



OUTBOARD VFO OPERATION WITH THE 500

Various outboard VFO operations are possible with the Swan 500.

SPLIT FREQUENCY OPERATION

For those desiring to work split frequency, transmit on one—receive on another, the model 22 DUAL VFO ADAPTOR is required. (See page 23) Complete instructions are also supplied with each model 22. The 22 adaptor plugs into the VFO accessory socket on back of the 500.

MARS OPERATION

The model 405X crystal oscillator has been designed for crystal control operation on NET and MARS frequencies and may be plugged directly into the accessory socket on back of the Swan 500 by removing the jumper plug. Plugging the Model 405X directly into the 500, automatically removes the inboard VFO from the circuit. In order to eliminate the trouble of having to plug in the Model 405X each time you wish to use it, it may be used in conjunction with the Model 22 adaptor which provides selection of the VFO you wish to use. (See page 23)

SWAN-405X CRYSTAL CONTROLLED OSCILLATOR

The Model 405X oscillator unit provides for added versatility with the Swan Model 350, 400 and 500 sideband transceiver by crystal controlling the operating frequency. Not only does this permit fixed frequency "net" operation in the 80, 40, and 20 meter amateur bands, but the 405X also permits operation outside the amateur bands for MARS, commercial, and other services.

The standard Model 350, 400 and 500 will tune the following ranges without modification:

3.5 mc Range:	3.2 to 4.6 mc
7 mc Range:	6.8 to 8 mc
14 mc Range:	13.8 to 15 mc

These ranges can be adjusted either up or down quite readily in the field or at the factory, if necessary.

NOTE 1: Earlier models of the 350 and 400 (produced prior to April 1965) may require slight modification to cover the ranges listed above.

NOTE 2: Frequencies between 4.8 and 5.6 mc cannot be used because of proximity to the 5175 kc I.F. system.

(A) USING THE 405X OSCILLATOR WITH THE SWAN-500

The 405X oscillator will plug directly into the VFO socket provided on back of the 500 with no modification.

If separate control of receive and transmit frequency is desired, the Model 22 Dual VFO adaptor is required. With the Model 22 adaptor plugged into the back of the 500, the 405X plugs into its "B" socket. The Model 22 adaptor has a selector switch which provides complete flexibility. Its position #1 provides transceive operation on the frequency of oscillator "A", (oscillator "A" is the internal VFO). In position #2 transmission will be on the frequency of oscillator "A" and reception on the frequency of oscillator "B" . . . Position #3 provides transceive operation on the frequency of oscillator "B".