

# α ALPHA ANTENNA®

## Remote Alpha Loop Kit

The Remote Alpha Loop Kit enables Alpha Loop Antenna systems, which were purchased after January 1, 2017, to be retrofitted with a remote tuning option. Not for permanent outdoor use. Please ensure that you have received the following parts: A. Cable, B. Power Supply, C. Remote, & D. Mount.



A. Cable



B. Power Supply



C. Remote

**Mount hole**



**Hole for the nylon (white) shaft of the capacitor.**



**Power Poles**

D. Mount

# **α ALPHA ANTENNA®**

## **Support Contacts**

If you have questions about your antenna, please feel free to email us at [alphaantenna@gmail.com](mailto:alphaantenna@gmail.com)

## **Installation Overview**

The custom Remote Alpha Loop Kit uses a Mount (D) that installs on an Alpha Loop after you use a couple of flat head screw drivers to loosen and then pry the tuning knob up and off.

## **Installation Description**

The Mount (D) is wired to a Remote (C), which enables remote tuning to occur. At the Mount (D), the cover is removed using a flat head screwdriver and an internal Coupler is used to connect the Nylon Shaft of the Variable Air Capacitor that is in the grey Alpha Match box to the internal Coupler. Once installed, the Power Supply (B) is attached to the Remote (C). A Cable (A) is then used to connect the Mount (D) to the Remote (C).

## **Step by Step Installation**

- 1) During and after installation, position the grey Alpha Match box so the tuning knob or remote is on top.
- 2) Loosen the two (2) screws that hold the black knob already on the box and slide it off the white nylon shaft.
  - If no screws are present then the black tuning knob can be pried off using two flat head screwdrivers.
- 3) Remove the lid on the Mount (D) using a flat head screwdriver, then loosen the two (2) hex screws located on the internal Coupler using a hex wrench. NOTE – You may need to power up the Remote to re-position the internal Coupler so you can more easily access the hex screws that are on the coupler.
- 4) Remove the silver tripod mounting nut that is installed on your loops X-Wing Backbone. Save this as you will use it to install the Mount.
- 5) While placing the internal Coupler over the nylon (white) shaft of the capacitor, simultaneously place the Mount hole (as depicted per 1a) over the hole where the silver tripod mounting nut was removed. Then reinstall the silver tripod mounting nut to hold the Mount in place.
- 6) Secure the internal Coupler by tightening the two hex nuts down upon the white nylon shaft.
- 7) Plug the Power Supply into your wall outlet and then into the Remote (C).
- 8) Connect/secure the Cable (A) from the Binding Posts on the Mount (D) at the antenna to the Binding Posts on the Remote (C).

## **Operation**

- The knob on the Remote (C) turns the power on/off and controls the speed of the Motor.
- The buttons on the Remote (C) are pressed to tune the Alpha Loop frequency up or down.
- It takes about 90 seconds for the tuner to cycle through the entire tuning range.

## **Tuning**

- The Remote (C) has a potentiometer that can be turned on and increase/decreased to control Motor speed. The switches on the Remote (C) can be used to move the Motor left or right. There is a clutch assembly in the variable air capacitor that keeps the gears from being stripped. Initial tuning is best observed on your rigs S-Meter and then tweaked by transmitting while adjusting for lowest SWR on your rigs internal. For easier tuning use an external SWR Meter or Antenna Analyzer.