

A-GPU

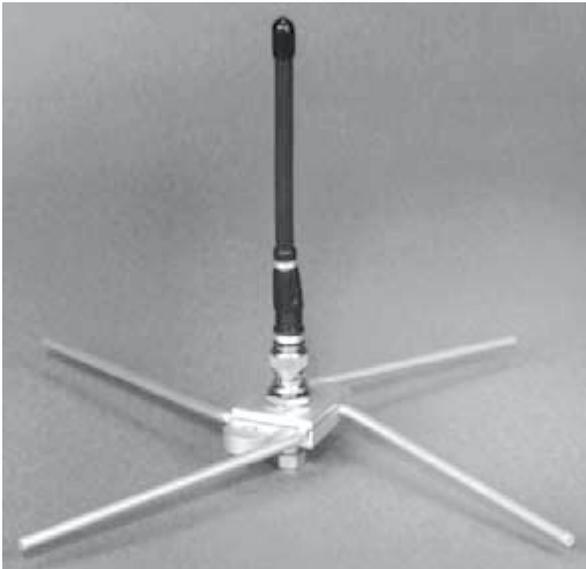
Preliminary Instructions

Ground Plane Antenna

The A-GPU antenna is equal in gain to a dipole antenna. It is normally mounted in a vertical orientation in a central location to receive signals from all directions perpendicular to the active whip antenna. Mounting ears are provided on the baseplate for attachment to a mast or on a flat surface.

The antenna should be connected to receiving equipment with low loss coaxial cable and a standard BNC connector. The radial elements can be used perpendicular to the active whip element, or angled downward, depending upon the mounting chosen. The base and radial elements are finished with a conductive alodine coating to minimize corrosion and provide a good electrical contact for some mounting configurations.

The flexible whip element should be perpendicular to any metallic surface that is within 18 inches of it



Mounted on a flat surface...

The A-GPU is factory assembled with the elements perpendicular to the flexible whip element for ease of packing and shipping. In this configuration, the antenna can be positioned with the radials close to, or in contact with any type of surface, as long as the surface is perpendicular to the flexible whip element.

If the radial elements contact a metal surface, they should either make solid electrical contact, or be insulated, since intermittent contact will cause noise.

A typical application for this configuration would be mounted on the ceiling of a room with the active whip element pointed downward.

Suspended in "free air"...

Used in free air, the A-GPU can be elevated to optimize operating range. In this position the radial elements should be angled downward to provide an ideal impedance match. Two mounting ears on the baseplate permit clamping or bolting the antenna in place.

To re-position the radial elements, loosen the nut on the BNC connector enough to free the elements. Remove the elements and note the flattened sides on each element. Reinsert them, aligning the flattened side of the elements with the flat plate so that they angle downward. Tighten the nut to clamp the radial elements in position. Do not overtighten the nut as the connector can be damaged.

When a mast is used to mount or elevate the antenna, the end of the mast should not protrude above the mounting ears.



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