

**Lannabo**  
radio ab



# Vertikal Dipol Assembly Instructions

2012.07

## Installation

Start install 14-MHz element on centre insulator. Note colour markings. Do not forget to install the most lower ring for guy-wires and two large hose-clamps before clevis pins (stud-bolts) with M8 nuts are fitted. (Picture 1).

**Do not tighten nuts too hard or you might damage tubes.**

Install all insulators. Note that insulators fitted in ends with M5 screws (8 pieces), must be located close to centre insulator. No tools should be used or insulators might be damaged. (Picture 2).

Install all dipoles according to picture.

**Note that coaxial cable should be connected to 21-MHz dipole (3345 mm).**

All aluminium jumpers are attached to dipoles. Longest parts of jumper towards 10 mm tubes. Two aluminium jumpers with 4.2 mm drilled holes are intended for feeding 21-MHz dipole. Do not overtighten stainless hose-clamps.

**Note that end of elements should be aligned with bend of jumper, i.e. in the same plane or level.**

Dipole resonance can slightly be changed by adjusting positions of tubes towards aluminium jumpers. Ref. to Picture 3.

Upper most ring for guy-wire is trained over tube to rest against upper-most insulators. Ref to Picture 4.

Train (place) coaxial cable thru hole in centre insulator. Solder lugs to ends of cable. Make sure ends are of equal length, approx. 4 cm (1.6"). Sheath of coaxial cable must be installed down-wards. Centre conductor up-wards.

**Important! Seal cable end with Silicone Compound. Coaxial cable is attached (tied) to one of the lower guy-wires. Use black cable-ties.**

Note that coaxial feedline should be installed approx. 45 degrees from antenna radiating elements.

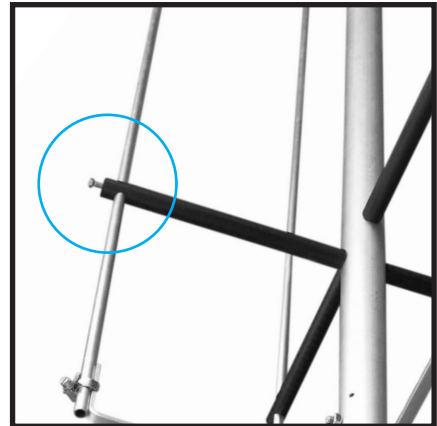
- Guy-wires should be attached to structure at two different levels. Use non-conductive and UV-resistance material for guy-wires.
- Bottom (base) antenna insulator should be installed approx. 1 meter (3.5') above ground.
- Antenna is specified for same amount of power level as coaxial cable feeding the array.



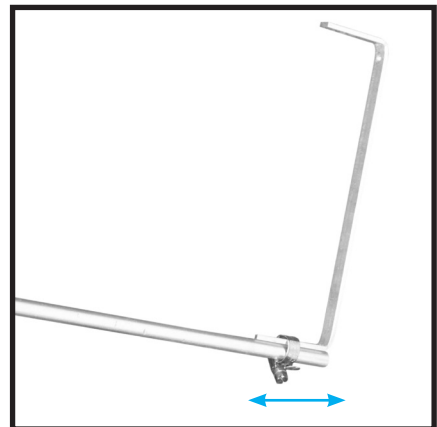
Warning! End of dipoles will exhibit very high tension. Do not touch any part of antenna during operation.



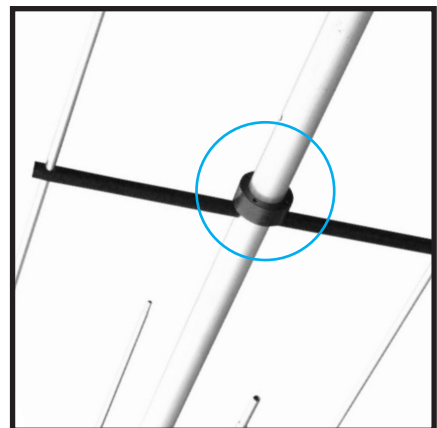
1. Centre Insulator



2. Ends of plastic spacers fitted with M5 screws.

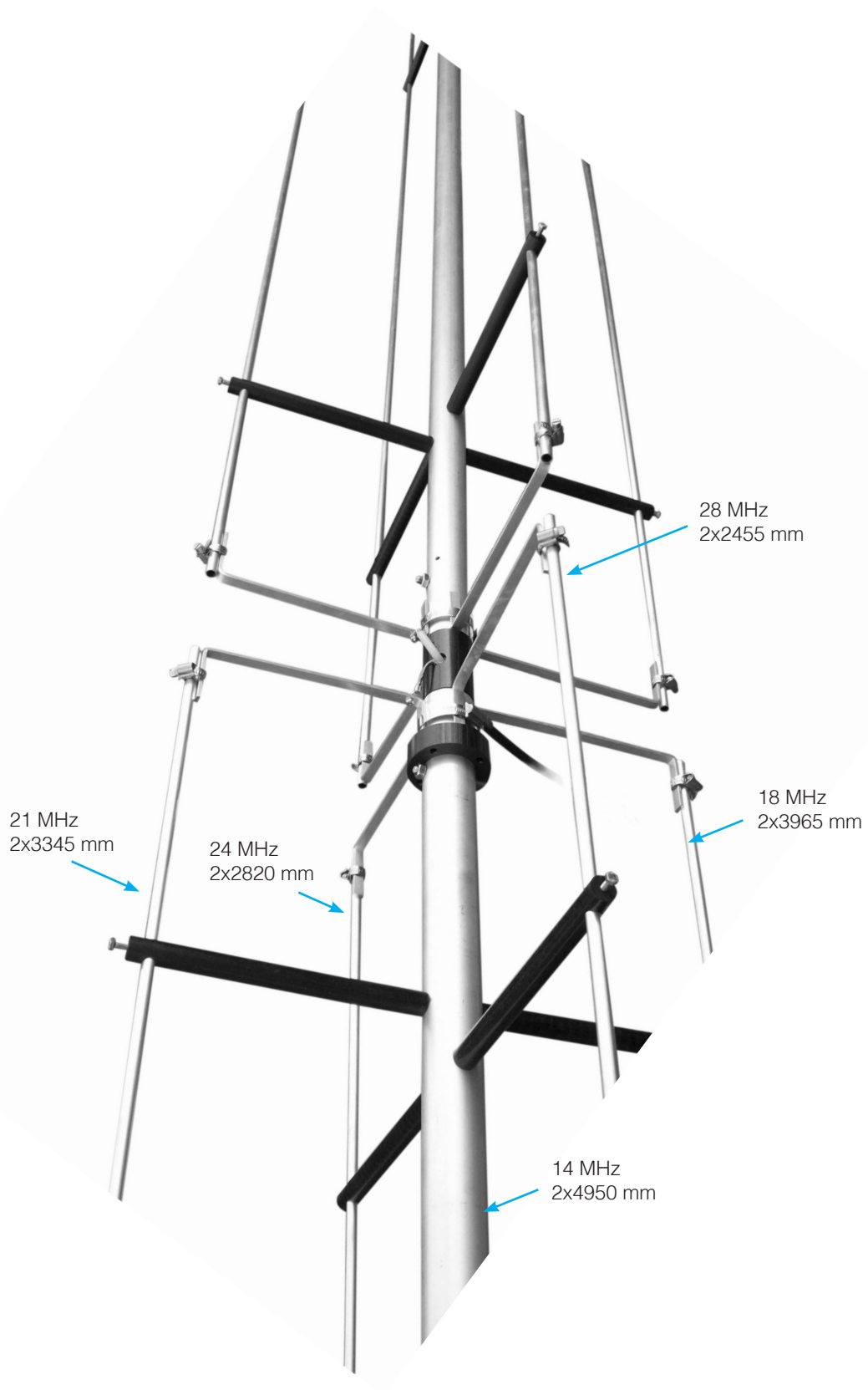


3. Adjust individual dipole position towards aluminium jumper.



4. Plastic ring resting against upper most plastic spacers.

# Overview



# Diagram

Diagrams are displaying radiation patterns on:  
 14.15-MHz 18.12-MHz 21.2-MHz 24.93-MHz  
 and 28.5-MHz.

