



ANTENNA EXPERTS

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Model AY-75 66 – 88 MHz. 10dBi Gain

INSTALLATION MANUAL – YAGI ANTENNA

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.
Housing:	NYLON

PACKING LIST:

<u>Sl. No.</u>	<u>Item/Description</u>	<u>Quantity</u>
01.	Main Boom (Square Section).	1 Each.
02.	Reflector Element.	1 Each.
03.	Dipole complete with feed.	1 Each
04.	Directors # 1.	1 Each.
05.	Directors # 2.	1 Each.
06.	Mounting Clamp fitted on the square boom.	1 Each.
07.	Installation Instructions.	1 Each.
08.	Test Report.	1 Each.

INSTALLATION INSTRUCTIONS:

1. Unpack the 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 two Directors on the square boom with supplied Nuts-Bolts, as per the markings and make sure that all the elements of yagi antenna are parallel to each other's.
4. Make sure that the N-female connector is facing in direction of radiation pointing towards mounting clamp.
5. Tighten all nuts and bolts of each element.
6. Mounting clamp is fitted on the square boom, between the Dipole and the Director #1, and supplied for Horizontal polarization.
7. Install the Yagi antenna on the top of 2 Inches O.D. round pipe by using two large size "U" type bolts of mounting clamp.
8. Connect the N-Male connector of the coaxial cable, to the N-Female termination of the antenna and run it along the boom & then over the mounting pipe and secure it with the cable ties. Never allow the coaxial cable to hang between the Antenna elements.
9. Seal the connector against moisture ingress with a sealing tape.
10. Take VSWR reading by using a through-line RF Power meter. The VSWR should never exceed 1:1.5.
11. Keep the record of VSWR measurements for future reference.
12. **Carefully align the antenna in desired direction to obtain maximum signal strength.**
13. Tighten all nuts and bolts.