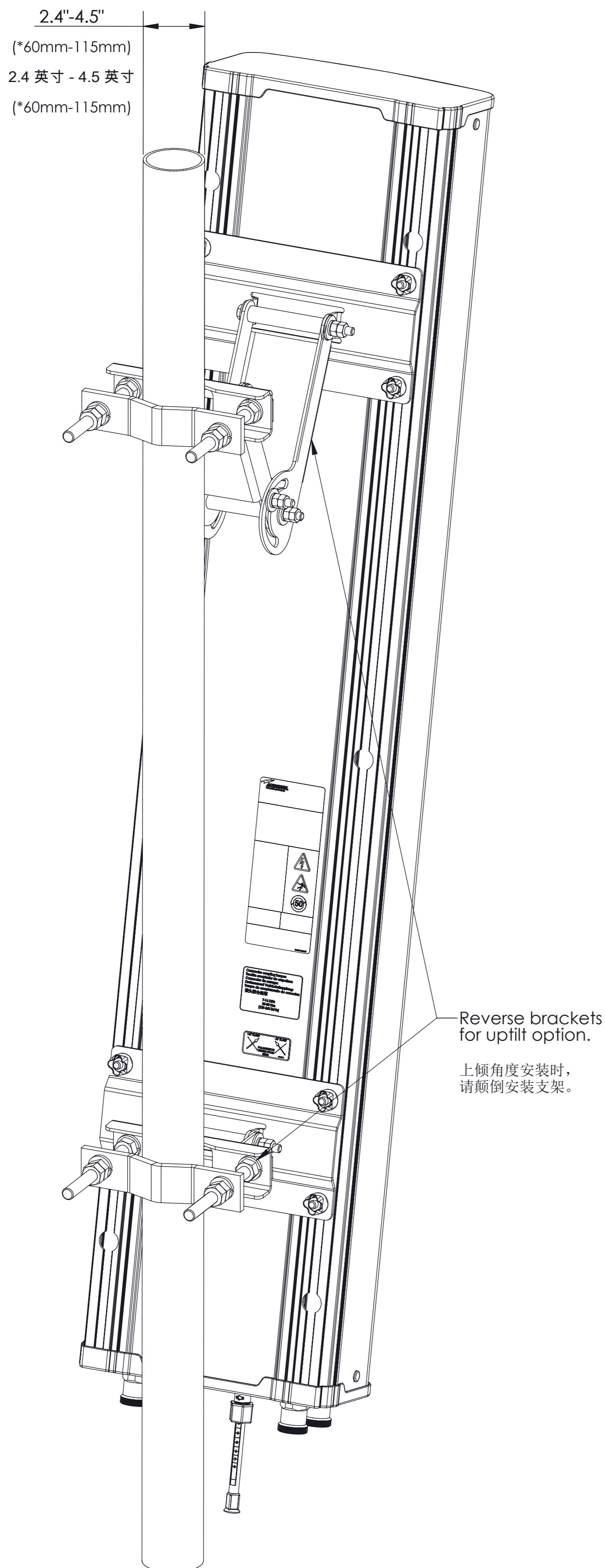


**237546 Revision U, Sep2016**

**Downtilt Mounting Kit 下倾安装架  
600899A-2**

\*Note: Minimum pipe diameter recommended is 60 mm (2.4"). This mount can be used on pipe diameters measuring down to 33 mm (1.3"); however, this is only recommended for building mounts or applications with no significant side wind load.

\*注：推荐安装管柱的最小管柱直径为60mm（2.4英寸）。这些安装件可在直径小至33mm（1.3英寸）的管柱上进行安装；但仅推荐在建筑上的安装或在没有大的侧向风荷载的场合应用。



19mm  
13mm  
13mm

**Inclinometer**  
倾角罗盘

**接头连接扭矩：**

Connector coupling torque:

Type N: 1.7–2.3 N·m (15–20 lbf-in)	N型接头：1.7-2.3 N·m (15-20 lbf-in)
7-16 DIN: 25–30 N·m (220–265 lbf-in)	7-16DIN型接头：25-30 N·m (220-265 lbf-in)

**NOTICE**

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

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

**注意：**

天线的安装、维护或拆卸都需要由经验丰富的合格技术人员进行操作。康普安装说明是专为这些安装人员编写的。天线系统应由合格人员每年检查一次，以确定设备的安装、维护和状况良好。对于因不当或不安全安装导致的任何后果，康普概不负责。



Do not install near power lines. Power lines, telephone lines, and guy wires look the same. Assume any wire or line can electrocute you.

请勿安装在电源线附件。电源线、电话线和拉线外观相同，任何导线度可能致人触电身亡。



Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.

请勿在有雨、有风天气或者所在区域有闪电或雷声时安装，请勿使用金属梯子。



Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.

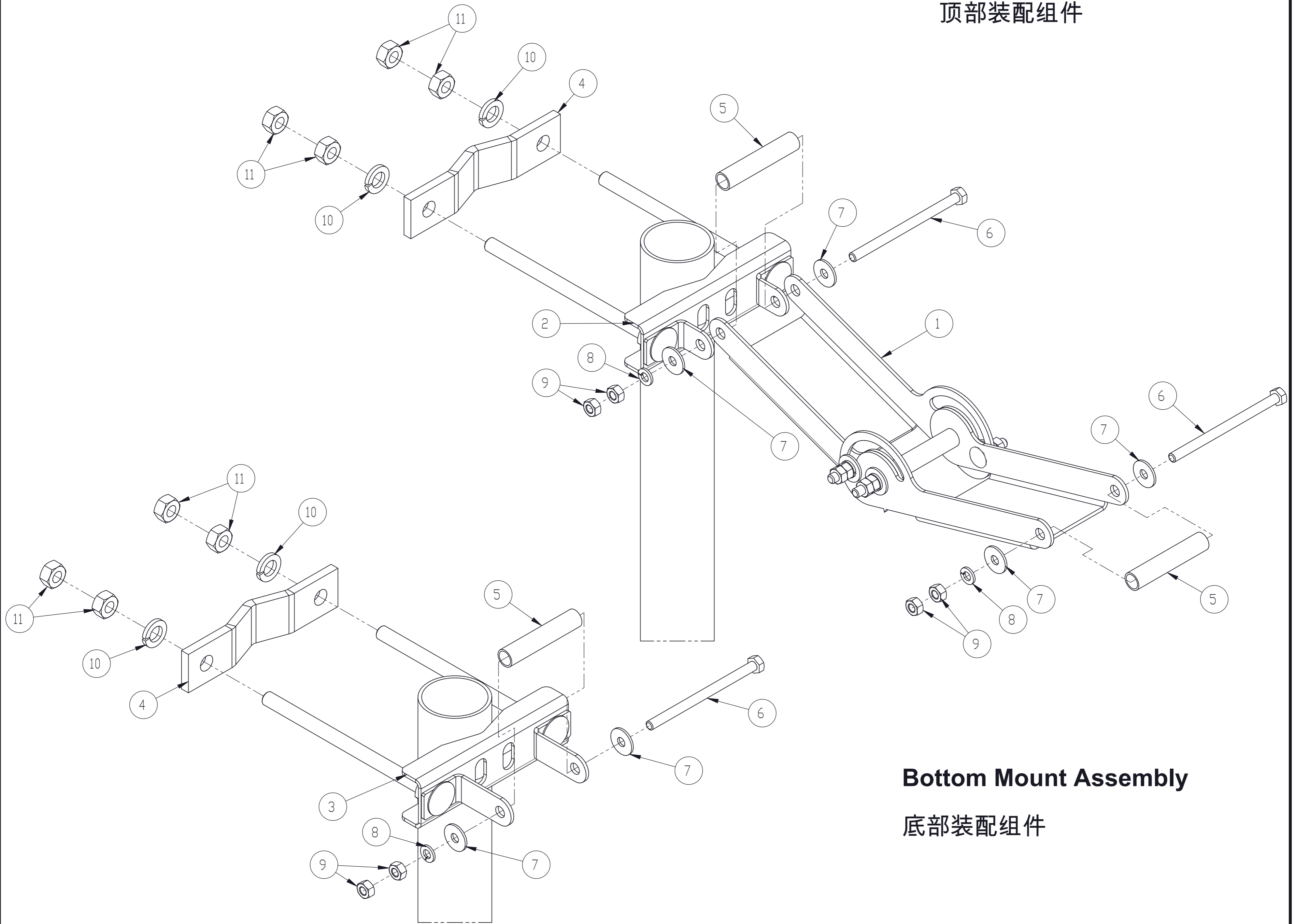
请穿橡胶鞋底和橡胶跟的鞋子。请穿有长袖衬衫和橡胶手套的防护服。

**1**  
Carefully remove contents of shipping boxes. Unpack and verify the contents. Refer to the list below. You need all parts to assemble, install, and operate the antenna.

小心地取出包装箱里的部件。打开部件的包装并核对部件。请参阅以下列表。部件齐全，才能装配、安装并使用天线。

### Top Mount Assembly

### 顶部装配组件



### Bottom Mount Assembly

### 底部装配组件

**Quantity Item Number (see illustrations, above)**

**数量 零件编号 (参阅上述插图)**

**Description**

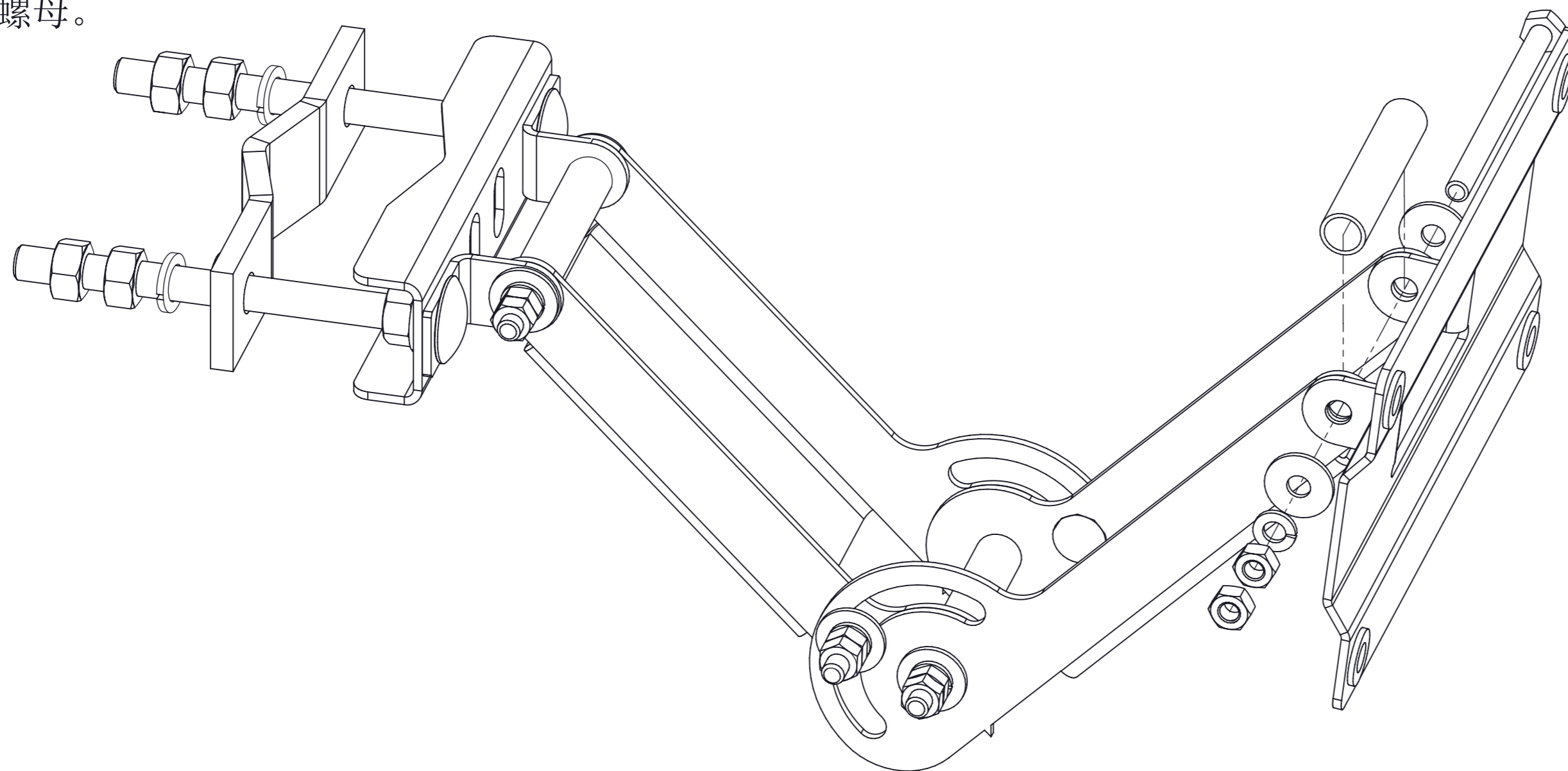
**说明**

1	①	Downtilt subassembly 下倾安装支架子组件
1	②	Pipe mount subassembly 导轨安装支架组件
1	③	Pipe mount subassembly 导轨安装支架组件
2	④	Clamp plate 平板式固定夹
3	⑤	Spacer tube 间隔管
3	⑥	M8 X 1.25 X 120 mm large hex head screw STL GALV 大六角头螺栓
6	⑦	M8 flat washer STL GALV 平弹大
3	⑧	M8 lock washer STL GALV 弹大弹大
6	⑨	M8 X 1.25 hex nut STL GALV 六角头螺母
4	⑩	Large lock washer 大弹簧垫圈
8	⑪	M12 X 1.75 hex nut 六角头螺母

## 2

Attach top mount assembly to top mounting plate attached to the antenna as shown. Finger tighten.

如图所示，将顶部安装组件安装到天线上的顶部安装板上。用手拧紧螺母。



**NOTE: To obtain a negative angle (e.g.  $-2^\circ$ ), attach the top (downtilt) assembly to the bottom antenna bracket.**

**Also see "Uptilt Mounting Option".**

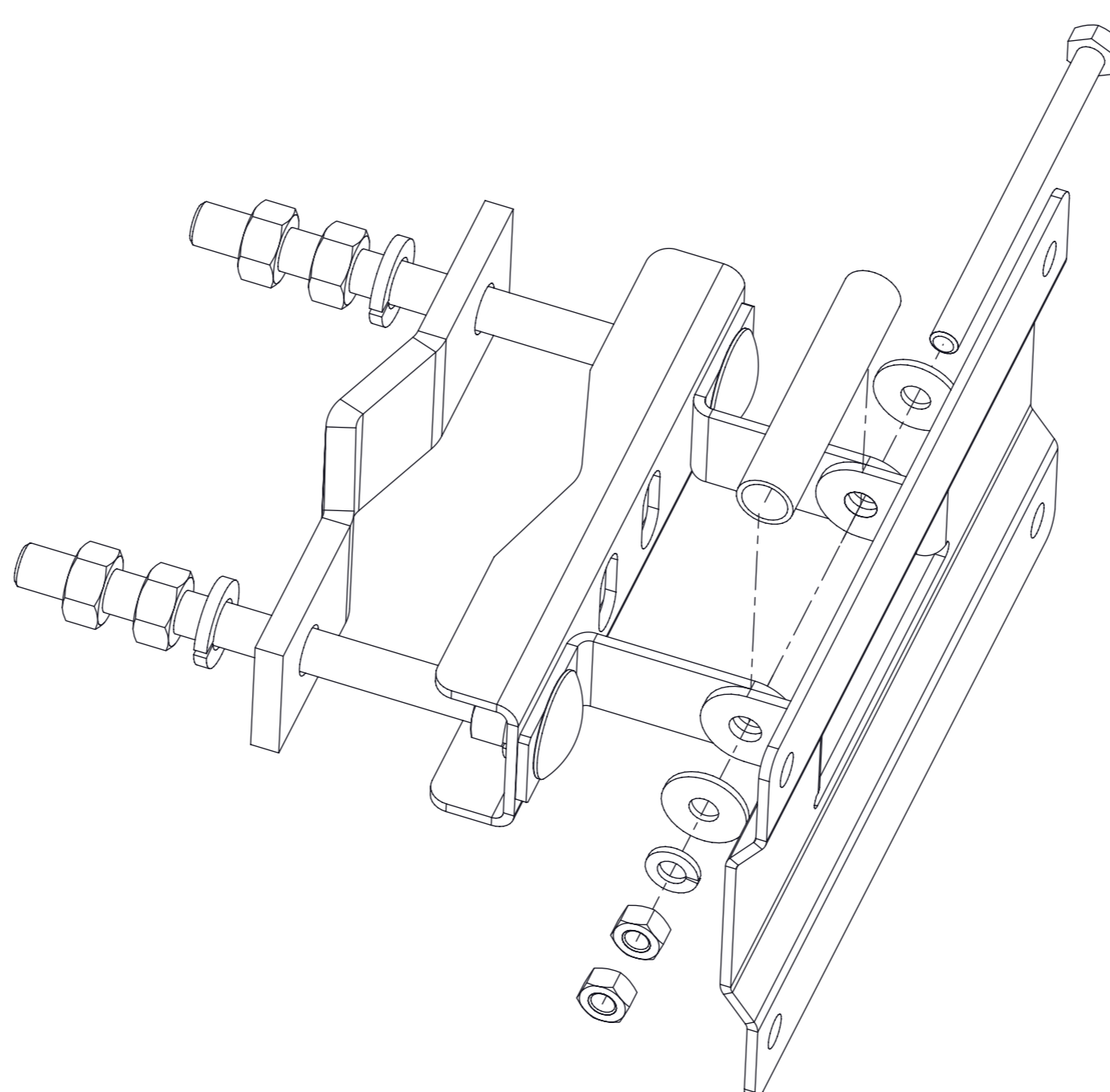
注意：要想获得负的倾角（如 $-2^\circ$ ），请将顶部（下倾角度）组件安装至天线的底部支架处。

可参阅“上倾角度安装方法”。

## 3

Attach bottom mount assembly to bottom mounting plate attached to the antenna as shown. Finger tighten.

如图所示，将底部安装组件安装到天线上的底部安装板上。用手拧紧螺母。

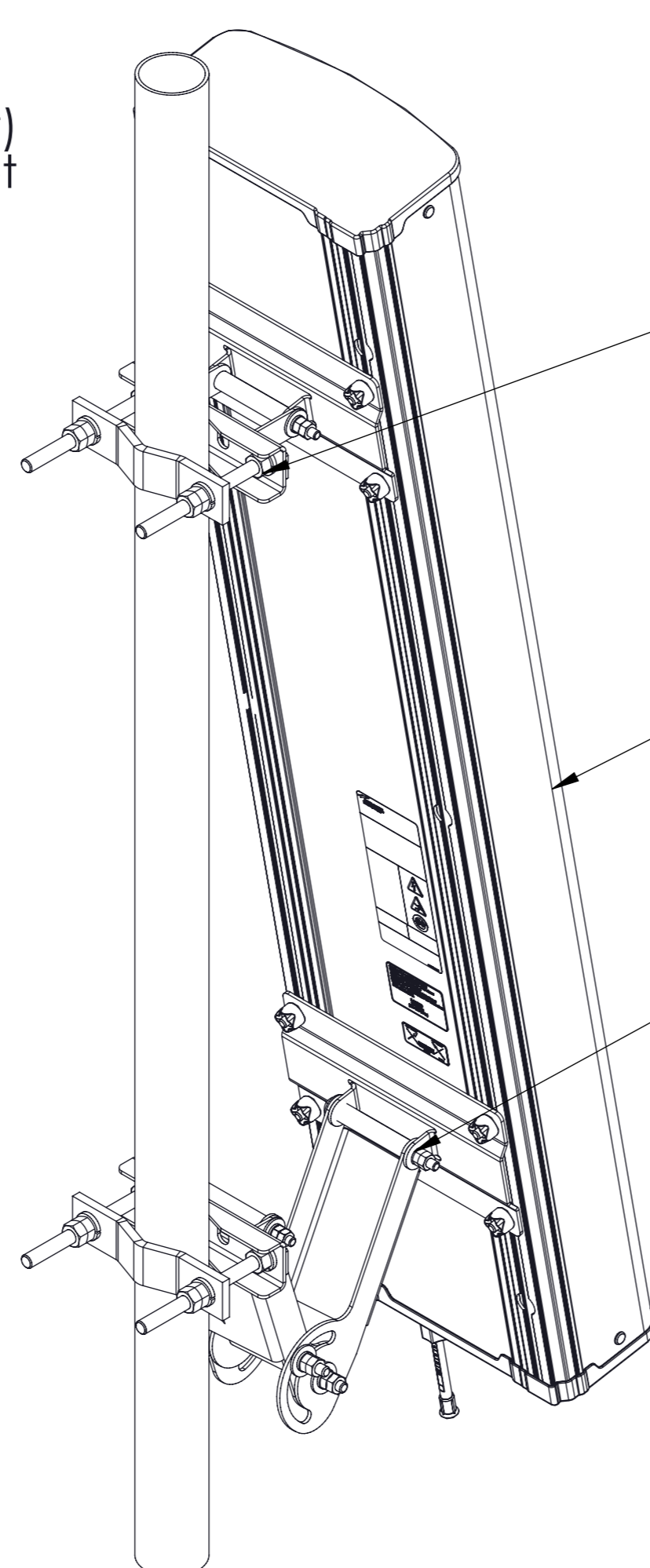


## Uptilt Mounting Option

For uptilt option, attach the top (downtilt) assembly to the bottom antenna bracket and the bottom (standard pipe mount) assembly to the top antenna bracket..

### 上倾角度安装方法

将顶部（下倾角度）组件安装到天线底部的安装托架上，把底部（标准管柱安装方法）组件安装到天线上部的安装托架上。

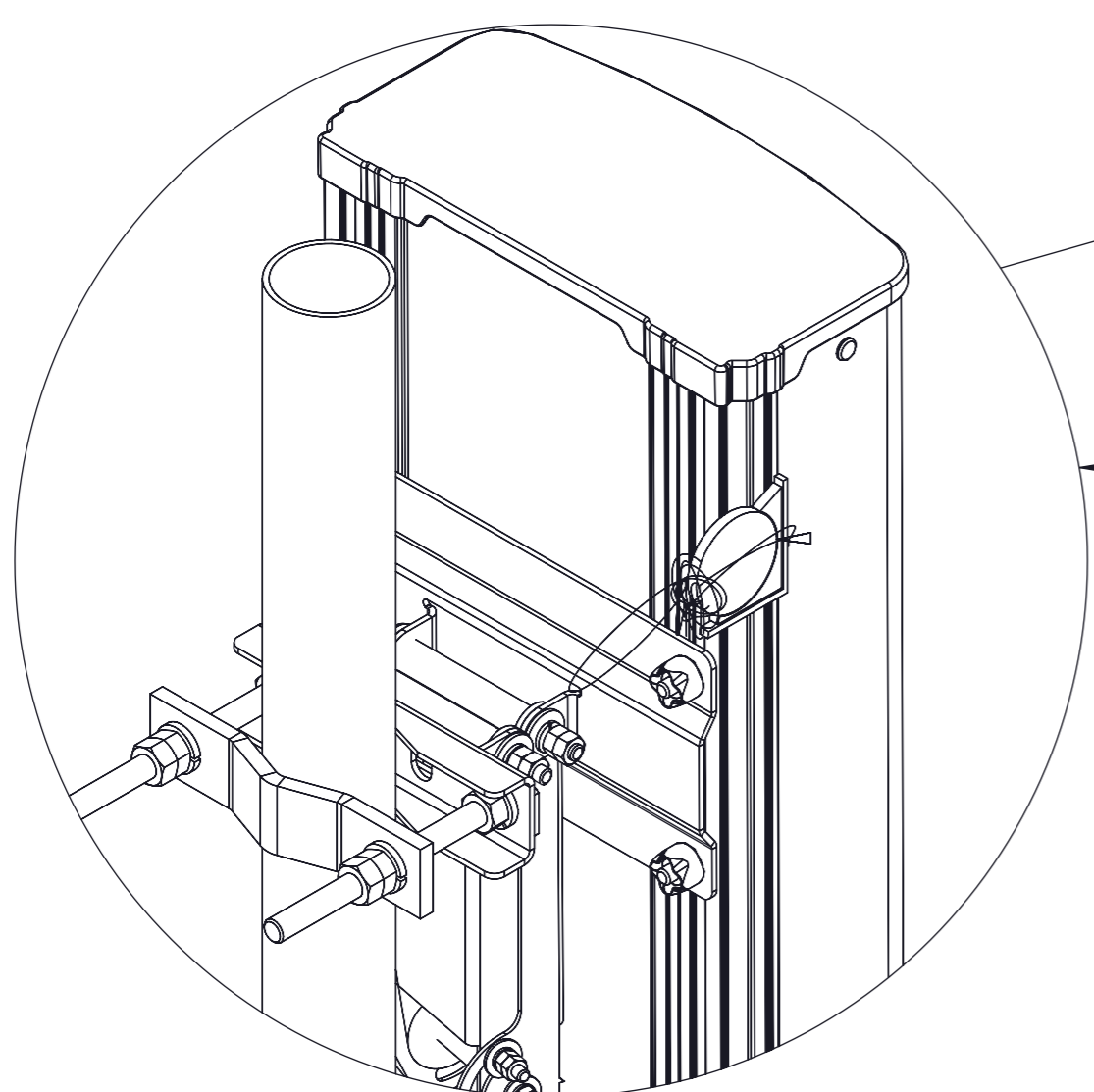


Bottom (standard pipe mount) assembly is attached to the top antenna bracket.  
底部（标准管柱安装）组件安装到天线上部的安装托架。

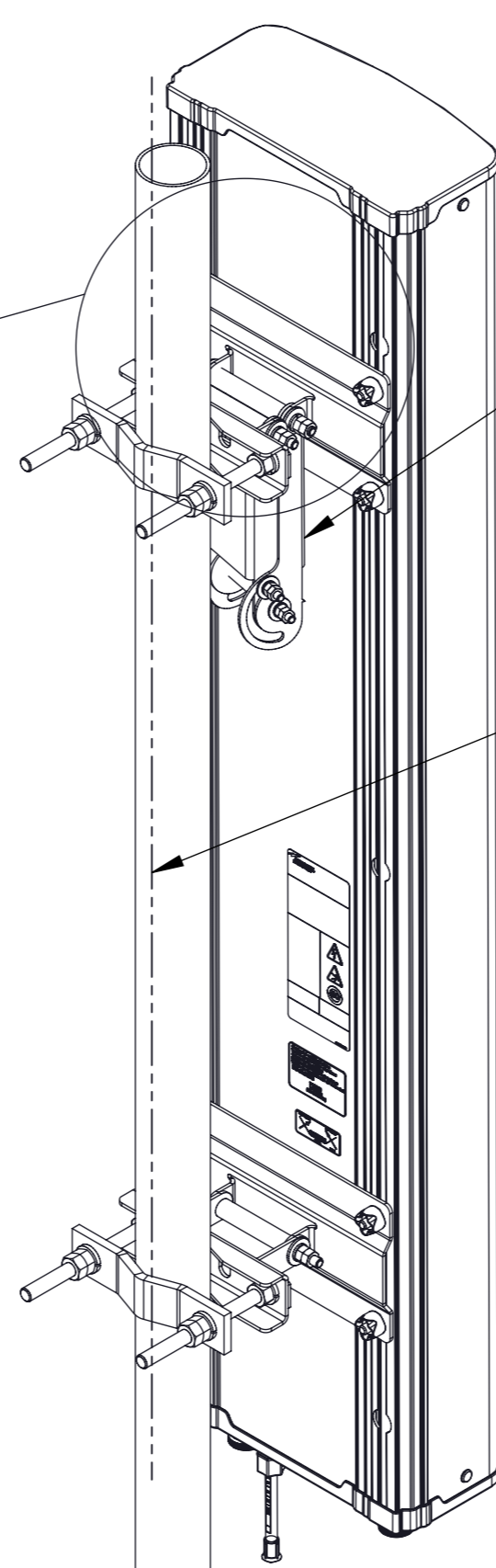
Antenna is tilted from the bottom at a negative angle.  
天线从底部的倾角为负值。

Top (downtilt) assembly is attached to the bottom antenna bracket.  
顶部（下倾角度）组件安装到天线底部安装托架。

**4**  
Position downtilt bracket to 0°.  
将下倾角度支架置于0°位置。



Place edge of inclinometer against edge of mounting rail ensure antenna is at 0°.  
需将倾角罗盘的边缘置于为确保天线置于0°位置，导轨的边缘。



Ensure downtilt bracket is fully collapsed.  
确保下倾安装架完全折起。

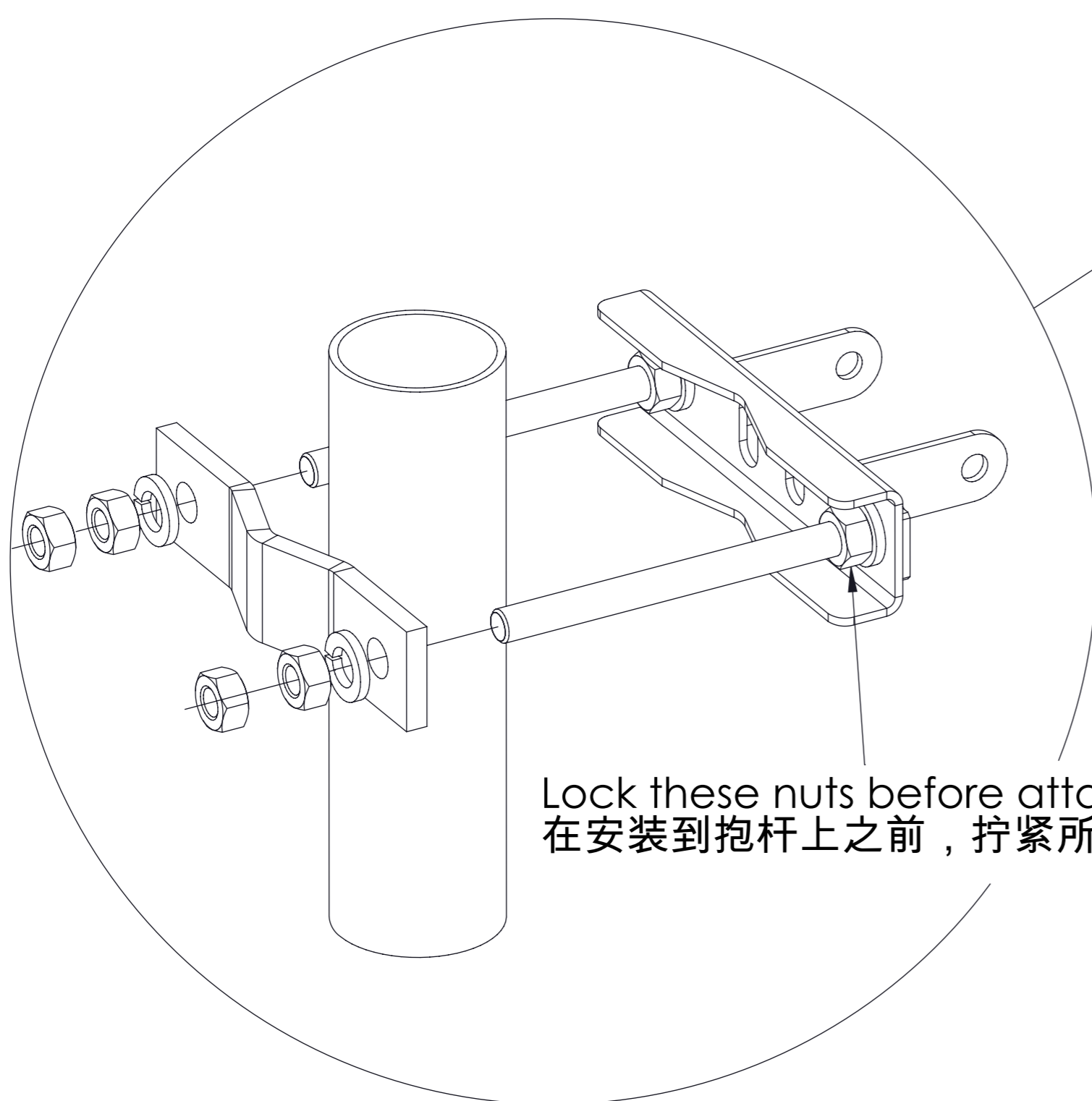
Draw an imaginary vertical line through the center of the heads of the bolts to ensure antenna is at 0° when first installed.  
首次安装天线时，穿过螺栓头中心划一条虚垂直线，以确保天线倾角为0°。

**5**  
Attach antenna assembly to pole. Finger tighten.  
将天线组件安装到抱杆上。用手拧紧螺母。

**Note: See "Hoisting Procedures."**

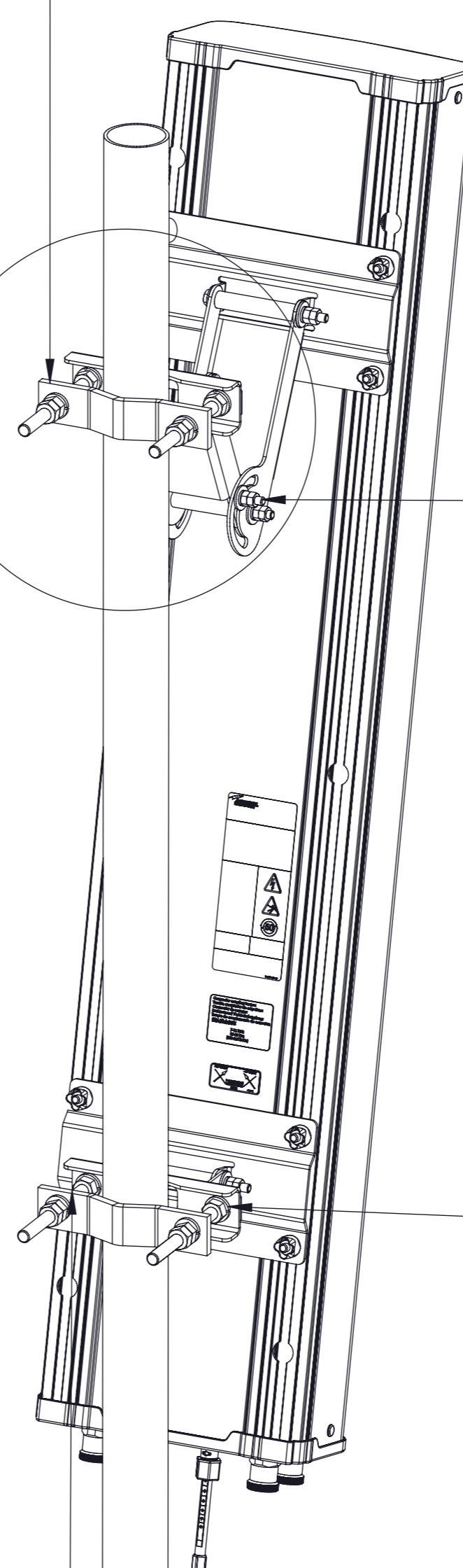
It is normal for the pipe mount to bend slightly to conform to the size of the mounting pipe.

注：参见“塔顶安装说明”  
为适应不同的抱杆尺寸，安装后抱杆安装架出现轻微的折弯为正常现象。



Lock these nuts before attaching to pole  
在安装到抱杆上之前，拧紧所有螺母。

Pipe Mount  
抱杆安装架



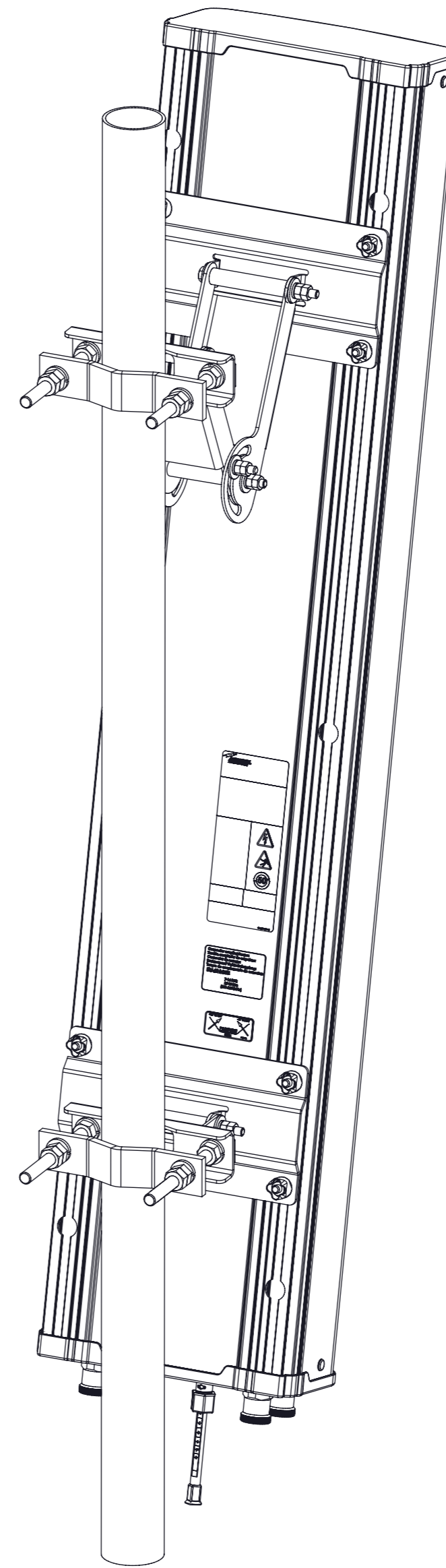
Antenna pivot hole to pivot hole dimension. Varies by antenna.

天线枢孔间的尺寸依天线不同而有所不同。

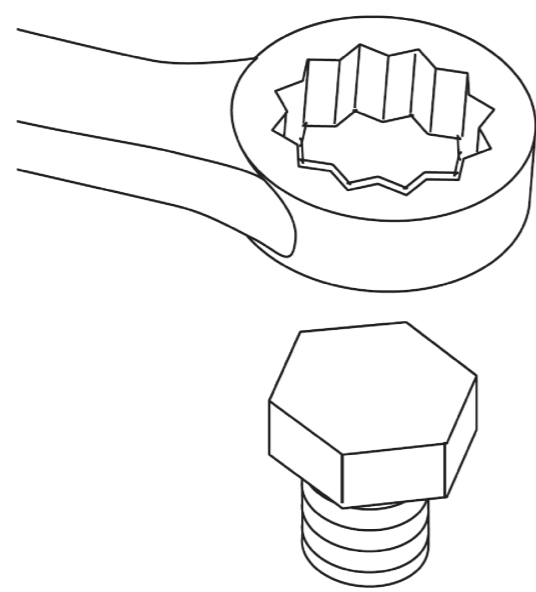
Pipe Mount 抱杆安装架

**6**  
Place an inclinometer on the back of the antenna to set the true mechanical downtilt of the antenna.

将倾角罗盘置于天线背部，以设置天线实际的倾斜角度。



**7**  
Tighten all hardware.  
拧紧所有硬件。



Torque 扭矩	
M8	M12
15 N·m	58 N·m

## Hoisting Procedures

Preassemble hardware as much as possible before lifting antenna up tower.

Attach a rope to the top mounting bracket.

Keep the antenna vertical while hoisting.

For safety, an additional rope can be attached to the bottom mounting bracket and used as a guide by someone else on the ground.

## 塔顶安装说明

在将天线吊装到塔顶之前，请尽可能多地预组装好安装硬件。

将绳索置于天线顶部的安装支架上。

吊装天线时，请确保天线处于垂直状态。

为安全起见，可将另外一根缆绳连接在底部天线安装支架上，用作其他地面人员的向导。