INSTALLATION INSTRUCTIONS

LOW BAND ANTENNA

35.0 MHz AND BELOW

NOTE: FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS WILL VOID ALL WARRANTIES.

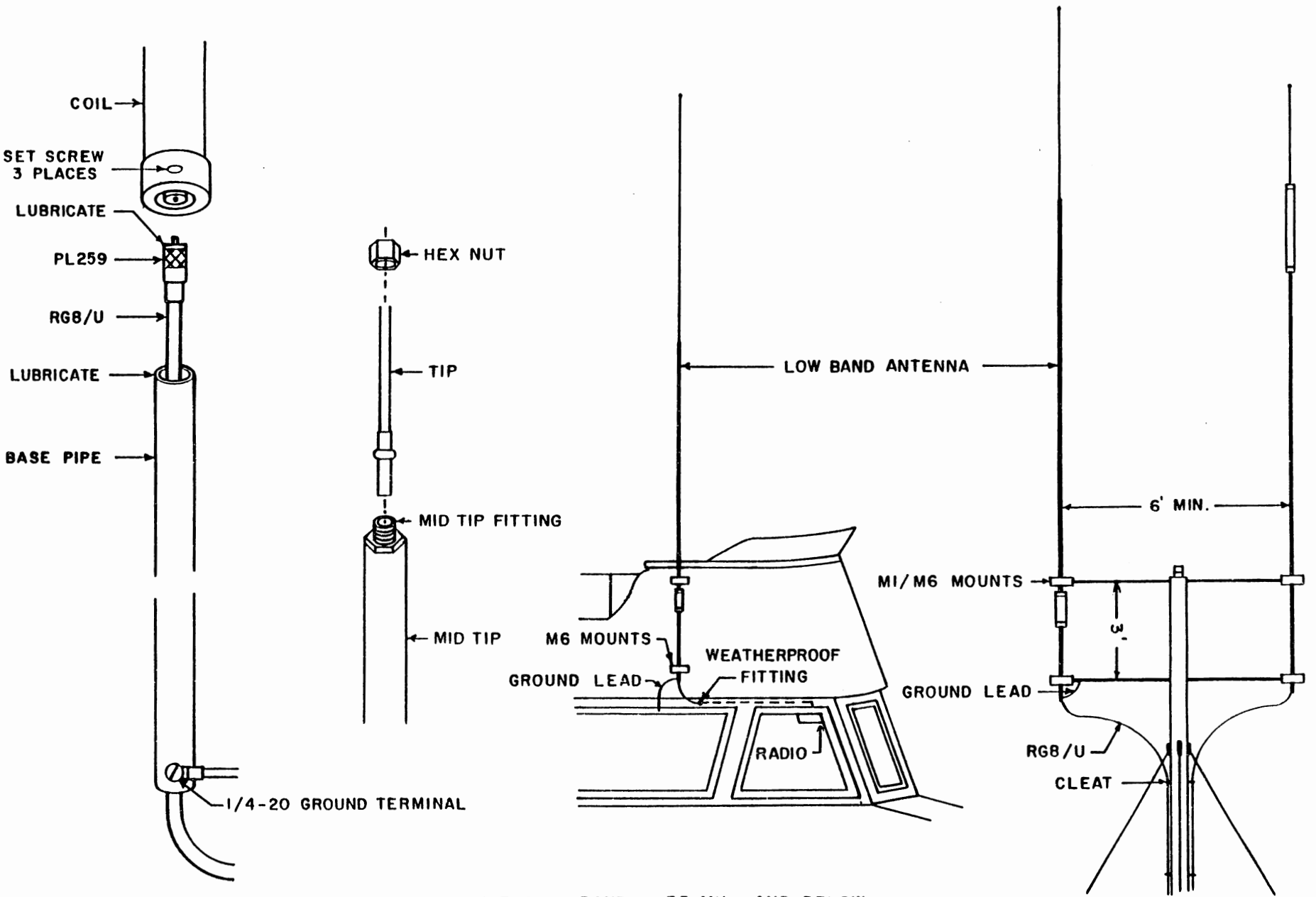
After removing antenna and base pipe from cartons, remove white fiberglass tip from base pipe. Insert tip, butt end first, into mid tip fitting (see drawing) and secure firmly with large nickel plated hex nut, using two wrenches. Failure to tighten properly may result in water damage.

Install mounting brackets so that the antenna will be in a vertical position and will clear all guy wires, stays, and other antennas by at least 6 feet. To insure stability of antenna when mounted on mast, or on side of flying bridge or pilot house, mounting brackets must be installed so that one mount is below coil and one above with a minimum spread of 3 feet (see drawing).

If mast is made of metal, coil assembly must be above mast or installed with stand-off brackets so that the antenna is mounted at least 10 inches out, away from the mast. Also, the base of the antenna should not parallel the mast for more than 3 feet. This will prevent the coil assembly from being de-tuned due to close proximity to metal mast.

It has been found in some installations that the S.W.R. may exceed a 2-to-1 ratio. Grounding the base pipe to the metal support bracket, metal mast or metal window frame will tend to reduce the S.W.R. The length of the ground lead should not exceed 3 feet (see drawing). On installations where the S.W.R. is not excessive, no ground is required.

Feed the RG-8/U transmission line, fitted with the PL259 coax plug, up through the base pipe and connect firmly to the bottom of the coil. Slide coil down over the top of base pipe until well seated, then tighten the 3 set screws. A good lubricant such as silicone grease should be used on both the base pipe and the PL259 coax plug.



VHF LOW BAND — 35 MHz AND BELOW

Morad Antenna Company
909 Squalicum Way, #106 • Bellingham, WA • 98225
(206) 789-2525 • Sales@Morad.com

World's Toughest Antennas

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It has been found in some installations that the SWR may exceed a 2-to-1 ratio. Grounding the base pipe to the metal support bracket, metal mast or metal window frame will tend to reduce the SWR. The length of the ground lead should not exceed three feet (see drawing). On installations where the SWR is not excessive, no ground is required.

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ANTENNA MODELS WITH FIBERGLASS TIPS
When installing fiberglass tip on coil, be sure to tighten locking nut as tight as possible. This will prevent tip from vibrating loose and allowing water to get inside coil causing damage to antenna.

ANTENNA MODELS WITH STAINLESS STEEL TIPS
Insert tip to theoretical mark (black ring) and tighten lock nut only enough to keep tip from sliding. Tip may then be adjusted in or out to obtain optimum S.W.R.
After adjustment has been made, using two 10" wrenches, tighten lock nut one more FULL turn. Improper tightening will allow tip to vibrate loose and may cause permanent water damage to coil assembly.
USE NO LUBRICANT!

VHF LOWBAND ANTENNAS

The Morad VHF Lowband Antenna is a full half-wave groundless antenna that provides exceptional performance. A low angle of radiation and minimum resistive losses assure maximum range. The extremely low loss-matching transformer assures excellent standing wave ratios and provides a bandwidth of approximately 3 MHz (the actual bandwidth figures will vary with frequency and installation).

The matching transformer includes an SO239 style connector providing the end user flexibility in selecting a coaxial interface cable. The antenna is constructed using 1" diameter aluminum pipe above and below the matching transformer, with a 7 foot fiberglass tip. All antennas tuned above 30.9 MHz can be shipped via UPS.

SPECIFICATIONS

Electrical

Power Rating	100 Watts
Input Impedance	50 Ohms
Radiation Pattern	Omnidirectional
Operating Frequency Range	25 - 54 MHz

Mechanical

Wind Survival (when properly installed)	100 MPH
Height	13 - 18 Feet (depending on frequency)
Weight	Approximately 10 lbs.