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AVT-4
VHF Communications Blade Antenna for General Aviation

Frequency Range: 118-137 MHz

Installation Instructions

1.) Metal Skin Aircraft

Determine the desired mounting location on the aircraft. Keep in mind that the antenna should be located at least two feet away from other antennas and reflective surfaces on the airframe (e.g., vertical stabilizer, landing gear, etc.). A good electrical connection must exist between the antenna mounting hardware and the metal frame or skin of the aircraft.

2.) Composite or Wood Aircraft

Determine the desired mounting location using the guidelines discussed above. Create a "ground plane" on the inside of the aircraft skin by preparing (2) 48 inch long light gage copper wires perpendicular to each other and intersecting at their mid point (forming an X). Strip away insulation at this intersection if using insulated wire. Locate this on the inside of the aircraft skin where the antenna will be mounted externally. Run the wires forward, aft and side to side along the inside wall and secure in place. Attach the (X) intersecting point to one of the antenna's mounting bolts, making a good

electrical connection. This concept is similar to a communications antenna which you would see at an airport terminal building; a vertical radiator with (4) ground plane "radials" equally spaced around the base.

- 3.) Using the mounting template provided, drill four mounting holes and one for the connector.
- 4.) Mount the antenna by placing the rubber gasket provided between the antenna base and aircraft skin. Insert hardware provided as shown below and tighten all mounting screws securely to provide good electrical contact.
- 5.) Connect the antenna to the aircraft radio using an RG-58/U or similar 50 ohm coax cable with a BNC type male connector attached to the antenna end of the cable (not supplied).
- 6.) No tuning of this antenna is required.

