ACTIVE TUNING ANTENNA SYSTEM
ATAS-120A
INSTALLATION/OPERATING INSTRUCTIONS

The ATAS-120A is a unique mobile antenna designed for use with Yaesu the transceivers equipped for the ATAS system, such as the FT-897, FT-847, FT-857 and FT-100/-100D. The ATAS-120A utilizes a motorized tuning system which resonates the radiating element for lowest SWR without the need for expensive, inconvenient monoband resonating whip assemblies. The ATAS-120A is designed to mount directly onto a standard mobile antenna mount (not supplied) which is compatible with its Type “M” (“m/m pitch only”) base connector. Your Dealer will be pleased to help you select the ideal mobile mounting assembly for your vehicle.

Thank you for choosing exciting new ATAS-120A Active Tuning Antenna System. We hope and trust that you will enjoy many years of enjoyable mobile operation with the ATAS-120A!

**INSTALLATION**

1. Insert the top whip element through the hole in the waterproof cap.
2. Insert the whip element into the Antenna Coil assembly.
3. Slide the waterproof cap down the element and on to the Antenna Coil assembly.
4. Press the waterproof cap snugly on top of the Antenna Coil assembly, ensuring an accurate fit to the contours of the assembly.
5. Refer to the manufacturer’s instructions, and install the mounting base assembly in a location where a solid, secure ground connection to the car body can be obtained.

Note: Installation of the ATAS-120A on a hatchback or trunk lid may not permit a low SWR to be obtained. A solid bond to the car body is important so as to establish a counterpoise for the vertical radiating element.

6. Connect the coaxial cable from the mounting base to the transceiver’s HF antenna jack.
7. Refer to the transceiver’s operating manual, and set the transceiver’s Menu selections associated with the ATAS system.

For operation on the 144 and 430 MHz bands, in addition to HF/50 MHz, you may wish to consider the purchase of a “Duplexer” (for the FT-857, FT-897 and FT-100/-100D) or “Triplexer” (for the FT-847) device to connect to the appropriate transceiver’s antenna jacks; the Duplexer or Triplexer will then automatically pass RF power from the band in use while isolating the other two antenna jacks. If you do not have a Duplexer or Triplexer, the coaxial cable connector from the ATAS-120A will have to be moved manually to the appropriate antenna jack when you wish to operate on VHF or UHF.

**OPERATION**

See the “Operation” section of the transceiver’s operating manual for details of ATAS-120A tuning and operation.

**SPECIFICATIONS**

- **Frequency Range:** 7/14/21/28/50/144/430 MHz
- **Amateur Bands**
- **Height** (Approx.): 1.4 – 1.6 meters (4.59 – 5.24 feet)
- **Weight** (Approx.): 900 g (1.98 lbs.)
- **Input Impedance:** 50Ω
- **Max. Input Power:** 120 Watts (A3J)
- **Matched SWR:** Less than 2.0:1

(Specifications subject to change without notice or obligation)