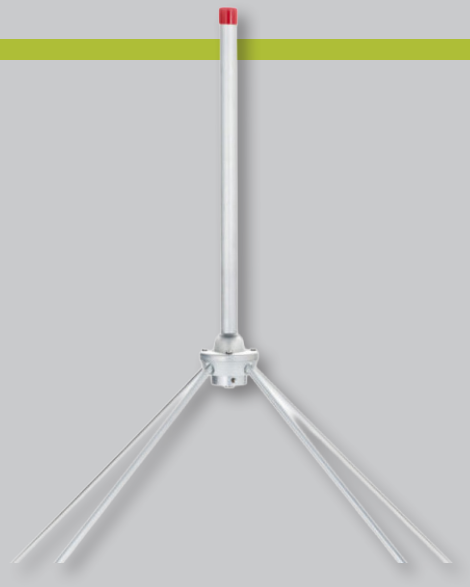
AV-1

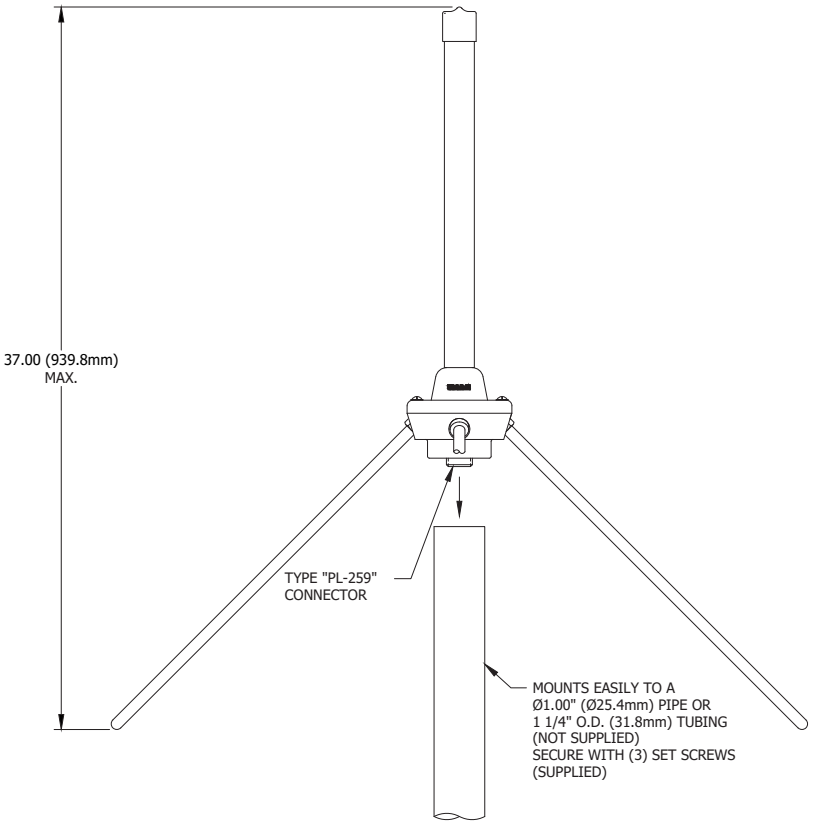
VHF Communications Base Station

The AV-1 is a base station antenna for comminucations with ground vehicles or aircraft. It has heavy-duty construction with 3/8” diameter aluminum radials and a 1” diameter aluminum tube radiator. These elements are treated with a “hexavalent free” passivation process per MIL-81706 and MIL-5541 for superior durability. It mounts easily to a 1” diameter pipe or a 1-1/4” O.D. tube with locking set screws. A built-in gap-type lighting arrestor is an important design feature. The antenna requires no additional tuning and is designed to withstand windspeeds of up 100 mph.



Product Specifications

Application	VHF Communications - Base Station
Frequency	118-137 MHz
Impedance	50 Ohms Nominal
VSWR	2.0:1 Maximum
Polarization	Vertical
Pattern	Omni-Directional
Connector	SO-239
RF Power Handling	500 Watts



Mechanical Specifications

Max. Height	37.00"	939.80 mm
Max. Weight	2.75 lbs	0.23 kg

AV- 1 ASSEMBLY INSTRUCTIONS
VHF Communications Antenna for General Aviation

Frequency Range: 118-137 MHz

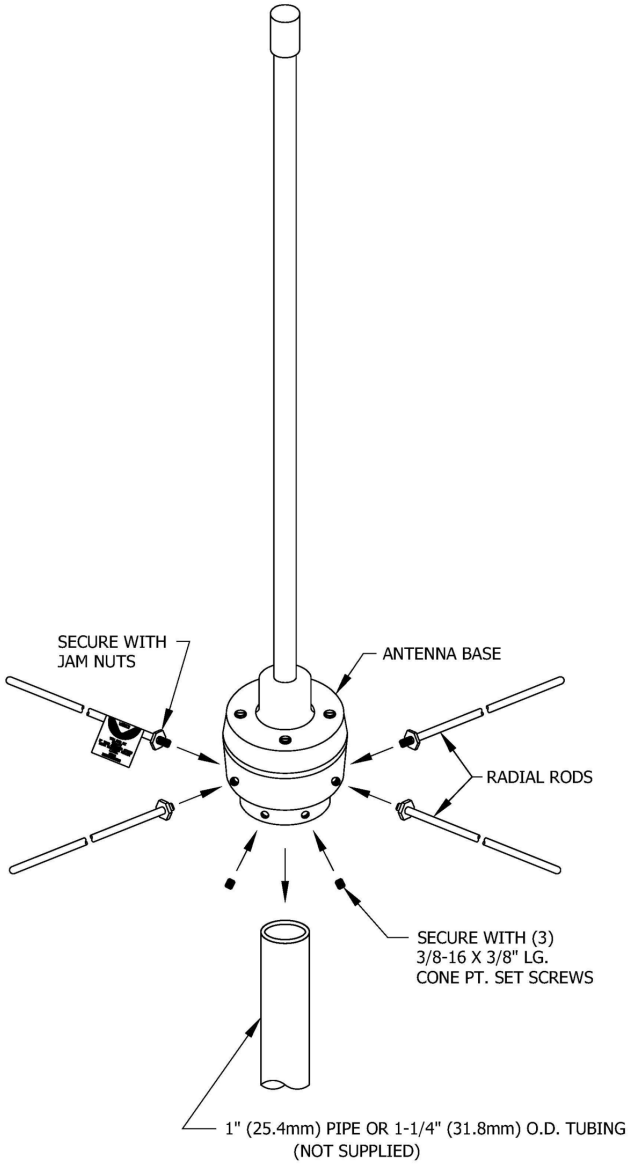
Heavy duty ground plane vertically polarized antenna for use in communications with ground vehicles or aircraft.
This model covers the band from:

- 118-130 MHz with a VSWR of better than1.5 to 1.0
- 118-137 MHz with a VSWR of better than 2.0 to 1.0

Construction: Heavy duty with 3/8” aluminum radial rods, 1” aluminum tube radiator, 1000 watts maximum power. Withstands 100 mph winds. Mounts easily with locking set screws on a 1” pipe or 1 ¼ O.D. tube. Accepts a PL-259 connector, irridite treated for durability. No tuning is required.

ASSEMBLY INSTRUCTIONS

1. Apply the synthetic lubricant provided to the threads of the (4) radial rods provided prior to assembly. This will protect from weather and ease future disassembly.
2. Thread the (4) radial rods into the antenna base and secure with jam nuts. (See Illustration)
3. Slide the antenna base onto a 1” pipe or 1 ¼” O.D. tubing (not supplied) and secure with (3) cone point set screws provided. (See Illustration)
4. Attach “DANGER” label provided to a plainly visible part of the base or the supporting structure.



Doc. #27-3180-1
Rev.: B, June 2008