



ALPHA ANTENNA Remote Alpha Loop Kit 2.2 User Manual

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ALPHA ANTENNA

ALPHA ANTENNA Remote Alpha Loop Kit 2.2



Product Information

The Remote Alpha Loop Kit 2.2 is designed to provide a remote tuning option for Alpha Loop Antenna systems. It is important to note that this kit is not suitable for permanent outdoor use. The kit includes the following parts:

- Remote
- Power Supply
- Cable
- Mount

In addition, for Loop antennas manufactured after 2022, the kit also includes:

- Mount installed on post-2022 Loop
- Screwdriver to remove the lid on the mount

Product Usage Instructions

Operation

- The knob on the Remote (A) controls the speed of the Motor, which is responsible for turning the Alpha Loop antenna.
- The buttons on the Remote (A) are used to tune the Alpha Loop frequency up or down.
- It takes approximately 90 seconds for the tuner to cycle through the entire tuning range.

Installation Overview

Install the Mount (D) onto the grey tuning box shown in Image E.

Detailed Installation Tuning

- The Remote (A) features a potentiometer that can be turned to adjust the Motor speed.
- The switches on the Remote (A) can be used to move the Motor left or right.
- The variable air capacitor in the system has a clutch assembly that prevents gear stripping.
- Initial tuning is best observed on your rig's S-Meter while receiving in SSB mode. You can then fine-tune the SWR by transmitting at your rig's lowest power and monitoring the SWR meter to achieve a dip.
- Optionally, you can use an external SWR Meter or Antenna Analyzer to assist with tuning.

Noise Floor

- If the remote's power supply is causing a higher-than-expected noise floor, try flipping the power supply over in the outlet to reduce the noise.
- To further lower the noise floor, turn the speed control knob on the Remote (A) to the far clockwise position.
- To eliminate any residual noise floor, connect the remote's power supply to a dedicated power strip and turn the power off once you have finished tuning the loop.

Power:

- When powering the remote, make sure to use only 12V DC at 1.5A with a 2.1mm X 5.5mm plug.
- If you have any questions about your antenna, please feel free to email us at alphaantenna@gmail.com.

WARNING! DO NOT USE UNAPPROVED POWER SOURCES

The Remote Alpha Loop Kit enables Alpha Loop Antenna systems to be fitted with a remote tuning option. Not for permanent outdoor use. Please ensure that you have received the following parts:

- Remote
- Power Supply
- Cable
- Mount



Operation

- The knob on the Remote (A) controls the speed of the Motor (e.g. tuning).
- The buttons on the Remote (A) 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.

Installation Overview

Install the Mount (D) onto the grey tuning box shown in Image E.

Detailed Installation

1. For loops with the black tuning knob installed, use 2 flat head screwdrivers to pry the knob off.
2. Remove the lid on the Mount (D) using a flat-head screwdriver shown in Image F.

3. 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 access the hex screws.

4. Remove the silver adapter on the bottom of the X-Wing backbone.
5. Insert the X-Wing where the nut was removed into the Mount (D) with some force till it is in place per Image E.
Do this while simultaneously placing the Coupler that is inside the Mount (d) over the “nylon (white) shaft of the capacitor”. Then secure the internal Coupler by tightening the two hex nuts down upon the white nylon shaft of the capacitor.
6. Re-install the silver adapter by screwing it back into place to hold the Mount (D) to the X-Wing.
7. Replace the cover on the Mount (D).
8. Plug the Power Supply (B) into the Remote (A) and then into a power strip that is on your desk.
9. Connect/secure the Cable (C) from the Binding Posts on the Mount (D) at the antenna to the Binding Posts on the Remote (A). **NOTE** – If the label on the lid is now upside down, feel free to flip the cover over.

Tuning

The Remote (A) has a potentiometer that can be turned to increase/decreased the Motor speed. The switches on the Remote (A) 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 rig's S-Meter while receiving in SSB mode. You can then tweak your SWR by transmitting at your rig's lowest power while watching your rig's SWR meter dip. You may optionally use an external SWR Meter or Antenna Analyzer to help with tuning.


Noise Floor

- If the remote (power supply) is causing a higher-than-expected noise floor, then flipping the power supply over in the outlet may help reduce the noise floor.
- To further lower the noise floor, you may turn the speed control knob to the far clockwise position.
- To eliminate any residual noise floor, you may put the remote's power supply on a dedicated power strip and turn the power off once you are done tuning the loop.

Power

- When powering the remote use only 12V DC at 1.5A with a 2.1mm X 5.5mm plug.
- If you have questions about your antenna, please feel free to email us at alphaantenna@gmail.com

Documents / Resources

	<p>ALPHA ANTENNA Remote Alpha Loop Kit 2.2 [pdf] User Manual 2.2, Remote Alpha Loop Kit 2.2, Remote Alpha Loop Kit, Alpha Loop Kit 2.2, Loop Kit 2.2</p>
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