

INSTALLATION OF OPTIONAL ACCESSORIES

ACTIVE-TUNING ANTENNA SYSTEM (ATAS-100/-120/120A) OPERATION

The optional ATAS-100, ATAS-120, or ATAS-120A Active-Tuning Antenna System permits operation on a number of HF bands (7/14/21/28 MHz) plus 50 MHz.

The FT-450 provides microprocessor control of the tuning mechanism in the ATAS antenna for convenient automatic tuning.

Interconnections to FT-450

"ATAS-120A" is connected referring to the figure below.

ADVICE:

Always turn off the power switch on the FT-450 and the external power supply before you connect any cables.

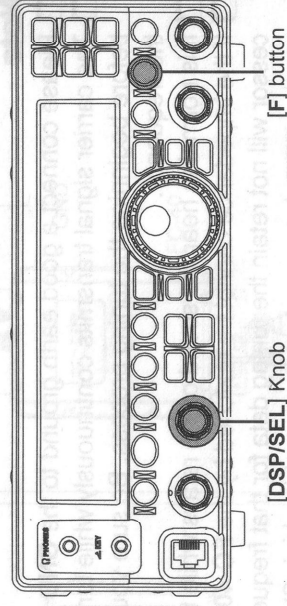
ATTENTION:

- ☐ Do not touch the cables or connectors with wet hands.
- ☐ Do not touch the cables or connectors when you transmit. There is danger of electric shock or other serious injury.
- ☐ It is not possible to use an ATU-450 or the FC-30 with an ATAS-120A at the same time.

Installation

Before operation can begin, you must instruct the FT-450's microprocessor that the ATAS-100/-120/-120A is being used. This is done using the Menu Mode:

1. Press and hold the [F] button for one second to enter the Menu Mode.
The "MENU" icon will appear in the display.
2. Rotate the [DSP/SEL] knob to select the Menu Item "TUNER".
3. Press the [DSP/SEL] knob to enable this selected Menu Item.
4. Rotate the [DSP/SEL] knob to change the setting to "ATAS".
5. Press and hold the [F] button for one second to return to normal operation.



Operation

AUTOMATIC TUNING

1. Press the [TUNE] button briefly to activate the Automatic Antenna Tuner.
The "TUNER" icon will appear in the display.
If the transceiver frequency is out of the amateur band, the "TUNER" icon will not appear.
If the antenna SWR is High (more than 1:2.0), the "V" icon will blink.
2. Press and hold the [TUNE] button for one second to begin automatic tuning. The transmitter will be engaged, and the "TUNER" icon will blink while tuning is in progress.
3. Tuning will stop automatically when a low SWR is achieved. You may Press and hold the [TUNE] button for one second while tuning is in progress, to cancel the automatic tuning.

