



NCX-3 Tri-Band SSB Transceiver... Here's the hottest sideband rig on the market — a complete SSB/AM/CW station with a conservative 200 watts of SSB punch at a price less than competitive transmitters or receivers only! Complete coverage of the 80, 40, and 20 meter phone and CW amateur bands with everything you need to make operating easy — VOX or push-to-talk operation, SSB/CW, fast attack, slow decay AGC, S meter/cathode current meter, grid-block break-in CW keying, product detector for SSB and triode detection for AM, adjustable pi-network output and geared planetary tuning drive! Handsome industrial-designer styled exterior to complement your den or automobile. Extruded aluminum front panel is anodized, not painted, for maximum protection against wear and scratches, with solid brushed-aluminum dial and meter bezels together with restful back-lit dial scales. Size: 6 $\frac{1}{8}$ " high x 13 $\frac{1}{4}$ " wide x 11 $\frac{1}{4}$ " deep. Weight: 25 lbs.

Matching NCXA AC supply/speaker console and NCXD transistorized D.C. supply system are engineered for use with the NCX-3.

SPECIFICATIONS

□ **FREQUENCY RANGE:** 3480 KC to 4020 KC, 6980 KC to 7310 KC, 13880 KC to 14420 KC. □ **TYPES OF EMISSION:** SSB (LSB 80 and 40 meters, USB 20 meters), AM (SSB with carrier inserted), CW. □ **R.F. POWER INPUT:** 200 watts SSB PEP, 200 watts CW, 100 watts AM. □ **R.F. POWER OUTPUT:** 120 watts SSB PEP, 120 watts CW, 30 watts AM. □ **OUTPUT IMPEDANCE MATCHING RANGE:** 40-60 ohms. □ **SSB GENERATION:** 5200 KC crystal filter; bandwidth 2.5 KC at 6 db. □ **FREQUENCY STABILITY:** 400 cycles long-term after warm-up. □ **SUPPRESSION:** carrier —50 db; unwanted sideband —40 db. □ **OPERATING FACILITIES:** all modes — full AGC and S-Meter on receive; SSB — VOX or PTT transmit, product detector on receive; AM — VOX or PTT transmit, triode detector on receive; CW — grid block break-in transmit, product detector on receive. □ **AUDIO INPUT:** High impedance, low level. □ **CONTROLS:** Front panel — Main Tuning, Band Selector, Audio Gain, R.F. Gain, Microphone Gain, Calibrator Switch, Dial Set, Mode (off, SSB, AM, CW, tune), Carrier Balance, Driver Tune, PA Tune, PA Load, Mic. input, Phone jack; Rear panel — Vox Sensitivity, Vox Delay, Bias Adjust, VOX/PTT Switch, Key, Accessory Calibrator Socket, Ext. relay. □ **METERING:** PA cathode current on transmit; S-Meter on receive. □ **RECEIVER SENSITIVITY:** 1.0 μ v for 10 db S/N ratio. □ **RECEIVER SELECTIVITY:** 2.5 KC at 6 db. □ **RECEIVER AUDIO OUTPUT:** Better than 2 Watts; 3.2 ohms. □ **Size:** 6 $\frac{1}{8}$ " H, 13 $\frac{1}{4}$ " W, 11 $\frac{1}{4}$ " D. □ **SHIPPING WEIGHT:** 25 pounds. □ **POWER REQUIREMENTS:** 700 V.D.C. @ 300 ma., 280 V.D.C. @ 100 ma., —80 V.D.C. @ 10 ma., 12.6 V. @ 5A. □ **TUBE COMPLEMENT:** 18 tubes, 6 diodes, 26 Functions; parallel 6GJ5's in final amplifier. □ **MECHANICAL:** $\frac{1}{8}$ " solid extruded aluminum front panel; perforated steel enclosure; cadmium plated steel chassis; anodized brushed aluminum gimballed mobile mounting bracket. □ **MAIN TUNING RATIO:** 45:1, employing planetary and split gear drive. □ **FINISH:** Front panel — Hydro-etch off-white matte with brushed aluminum trim; Knobs — Mil-Spec, matte black; Enclosure — gray-blue wrinkle enamel.



ACCESSORY POWER SUPPLIES

Matching NCXA AC supply/speaker console complements NCX-3 and provides all necessary operating voltages together with built-in PM speaker for table-top operation. Husky components and silicon rectifiers for cool operation. Resting current/full load voltage regulation 2%. Interconnecting plug-in cable makes all necessary connections to NCX-3. Add microphone and antenna and you're on the air.

SPECIFICATIONS: Output voltages; 700 V.D.C. @ 300 MA., 280 V.D.C. @ 125 MA., — 80 V.D.C. @ 10 MA., 12.6 V.A.C. @ 5A. □ Speaker; 6" x 4" permanent magnet type, 3.2 ohms. □ Fuse; 5A. □ Primary line input voltage; 115 V.A.C. 50/60 cycles. □ Finish; anodized extruded aluminum front panel with brushed aluminum trim and anodized perforated aluminum speaker grill, perforated gray-blue steel enclosure. □ Dimensions; 6 $\frac{1}{4}$ " H x 8 $\frac{1}{4}$ " W x 11 $\frac{1}{4}$ " D. □ Shipping weight; 25 lbs.



NCXD transistorized D.C. supply provides all necessary operating voltage for the NCX-3 from 11-14 volt D.C. source. Extremely conservative rating assures cool operation and full power output in confined spaces. Power transistor switching frequency is 200 cycles allowing use of Hypersil "E" type transformer core at 90% efficiency, and low switching frequency eliminates power supply "whine". Continuous overload and reverse polarity protection, may be used with positive or negative ground. 10-32 mounting holes on two sides allow unusual mounting versatility. Built-in power relay controlled by NCX-3.

SPECIFICATIONS: Output voltages identical to NCXA. □ Input voltage; 11-14 V.D.C. positive or negative ground. □ Maximum ambient temperature for full output; 60° C (140° F). □ Efficiency; 90%. □ Protective features; continuous overload, reverse polarity protection; separately-fused primary, low voltage, and bias busses. □ Finish; anodized aluminum enclosure and heat sinks. □ Dimensions; 6" x 4 $\frac{1}{2}$ " x 4" (less heat sink protrusion). □ Shipping weight; 10 lbs.

1 D'Arsonval meter is automatically switched to read signal strength or cathode current. 2 National 2.5 KC high frequency crystal lattice filter for maximum side-band suppression with high audio quality. 3 RCA 7360 balanced modulator for stable, "stay-put" carrier balance. 4 Planetary 45:1 split-gear slow motion drive for easy tuning. 5 Final amplifier (protective shield removed) with neutralized 6GJ5's for conservative 200 watt PEP on 80, 40 and 20 meters. Variable pi-network to facilitate impedance-matching. 6 Shielded National "high-zero" VFO for maximum mechanical and electrical stability. 7 External relay control for use with high power linear amplifier. 8 Solid extruded aluminum front panel for ruggedness, anodized for long wear and resistance to scratches. 9 Function switch selects SSB, AM, CW and tune modes. 10 Concentric RF and audio gain controls for optimum adjustment of signal levels. 11 Front panel carrier balance control for AM or CW operation. 12 Calibrator socket for use with front-panel-controlled Model XCU-27 Accessory 100 KC Crystal Calibrator. Push-pull switch on Mic Gain shaft. 13 Plug-in relay.

