

National



AMATEUR & SHORTWAVE RECEIVERS

Tuned to Tomorrow... since 1914—world's most famous line
of fine quality communications equipment



NC-60 Special "B" National's forty-seven years of receiver design experience and know-how bring the beginning shortwave listener or novice amateur maximum reliability and performance for his first investment. Covers 540 KC to 31 MC in 4 bands. Electrical bandspread on all frequencies. Giant, easy-to-read dial with standard AM broadcast, marine, aircraft, CD, WWV, amateur and foreign shortwave bands clearly marked. Separate tuning coils for each band provide excellent sensitivity. Operates on 115 volt AC/DC. Has built-in speaker, front panel phone-jack. 5 tubes including rectifier. Size: $7\frac{5}{8}$ " high x $8\frac{5}{8}$ " deep x $13\frac{1}{2}$ " wide. Finish: two-tone National blue. Wt.: approx. 15 lbs.



NC-105

Offering far more than any general coverage receiver near its price, the NC-105 is a handsome, feature-packed general coverage receiver for the ham, shortwave listener, and hi-fi enthusiast. Available in a functional steel cabinet or custom oiled walnut enclosure (model NC-105W) to complement the den or living room, the NC-105 features continuous coverage from 550 KC to 30 MC in four bands,

a large illuminated edge-reading S meter, and a peaking Q multiplier for optimum selectivity to meet any receiving requirement.

The audiophile may now extend the versatility of his equipment by utilizing the NC-105 exclusive tuner output in conjunction with pre-amp or amplifier to provide hi-fi program material from all over the world.

Built-in 5" speaker and front-panel headphone jack, special bandspread calibration charts for all popular amateur and foreign broadcast bands, separate RF and audio gain controls, separate combination BFO/product detector, automatic series gate noise limiter and full wave transformer-operated power supply.

Dimensions: (steel cabinet) 7 $\frac{5}{8}$ " H, 13 $\frac{1}{2}$ " W, 8 $\frac{5}{8}$ " D.

Shipping Weight: 28 lbs.



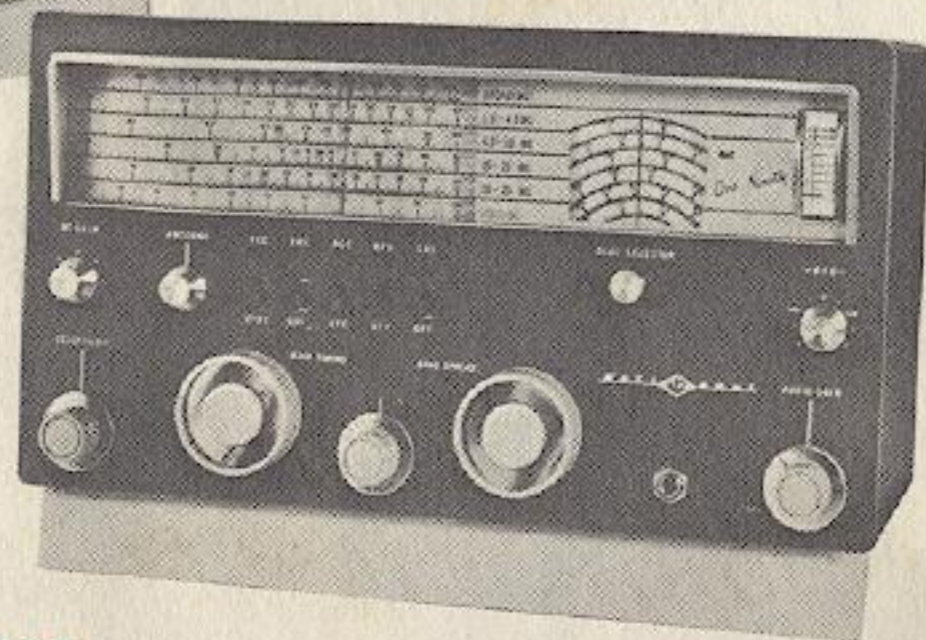
NC-155

The Ham Band Performance Pace-setter — That's the description best fitting the brand-new NC-155. In a price class by itself, the NC-155 offers the amateur double conversion, variable IF selectivity from 600 cycles to 5 KC, and ease of SSB reception unmatched by any receiver within hundreds of dollars of its price. An 80 through 6 meter ham-band-only equivalent of the NC-190, the NC-155 provides superb stability and selectivity, with sensitivity better than 1.0 uv for 10db S/N, including 6 meters! Planetary 60:1 tuning ratio, separate product detector and SSB AGC provide tuning ease on all types of signals that has to be tried to be believed. USB/LSB calibrated BFO, variable IF selectivity from 0.6 to 5 KC using the Ferrite Filter, edge-reading S-meter operative on all reception modes. Automatic noise limiter, one-knob calibrator and lateral dial set and remarkable electrical and mechanical stability as a result of $\frac{1}{8}$ " steel panel, ceramic coil forms, and High-Zero temperature compensation. Accessory XCU-109 1 MC calibrator. Finished in National blue with aluminum trim. Size: $8\frac{5}{8}$ " high, $15\frac{5}{8}$ " wide and 9" deep. Weight 28 lbs.



NTS-3 and NTS-3B Speakers

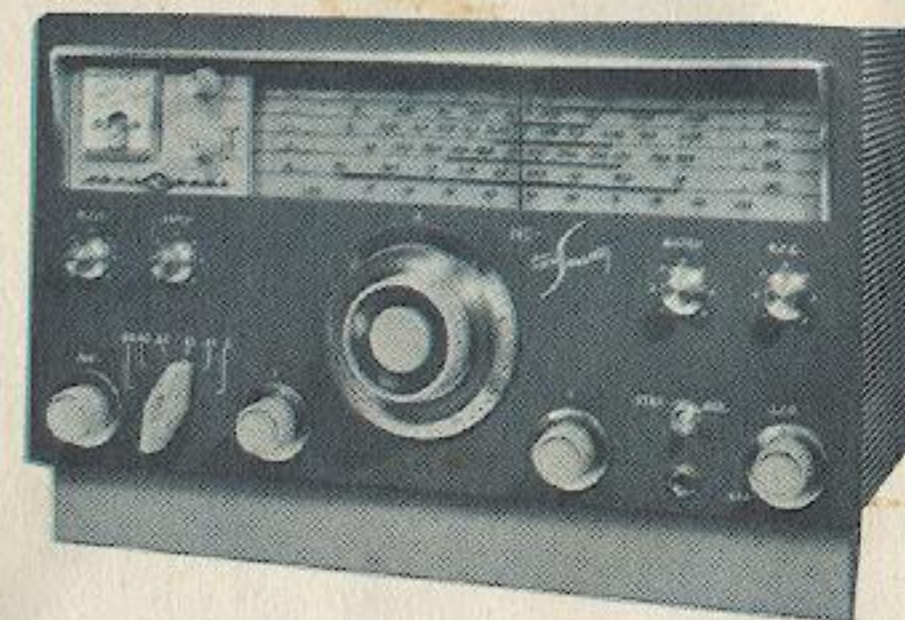
Styled and proportioned to match the NC-270, NC-155 and NC-190, the NTS-3 and NTS-3B speakers incorporate National's exclusive "Flip-Foot" to permit the same degree of flexibility characteristic of these receivers. Extruded aluminum construction and foam polyurethane damping assure the absence of annoying audio resonances. The NTS-3, finished in attractive two-tone blue (matching the NC-270 and NC-190) and the NTS-3B in blue and brushed aluminum finish (matching the NC-155) are handsome complements to your receiver. Impedance: 3.2 ohms. Size: $8\frac{5}{8}$ " high, $5\frac{5}{8}$ " wide and $4\frac{5}{8}$ " deep. Shipping Weight: 5 lbs.



NC-190

Top SSB, AM and CW amateur band performance plus calibrated foreign broadcast bandsread result in the equivalent of two receivers in one. The incorporation of every desirable feature necessary to conquer crowded amateur band conditions makes the NC-190 most attractive to the amateur, while these features plus National's exclusive Dial Selector to provide shortwave as well as amateur bandsread results in what has been called "the shortwave listener's dream receiver"!

Also ideal as a general coverage receiver for the advanced ham-band-only station, the NC-190 provides double conversion, true variable IF selectivity from 0.6 KC to 5 KC with the Ferrite Filter, and sensitivity better than 1.0 uv for 10 db S/N. A separate product detector, SSB AGC and calibrated USB/LSB BFO control result in excellent SSB performance, while the use of a 60:1 planetary tuning mechanism in the bandsread dial offers ease of tuning superior to any other two-dial general coverage receiver at any price, and equivalent to the better ham-band-only equipments. Frequency coverage from 540 KC to 30 MC in five main tuning bands, rather than the usual three or four, provide superior stability and high frequency calibration, and bandsread scales are provided for 80, 40, 20, 15, and 10 meters as well as the five most popular foreign broadcast bands. Coaxial antenna input, voltage-regulated oscillators, SSB/CW IF noise limiting as well as AM limiting, an edge-reading S-meter operative on all reception modes, and, of course, National's Flip Foot, all combine to offer more receiver for the money than ever believed possible. Finished in Duotone National blue, size: $8\frac{5}{8}$ " high, $15\frac{5}{8}$ " wide, and 9" deep. Weight: 28 lbs. Accessory XCU-109 1 MC calibrator also available.



NC-270

This fine precision double conversion receiver offers 80 through 6 meter ham band performance and features not found in equipment costing hundreds of dollars more. National's exclusive high-frequency Ferrite Filter provides five degrees of IF selectivity from 0.6 to 5 KC, including instantaneous selectable upper or lower side band. More than 50 db rejection of interfering heterodynes can be obtained with the Front-Panel BiFilar T Notch and Depth controls. Sensitivity better than 1.0 uv for 10 db S/N on all bands, including 6 meters! Amazing mechanical and electrical stability results from use of solid $\frac{1}{8}$ " steel panel, ceramic coil forms, fully perforated cabinet and National's High Zero temperature compensation. Separate product detector for SSB and CW, distortion-free automatic noise limiter, built-in 100 KC crystal calibrator with lateral dial set. Unique Flip Foot provides greater accessibility and flexibility. Size: $8\frac{5}{8}$ " high, $15\frac{5}{8}$ " wide and 9" deep. Weight: 28 lbs. In a handsome two-tone blue finish.

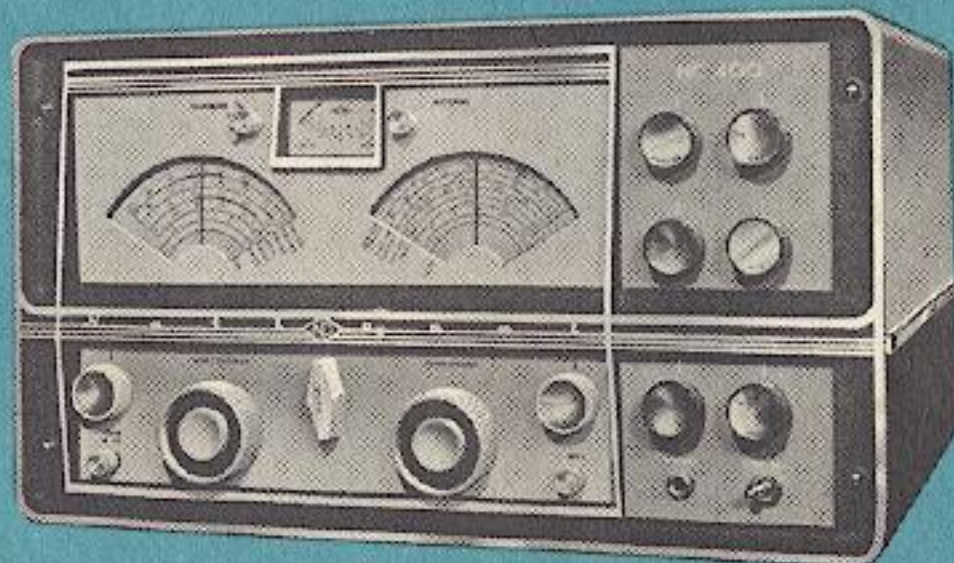


NC-303

The most versatile and feature-packed amateur receiver on the market today. Highest thermal and mechanical stability, greatest sensitivity of any receiver in its price class. Amazingly smooth tuning mechanism and direct dial calibration to 1 KC on 160 meters, 2 KC on 80-15 meters provide unparalleled ease of operation. Manufactured to National's famous standards of quality, the NC-303 covers 160 to 1 1/4 meters with 10 separate dial scales and exclusive converter provisions for 6, 2 and 1 1/4 meters. Dual conversion on all bands. Crystal controlled second converter oscillator. Separate product detector for SSB and CW. Front panel instant SSB selection. IF selector five degrees of selectivity. "Q" multiplier with 60 db razor-sharp rejection notch. Automatic single-ended noise limiter for AM. Double-ended manual noise limiter for SSB and CW. Fine tuning vernier dial drive provides super-precision tuning. New "fast-attack, slow-release" AGC circuit for SSB and CW. Provision for external control of RF gain during transmitting periods. Accessory socket for powering converters. 15 tubes including rectifier. Size: 19 1/2" wide x 11 1/4" high x 15" deep. Weight: 64 lbs. Attractive black and gray enamel finish.

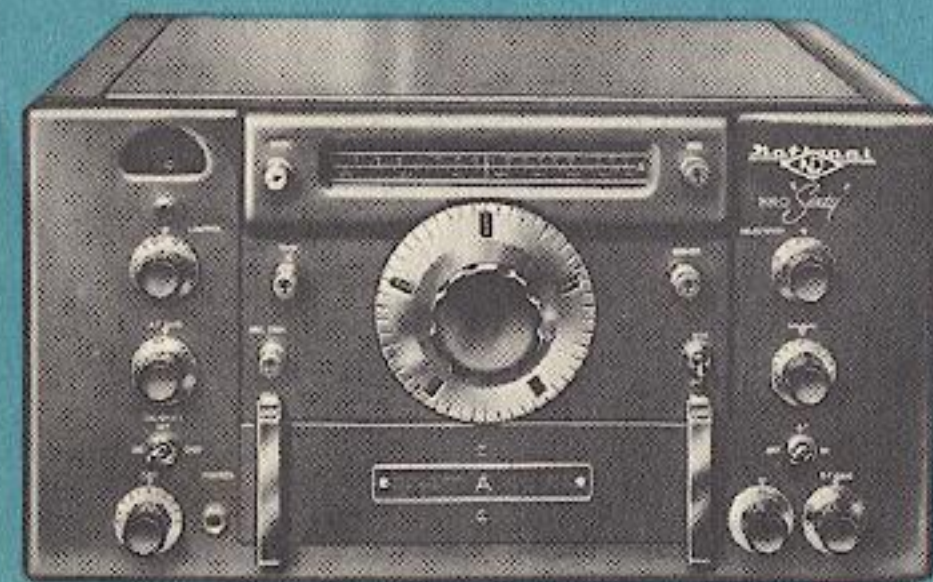
NC-400

A modern, general coverage receiver for commercial, military, and amateur communications, incorporating a total of vitally important features available in no other competitive equipment. Covers 540 KC to 31 MC in 7 bands, dual conversion above 7 MC, provides AM, CW, and selectable SSB reception. Versatile design assures maximum flexibility to satisfy all communications requirements. Manual tuning or five crystal-controlled preset channels. MX-400 adapter provides 50 crystal-controlled preset channels. Master oscillator input allows use of external synthesizer. Full space or frequency diversity reception with DMK-400 adapter, as well as choice of internal or external oscillator control. Enormous IF bandwidth versatility — 150 cycles to 16 KC plus optional mechanical filter selection. SSB product detector, fast attack, slow decay AGC and adjustable noise silencing for maximum ease of SSB or CW reception. All oscillators may be crystal-controlled, including BFO. 18 tubes including rectifier. May be removed from cabinet and rack-mounted. Size: 19 1/2" wide x 11 1/4" high x 16" deep.



HRO-60

The latest and best in the long line of HRO receivers — The most famous equipment in the world. Features the widest frequency coverage of any receiver currently available, and therefore ideal for the laboratory as well as general communications. 50-430 KC: 480-54,000 KC. Direct frequency reading slide-rule dial. 13 tuning bands. Calibrated bandspread for 6, 10, 15, 20, 40 and 80 meter amateur bands. Dual conversion on all frequencies above 7 MC. Crystal filter with 6 degrees of selectivity and phasing control. Two RF stages. Plug-in coil sets. Famous National HRO micrometer tuning dial provides logging scale of 0-500 (equivalent to 12 foot scale length). 18 tubes including rectifier. Available in table or rack models. Size: Table model, 19 3/4" wide x 10 1/8" high x 16" deep. Rack model, 19" wide x 10 1/2" high x 17 1/16" from rear of front panel (includes 1 1/8" handle). Weight: 88 lbs. Smooth gray enamel finish.



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