



THE SWAN 350

The Swan 350, no doubt one of Swan's most popular series of transceivers, evolved over the years to the 350C, then into the 350B and 350D, the last of the line. Pictured is my first Swan rig, a 1967 model 350.

With a suitable power supply, operation may be fixed, portable, or mobile. Power input on all bands exceeds 400 watts PEP on single sideband, and 230 watts dc input on CW. The basic 5 band transceiver includes AGC, ALC, and grid block CW keying.

SPECIFICATIONS....

(Model 350)

FREQUENCY RANGES:

80 meters 3.5 to 4.0 mc LSB
 40 meters 7.0 to 7.5 mc LSB
 20 meters 13.85 to 14.350 mc USB
 15 meters 21.0 to 21.5 mc USB
 10 meters 28.5 to 29.0 mc USB

POWER INPUT:

Single Sideband, Suppressed Carrier is 400 watts PEP minimum on all bands.
 CW, 320 watts, dc input on all bands.
 AM, Single Sideband with Carrier, 125 watts dc input on all bands.

DISTORTION:

Distortion products down at least 30 db.

UNWANTED SIDEBAND SUPPRESSION:

Unwanted sideband down at least 40 db.

CARRIER SUPPRESSION:

Carrier suppression at least 50 db.

RECEIVER SENSITIVITY:

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

AUDIO OUTPUT AND RESPONSE:

Audio output is approx. 3 watts to a 3.2 ohm load. Response essentially flat 300 to 3000 cps in both receive and transmit.

TRANSMITTER OUTPUT:

Wide range Pi-network output matches antennas essentially resistive at 20 to 300 ohms impedance, with coarse and fine load adjustment.

METERING:

Power amplifier cathode current 0-800 ma on transmit, S-meter 0-70 db over S9 on receive.

FRONT PANEL CONTROLS:

Rec-Tune-CW, AF Gain, RF Gain, Mic. Gain, Bandswitch, Carrier Balance, PA Plate Tune, PA Grid Tune, PA Load Coarse, PA Load Fine, VOX-PTT Switch.

REAR PANEL CONTROLS:

Bias potentiometer, Grid-Block CW Key Jack, Jones plug power connector, Vox connector, Antenna (SO239), S-Meter Zero, SPDT relay terminal strip.

VACUUM TUBE COMPLEMENT:

V1 6EW6 VFO Amplifier

V2 12BE6 Transmitter Mixer

V3 6GK6 Driver

V4 6HF5 PA

V5 6HF5 PA

V6 12BZ6 Receiver RF Amp

V7 12BE6 Receiver Mixer

V8 6EW6 First IF Amplifier

V9 12BA6 Second IF Amplifier

V10 12AX7 Product Detector / Receiver Audio

V11 6BN8 AGC Amplifier / Detector

V12 6GK6 Audio Amplifier

V13 7360 Balanced Modulator

V14 12BA6 Carrier Oscillator

V15 12AX7 Mic. Amplifier / Transmit Audio

V16 0A2 Voltage Regulator

POWER REQUIRMENTS:

Filaments; 12.6 volts, 5.5 amps, ac or dc.

Relay; 12 volts dc, 250 ma.

Bias; -110 volts dc, 100 ma.

Medium Voltage; 275 volts dc, 150 ma.

High Voltage; 800 volts dc, 500 ma.

The most common power supply that was used with the Swan 350, and many other models, was the combination speaker / power supply which matched the unit. For home use, the 120 VAC units were the "117C", "117XC", and the model "412" DC supply for mobile use was available.

DIMENSIONS AND WEIGHT:

Height 5.5 inches
Width 13 inches
Depth 11 inches
Weight 17.25 lbs.

PRICE RANGE:

When the 350 was introduced in 1965, the price was \$420.00, the 117XC was \$95.00, the 14-117 12 VDC supply was \$130.00, and the VX-1 VOX kit was \$35.00 US.

When the 350C was introduced in 1968, the price was still \$420.00, the 117XC was \$105.00, and the 14-117 was listed at \$130.00 US.

The 350B, with its built-in power supply and 300 watts PEP output, was listed at \$649.00 US.

The 350D, when introduced in 1977 with its 6 digit LED frequency display and readout to 100 Hz, sold for \$699.00 US. This radio was complete with built-in AC supply and speaker.

The 350A, also introduced in 1977 was sold for \$599.00 US, without the digital display. Accessories include the VX-2 VOX unit, the 14A DC converter, and the 350A Xtal calibrator.