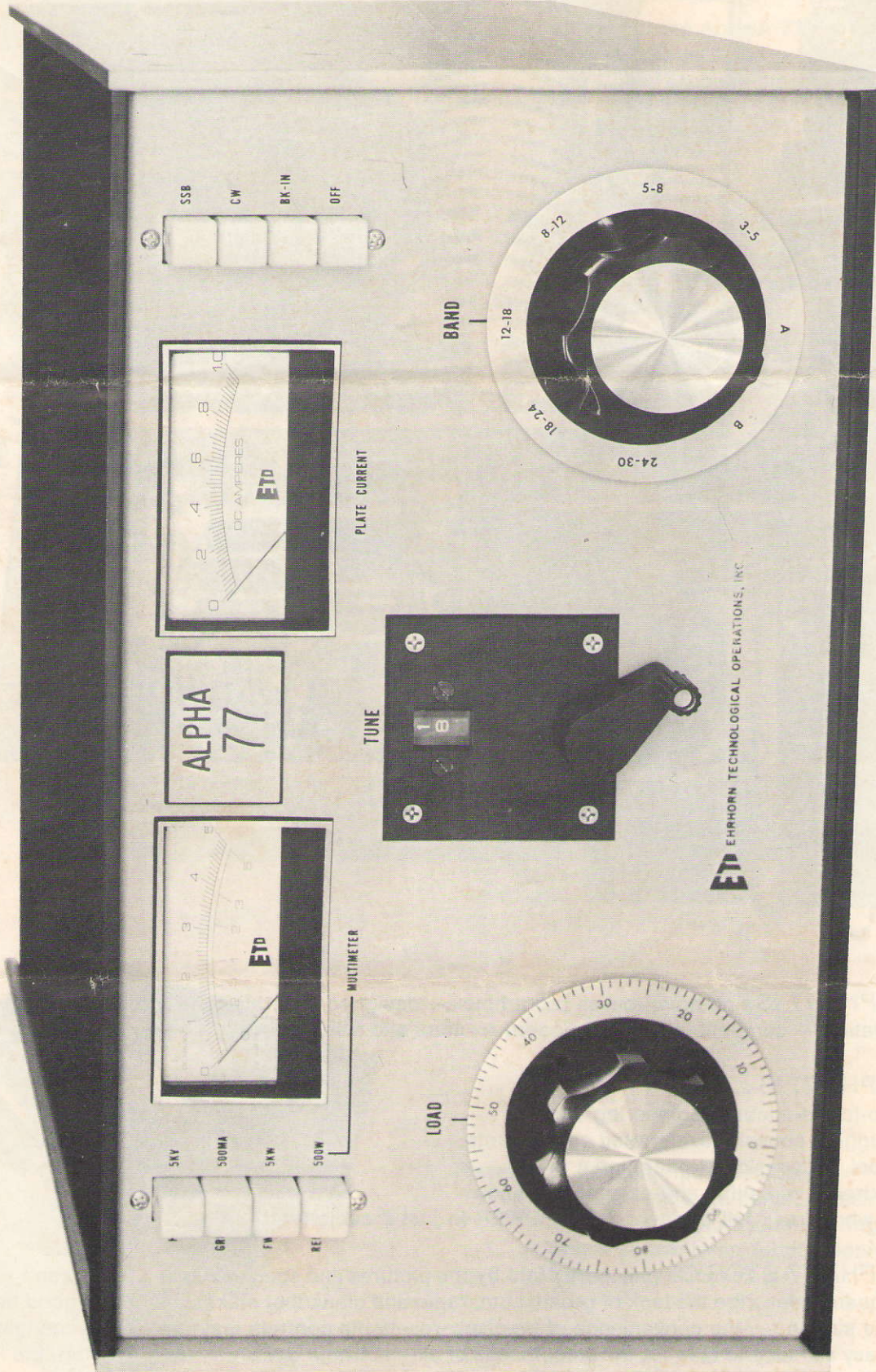
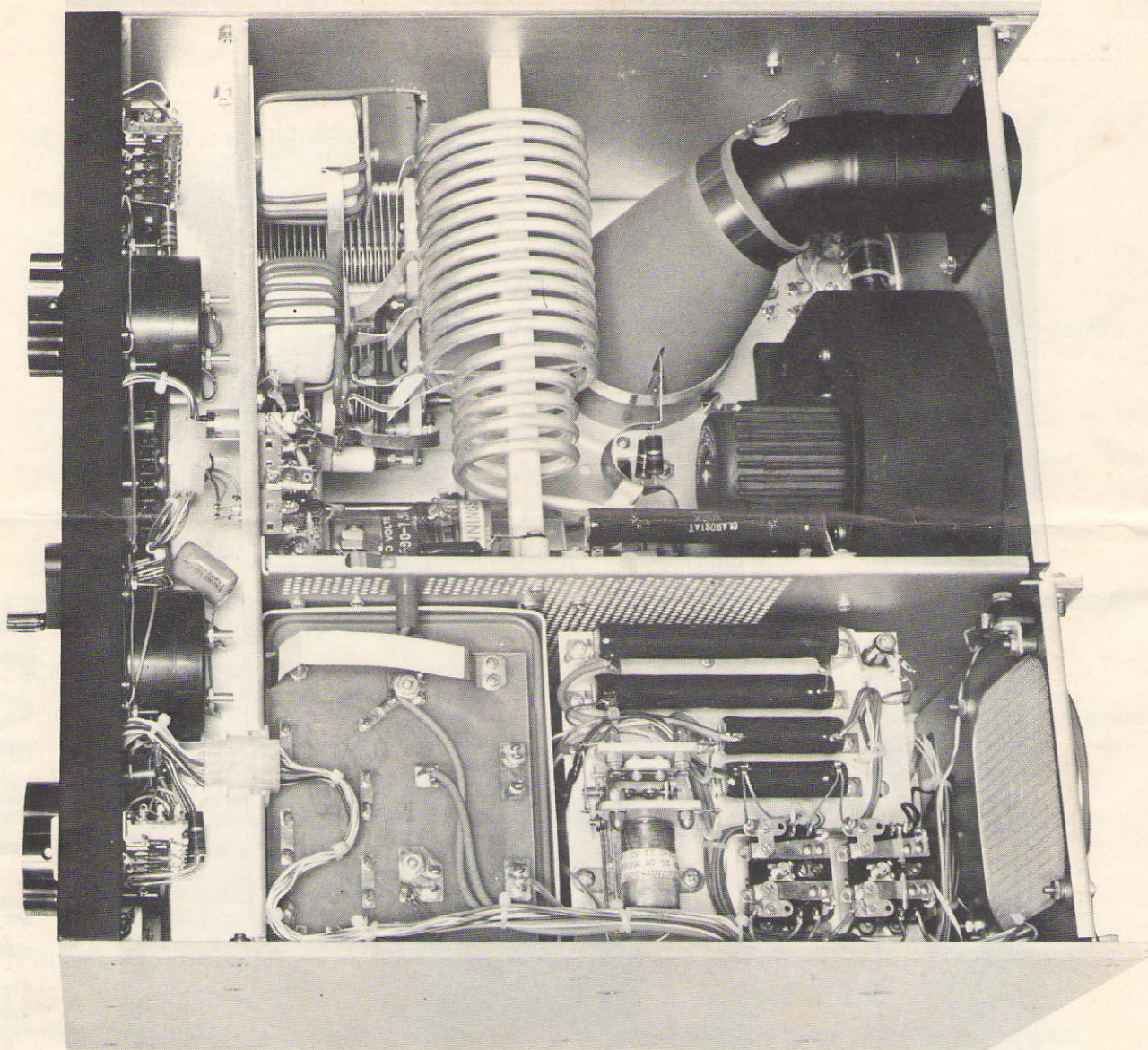


EHRHORN TECHNOLOGICAL OPERATIONS, INC. PRESENTS . . .



THE ULTIMATE

HIGH FREQUENCY LINEAR POWER AMPLIFIER



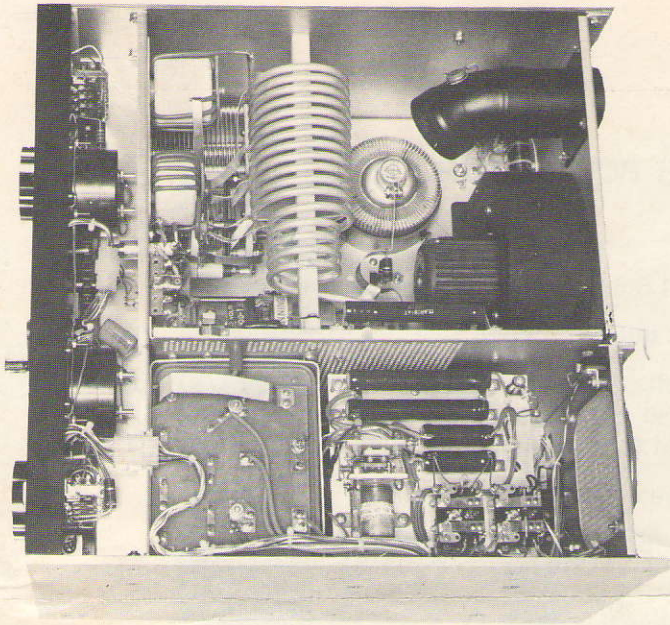
THE ALPHA 77 IS a no-compromise powerhouse— designed and rated for continuous, heavy-duty operation — compatible with all modern exciters and transceivers.

THE ALPHA 77 IS . . .

- * Up-to-the-minute engineering design
- * Rugged, conservatively-rated components
- * Cool, whisper-quiet operation
- * Extreme versatility and ease of operation
- * A whole rack full of dependable POWER in just 2 cubic feet!

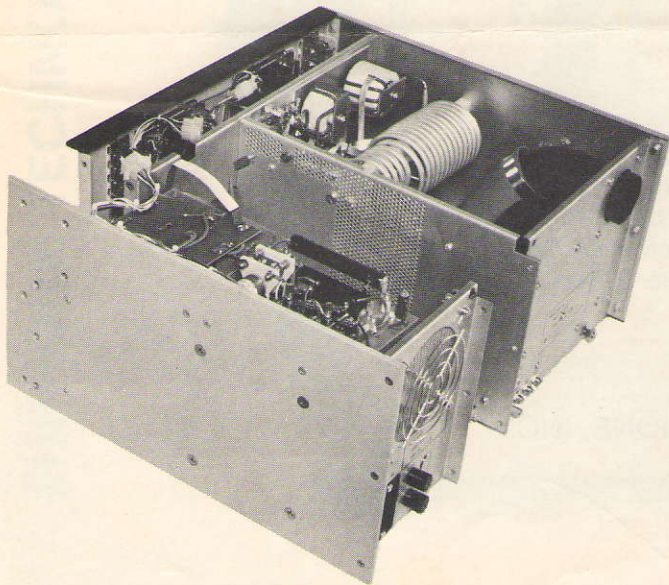
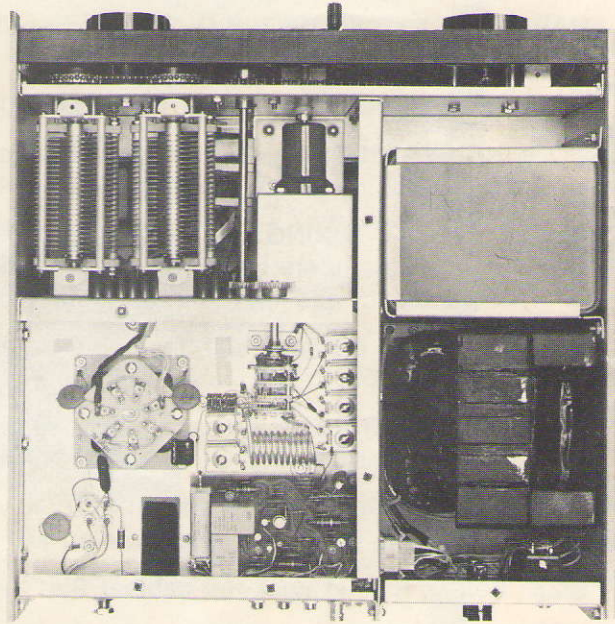
THE ALPHA 77 STORY is only partly told by the pictures and specifications . . . they can't adequately describe the lack of groan, hum, rattle and clank that makes the "77" a good neighbor in the station . . . the convenience of precisely-resettable controls that make band-changing an easy six-second task . . . the smoothness of all-electronic CW break-in . . . in short, the FEEL of a fine instrument which must be USED to be fully appreciated.

THE ALPHA 77 ADDS UP . . . TO THE FINEST LINEAR AMPLIFIER EVER OFFERED IN ITS POWER CLASS



Top view of the ALPHA 77 with hot-air exhaust hood removed to show 8877 tube in place.

Bottom view of the ALPHA 77. Circuit board at bottom, center contains solid state timing and control, electronic bias and T/R switching circuitry.



Removal of the entire power supply module (and front panel, if desired) is an easy 5-minute job requiring only a screwdriver. All components are then totally accessible.

MODEL PA-77 HIGH FREQUENCY LINEAR POWER AMPLIFIER

TECHNICAL SPECIFICATIONS

FREQUENCY COVERAGE: 3-30 MHz in six bands; 1.8-3.0 MHz special order.

EMISSION: SSB, CW, FSK/RTTY, SSTV continuous duty.

PLATE POWER INPUT: Maximum Limits — 4 kilowatts PEP and 1.5 kilowatts continuous key-down or average over any 5 minute period. Typical, Continuous Operation — 3 kilowatts PEP SSB voice, 2.5 kilowatts keyed CW, 1.5 kilowatts carrier (RTTY, SSTV, etc.)

RF OUTPUT: 2 kilowatts PEP SSB, 1 kilowatt average or continuous, nominal.

EXCITATION REQUIREMENTS: 100 watts nominal for 3 kilowatts PEP input.

INPUT IMPEDANCE: 50 ohms unbalanced.

OUTPUT IMPEDANCE: 52 ohms unbalanced, SWR not to exceed 2:1.

HARMONIC AND SPURIOUS OUTPUTS: Second harmonic -50 db or better; 3rd order intermodulation products -35 db at 3 KW PEP input.

TUBE COMPLEMENT: One Eimac 8877/3CX1500A7 ceramic-metal triode.

COOLING SYSTEM: Large capacity, ball bearing, computer grade blower with the thermostatic speed control; continuous cool-air cabinet flush, hot air exhaust ducted outside to rear.

PLATE OUTPUT TUNING: Pi-L network; 7500 volt vacuum variable tuning capacitor, 6000 volt/20 ampere bandswitch, silver-soldered and plated main pi tank coil, toroidal low-frequency and main L network inductors.

METERING: Two 3½ inch taut-band illuminated meters; PLATE CURRENT and MULTIMETER switchable to indicate high voltage, grid current, forward and reflected RF power.

PROTECTIVE CIRCUITS: Primary fuses and cover interlock, plate and grid overcurrent relays, HV cover crowbar.

PRIMARY POWER REQUIREMENTS: 120/240 volts, 50-60 Hz, single phase, 3-wire, 20 amperes. Contact factory for operation on 240 volt, 2-wire, or 120/208 volt, 3 phase sources.

SIZE: Self-contained desk-top cabinet 9½" high x 17" wide x 18" deep.

WEIGHT: Net, 75 pounds; shipping, 90 pounds.

OTHER SPECIAL FEATURES:

- * All solid state HV and LV rectifiers.
- * 25 mfd oil-filled filter capacitor.
- * Automatic power-on step-start to limit initial surge.
- * Fully modular construction for fast, easy maintenance access.
- * 1500 watt continuous-duty Hipersil® core power transformer.
- * All solid-state bias switch cuts off tube in absence of excitation.
- * Solid state control and timing; MOSFET electronic T/R switch.
- * Vacuum antenna changeover relays.

MANUFACTURED BY:

EHRHORN TECHNOLOGICAL OPERATIONS, INC.
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