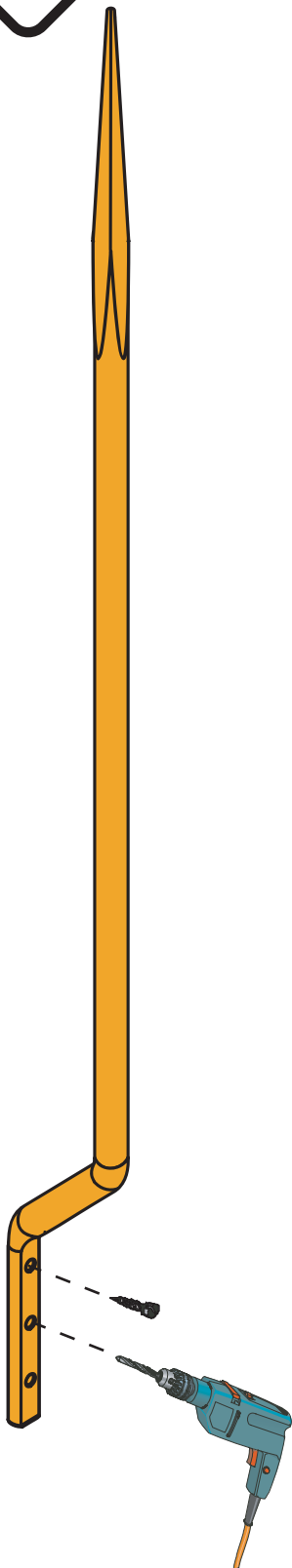


# SEYLA Marine LRAT-36 Lightning air terminal for Aluminium masts.



## Installation Instructions

- 1) Locate a flat area at the top of the mast. The LRAT Air terminal should be installed with the top screw approximately 2-3 inches below the top cap of the mast. It should be on the flattest side of the mast.
- 2) Clean the surface of the mast with an alcohol based cleaner to remove any oil, grease or impurities, which may scratch the mast under the plate and cause corrosion.
- 3) Mark the location of the three screw holes onto the mast by placing the air terminal screw holes vertically on the area you have selected and with a center punch, scratch awl, or felt marker mark the location of the screw holes.
- 4) Drill the first hole (Bottom or top) at the hole location with a 9/64 inches drill bit. Coat the screw threads with Lanakote, Duralak, Never-Seez, Permatex, or Loctite Marine Grade Anti-seize. These products will help prevent any corrosion between the stainless steel screws and the exposed aluminum from the hole in the mast.
- 5) Rotate the terminal to the side and drill the other holes on the marked points. Once the holes are drilled, fasten the air terminal with the provided screws, coating them with the above-mentioned products before assembly.
- 6) The screws are a marine grade 316 stainless steel and as such the metal is not hardened to prevent rusting. Do not over-torque the screws as the heads may snap off. Should this occur, you will need to drill the screws out and use replacement 316 stainless steel screws of the same size ie: No. 10 screws  $\frac{3}{4}$  inches long which can be obtained from any marina or marine service center
- 7) Once the terminal is fastened, apply a continuous bead of 3m 4200 or 5200 sealer all around the plate to seal off the gap between the plate and the mast and around the screw heads.  
This sealer should be periodically checked to ensure it is not cracked.  
If it is torn off or missing, just replace it with the rest of the sealer or a similar marine grade sealer.  
This particular sealer can be located in any marine supply store or marina.

The LRAT air terminal is made of a highly conductive material and is there to take a direct lightning strike. The LRAT is the sacrificial point where lightning attachment will take place. The LRAT is only effective when the mast is properly grounded. It should ideally extend at least 6 inches higher than any antenna or mast mounted equipment. Preferably, all antennas and radars etc. should be mounted at a lower point on the mast or at the rear of the boat on an arch.