

Excellent performance at low cost



Matching Speaker
Model 2-CS
\$22.00 Amateur Net

\$255⁰⁰ AMATEUR NET

SPECIFICATIONS

FREQUENCY COVERAGE: 3.5 to 4.0 MHz, 7.0 to 7.5 MHz, 14.0 to 14.5 MHz, 21.0 to 21.5 MHz and 28.5 to 29.0 MHz with crystals supplied. Accessory crystals provide 500 kHz incremental coverage from 3.0 to 30 MHz.

SELECTIVITY: Selectable Passband Filter provides:
 .4 kHz at 6 DB down and 2.7 kHz at 60 DB down.
 2.4 kHz at 6 DB down and 9.0 kHz at 60 DB down.
 4.8 kHz at 6 DB down and 16.8 kHz at 60 DB down.

DIAL CALIBRATION: Main dial calibrated 0 to 500 kHz in 10 kHz divisions. Vernier dial calibrated in approximately 1 kHz divisions. Main dial and Vernier adjustable for calibration.

STABILITY: Less than 100 Hz after warm up. Less than 100 Hz for 10% line voltage change.

MODES OF OPERATION: USB, LSB, CW, AM, RTTY.

SENSITIVITY: Less than .5 uv for 10 DB signal plus noise to noise on all amateur bands.

AVC: Amplified delayed AVC having slow (.75 sec.) or fast (.025 sec.) discharge and less than 100 microsecond charge. AVC can be switched off. Less than 6 DB change for 100 DB RF input change.

AUDIO OUTPUT: 1.8 watts with less than 5% distortion and .75 watts at AVC threshold.

AUDIO OUTPUT IMPEDANCE: 4 ohms.

ANTENNA INPUT: Nominal 52 ohms.

SPURIOUS RESPONSES: Image rejection greater than 60 DB. IF rejection greater than 60 DB on amateur bands. Internal spurious signals within amateur bands less than the equivalent of a 1 uv signal on the antenna.

CONTROLS AND JACKS:

Front: Main Tuning, Function switch, Band switch, Preselector, RF Gain, Mode, Selectivity switch, AVC, and S-Meter.

Rear: Antenna jack, S-Meter Zero, Mute Jack, Sidetone Jack, and Speaker Jack.

Side: Auxiliary crystal socket, auxiliary crystal — Normal switch.

Top Chassis: 2-CQ socket, 2-AC socket, and Noise Blanker socket.

POWER CONSUMPTION: 30 watts, 120 VAC, 50/60 kHz.

DIMENSIONS: 11 $\frac{1}{4}$ " wide, 6 $\frac{3}{32}$ " high, 9 $\frac{3}{32}$ " deep, weight 13 $\frac{1}{2}$ lbs.

DRAKE 2-C RECEIVER

FEATURES

- Covers ham bands 80, 40, 20, 15 meters completely and 28.5 to 29.0 MHz of 10 meters with crystals furnished.
- Or tunes any 500 kHz range between 3.0 and 30 MHz with an accessory crystal.
- Three Bandwidths of selectivity (equivalent to 3 filters) are furnished: .4 kHz, 2.4 kHz and 4.8 kHz.
- Solid State Audio with 1.8 watts output.
- Solid State AVC with fast attack and slow release for SSB or fast release for high break-in CW. Also AVC may be switched off.
- Receives SSB, AM, CW, and RTTY with full RF gain, complete AVC action and accurate S-meter indication.
- Product Detector for SSB/CW—diode detector for AM.
- Excellent overload and cross modulation characteristics; insensitive to operation of nearby transmitters.



ACCESSORIES

2-AC CRYSTAL CALIBRATOR—100 kHz crystal oscillator corresponding to the numbered dial divisions on the Main Tuning Dial. \$16.75

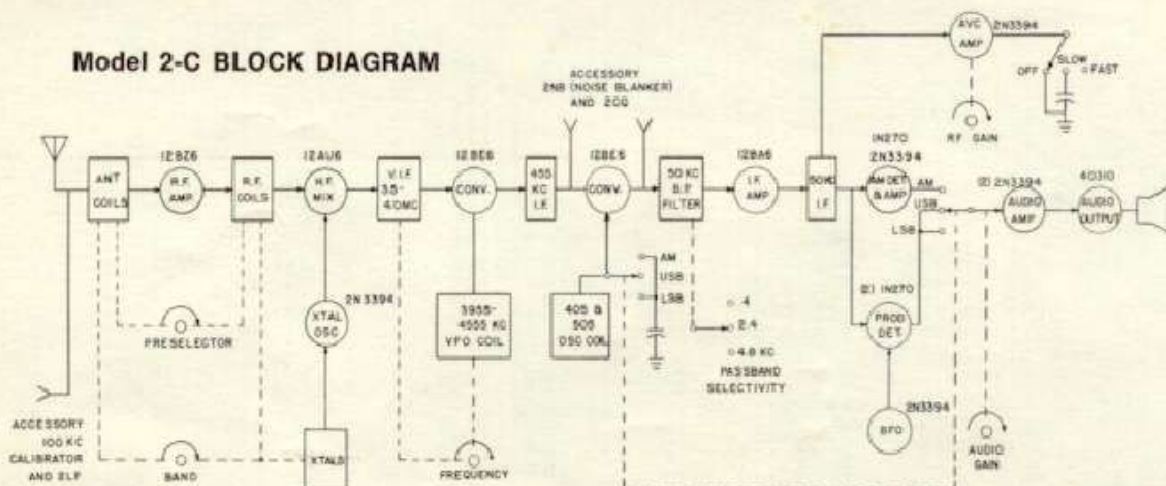
2-CQ SPEAKER/Q-MULTIPLIER and NOTCH FILTER—Plugs into a socket on the 2-C to provide increased selectivity and notching out of interfering heterodynes and other interfering signals. Necessary controls are mounted on the 2-CQ.

2-NB NOISE BLANKER—Solid state circuitry is used to provide true noise blanking by quieting the receiver during the interval of the noise pulse. \$26.95

2-CS MATCHING SPEAKER \$22.00

DRAKE MODEL 2-C RECEIVER

Model 2-C BLOCK DIAGRAM

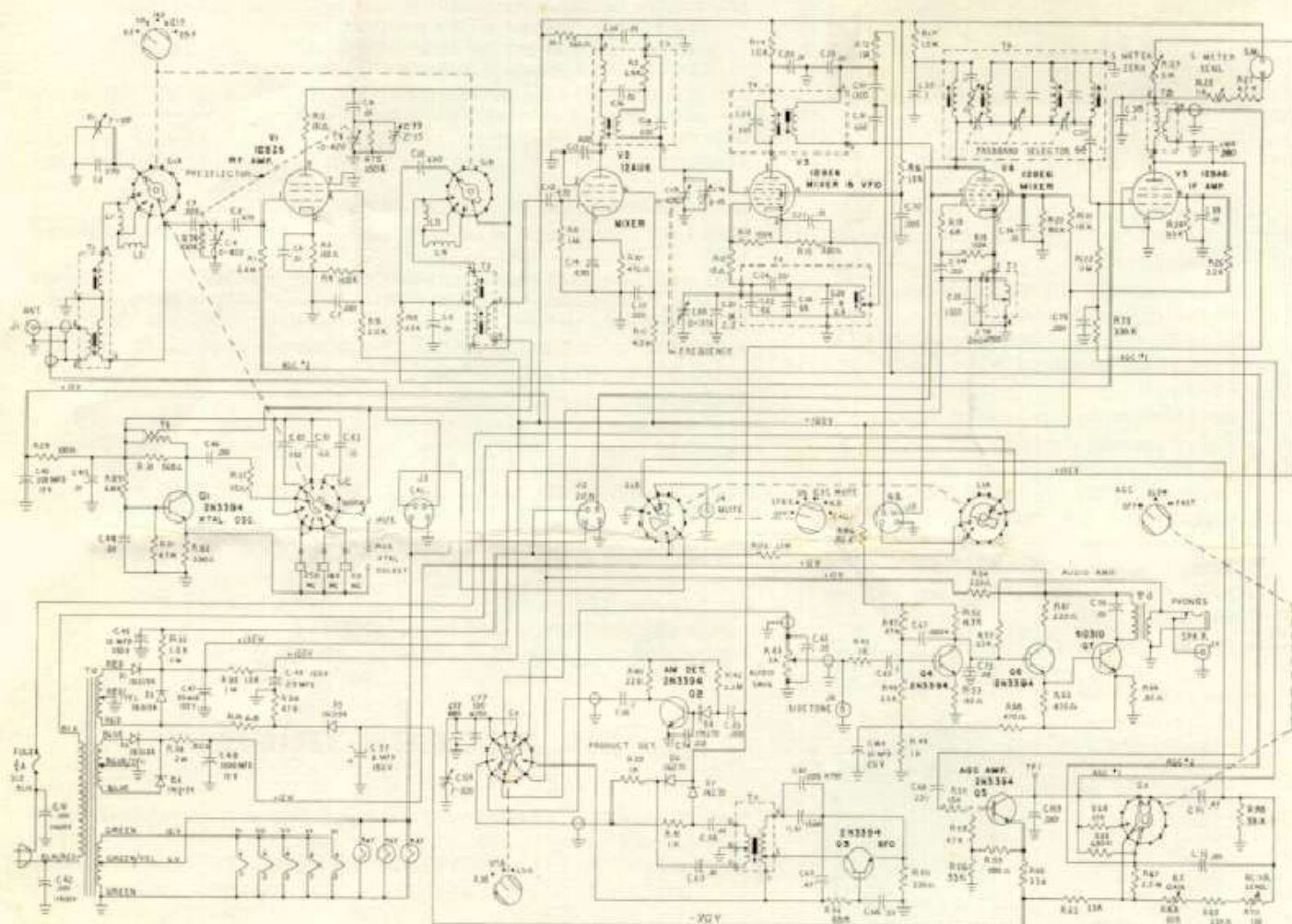


TUBES

- 12BZ6 R.F. Amplifier
- 12AU6 1st Mixer
- 12BE6 VFO Controlled 2nd Mixer
- 12BE6 3rd Mixer
- 12BA6 50 KHz IF Amplifier

SEMI-CONDUCTORS

- 2N3394 Crystal Oscillator
- 2N3394 AGC Amplifier
- 2N3394 50 HKz Oscillator
- (2) 1N270 Product Detector
- 1N270 and 2N3394 AM Detector and Amplifier
- (2) 2N3394 Audio Amplifier
- 40310 Audio Output
- (2) 1N3194 Hi voltage Rectifier
- (2) 1N3194 Lo voltage Rectifier
- 1N3194 Bias Rectifier



NOTES: Capacitors marked 1.0 to 3000 are in pf and capacitors from .001 to .47 are in uf unless otherwise noted. *Indicates value selected in production.

**Model 2-C Receiver
SCHEMATIC DIAGRAM**

Resistors are $\frac{1}{2}$ watt 10% unless otherwise noted. All switches viewed from front in counter-clockwise position. Highest resistor R75. Highest capacitor C80.