

# OPERATION AND MAINTENANCE SWAN CYGNET MODEL 270B



## INTRODUCTION

The Swan Cygnet Model 270B Single Sideband Transceiver is designed to be used in either CW or SSB modes on all portions of the 80-, 40-, 20-, 15-, and 10 meter amateur radio bands.

Power input on all bands exceeds 260 watts, PEP, on single sideband and 180 watts on CW. The Model 270B includes automatic gain control, (AGC), automatic level control, (ALC), and grid block keying.

The basic transceiver provides coverage of all portions of the 80 through 10-meter amateur bands. In addition to this, the amplifier circuits will tune to most MARS frequencies near the 80-, 40-, and 20-meter bands. By using the Model 510X crystal oscillator accessory, MARS operation is thus possible.

The internal AC power supply permits fixed station or portable operation wherever 117 volts 50-60 cycles is available. Export models for 208-220-240 volts are available on special order.

For 12-14 volt DC operation in mobile, marine or portable applications, a DC converter unit, model 14-A is available. It attaches to the back of the 270B in place of the AC power cord connector. Its dimensions are only 1½ X 3 X 4 in.

The Model 270B generates a single sideband signal by means of a crystal lattice filter, and the transceiver operation automatically tunes the transmitter to the received frequency. Provisions are included in the transceiver for operation on either upper or lower sideband.

Basic circuitry of the single conversion design has been proven in several thousand of the popular Swan transceivers. Mechanical, electrical, and thermal stability is exceptionally high. All oscillators are temperature compensated and voltage regulated. Push-to-talk operation is standard, with provision for plugging in the Model VX-2 accessory Vox unit for automatic voice control.