

ANTENNAS

BOB ARCHER AIRCRAFT ANTENNAS

These antennas have been designed by Bob Archer from Torrance, CA utilizing concepts common to military aircraft and space vehicles. The antenna performance is superior to most in use today in private aircraft. The only requirement for max. performance is that the antennas must be installed in accordance with the installation instructions. These antennas are designed to be installed inside fiberglass or other non-conductive wing tips or tail caps of metal or other conductive material aircraft.

SPORT AIRCRAFT ANTENNAS



MODEL 1A

This Wing Tip Com Antenna is designed to fit inside larger fiberglass wing tips on metal (conductive that is) airplanes such as T-18's, RV's Bonanzas etc. But tuned out for the Com Band.

The wing tips must have internal dimensions of at least 11"x24" and generally fit better on the bottom surface. The VSWR is normally less than 2.0:1 over a frequency band of 108 to 127 Mhz but could be higher due to installation factors. Offered because of pressure from RV builders. Users report good communications at ranges greater than 50 miles. Should be installed so that the maximum height of the tip is utilized to get the most vertical polarization.

Left Side.....P/N 11-21016-1
Right Side.....P/N 11-21016-2



MODEL 2

Tail cap Com antenna for metal (conductive) airplanes installed inside a tail top fiberglass fairing with inside dimensions of at least 10" high x 12" long. VSWR is normally less than 2.0:1 over a COM frequency band of 118 to 136 Mhz.....P/N 11-21020



MODEL 4

Wing tip VOR antenna designed for smaller tips with a 10 degree flare on the top portion and a curled aft portion. VSWR less than 2.0:1 over the frequency band of 108 to 118Mhz.

Right Side.....P/N 11-21025-1
Left Side.....P/N 11-21025-2

STAINLESS VHF ANTENNAS FOR HOMEBUILTS



These VHF antennas are stainless steel including all hardware. Insulators are made of Delrin, which resists extreme cold or high temperatures and is non-breakable. Antennas are available in straight and 45° or 90° angles. 118-136 mHz range.

Weight: 3 oz. Not FAA approved.

Straight.....P/N 11-04516.....45° P/N 11-04517
Transponder...P/N 11-02759.....90° P/N 11-00648

RED TAIL AIRBAND ANTENNA



Bent (bottom) Airband Whip Antenna. Non-TSO'd for Experimental aircraft. Delta Pop Aviation Red Tail™ Antennas are the best non-TSO'd antennas we have found, with performance as good as the best TSO'd units. Frequency - 118 to 137 MHz. VSWR - Less than 2.5:1 Measured

with Anritsu Antenna Analyzer. Polarization - Vertical. Impedance - 50 Ohms. Connector - BNC Female. Element - Tapered Aluminum UV Resistant Powder Coated. Configuration - DC Grounded To Reduce "P" Static. Mounting - 8-32 x .437" long threaded studs. Weight - 6.5 oz / 184 grams. Finish - White Polyurethane.

Bent (Bottom).....P/N 11-13829
Straight (Top).....P/N 11-13828

RED TAIL TRANSPONDER ANTENNA



Streamlined Transponder Antenna. Non-TSO'd for Experimental aircraft. The Delta Pop Aviation streamlined transponder Antennas are the best non-TSO'd antennas we have found, and they offer a low drag solution at a good price. Frequency - 1030 to 1090 MHz. VSWR - Less than 1.2:1 Measured with Anritsu Antenna Analyzer. Polarization - Vertical. Impedance - 50 Ohms. Connector - BNC Female. Mounting - 8-32 x .437" long threaded studs. Weight - 2.6 oz / 74 grams. Finish - White Polyurethane.....P/N 11-13830

WSI WEATHER/SIRIUS RADIO ANTENNA



Operates with all new WSI InFlight® capable receivers. The antenna receives Sirius Satellite Radio broadcasts to enable the WSI weather service. It was designed specifically to suppress interference from ground based signals. Its proprietary design allows for optimum performance while the aircraft is turning. The antenna has been thoroughly tested and meets all of the RTCA DO-160E requirements P/N 11-05937

ANTENNAS FOR COMPOSITE AIRCRAFT



MODEL 6

This com antenna is designed to be installed on the inside surface of the aft fuselage of composite and wood aircraft. It is a dipole that is folded up to minimize the vertical dimension and requires 12" of fore and aft space and 26.5" vertically. It is designed with flexibility so it can match the internal curvature of the fuselage. The VSWR is less than 2:1 across the com frequency band.....P/N 11-21000



MODELS 7 & 8

These antennas are essentially the same with the exception of the overall length and the matching devices with the com antenna being installed vertically and the nav antenna being installed horizontally. VSWR is less than 2:1 over their respective frequency bands. The outer ends of these antennas may be swept to +/-30° to facilitate installation in various aircraft types.

NAV Antenna Model 7.....P/N 11-21030
COM Antenna Model 8.....P/N 11-21035

ARCHER MARKER BEACON ANTENNA



Marker Beacon antenna kit. Consists of 40" of copper tape (1/4 wave length) and enough coax cable for most installations in fuselage area, plus hardware. Works fine in glass wing tips and fuselages or wing to fuselage gap seals.P/N 11-14517

NOTE: When ordering wing tip antennas, order antennas with -1 suffix if installing on the bottom inside surface of a left hand tip or upper inside surface of a right hand tip. Order antennas with a -2 suffix if installing on the inside lower surface of a right hand tip or the upper inside surface of a left hand tip. Wing tip Com antennas should be installed only on lower inside surfaces.

ANTENNA WIRE

COAXIAL CABLE - RG-58U - Tinned copper conductor, solid polyethylene dielectric. Standard cable for radio installations. For experimental aircraft only.....P/N 11-04258/ft

TYPE RG-400U - Tinned copper conductor, PVC Type IIA jacket. FAA approved for certificated aircraft.....P/N 11-09202/ft

Bulk Pricing Available.

BNC COAXIAL ANTENNA CONNECTORS FOR RG-58U CABLE



Male.....P/N 11-03992
Female.....P/N 11-03993

BNC COAXIAL ANTENNA CONNECTORS FOR RG-400U CABLE

Male.....P/N 11-01802
Female.....P/N 11-01803

ANTENNA INSULATORS



(1) Feed-Thru Insulator for lead-in wire from fixed antenna. Type 4125. 10-32 threads, 3" length tip to tip, 1-9/16" casingP/N 11-10500

(2) Strain Insulator for receiver antenna.
P/N 1463



TED TRANSPONDER ANTENNA

This monopole transponder/DME antenna meets the same specifications and is a direct replacement for the CI-101 and AV-22 antennas. Exceptional performance and value.....P/N 11-17995

AVIATION BAND TRANSMIT/RECEIVE ANTENNA

For FBOs and other airport facilities, this Air Band antenna is designed to operate on the 108 to 137 MHz band. Transmit power of up to 75 Watts. The antenna base will accept either a BNC or PL-259 connector (adapter included, no coax included). Mast mount works with mast diameters of up to 3 inches. Weatherproof design. Length: 48". For best results, mount the antenna as high as possible and away from nearby structures.
P/N 11-19796



COPPER ANTENNA FOIL TAPE 3/8"

Used as an antenna ground in composite aircraft.
P/N 11-12900



TORROIDS (FERRITE BEADS)

Used in our quickie antenna kit for composite aircraft.
P/N 11-09900

AV