 pos. mode switch, VFO, X1, X2. SEMICONDUCTORS: 1 IC, 3 transistors, 7 diodes. Powered by 540/544 transceivers. SIZE: HWD $2\frac{1}{2}'' \times 10\frac{3}{8}'' \times 6\frac{1}{2}''$. Wt. 2 lbs.

DIGITAL READOUT FOR 540



DIGITAL READOUT Model 244. Displays actual transmitted and received frequencies. The VFO output frequency, which is 9 MHz away from the operating frequency, is counted and a 9 MHz preset is either added to or subtracted from the count by means of the front panel mode switch, thus eliminating all VFO crystal tolerance errors. The 9 MHz oscillator tolerance error is eliminated by setting the time base gating oscillator to WWV. A COUNT position on the mode switch permits using the 244 as a straight frequency counter. Includes cable.

SPECIFICATIONS: RESOLUTION: 6 digits; least significant reads hundreds of Hertz. DIGIT SIZE: 0.4". DIGIT COLOR: MHz and kHz digits red; hundreds of Hertz digit green. INPUT VOLTAGE: 75 mV, min. 1-25 MHz, rising to 500 mV (@ 50 kHz). FREQUENCY RANGE: 500 kHz to 22 MHz, min. PANEL CONTROLS: 5 pos. MODE Switch (OFF, 1.8-2, 3.5-7.5, 14-30, COUNT). SEMICONDUCTORS: 1 LSI (large scale integrated circuit), 6 ICs, 20 transistors, 9 diodes. Powered by 540/544 transceivers (requires 12-14 VDC @ 500 mA, max.). SIZE: HWD $2\frac{1}{2}'' \times 10\frac{3}{8}'' \times 6\frac{1}{2}''$. Wt. 1 lb., 14 oz.