



# ANTENNA EXPERTS

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AC5-312

225-400 MHz.

5.15 dBi. Gain

## UHF AVIATION BAND HIGH GAIN 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 Alloy                         |
| 2. Mounting Pipe:            | 6063T6 Aluminum Alloy                         |
| 3. Fasteners:                | All Marine Grade Stainless Steel              |
| 4. Connector:                | Silver Plated Brass body with Gold plated pin |
| 5. Insulator:                | Nylon   |
| 6. Enclosure of the Antenna: | ABS   |

### PACKING LIST:

<u>Sl. No.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1.	Antenna complete in assembled condition.	1 Each.
2.	Mounting clamps complete with all accessories.	2 Nos.
3.	Installation Manual.	1 Each.
4.	Test Report.	1 Each.

### INSTALLATION INSTRUCTIONS:

1. Thread protecting cap is fixed at bottom of the antenna. Do not remove the cap now.
2. Carefully and gentle handling is required to handle the antenna from top and bottom.
3. Don't put the antenna vertically on ground neither from N-Female connector side nor from the top side. Always hold and lay the antenna horizontally while preparing for installation.
4. Unpack the High Gain UHF Aviation Band Antenna from the packing box.
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. The N-Female termination of the antenna is provided at the bottom of antenna.
7. Remove the Thread protecting cap from the N-Female connector of the antenna.
8. Connect the N-Male connector of the coaxial cable to the N-Female termination of UHF Aviation Band Antenna.
9. Secure the RF coaxial cable with cable ties.
10. Seal the connector of the antenna with good sealing tape to protect the antenna from moisture ingress.
11. Take VSWR reading by using through-line RF Power meter. Keep the record of VSWR measurements for future reference.
12. Tighten all nuts and bolts.