

Installation Instructions

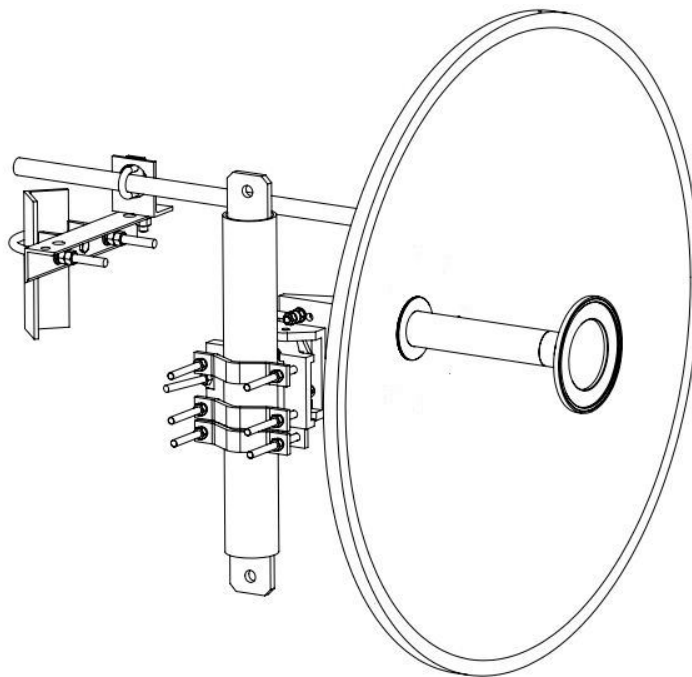
0.9m 5GHz Standard Performance Dual Polarization Antenna

Description

This antenna consists of a 0.9m reflector, feed and mounting bracket. The mounting bracket is designed to attach the antenna to a vertical tower pipe of diameter $\phi 60$ to $\phi 114\text{mm}$ (2.36" to 4.5"). The mount also provides adjustment ranges of $\pm 30^\circ$ ($\pm 15^\circ$ fine) elevation and $\pm 180^\circ$ ($\pm 15^\circ$ fine) azimuth.

Notice

- The installation instruction must be read before installing the antenna systems.
 - The installation, maintenance, or removal of antenna systems requires qualified, experienced personnel.
 - Please verify that the polarization of antenna is required by system after having finished installation.
-



0.9m Standard Performance Antenna application

1. Installing the feed assembly

We should install the feed assembly in the reflector, and make the notch of feed locking plate align to the notch, then lock it for hex screws M4×12 (4 pieces), as shown in Fig.1.

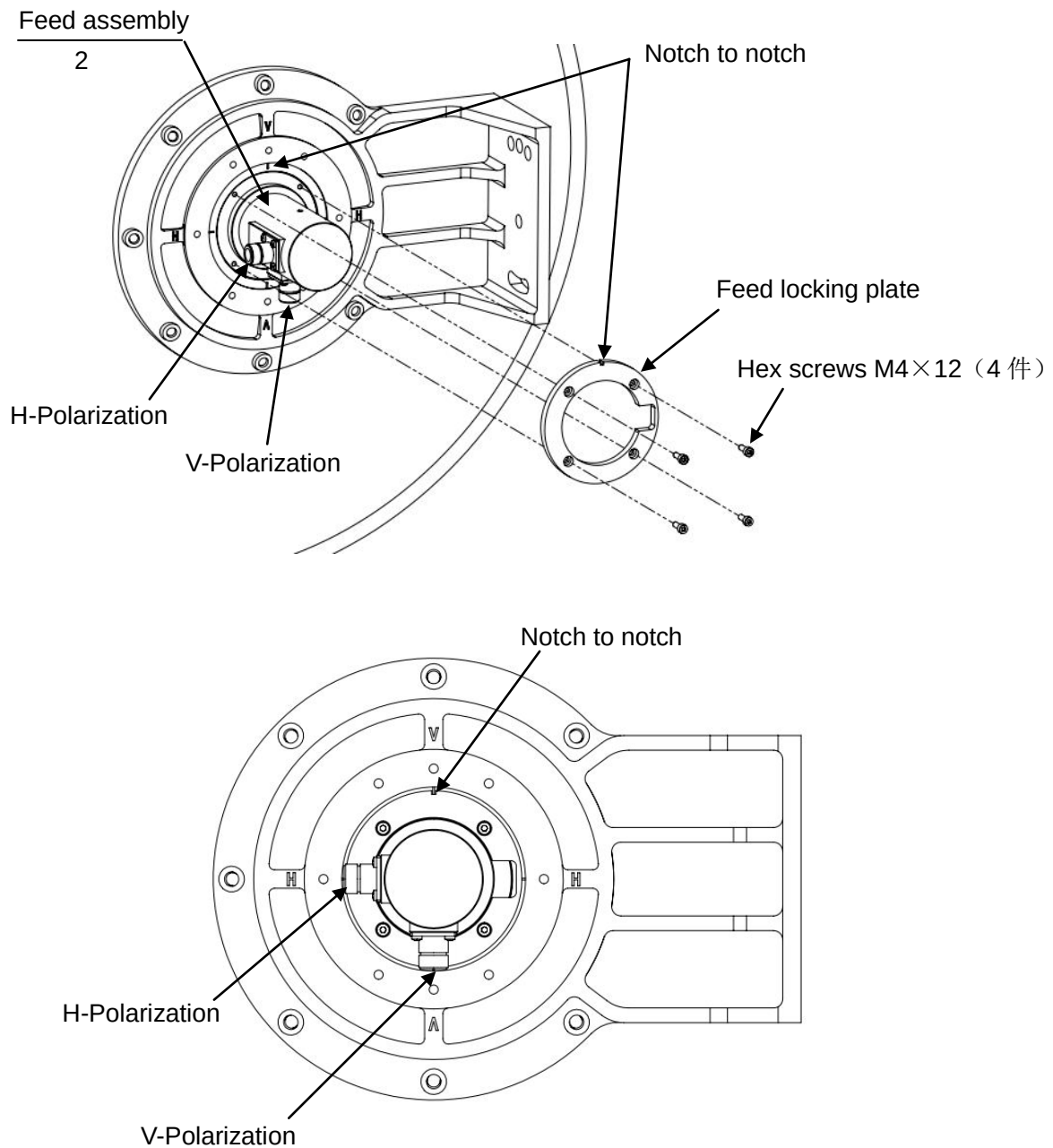


Fig.1 Installing Feed assembly

2. Installing the mounting bracket

At first, we should remove the nut, flat washer, spring washer, then insert bolts in hole and lock the nut (as show in Fig.2).

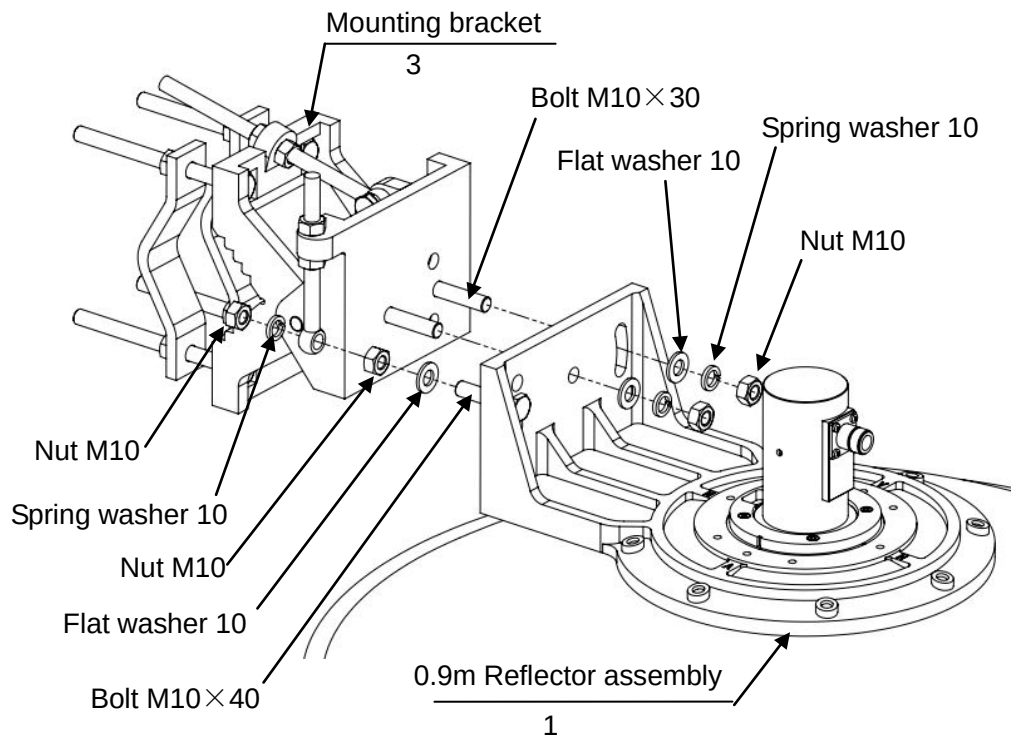


Fig.2 Install Mount assembly

3. Installing the support band assembly

To ensure safety during mounting bracket and adjustment of the antenna, we should install the support band assembly on pipe at the approximate location, and lock then by bolts M10×130, spring washers and nuts (as show in Fig. 3).

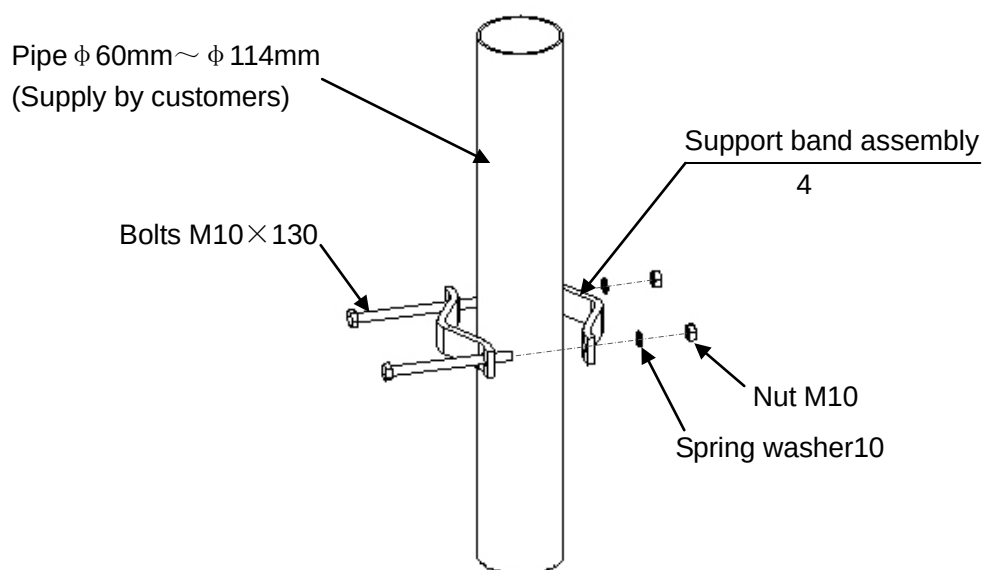


Fig.3 Install support band assembly

4. Installation of the antenna

Lifting and Installing the antenna on pipe, and have the antenna approximately aim at the direction of communication, then tighten the mounting bracket by using boltM10(4sets) as shown in Fig.4.

Finally drill one holes ($\Phi 13\text{mm}$) on the proper position on the tower, connect one side of the strengthening strut assembly to the hole by bolt M12, and connect the other side to reflector by bolt M12. If it is not convenient to have the hole, one can reinforce the antenna by the reinforce assembly and the U-bolt M12 to tower member (See Fig.4).

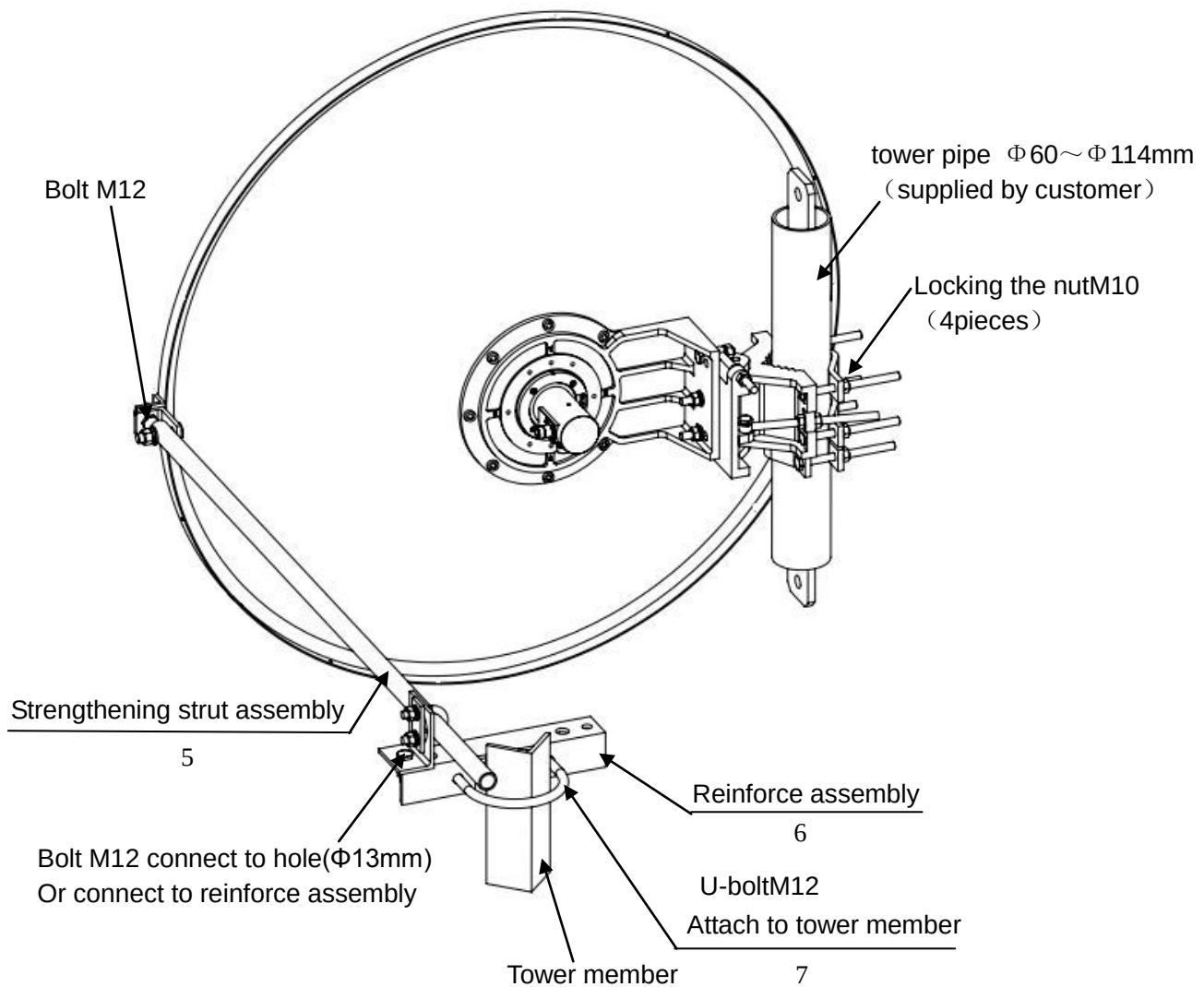


Fig.6 Install antenna

Note: Tighten all strut attachment hardware .

5. Adjusting the azimuth and the elevation of antenna

After installed antenna and equipment, one can begin to adjust antenna. Loosen the nuts on the orientation adjustment. Adjust the elevation and azimuth again and again, until the optimum orientation of antenna is found. Re-tighten all the loosened bolt and nuts (See Fig.5).

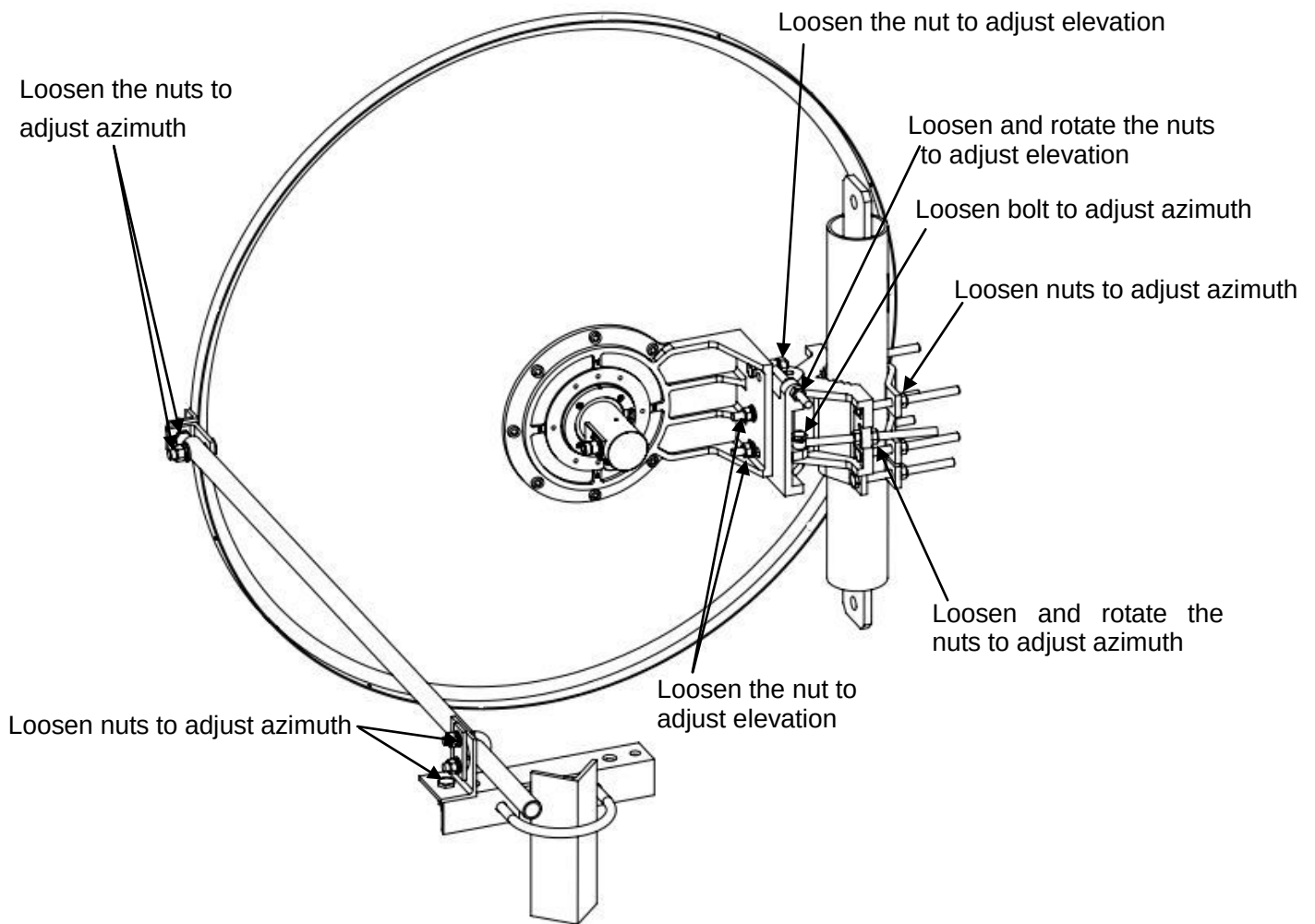


Fig.5 Adjust antenna

Note: Tighten all strut attachment hardware after finishing all adjustment.

0.9m 5GHz Standard Performance Dual Polarization Antenna Packing List

Item	Description	Qty	Remark
1	0.9m Reflector assembly	1	Include: Feed assembly, Reflector, etc.
2	Feed assembly	1	Include:Feed locking plate,Hex screws $M4 \times 12$
3	Mounting bracket	1	Include: Bolt M10,nut, flat & spring washer
4	Support band assembly	1	Include: Bolt $M10 \times 130$,nut, & spring washer
5	Strengthening strut assembly	1	Include: accessories ,boltM12, nut, washer
6	Reinforce assembly	1	
7	U-bolt M12	1	Include: nut, washer
8	3mm hexagon ring spanner	1	Used to installing feed assembly
9	Installation instruction	1	