

GENERAL INFORMATION

Since mounting locations and surfaces will vary, Alpha does not provide the mounting bolts or associated hardware required to properly install this unit. It is the responsibility of qualified personnel to determine the best method for securely anchoring the base plate of the antenna onto the mounting surface. This antenna unit should only be installed by professionally trained antenna/tower installation personnel

HANDLING PRECAUTIONS AND SAFETY

After unpacking the antenna unit, leave the antenna in its VERTICAL position. DO NOT touch the white radome (fragile). The Antenna can be lifted into the vertical position by lifting the metal top cap. Alternatively the M20 bolt in the top cap can be replaced by an M20 eyebolt rated to lift 150kg or over. The eyebolt can then be used to lift the antenna into the vertical position. The antenna can be carefully laid horizontally on a flat surface such that the top cap supports the weight and the radome does not contact the ground. On opening carefully inspect the antenna unit to ensure there is no shipping damage.

The RF connectors in the access hatch of the antenna unit for mating to the coaxial cables at the top of the tower.

Prior to lifting the antenna unit, make sure the eye bolt is fully engaged and securely tightened into the pole structure. DO NOT attempt to lift the antenna unit by gripping the outside surfaces. The outside surface is not designed to support the weight of the antenna unit. Applying excessive pressure to the outside surfaces can cause damage to the antenna. If not using an eyebolt to lift the radome into position the antenna should be hand lifted into place and fitted to the pole prior to the pole being hoisted into its vertical position. While hoisting the pole into position the antenna should never be used to lift the pole-antenna assembly.

NEVER STAND ON or use the antenna unit to support the weight of one's self during installation. This antenna unit is not designed to support additional external weight. Doing so can result in bodily injury or damage to the internal antennas. This antenna should only be installed by professionally trained antenna/tower installation personnel. The Antenna Pole assembly should never be lifted using the eyebolt.

PRE-INSTALLATION INSTRUCTIONS

A check of the antenna VSWR as measured at the antenna is recommended prior to antenna installation on the tower or monopole. Refer to Figure 1 for dimensions of antenna unit mounting flange to prepare mounting surface. Use Figure 2 as a guideline for planning proper orientation of antenna unit to achieve accurate azimuth boresite direction of internal antennas.

Figures 1 & 2

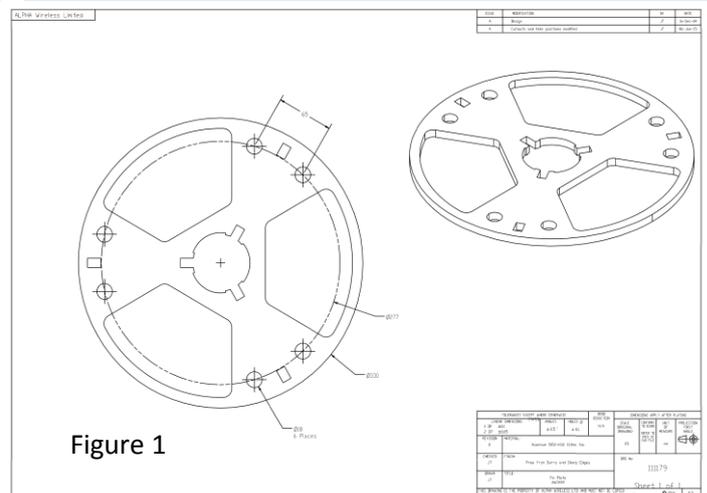


Figure 1

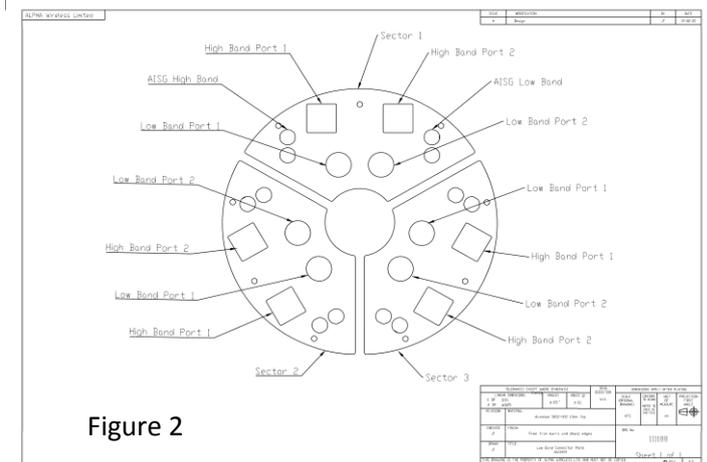


Figure 2

IMPORTANT!

Ensure cable connections are tight, while taking care to not overtighten using heavy force. Carefully seal coaxial connections to avoid moisture problems. Failure to weatherproof coaxial cable connections will result in improper operation of the antenna. Secure the coaxial feeder cable and antenna pigtail to the tower in a position that will best prevent physical damage and stress to the coaxial cable.

INSTALLATION INSTRUCTIONS

1. Loosen the access hatch bolts x 4 per door, remove the access hatch covers from the antenna, DO NOT loosen the 5th bolt on the door which is used to connect the retention chain, if it is removed, please refit.
2. Refer to Figures 1 and 2 for mounting and boresight alignment. It is recommended that the mounting holes be marked and made ready in the mounting surface prior to installing the antenna.
3. If using an eyebolt, before lifting the antenna unit, verify that the eye bolt is fully engaged and securely tightened.
4. Attach the lifting device to the eye bolt that is located at the top of the antenna unit. Slowly lift the unit out of the crate and stand it in its vertical position.
5. Ensure that the mounting flange on the antenna and the mounting flange on the monopole are clean and free of dirt and other contaminants. Place the Neoprene gasket of the monopole mounting flange to isolate the monopole material from the antenna material.
6. Lift the antenna unit into position above the monopole mounting flange and rotate it until the sectors are aligned per site plan.
7. Begin lowering the antenna into place, guiding the cables through the opening provided in the top of the monopole. Special care should be taken to ensure the cables are not pinched.
8. Once the two surfaces are mated together with the neoprene gasket in between, insert the customer supplied hardware down through the holes in the mounting flange of the antenna unit.
9. The coaxial cables that exit through the antenna mounting flange, 6 coaxial cables for each of the three sectors. It is important that the coaxial cables be mated properly to the coaxial connectors. An identification label is attached to each coaxial connector showing the sector number and the port number of the antenna.
10. Connect AISG cables for low band and high band. The naming convention on the ports has been used within the software so that sectors can easily be identified.
11. It is important that all coaxial connections are weather sealed to prevent water penetration.
12. Reattach the 3 access hatch doors.
13. Re-insert the 4 M6 screws into the tapped holes ensuring force is not used causing the M6 threads to become damaged



Do not install near power lines.
Power lines, telephone lines,



Do not install on a wet or
windy day or when



Wear shoes with rubber soles
and heels. Wear protective

NOTICE:

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. Alpha Wireless installation instructions are written for qualified installation personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

Alpha Wireless disclaims any liability or responsibility for the results of improper or unsafe installation practices.

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