



# ANTENNA EXPERTS

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Model AWD-118-400      118 – 400 MHz.      Unity Gain

## INSTALLATION MANUAL – AVIATION BAND DISCONE ANTENNA

### 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.

Radiating Elements Materials:	Brass
Cone Elements:	Brass
Disc Elements:	Brass
Mounting Pipe:	6063T6 Aluminum
Disc and Cone Hub:	Brass
Fasteners:	All Stainless Steel.
Connector:	Silver Plated Brass body with Gold plated pin.
Insulator:	Teflon.

### PACKING LIST:

<u>Sl. No.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1.	Ground Plane Body (Cone Hub) complete with Vertical Radiator, Disc Hub.	1 Each.
2.	Cone Elements (Longer).	8 Nos.
3.	Disc Elements (Smaller).	8 Nos.
4.	Mounting Pipe.	1 Each.
5.	Mounting clamps complete with all accessories.	2 Nos.
6.	Installation Instruction.	1 Each.
7.	Test Report.	1 Each.

## INSTALLATION INSTRUCTIONS

1. Unpack the Discone Antenna from the packing box.
2. Connect the 8 Cone Longer Elements to the Ground Plane Body (Cone Hub).
3. Now connect the 8 Disc Smaller Elements to the Disc Hub.
4. Insert the mounting pipe into the coaxial cable, taking care that the threaded portion of the mounting pipe should face up-word.
5. Connect the N-Male connector of the coaxial cable to the N-Female termination of Discone Antenna.
6. Assemble the mounting pipe to the Ground Plane Body (Cone Hub), by using external threads on the Body and internal threads on the mounting pipe.
7. Install the Discone Antenna on the top of the mast by using the two supplied mounting clamps and tighten all nuts and bolts .
8. Secure the flexible coaxial cable with cable ties.
9. Take VSWR reading by using through-line RF Power meter.
10. Keep the record of VSWR measurements for future reference.
- 11 Tighten all nuts and bolts.