



## THE SWAN SW-240

The Swan SW-240 is one of my favorite rigs, with 3 bands including 75m, 40m, and 20m, it packages the three monobanders into one unit. Furnished with the mobile mounting bracket, it makes for an easy to use base / portable / mobile radio.

### SPECIFICATIONS....

#### FREQUENCY RANGES:

20m USB 13.990 mc to 14.380 mc  
 40m LSB 6.900 mc to 7.340 mc  
 75m LSB 3.640 mc to 4.030 mc

#### POWER INPUT:

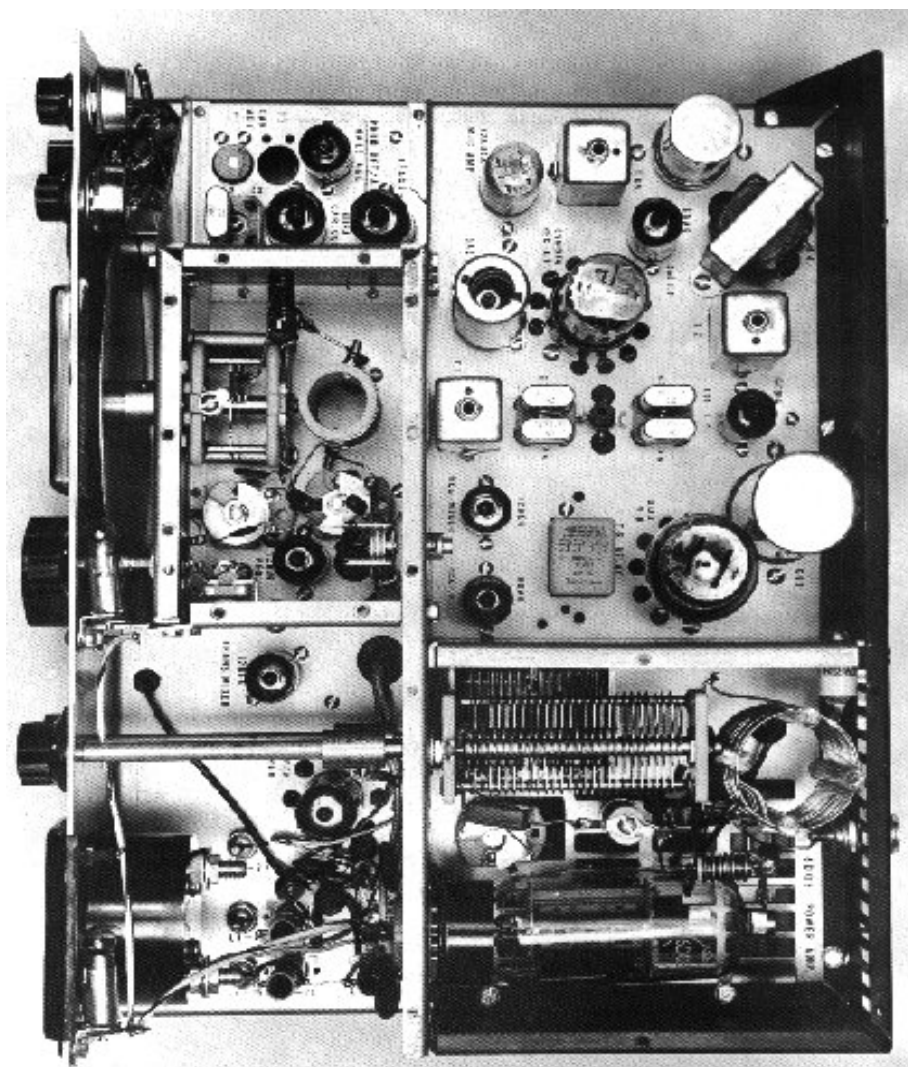
Single Sideband 240 watts PEP  
 with 800 VDC power supply  
 CW 200 watts DC input  
 AM (single sideband with carrier) approx. 60 watts input

#### METHOD OF GENERATING SSB:

High frequency crystal filter centering at 5174.5 kc. Single conversion employed in both transmit and receive. Bandwidth is 3 kc nominal at 6 db down, both transmit and receive.

#### UNWANTED SIDEBAND SUPPRESSION:

Approximately 40 db.



#### CARRIER SUPPRESSION:

Approximately 50 db.

#### TRANSMITTER OUTPUT IMPEDANCE:

Pi-network output matches antennas essentially resistive at 20 to 300 ohms impedance.

#### RECEIVER SENSITIVITY:

Less than 1 microvolt at 50 ohms input impedance for a signal-plus-noise to noise ratio of 10 db.

#### AUDIO RESPONSE:

Essentially flat 300 to 3000 cps on both transmit and receive.

#### RECEIVER OUTPUT:

3 watts audio at 3.2 ohms.

#### FRONT PANEL CONTROLS:

Main Tuning, RF Gain, AF Gain, Mic. Gain, Carrier Balance, Exciter Tune, PA Tune, PA Load, Function Switch, VFO Bandswitch, Main Bandswitch, Filament ON - OFF.

#### METERING:

PA Cathode current, 0 - 400 ma.

#### DIMENSIONS AND WEIGHT:

13.25" wide x 5.6" high x 11" deep. Weight is 11 lbs.

#### TUBE COMPLIMENT:

V1 6DQ5 PA

V2 12BY7 Driver

V3 6BE6 Transmitter Mixer

V4 6AU6 VFO

V5 6BA6 Receiver RF Amp

V6 12BE6 Receiver Mixer

V7 6CB6 1st IF Amplifier

V8 6BA6 2nd IF Amplifier

V9 7360 Balanced Modulator  
V10 6V6GTA AF Output  
V11 12AU7A Microphone Amplifier  
V12 12AX7 Product Detector and 1st AF Amplifier  
V13 6U8A Carrier Oscillator  
V14 6AL5 AGC Rectifier  
V15 0D3 Voltage Regulator

#### POWER SUPPLY REQUIRMENTS:

Filiments: 12.6 volts at 3.45 amps, ac or dc.

Relay: 12 volts dc.

Bias: -100 volts dc at 5 ma.

Medium Voltage: +275 volts dc at 110 ma.

High Voltage: =600 to 800 volts dc at 300 ma., transmit only.

Swan SW-12DC and Swan SW-117AC power supplies are recommended for mobile and fixed station use respectively.

#### EXTERNAL TERMINALS:

SPDT relay terminals on the rear panel for auxilary switching of a linear amplifier.