

COMMSCOPE® Installation Instructions

Mounting Kits For Wide Panel Antennas

DB380 and DB380-3 Pipe Mounts
DB5083 and DB5083D Downtilt Mounts

Bulletin 095351-000 • Revision AE • July 2013 • Page 1 of 4

POWERED BY **ANDREW.**

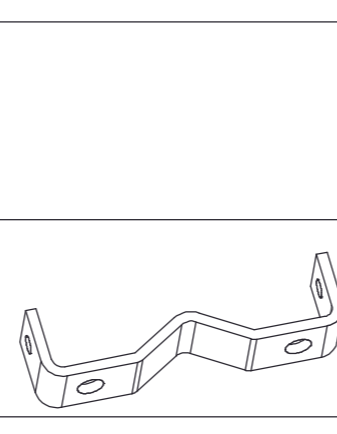








CommScope Infrastructure Academy offers installation training.

GENERAL INFORMATION

- DB380 has 2 clamp assemblies. Each clamp assembly has 2 mounting brackets (uses DB5083 for downtilt mount).
- DB380-3 has 3 clamp assemblies. Each clamp assembly has 3 mounting brackets (uses DB5083D for downtilt mount).
- Fits round members 2.4" to 4.5" (* 60 to 115 mm) OD or angle members up to 2.5" (63.5 mm) on a side.

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







PARTS LIST

Item	Description	Qty		
		DB380	DB380-3	
1	Bracket With Tabs	2	3	
2	Bracket Without Tabs	2	3	
3	M10-1.5 X 35 Hex HD Bolt, HTSTL,GALV	4	6	
4	M10 Split Lock Washer, STL,GALV	4	6	
5	M10-1.5 Hex HD Nut, STL,GALV	8	12	
6	M12-1.75 X 190 Hex HD Bolt, STL,GALV	4	6	
7	M12 Flat Washer, STL,GALV	8	12	
8	M12 Split Lock Washer, STL,GALV	4	6	
9	M12-1.75 Hex HD Nut, STL,GALV	8	12	

DB380/DB380-3

PRE-INSTALLATION INSTRUCTIONS

- Examine antenna and hardware to ensure that all parts are enclosed and that there is no physical damage.
- Check to ensure that the antenna feed connector mates with the jumper cable.
- Verify that the frequency range shown on the label on the back of the antenna matches the frequency range of the station equipment.
- Position the antenna with its "up" arrow label pointing upward before installation. This orientation allows the drain holes to be on the bottom of the antenna.

Item	Description	Qty		
		DB5083	DB5083D	
1	Downtilt Bracket	1	2	
2	Downtilt Bracket	1	2	
3	M10 Split Lock Washer, STL,GALV	4	8	
4	M10-1.5 Hex HD Nut, STL,GALV	8	16	
5	M10-1.5 X 35 Hex HD Bolt, HTSTL, GALV	4	8	
6	M10 Tooth Lock Washer, STL,GALV	2	4	

DB5083/DB5083D

MAXIMUM TORQUE VALUES

M10	37 N.m (27ft lbs)
M12	58 N.m (43ft lbs)

(continued on page 2)

NOTICE

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. Andrew 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.

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

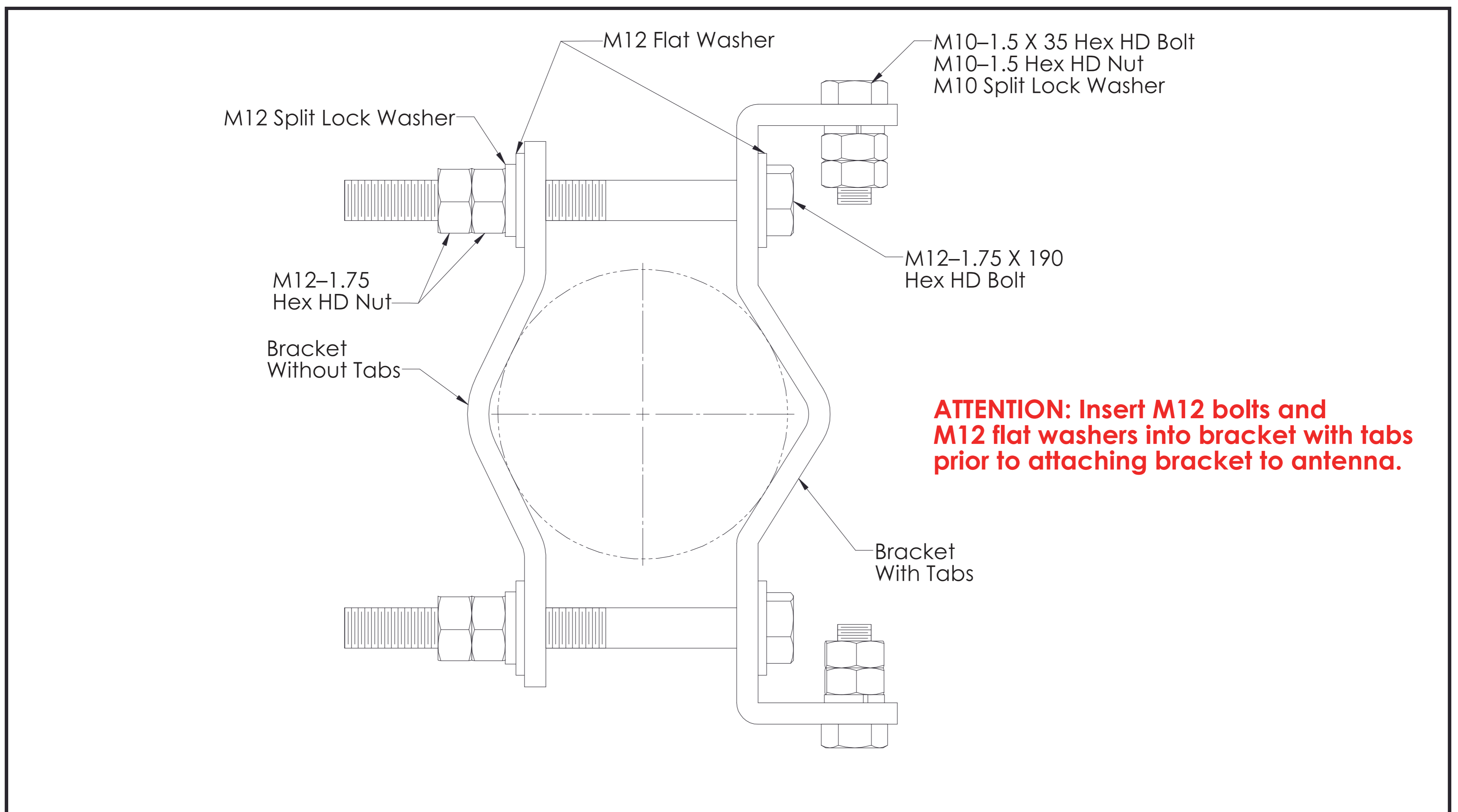


Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.

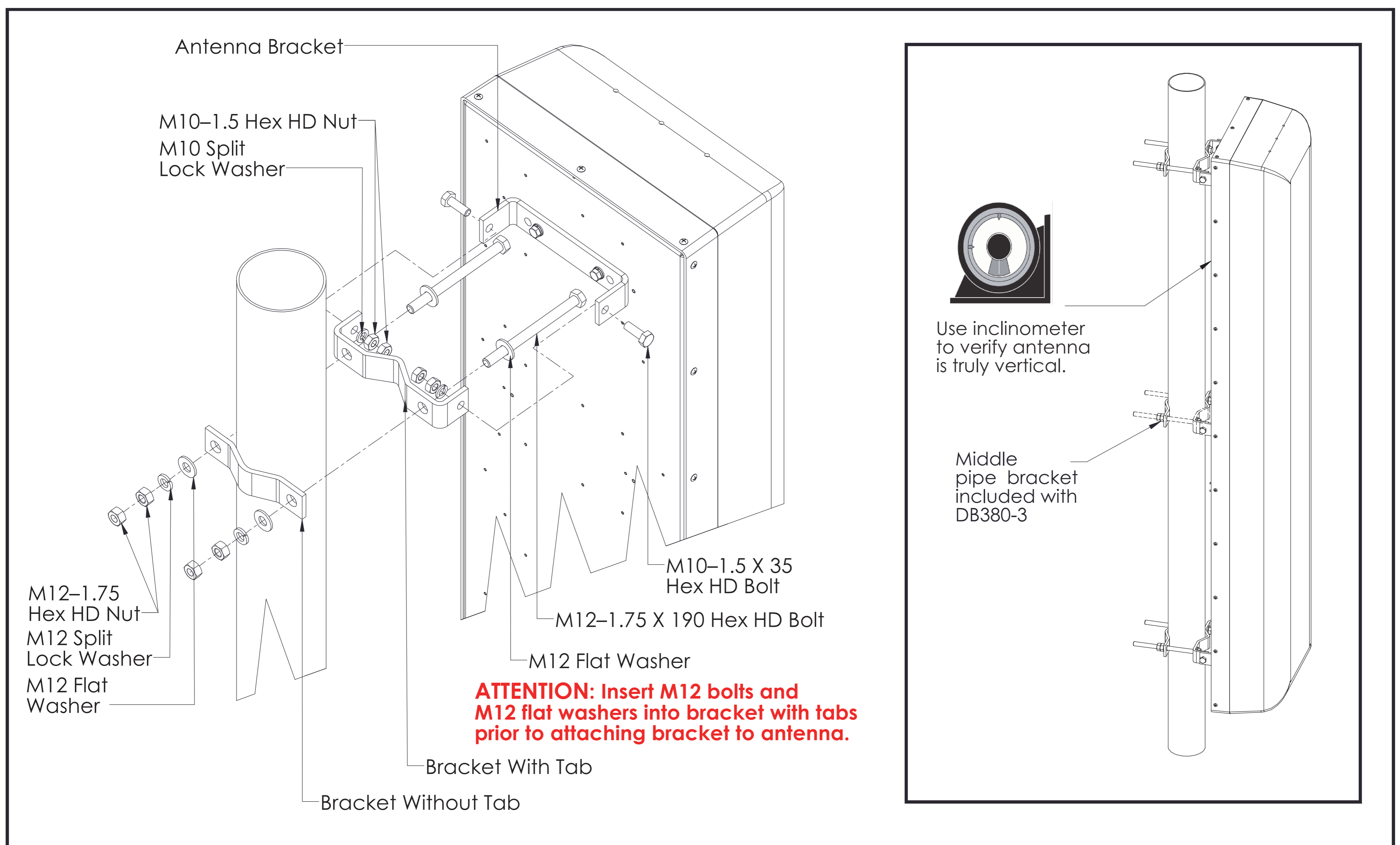


Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.

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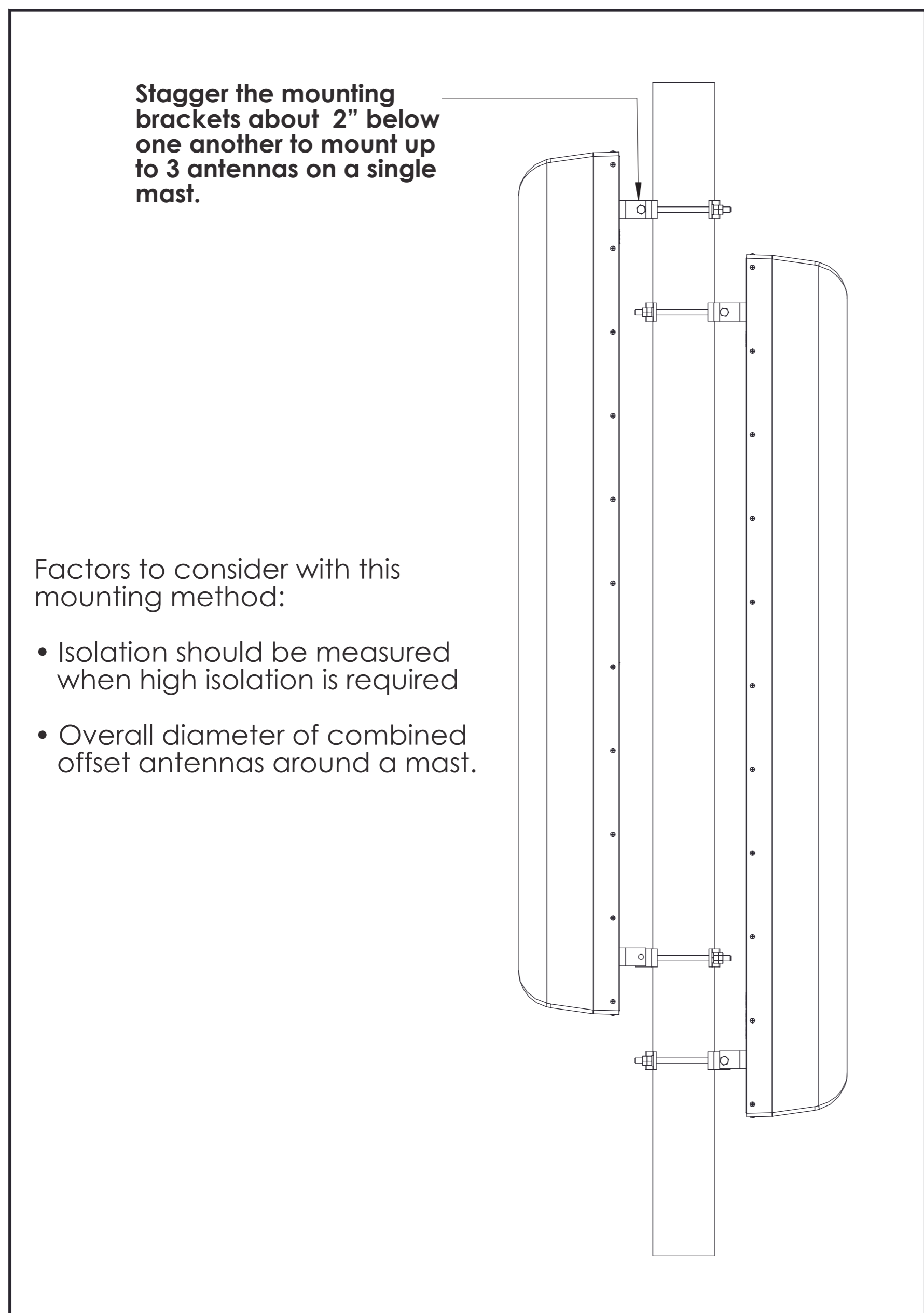


DB380/DB380-3 Pipe Mount Clamp.



Attaching Antenna to a Mast Using DB380/DB380-3 Pipe Mount.

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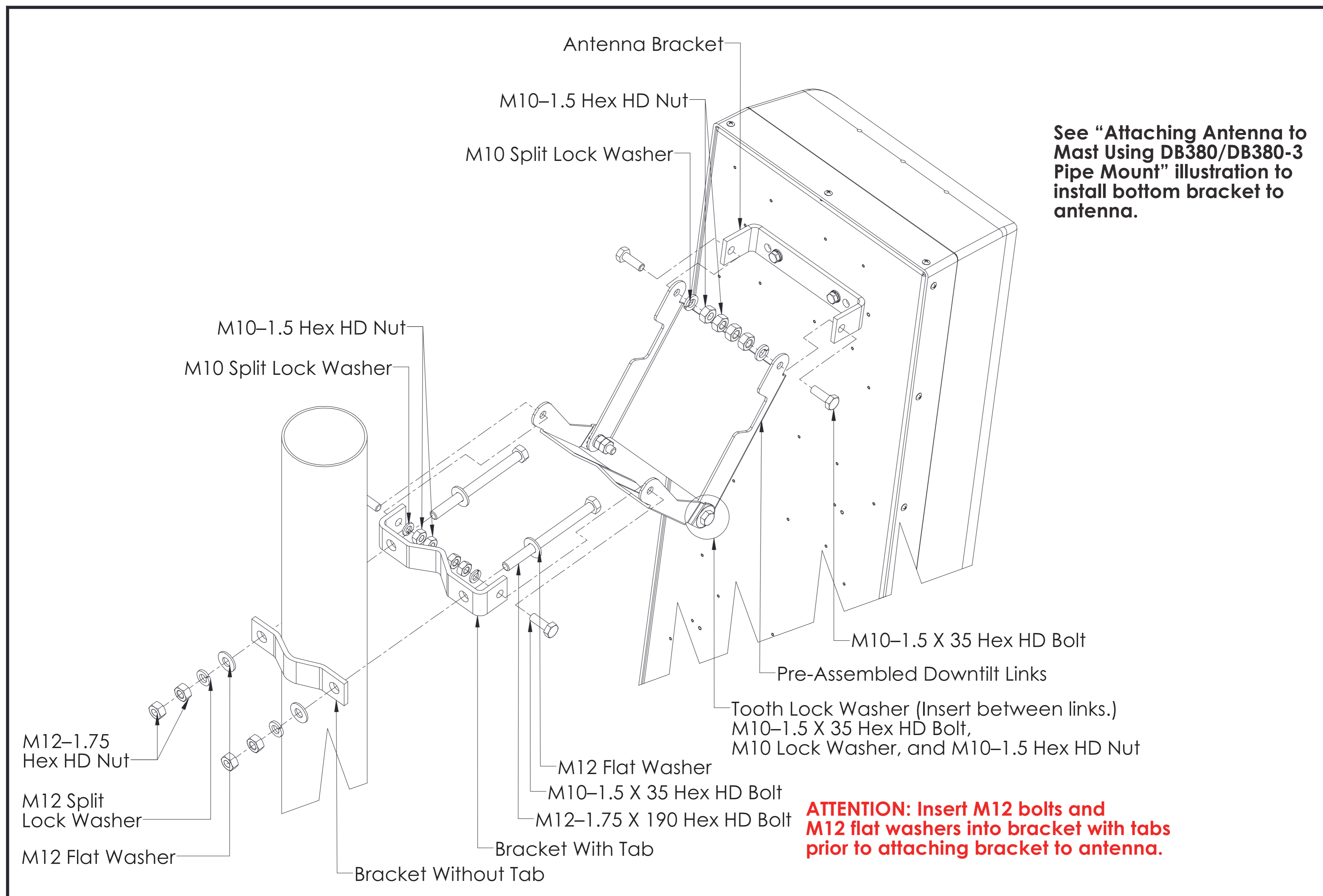


HOISTING ANTENNA UP A TOWER

- Pre-assemble as much of the mounting hardware as possible before lifting the antenna up to the top of the tower.
- Attach a rope to the top mounting bracket on the back of the antenna. Keep the antenna vertical when hoisting the antenna. For safety, an additional rope can be attached to the bottom antenna mounting bracket and used as a guide by someone else on the ground.
- Bring the antenna into position on the tower and secure it using the hardware provided (See "Attaching Antenna to a Mast Using DB380/DB380-3 Pipe Mount" illustration).

To avoid twisting the antenna, ensure that all the mounting clamps are aligned with each other. Securely tighten all hardware.

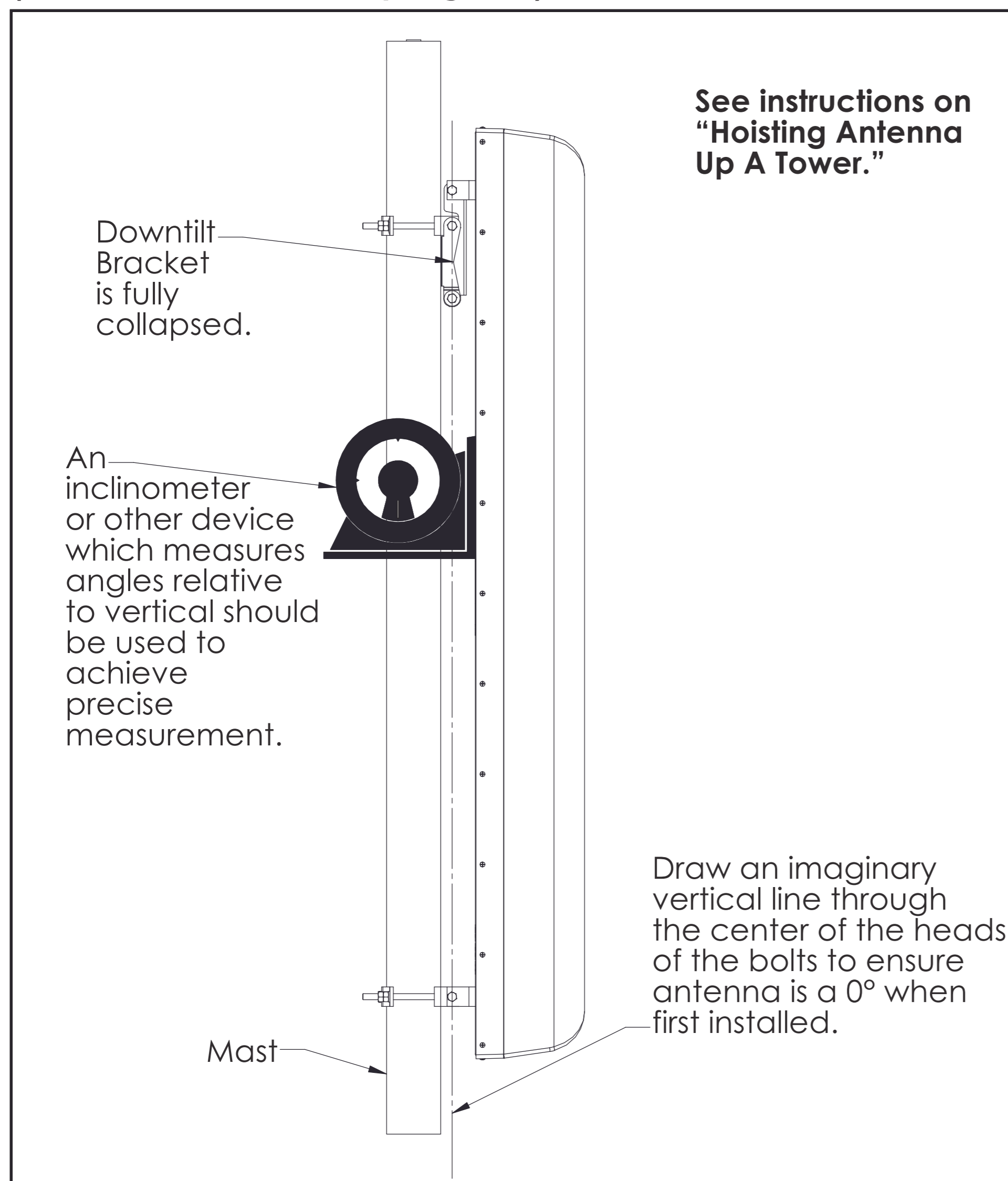
Mounting Multiple Antennas Using DB380/DB380-3.



See "Attaching Antenna to Mast Using DB380/DB380-3 Pipe Mount" illustration to install bottom bracket to antenna.

Attaching Antenna to a Mast Using DB5083/DB5083D Downtilt Mount and DB380/DB380-3 Pipe Mount.

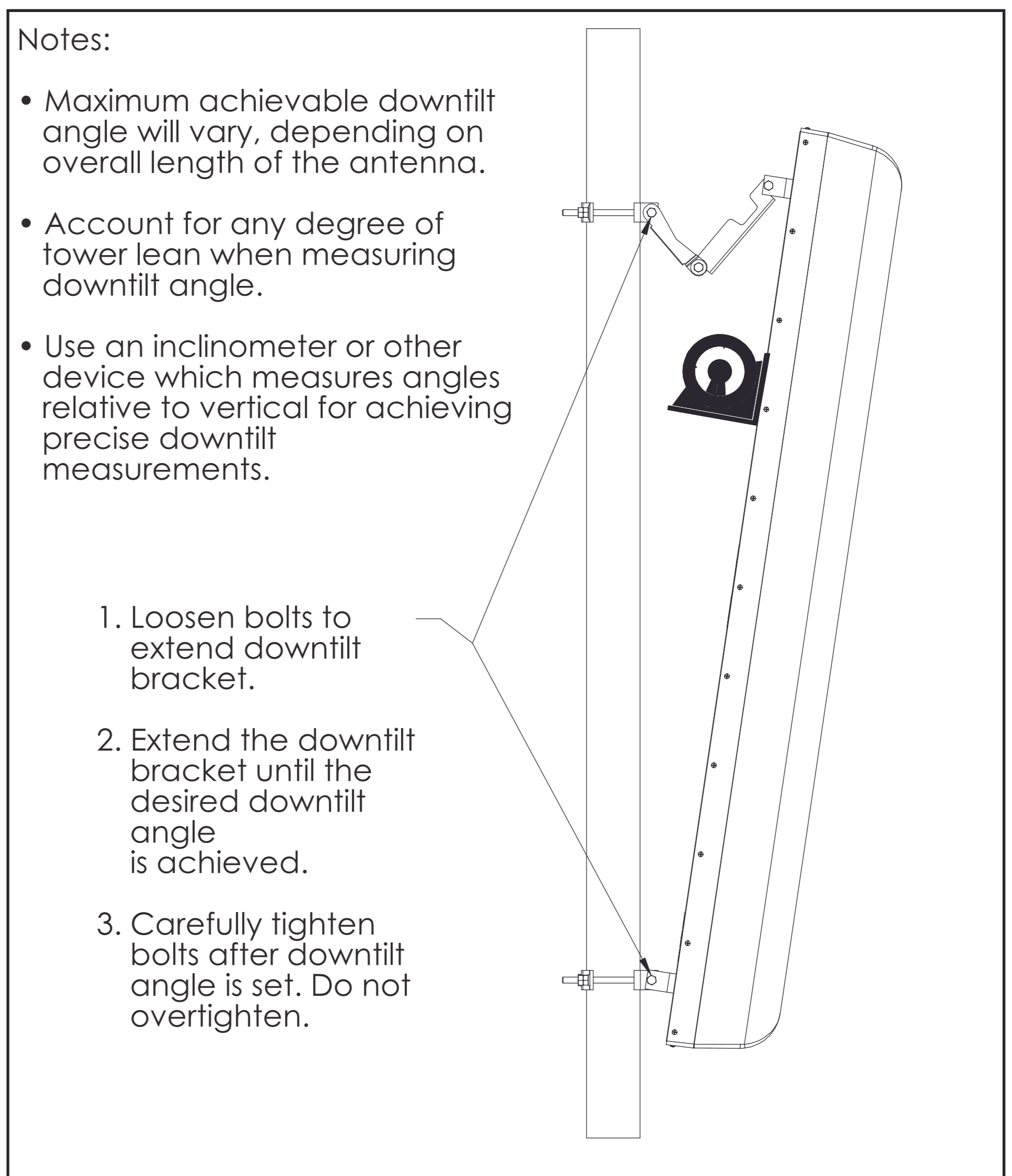
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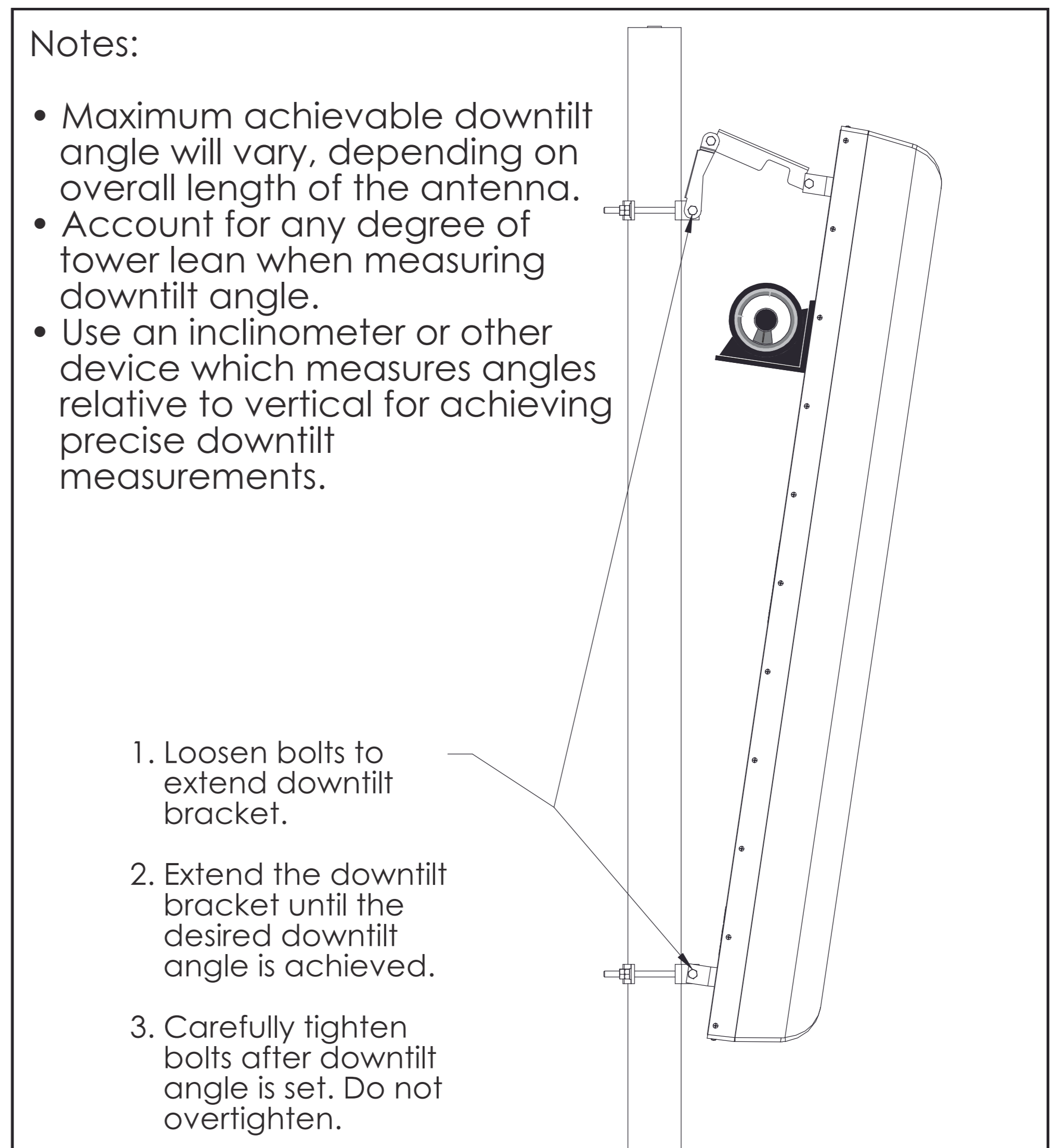
Ensuring Antenna is Fully Collapsed at 0°.

POST INSTALLATION INSTRUCTIONS

- Connect the station transmission line (not supplied) to the antenna. Make the connection snug, but do not apply heavy force with pliers.
- Carefully weatherproof all connections, covering all cracks and the outer jacket of the transmission line. Failure to waterproof the connection could result in improper operation of the antenna.
- Secure the transmission line to the tower in the best position to avoid physical damage to the cable.
- After the antenna and transmission line have been installed, a careful visual check should be made to ensure that:
 - All mechanical connections have been made and the antenna is mounted with sufficient physical clearance.
 - The “up” arrow is pointing upward and the drain holes in the end cap are oriented downward.
 - All connections have been carefully wrapped to prevent moisture problems.
 - The antenna is in the desired mechanical tilt position.



Adjusting the Downtilt Angle.



Inverted Downtilt Mounting Option for Cases Where Downtilt Links do not Fit Between Antenna Mounts.

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平板宽天线安装架

DB380 和 DB380-3 抱杆安装架
DB5083 和 DB5083D 下倾安装架

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康普培训学院提供安装培训。

一般信息

- DB380配备了2套安装架，用来固定带有两个安装架的天线（下倾安装架使用DB5083）。
- DB380-3 配备3套安装架，用来固定带有三个安装架的天线（下倾安装架使用DB5083D）。
- 可安装外径为 2.4 英寸到 4.5 英寸 (*60 至 115 毫米) 的圆形构件或规格达 2.5 英寸 (63.5毫米) 有棱角构件。

*注：推荐安装管柱的最小直径为 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；但仅推荐在建筑上安装或在没有大的侧向风荷载的场合应用。



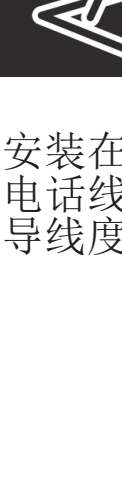
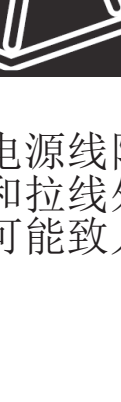
零件清单

序号	描述	数量		
		DB380	DB380-3	
1	带凸耳式安装架	2	3	
2	无凸耳式安装架	2	3	
3	M10-1.5 X 35六角头螺栓，高强度碳钢	4	6	
4	M10弹簧垫圈，热镀锌碳钢	4	6	
5	M10-1.5六角头螺母，热镀锌碳钢	8	12	
6	M12-1.75 X 190六角头螺栓，热镀锌碳钢	4	6	
7	M12平垫圈，热镀锌碳钢	8	12	
8	M12弹簧垫圈，热镀锌碳钢	4	6	
9	M12-1.75六角头螺母，热镀锌碳钢	8	12	

DB380/DB380-3

安装前说明

- 检查天线和硬件，确保所有零件齐备且没有物理损坏。
- 确保天线馈电接头与跳接电缆匹配。
- 检查天线背部标签上显示的频率范围是否与基站设备的频率范围匹配。
- 安装之前，将天线的“向上”箭头标签指向上方。这样放置可以使排水孔位于天线底部。

序号	描述	数量		
		DB5083	DB5083D	
1	下倾安装支架	1	2	
2	下倾安装支架	1	2	
3	M10弹簧垫圈，热镀锌碳钢	4	8	
4	M10-1.5六角头螺母，热镀锌碳钢	8	16	
5	M10-1.5X35六角头螺栓，高强度碳钢	4	8	
6	M10齿锁紧垫圈，热镀锌碳钢	2	4	

DB5083/DB5083D

可用的最大扭力	
M10	37 牛·米 (27 英尺/磅)
M12	58 牛·米 (43 英尺/磅)

(接第2页)

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。安德鲁 (Andrew) 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，安德鲁概不负责。



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。

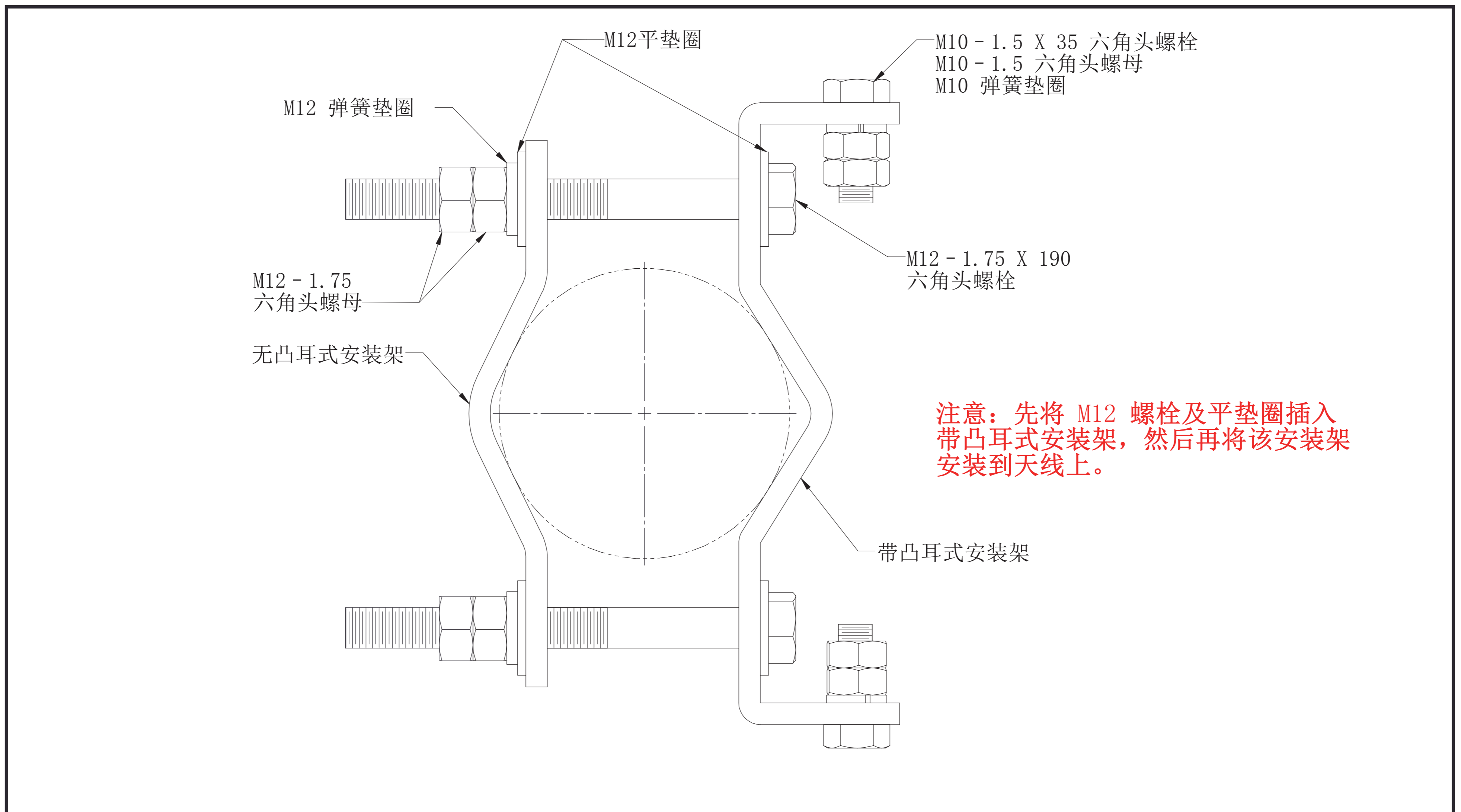


请勿在有雨、有风或者所在区域有闪电或雷声时安装，请勿使用金属梯子。

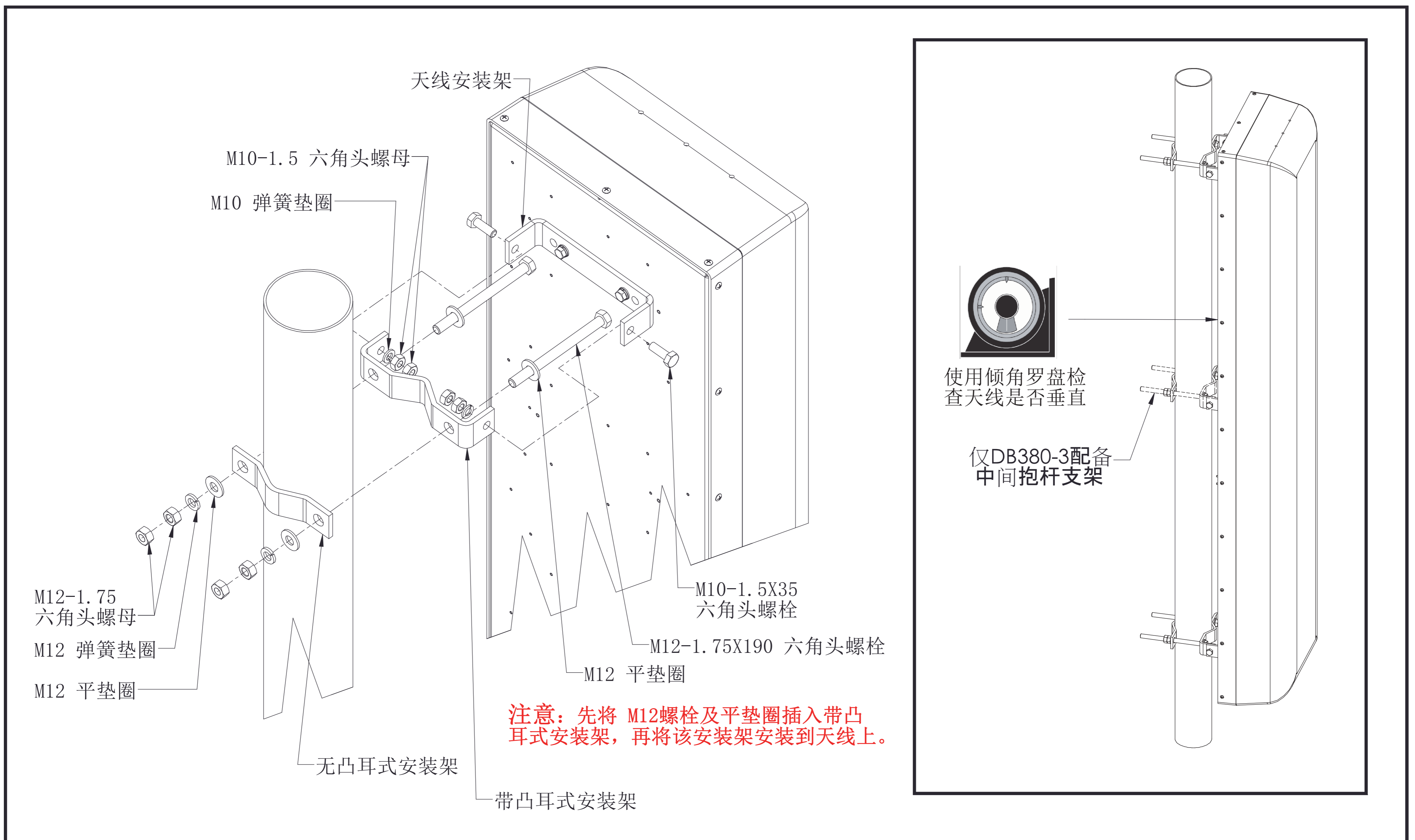


请穿上有橡胶鞋底和橡胶跟的鞋子。请穿有长袖衬衫和橡胶手套的防护服。

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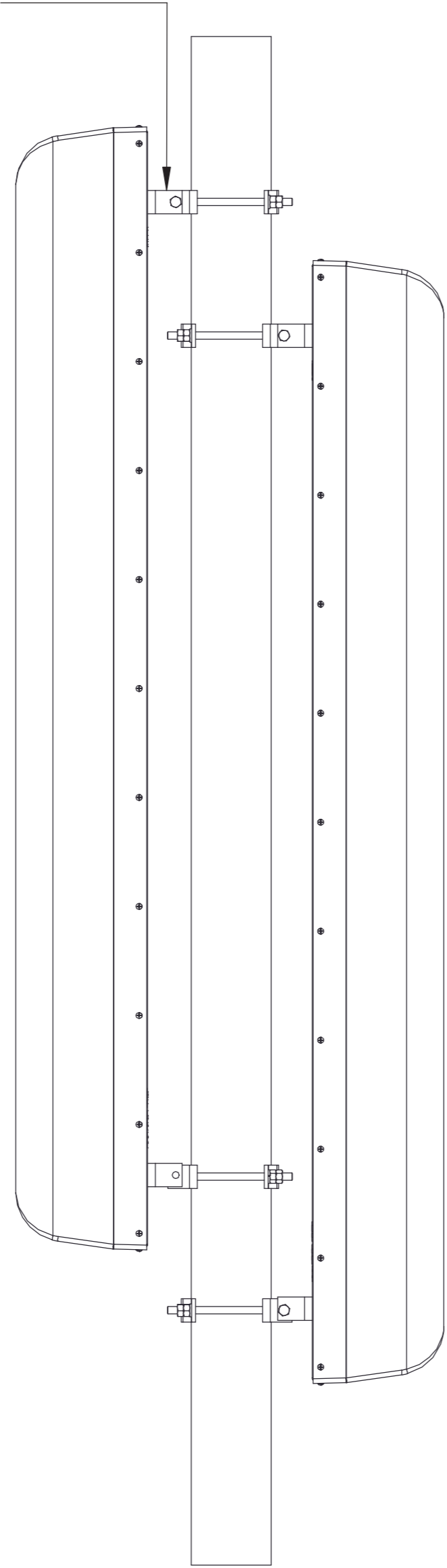
DB380/DB380-3 抱杆安装架。



用 DB380/DB380-3 将天线安装到抱杆上。

(接第2页)

将安装支架上下错开排列，使各安装支架之间的距离大约为 2 英寸，以便于在一根天线杆上最多可以安装 3 架天线。



使用这种安装方法应考虑的因素：

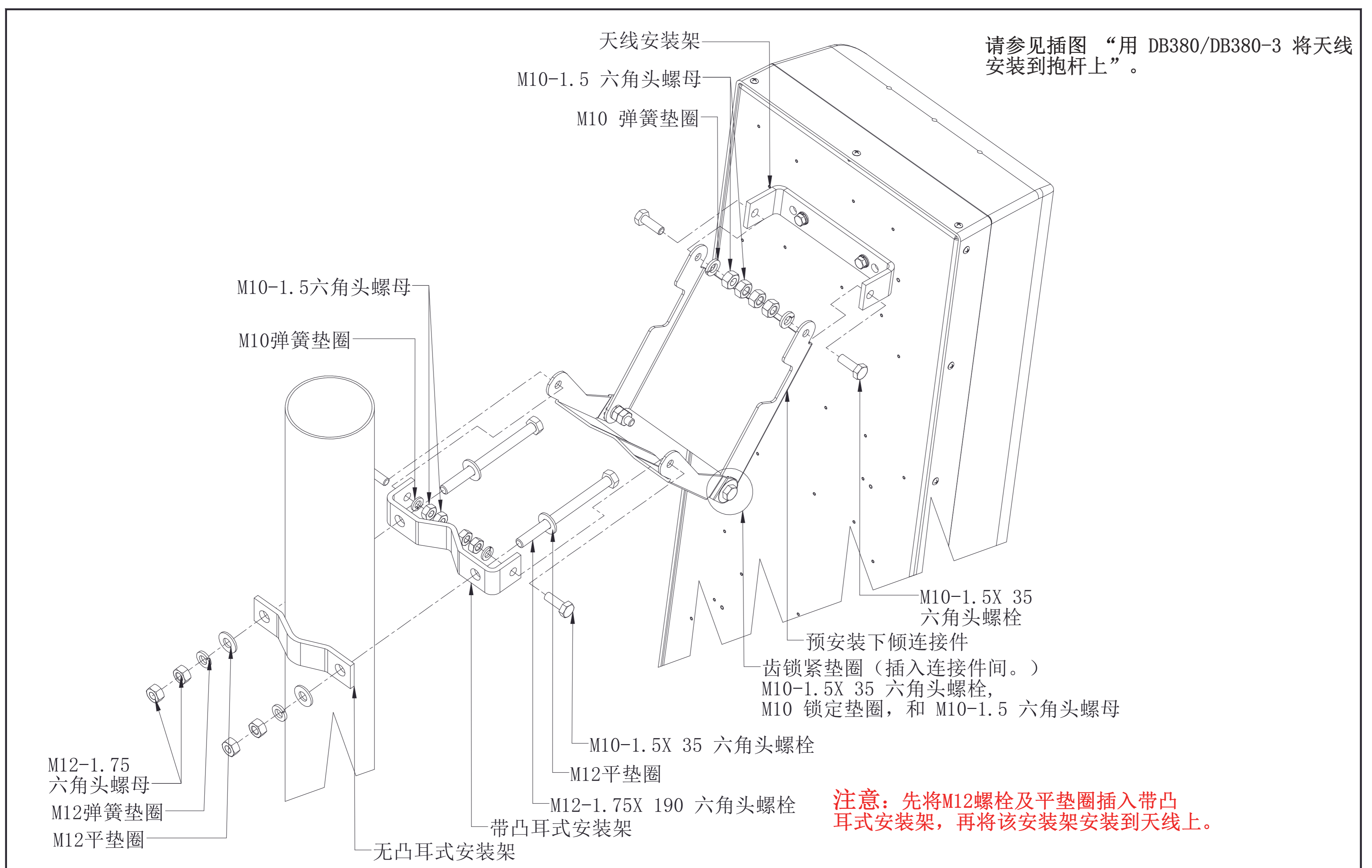
- 当需要高隔离度时，应对隔离度进行测量。
- 天线杆周围的组合补偿天线的总体直径。

将天线吊装到塔顶

- 在将天线吊装到塔顶之前，尽可能多地预组装安装硬件。
- 将一根缆绳连接在天线背面的顶部安装支架上。吊装天线时，应保持天线垂直。为安全起见，可将另外一根缆绳连接到天线安装支架上，用作其他地面人员的向接在底导。
- 将天线安装在塔顶的正确位置，并使用随附的硬件固定（请参见插图“用 DB380/DB380-3 将天线安装到抱杆上”）。

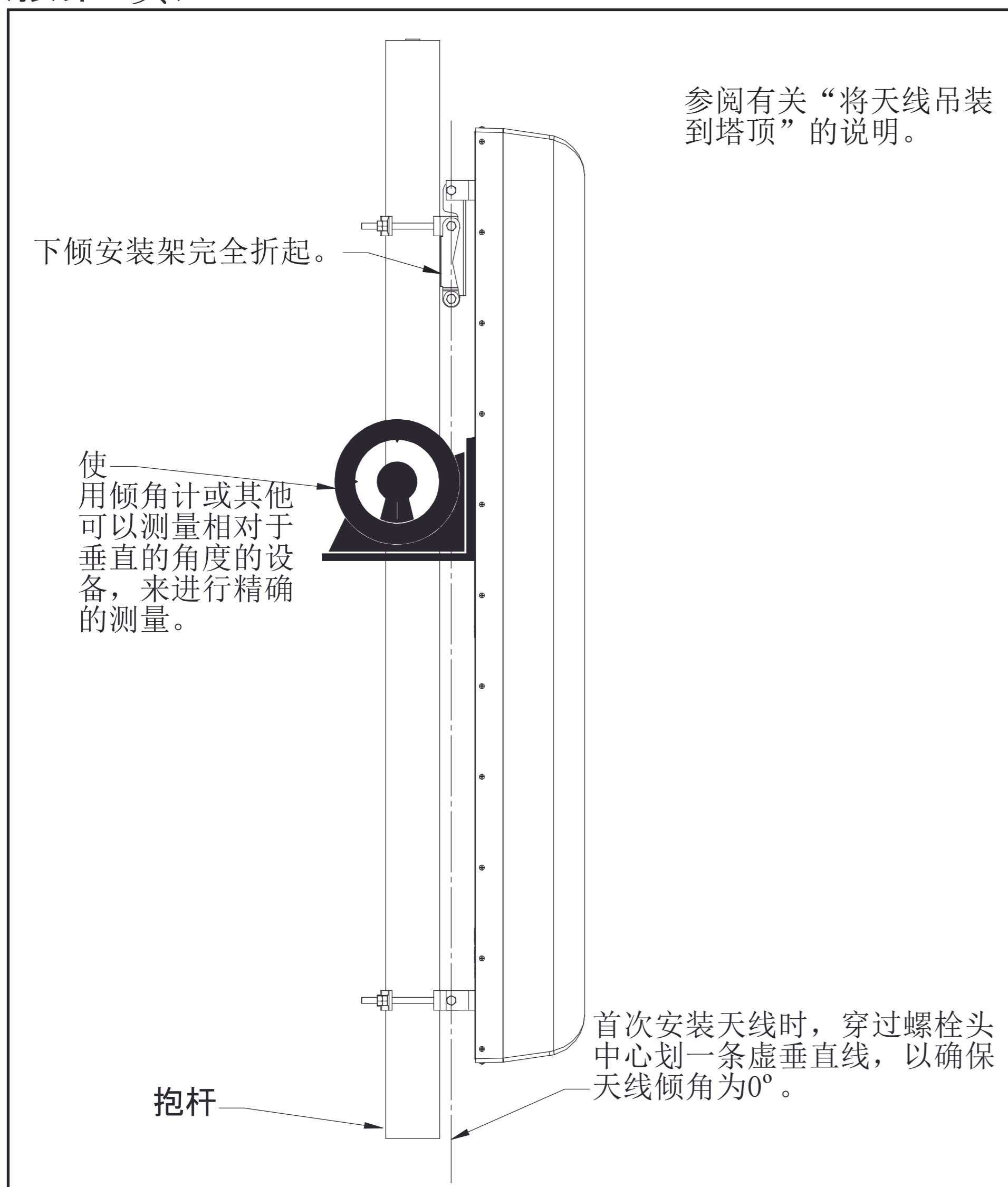
为避免天线扭曲，请确保所有安装架位于一条直线上。拧紧所有紧固件。

使用DB380/DB380-3 安装多根天线。



用DB5083/DB5083D 下倾安装架和DB380/DB380-3 抱杆安装架将天线安装到抱杆上。

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确保天线在 0° 完全折起。

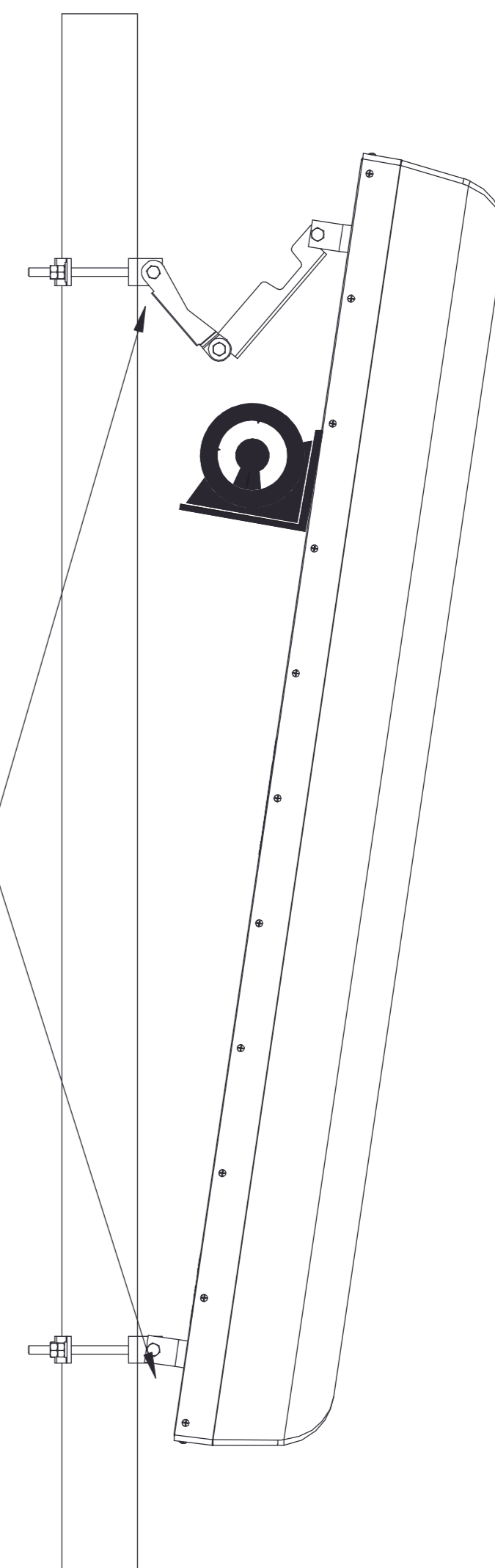
安装后说明

- 将基站传输线路（不提供）与天线连接。调整连接，使其稳固，但在使用手钳时不要用力过猛。
- 谨慎检查所有连接是否防风防雨，包括传输线路的所有裂缝和外包皮。如未对线路连接进行防水处理，则可能导致天线工作不正常。
- 将传输线路固定到塔上的最佳位置，以免对电缆造成物理性损坏。
- 安装好天线和传输线路之后，应进行仔细的目视检查，以确保：
 - 所有机械连接均已完成，且天线在安装时留有足够的物理间隙。
 - “向上”箭头指向上方，且节流阀端盖中的排水孔朝向下方。
 - 所有连接均经过妥善包裹以防止受潮。
 - 天线处在所需的机械倾斜位置。

备注：

- 根据天线的总体长度，可达到的最大下倾角度将会有所差别。
- 测量下倾角时，请说明塔身的倾斜角度。
- 使用倾角计或其他可以测量相对于垂直的角度的设备，来进行精确的下倾角度测量。

1. 松开螺栓，展开下倾安装架。
2. 展开下倾安装架，直到达所需要下倾角度。
3. 在设定好下倾角度后，小心地拧紧螺栓。请勿拧得过紧。

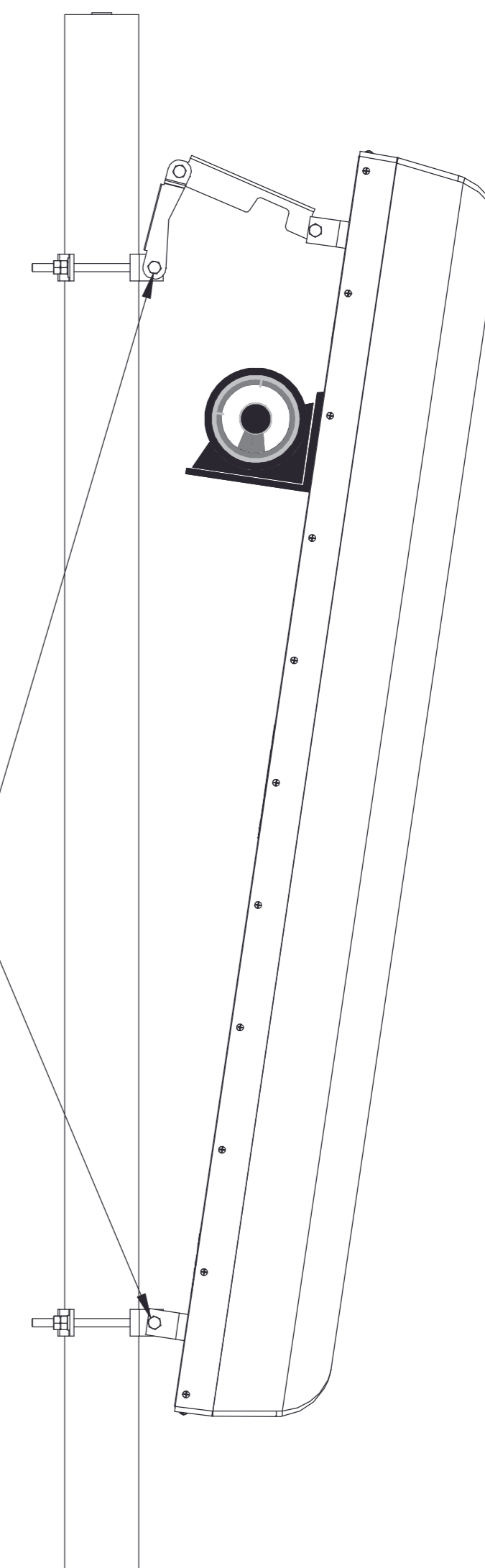


调节下倾角度。

备注：

- 根据天线的总体长度，可达到的最大下倾角度将会有所差别。
- 测量下倾角度时，请说明塔身的倾斜角度。
- 使用倾角计或其他可以测量相对于垂直的角度的设备，来进行精确的下倾角度测量。

1. 松开螺栓，展开下倾角度支架。
2. 展开下倾角度支架，直到达所需要下倾角度。
3. 在设定好下倾角度后，小心地拧紧螺栓。请勿拧得过紧。



在下倾角度链路不能安装在天线支架之间时，使用倒装下倾角度安装方法。

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