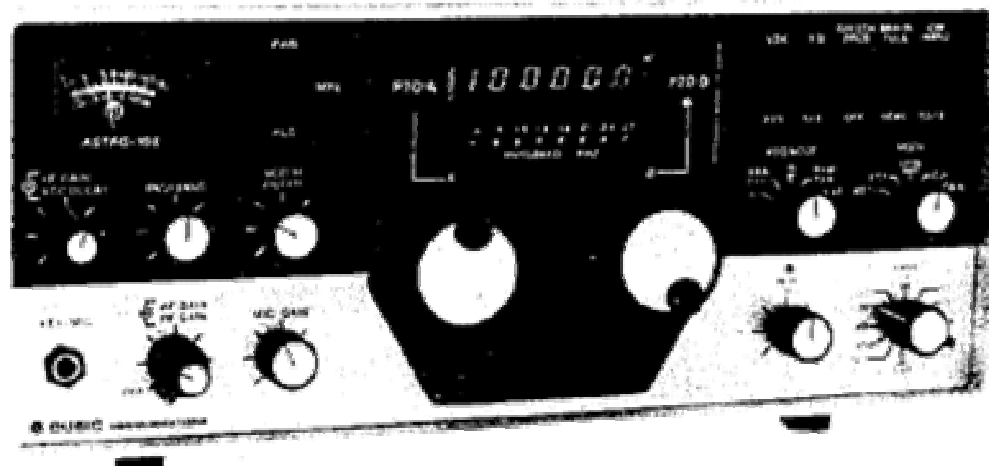


NORTHERN COMMUNICATIONS. HALIFAX. ENGLAND.

ALL BAND COVERAGE!
160 THROUGH 10 INCLUDING WARC
9 BANDS FULLY OPERATING

ASTRO 103
Professional Grade
HF/SSB Transceiver



THE NO NONSENSE RIG STRESSING PERFORMANCE!

Quality American design and construction by Cubic Corporation. For 20 years Cubic has been a leading diversified American defense and commercial contractor—your assurance of the resources and stability required for future product support.

FEATURES

- ✓ All band coverage from 160M through 10M. 9 bands in 12 ranges.
- ✓ DUAL PTO's. Two independent high stability permeability tuned oscillators provide true split band operation (Infinite memory!) The digital counter reads the PTO used in receive and then switches to the transmit frequency selected when the mic is keyed.
- ✓ 235 WATTS INPUT, PEP AND CW on all frequencies. ALL SOLID STATE with a highly effective ALC circuit for output device protection.
- ✓ IF PASSBAND TUNING not to be confused with ineffective "IF shift." Two 8-pole crystal filters are cascaded to provide a 18-pole -6 to -100dB shape factor of 1.4:1 One filter may be moved through the passband to provide a continuously variable bandwidth with the 18-pole razor sharp cut-off at the low or high end to eliminate close-in interference above or below the operating frequency.
- ✓ CW CRYSTAL FILTER (Optional). A 400Hz 6-pole crystal filter is cascaded with one of the 8-pole filters in the CWN position and may be moved across the base filter with the Passband Tuning Control! This provides truly effective CW filtering for the most discriminating CW operator.
- ✓ VISUAL DISPLAY OF PASSBAND provided by a series of 8 LED's calibrated from .6 to 2.7 kHz. Shows passband in use at a glance!
- ✓ External Receive Antenna Jack. Allows separate transmit and receive antennas.
- ✓ TUNABLE NOTCH FILTER to drastically reduce QRM. When combined with passband tuning provides the ultimate in removing interference.
- ✓ FULL OR SEMI CW BREAK-IN provides full flexibility for the CW professional.
- ✓ RTTY Mode Switch. Automatically selects LSB and switches in CWN filter.
- ✓ CONTINUOUSLY VARIABLE AGC DECAY will allow setting the AGC hold time from 0 to several seconds. "Woodpecker" interference can be drastically reduced by setting the AGC delay to a point near minimum value.
- ✓ EXCEPTIONAL DYNAMICS with AGC range of greater than 100dB and THIRD ORDER INTERCEPT OF +15dBm.
- ✓ SPEECH PROCESSOR with extremely low distortion increases transmitter signal by at least 1/2 "S" unit in effective audio "punch." Compression level is adjusted with the Mic Gain Control.
- ✓ RF and IF GAIN CONTROLS to provide an infinite selection of receiver dynamics in the presence of high level interference.
- ✓ 4 FUNCTION METER reads "S" units in receive, and selects forward power (calibrated in watts PEP), reflected power, or ALC level in transmit. NO EXTERNAL VSWR METER REQUIRED!
- ✓ BAND SELECTION using PLL and synthesizer for band selection provides full coverage of 160 meters through 10 meters in 9 ranges.
- ✓ MILITARY QUALITY PC BOARDS of double sided, plated through glass epoxy material. Not the inferior paper base phenolic material seen in imported equipment.
- ✓ MODULAR CONSTRUCTION WITH PC boards and assemblies interconnected by plug-in strip line and coaxial connectors for uniformity and ease of service. NO CABLE HARNESS USED! Chassis and cabinet are of rugged steel construction for durability and superior shielding.



CUBIC COMMUNICATIONS

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