



SWAN 270 & 270B

The Swan 270 transceiver and later the 270B, featured the same size and power as the 260, plus selectable sideband, a meter for tuning and S-meter, a sharper CF network, AGC, ALC, separate AF and RF gain controls, a 100kHz crystal calibrator, and a socket for an optional VOX unit.

This unit sold for \$525.00 US in 1969. The 270B was introduced in 1970, and is the same radio as the 270 except it only has the

built-in 117 vac supply. The 14A dc supply was optional. (\$39.95) Selling price in 1970 is listed at \$499.00 US.

SWAN 270B CYGNET 270B SPECIFICATIONS

Frequency Ranges:

80 meters 3.5 to 4 mc
40 meters 7.0 to 7.3 mc
20 meters 14.0 to 14.350 mc
15 meters 21.0 to 21.450 mc
10 meters 28.0 to 29.7 mc

Power Input:

Single sideband, suppressed carrier; 260 watts PEP, minimum on all bands
CW, 180 watts dc input on all bands
AM, (single sideband with carrier) 65 watts dc input on all bands

Distortion:

Distortion products down approx. 30 db

Unwanted Sideband Suppression:

Unwanted sideband down more than 50 db

Selectivity:

Provided by 5500kc crystal lattice filter, 2700 cycles wide at 6db down, 4600 cycles wide at 60 db down. Shape factor of 1.7 with ultimate rejection greater than 100 db.

Receiver Sensitivity:

Less than 0.5 microvolt at 50 ohms impedance for signal-plus-noise to noise ratio of 10 db

Transmitter Output:

Wide range Pi network output matches resistive loads from 50 to 75 ohms

Metering:

Power amplifier cathode current 0-400 ma on transmit, S-Meter 0-70 db over S9 on receive

Front Panel Controls:

AF Gain, RF Gain, Sideband Selector, CAL-REC-TUNE/CW, Mic. Gain, Bandswitch, Carrier Balance, PA Plate Tune, Driver Tune, PA Load, Dial Set, and Meter Switch

Rear Panel Controls and Connections:

Bias potentiometer, CW key jack, Jones plug power connector, Antenna jack, S-Meter zero,

Auxiliary relay switching, Outboard VFO connection, Headphone jack, and a VOX connector located on the side of the chassis

Vacuum Tube Compliment:

V1 12AU6 VFO Amplifier

V2 12BE6 Transmitter Mixer

V3 6GK6 Driver

V4 6LQ6 Power Amplifier

V5 6BZ6 Receiver RF Amplifier

V6 12BE6 Receiver Mixer

V7 12BA6 First IF Amplifier

V8 12BA6 Second IF Amplifier

V9 12AX7 Product Detector / Receive Audio

V10 6AV6 AGC Amplifier / Rectifier

V11 6AQ5 AF Output

V12 12BA6 100Kc crystal calibrator

V13 6JH8 Balanced Modulator

V14 12AX7 Microphone Amplifier

Power Requirements:

117 vac., 60 cycles, 4 amps. (208-220-240 volt, 50-60 cycles, at 2.5 amps max., export model only)

12-14 volts dc operation with model 14-A converter unit plugged into back of 270B. Current drain 8 amps receive mode, 12 amps average with voice modulation. 25 amps maximum in Tune mode

Dimensions:

5.5 inches high by 13 inches wide by 11 inches deep

Weight:

Weight is 24 pounds

Recommended Accessories:

Model 14-A plug in DC converter for 12 to 14 volt dc operation

Model 1200-W Linear Amplifier provides 1200 watts PEP input

Model 508 external VFO for split frequency operation

Model 510X crystal controlled external oscillator

Model FP-1 hybrid phone patch

Model VX-2 VOX unit