



# ANTENNA EXPERTS

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AC-118-400

118-400 MHz.

2 dBi. Gain

## VHF/UHF AVIATION BAND OMNI-DIRECTIONAL ANTENNA - INSTALLATION MANUAL

### NOTICE:

Installation, maintenance or dismantling of the antenna system requires qualified and experienced personnel. Antenna Experts antenna Installation instructions have been prepared and are meant for skilled personnel only.

Antenna Experts disclaims any liability or responsibility as a result of improper or unsafe installation practices.

### MATERIALS:

Following materials are used for the fabrication of Antennas and its accessories.

|                            |   |
|----------------------------|---|
| 1. Radiating Elements:     | 6063T6 Aluminum                               |
| 2. Ground Radial Elements: | Powder Coated Aluminum with SS Studs          |
| 3. Ground Base:            | Brass with Nickel Chrome Finish               |
| 4. Mounting Pipe:          | Powder Coated Aluminum                        |
| 5. Fasteners:              | All Stainless Steel                           |
| 6. Connector:              | Silver Plated Brass body with Gold plated pin |
| 7. Insulator:              | Teflon  |
| 8. Enclosure:              | Fiberglass Tube                               |

### PACKING LIST:

| <u>Sl. No.</u> | <u>DESCRIPTION</u>                                       | <u>QUANTITY</u> |
|----------------|--|-----------------|
| 1.             | Ground Plane Body complete with Radiator & Support Pipe. | 1 Each.         |
| 2.             | Ground Plane Radials.                                    | Complete Set.   |
| 3.             | Mounting clamps complete with all accessories.           | 2 Nos.          |
| 4.             | Installation Manual.                                     | 1 Each.         |
| 5.             | VSWR Test Report.  | 1 Each.         |

### INSTALLATION INSTRUCTIONS:

1. Unpack the Aviation Band Omni-directional Antenna from the packing box.
2. Thread protecting cap is fixed at bottom of the antenna. Do not remove the cap now.
3. Antenna is supplied complete in assembled condition except the ground radials.
4. Connect all the Ground Radials to the Ground Plane Body.
5. Install the Aviation Band Antenna on the top of the mast by using the two supplied mounting clamps and tighten all nuts and bolts.
6. Remove the Thread protecting cap from the N-Female connector of the antenna.
7. Connect the N-Male connector of the RF coaxial cable to the N-Female termination of Aviation Band Omni-directional Antenna.
8. Secure the flexible RF coaxial cable with cable ties.
9. Seal the connector of the antenna with good sealing tape to protect the antenna from moisture ingress.
10. Make sure that the frequency of the Transmitter/Receiver should be within the frequency band marked on the antenna. Do not operate the antenna other than the specified frequency band of the antenna.
11. Take VSWR reading by using through-line RF Power meter. The VSWR should never increase 1:2
12. Keep the record of VSWR measurements for future reference.
13. Tighten all nuts and bolts.