ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

Model AY-128 117 – 137 MHz. 11dBi. Gain

VHF AVIATION BAND DIRECTIONAL YAGI ANTENNA - INSTALLATION MANUAL

NOTICE:

Installation, maintenance or dismounting 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.

Yagi Boom and Elements:	6063T6 Aluminum.
Mounting Hardware:	All Stainless Steel.
Fasteners:	All Stainless Steel.
Connector:	Silver Plated Brass body with Gold plated pin.
Insulator:	TEFLON.
Feed Housing:	NYLON

PACKING LIST:

Sl. No.	Item/Descriptions	Quantity
1.	Main Boom (Square Section).	1 Each.
2.	Reflector Element.	1 Each.
3.	Dipole complete with feed.	1 Each
4.	Directors # 1 to 3.	3 Nos.
5.	Mounting Clamp fitted on the square boom.	1 Each.
6.	Installation Instructions.	1 Each.
7.	Test Report.	1 Each.

INSTALLATION INSTRUCTIONS:

1. Unpack the VHF Aviation Band Yagi antenna from the packing box.
2. On visual inspection of the square boom and each element, the marked position of each element with corresponding positions on the boom can be seen.
3. Assemble the yagi antenna by securing Reflector, Dipole and Three Directors on the square boom with supplied Nuts-Bolts, as per the markings.
4. Mount the Dipole with Feed on the boom by observing the " This Side UP" for Vertical Polarization on the boom, and facing the N-Female Connector pointing towards parasitic yagi reflector. For Horizontal polarization, ignore " This Side Up".
5. Make sure to tighten all nuts and bolts of each element.
6. Mounting clamp is fitted on the square boom, behind the Reflector and supplied for Vertical polarization.
7. Rotating the mounting clamps 90 degrees can change plane of polarization.
8. Install the Yagi antenna on 51mm outer diameter round pipe by using two "U" type bolt of mounting clamp.
9. Use a flexible coaxial cable, to connect the N-Female termination of the antenna and run it along the boom and secure it with cable tie. Never allow the coaxial cable to run between the Antenna elements.
10. Seal the connector against moisture ingress with a sealing tape.
11. Take SWR reading by using a through-line RF Power meter. The SWR should never exceed 1:1.5.
12. Keep the record of SWR measurements for future reference.
13. Carefully align the antenna in desired direction to obtain maximum signal strength.
14. Tighten all nuts and bolts.