

## INSTALLATION

### POWER SUPPLY:

The Swan Model 600-R built-in power supply provides all the necessary voltages required by the receiver for 117 volt, 50-60 cycle operation. The receiver comes complete with a pre-wired plug and cable, all ready for plugging into the AC power source.

### ANTENNA:

Any of the common antenna systems designed for use on the high frequency amateur bands may be used with the receiver. The antenna input has been designed for a 50 or 75 ohm unbalanced coaxial cable input. An odd length of wire can be used for an antenna, but the receiver will not perform as well as when the antenna has been constructed for use on the amateur bands.

### SPEAKER JACK:

Receiver audio output from the 600-R is for a 3 to 4 ohm voice coil impedance. This output is terminated at the SPKR jack located on the rear panel of the receiver. The optional accessory Model 600-S or 600-SP Speakers have been designed specifically for the 600-R receiver, and have excellent audio characteristics. The 600-S is a matching cabinet with a 5 x 7 inch speaker. The 600-SP includes the Swan FP-1 phone patch.

### HEADPHONES:

Both speaker models provide a headphone jack. High impedance phones are recommended because the impedance mismatch produces the desired amount of attenuation for headphone volume. Low impedance phones may be used, but attenuation will not be as great, and it will be possible to damage the phones by turning the A.F. GAIN on full, so care must be exercised if low impedance phones are used.

### CABLE CONNECTIONS:

Cable connections for interconnecting the 600-R to the matching Swan Model 600-T Transmitter are shown in Figure 2. These cables are supplied with the 600-T.

### INTERCONNECTION CABLING WITH SWAN TRANSCEIVERS AND OTHER TRANSMITTERS:

A cable harness, Model CK-1, is available from Swan Electronics for interconnecting the 600-R receiver with your

Swan 350C, 500C, 500CX, 270, and 270B Transceivers. Figure 3 shows the interconnecting cabling for the 350C, 500C, and 500CX, and Figure 4 shows the interconnecting cabling for the 270 and 270B. Complete instructions for interconnecting the 600-R to the Swan Transceivers are contained with each cable harness. The CK-1 cable kits are available from your Swan distributor, or from the Swan factory. For transmitters/transceivers other than Swan, Figure 5 shows cabling requirements needed for interconnection with the 600-R.

### CARRIER SYNCHRONIZATION:

When operating the 600-R with the 600-T or Swan Transceiver, it is important that the carrier oscillators in each unit be exactly on the same frequency, otherwise, the transmitting and receiving frequencies in the TRANSCEIVE mode will not be the same. To synchronize the 600-R with the 600-T or Swan Transceiver:

1. Turn both units on.
2. Place the Function Switch on the 600-T in the PTT position, or in the case of a Swan Transceiver, put it in Receive mode.
3. Turn the R.F. GAIN control on the 600-R to the full counter clockwise position.
4. Turn the A.F. GAIN control on the 600-R to the full clockwise position.
5. Set the SIDEBAND SELECTOR switch on both units to the NORMAL position.
6. A Test Jack is provided on the back of the 600-R and 600-T labeled "CAR. OSC. TEST". Connect a wire jumper between each jack. The jumper can be a test lead with a test prod on each end, or just about any odd piece of wire, stripped on each end, and inserted into the test jacks.

### NOTE

When operating the 600-R with a Swan transceiver, locate the Carrier Oscillator Crystal in the transceiver, and loosely couple one end of the insulated test lead around the crystal can. One turn around the crystal will be enough. Do not remove insulation from this end of the test lead. A small amount of capacity coupling is all that is required. The other end of the test lead then plugs into the test jack on the 600-R.