

P040-0097    Revision A,    October 2023

Mounting Kits For Small cell Antennas  
MC-MNT-SIDE-370: Mounting systems for cylindrical pipe installations (50-250mm pipe diameter)

Suitable for small cell cylindrical antennas with a weight less than 20KG and dimensions less than diameter\*height: 370\*610mm.

Installation Preparations



All fasteners must be tightened to the defined torque value after onsite installation, see mounting kit installation diagrams on following pages for correct torque recommendations.

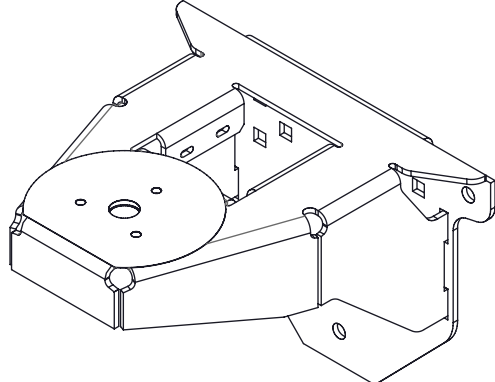
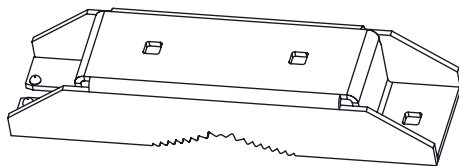
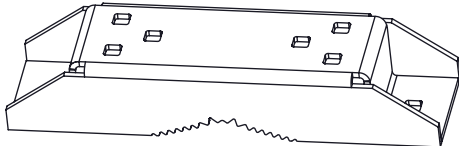
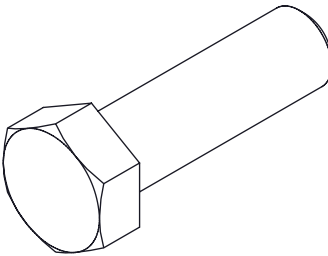
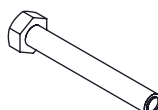
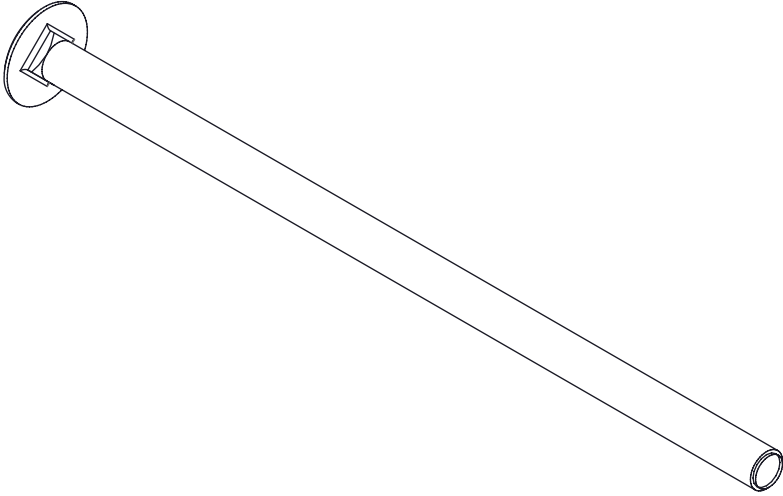
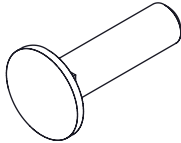
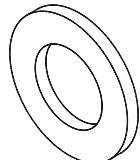
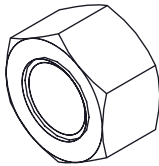
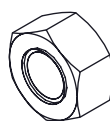
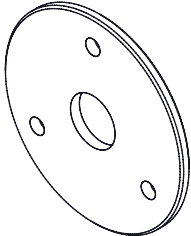
Installation tools list  
Figure 1 Installation tools lists



Table 1 Installation tools lists

| Tool          | Size | Torque Range    |
|---------------|------|-----------------|
| Torque wrench | 10mm | 14Nm(11ft.lbs)  |
| Socket        | 10mm | 14Nm(11ft.lbs)  |
| Torque wrench | 19mm | 58Nm(43ft.lbs)  |
| Socket        | 19mm | 58Nm(43ft.lbs)  |
| Torque wrench | 36mm | 100Nm(74ft.lbs) |
| Socket        | 36mm | 100Nm(74ft.lbs) |

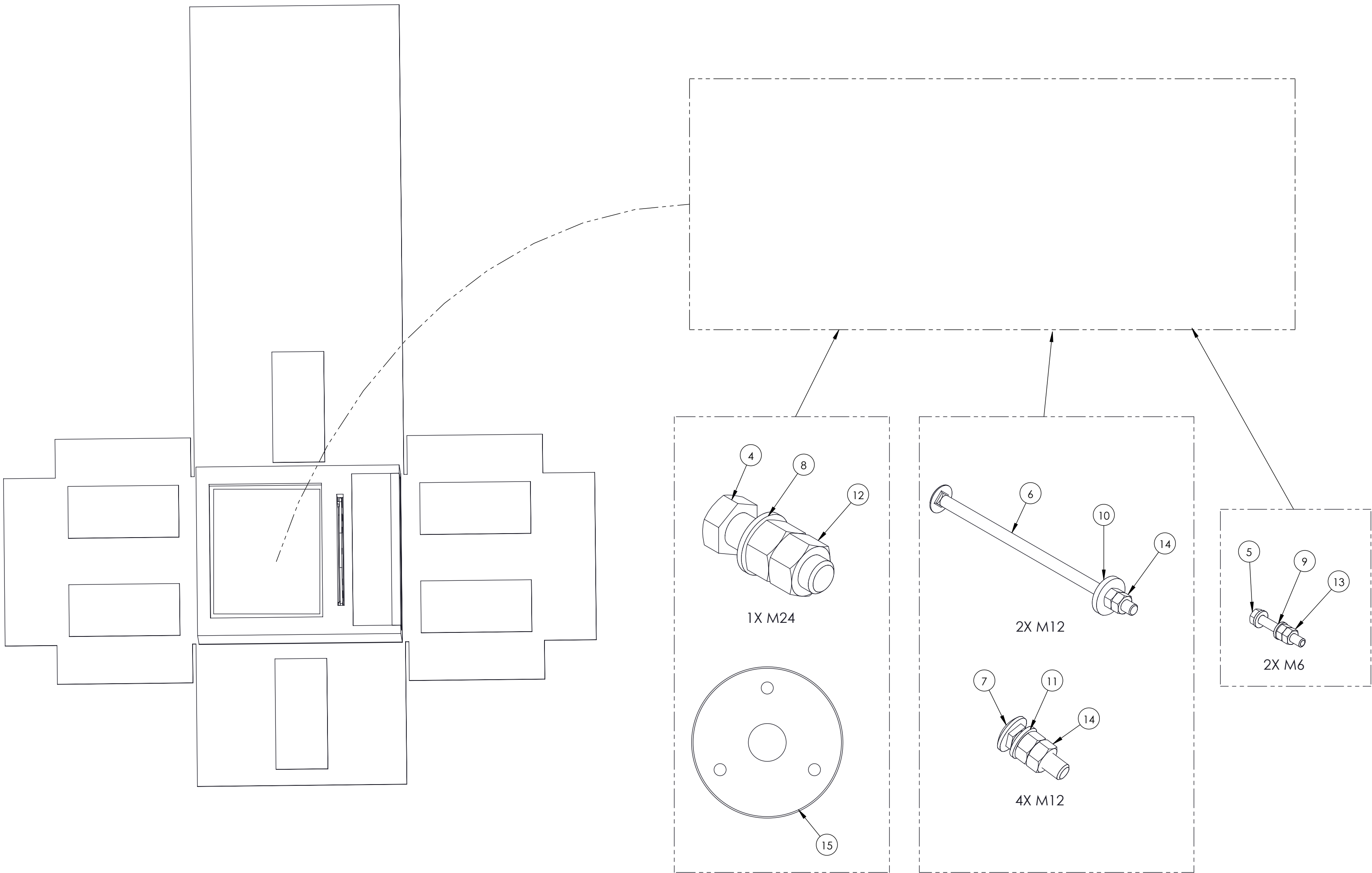


| ITEM NO. | DESCRIPTION                      | QTY | U/M | IMAGE                                                                                 |
|----------|----------------------------------|-----|-----|---------------------------------------------------------------------------------------|
| 1        | MOUNTING BRACKET,W/GASKET        | 1   | EA  |    |
| 2        | POLE CLAMP,MAIN BODY             | 1   | EA  |    |
| 3        | POLE CLAMP,MAIN BODY             | 1   | EA  |    |
| 4        | SCR,HCS,HEX,M24X80,STL,GALV      | 1   | EA  |    |
| 5        | SCR,HCS,HEX,M6X40,SST,PASS       | 2   | EA  |    |
| 6        | BOLT,CARRIAGE,M12X270,STL,GALV   | 2   | EA  |  |
| 7        | BOLT,CARRIAGE,M12X45,STL,GALV    | 4   | EA  |  |
| 8        | WSHR,FLT,M24,25X44X4,STL,GALV    | 1   | EA  |  |
| 9        | WSHR,FLAT,M6,6.4x12x1.6,SST,PASS | 4   | EA  |  |
| 10       | WSHR,FLAT,M12,13X40X6,STL,GALV   | 2   | EA  |  |
| 11       | WSHR,FLT,M12,13X24X2.5,STL,GALV  | 4   | EA  |  |
| 12       | NUT,HEX,M24,STL,GALV             | 2   | EA  |  |
| 13       | NUT,HEX,M6-1,SST,PASS            | 4   | EA  |  |
| 14       | NUT,HEX,M12,STL,GALV             | 12  | EA  |  |
| 15       | WSHR,FLAT,M24,25X100X5 STL,GALV  | 1   | EA  |  |

Part Lists

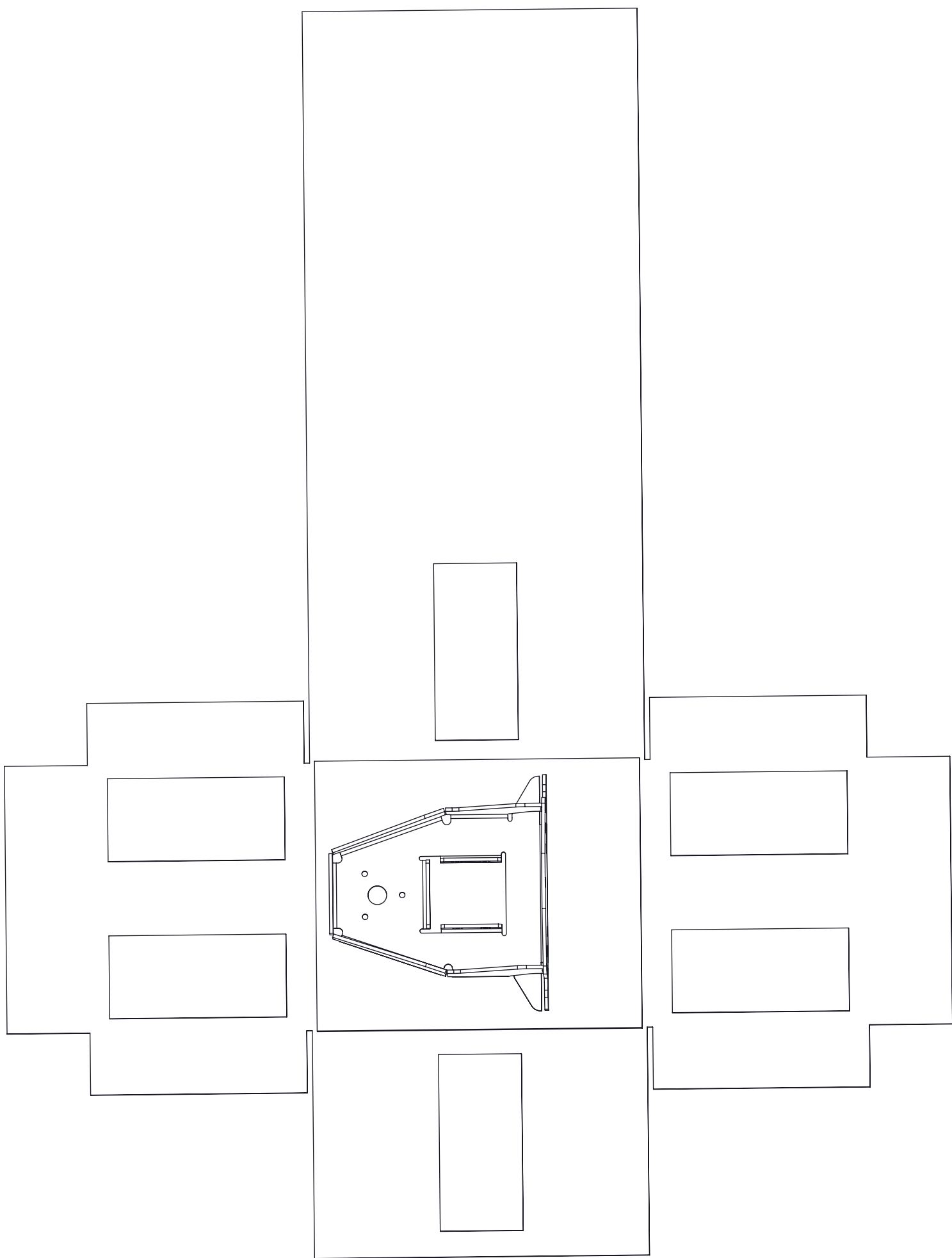


Step 1 : open carton



Pack fasteners in small bags, then put them in large bags

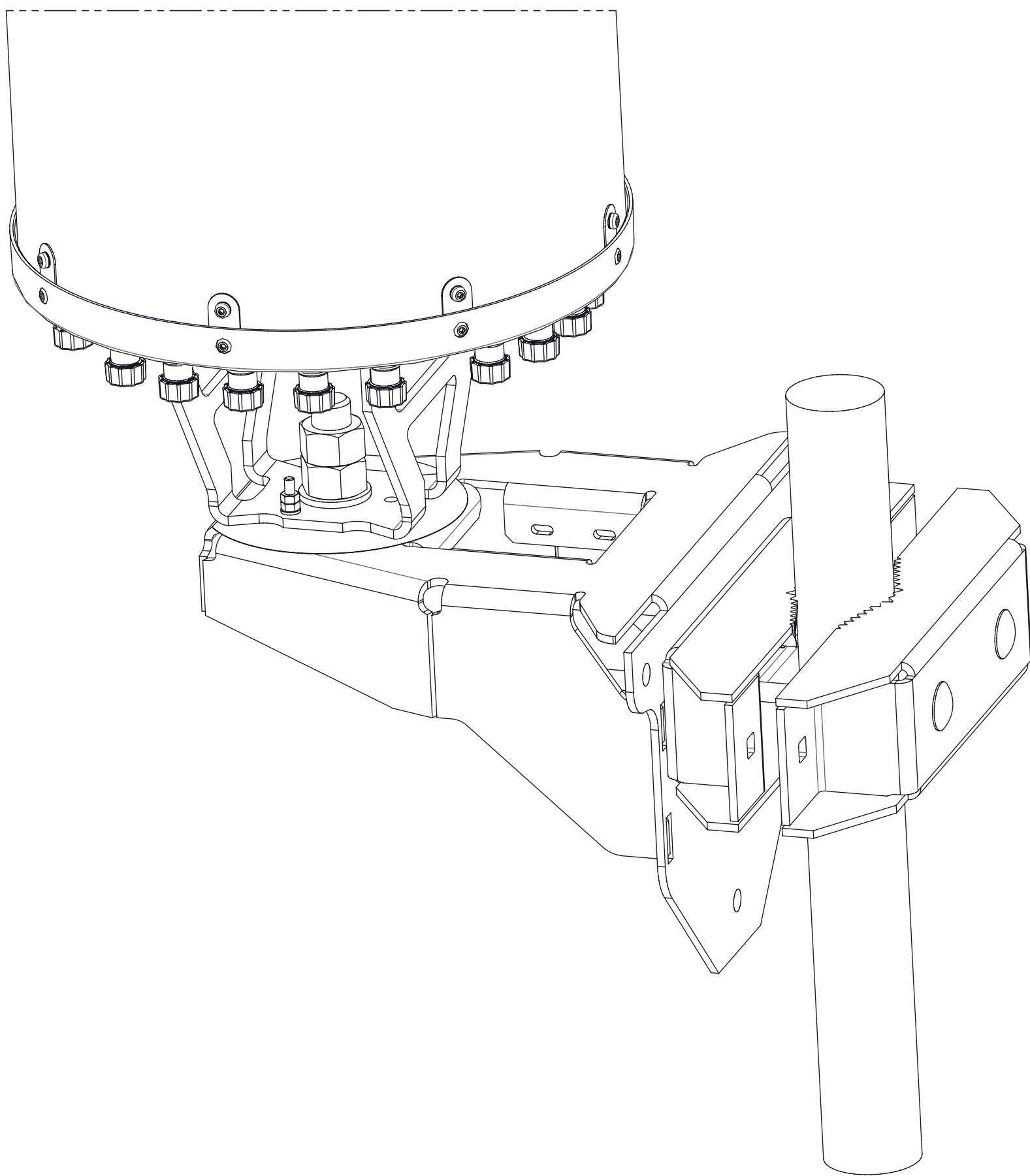
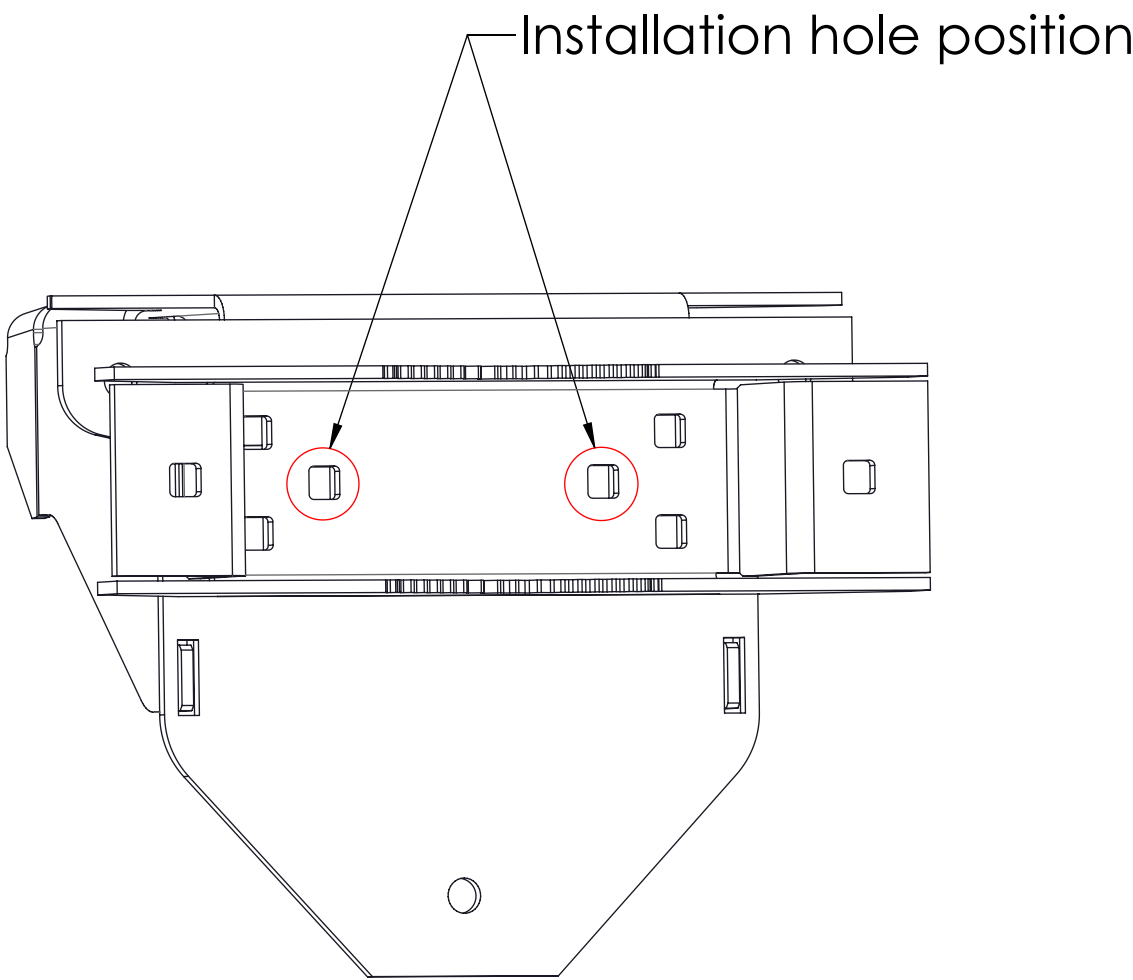
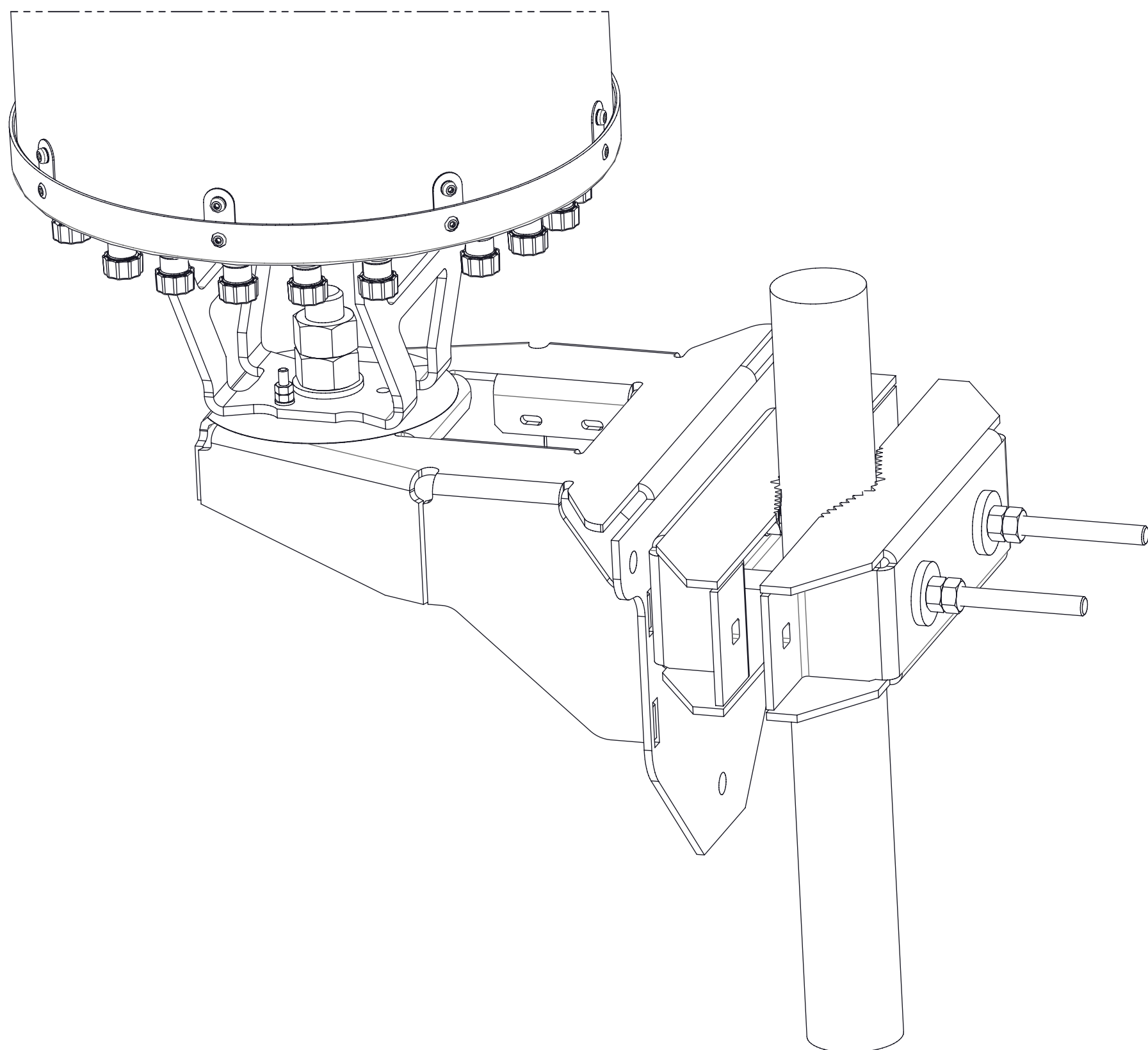
Step 2 : remove cushions & fasteners & pole clamps



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ATTENTION: Measure pole diameter to choose screw holes prior to assembly.

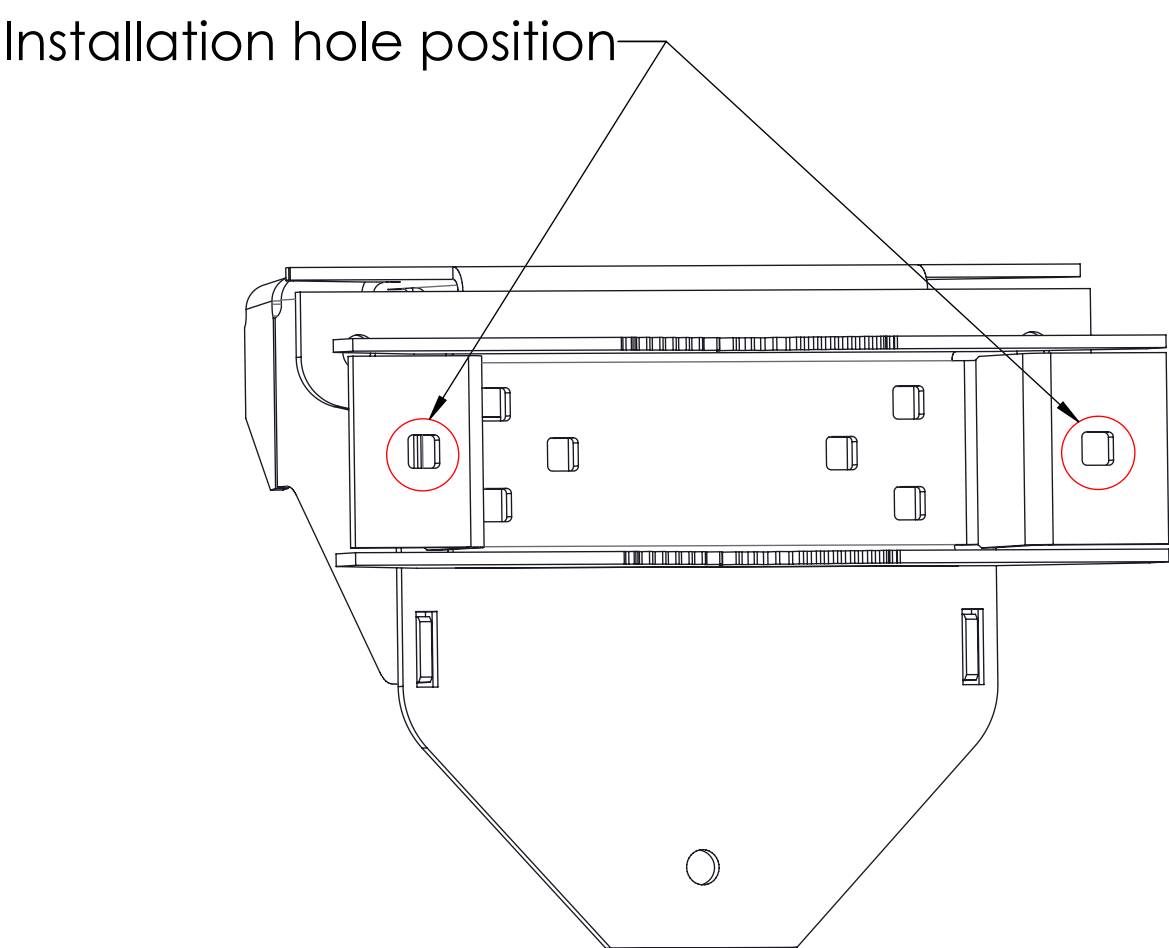
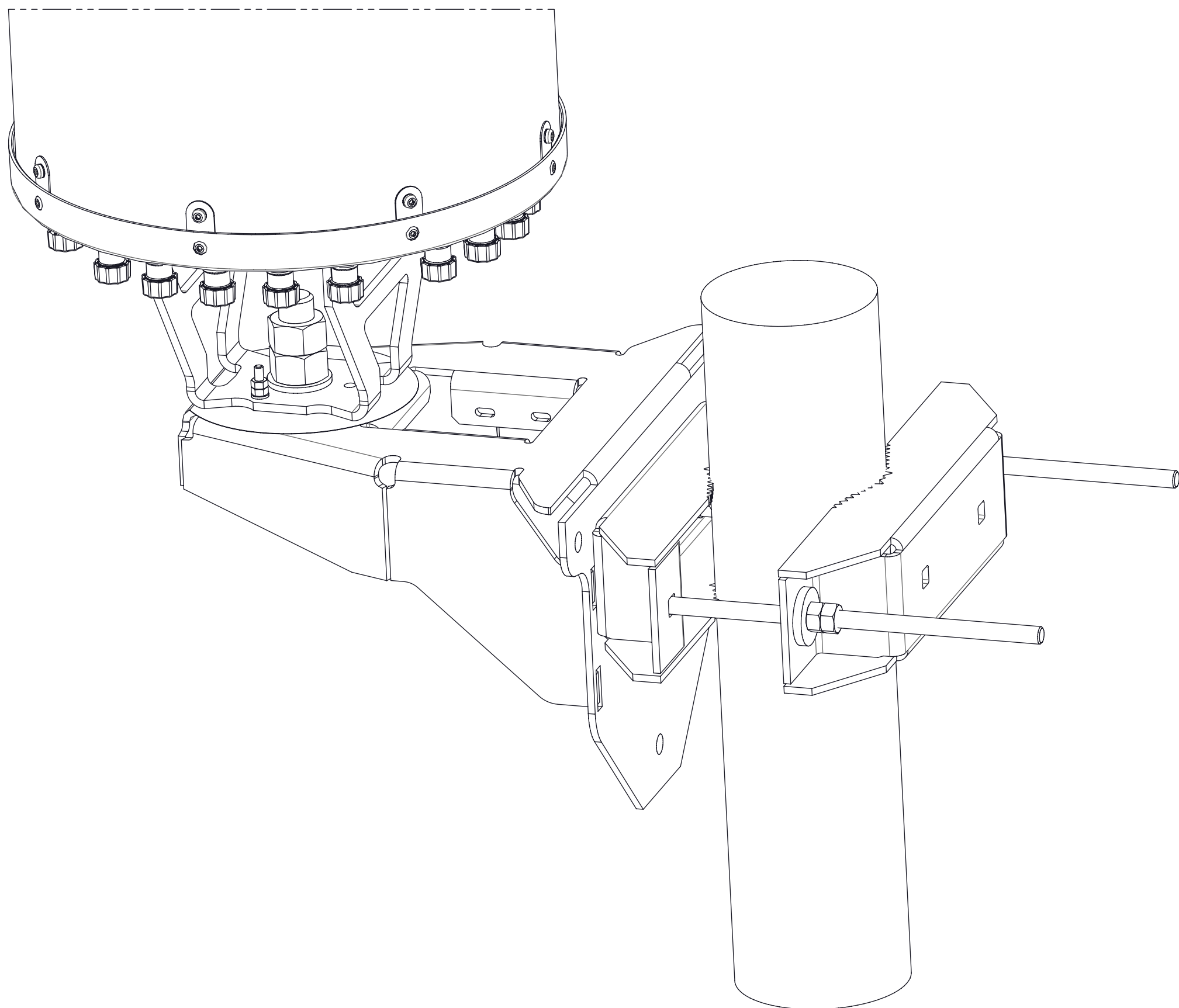


Pole is  $\varnothing$  50mm~100mm, use the inside screw holes for the bolts

PIPE DIAMETER



ATTENTION: Measure pole diameter to choose screw holes prior to assembly.



Pole is  $\varnothing$  101mm~250mm, use the outside screw holes for the bolts

PIPE DIAMETER



GENERAL INFORMATION

After removing the antenna from its shipping container carefully inspect it to ensure there is no shipping damage. If the antenna is to be hoisted into position, ensure the lifting eye bolt is correctly installed. Ensure the antenna is securely held during hoisting to avoid rotation on the lifting eye bolt.

INSTALLATION INSTRUCTIONS

Refer to Figures 2 and 3 for mounting and arrow direction. It is recommended that the mounting holes be marked and made ready in the mounting surface prior to installing the antenna.

**The arrow of each antenna is shown on brakcet one side. The direction of each antenna must be considered prior to mounting to ensure desired performance.**

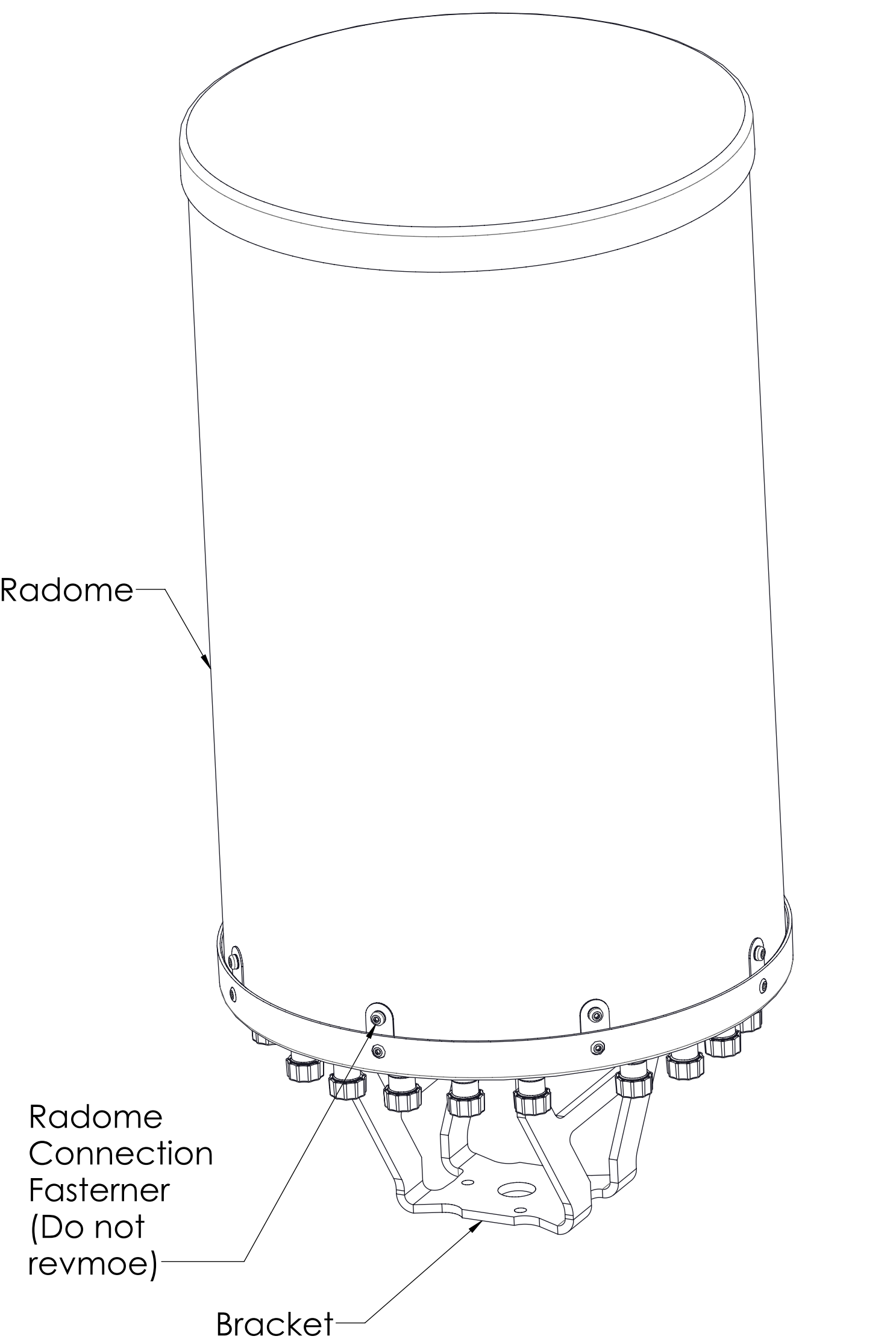


Figure 1. Small cell CommScope base station antennas

Warning: loosening or removing bolts that attach mounting plate to antenna will void warranty and may result in product damage or personal injury

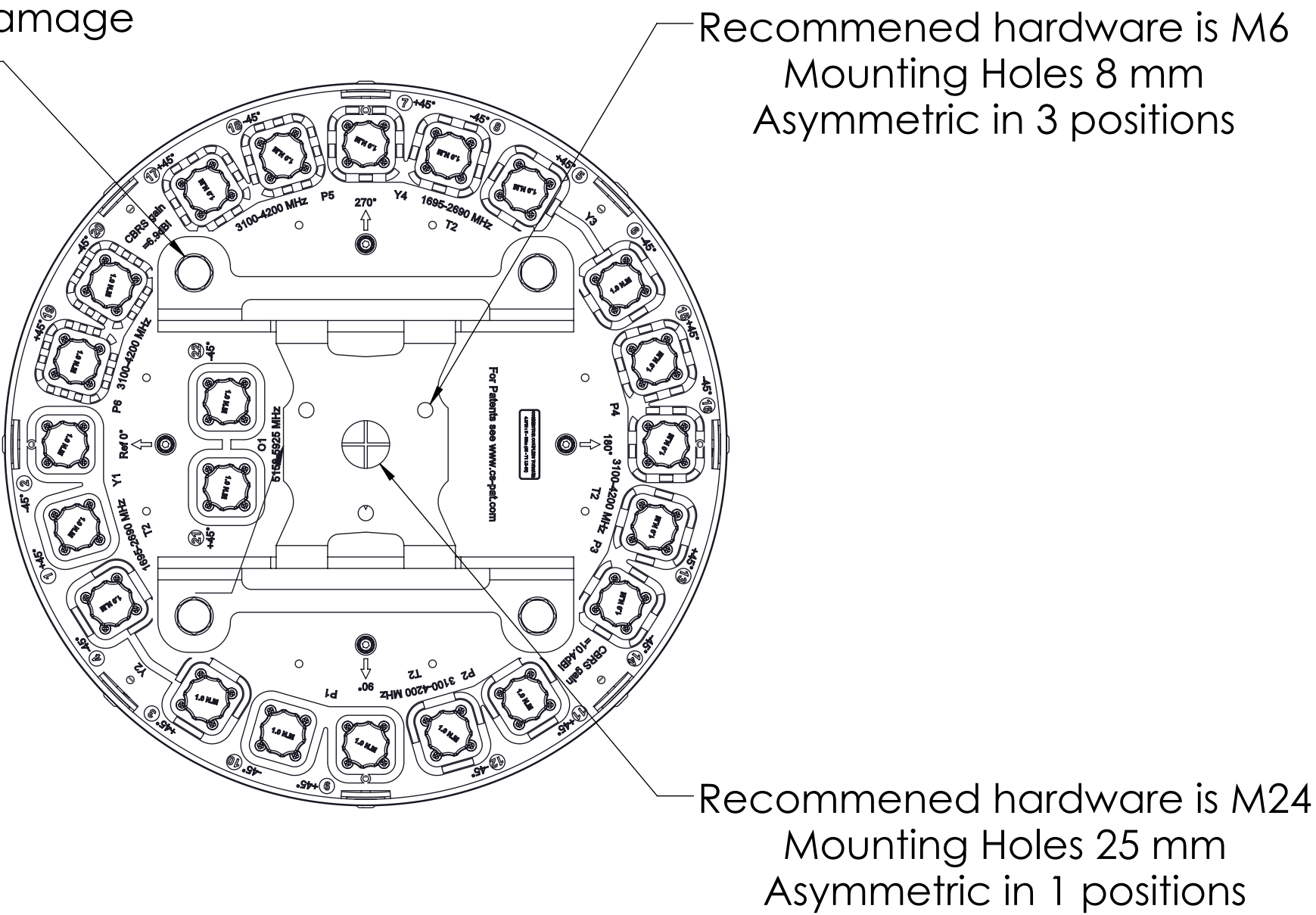


Figure 2. Mounting Holes on Brakcet Viewed From Bottom Side of Antenna

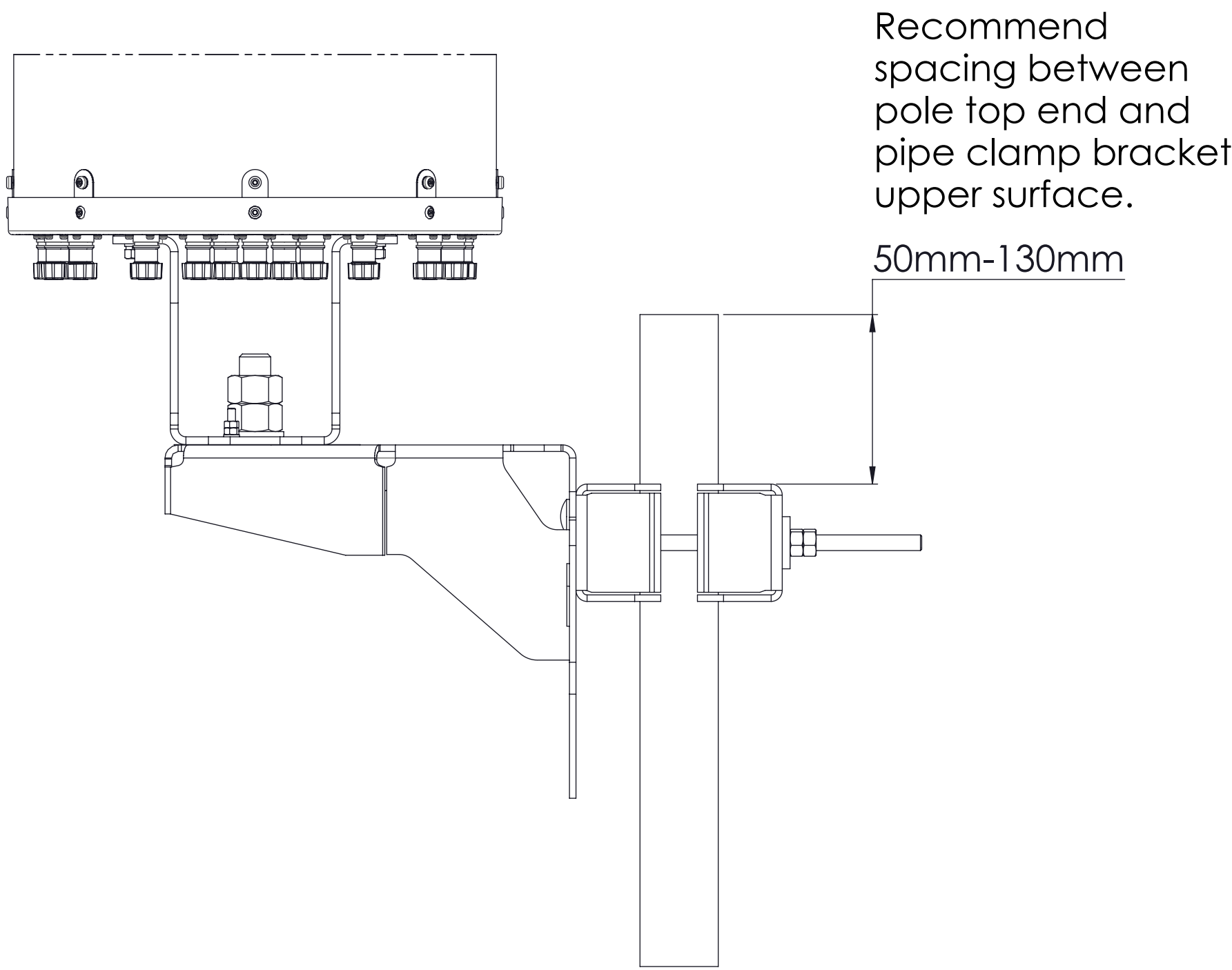


Figure 3. Pole And Clamp Distance

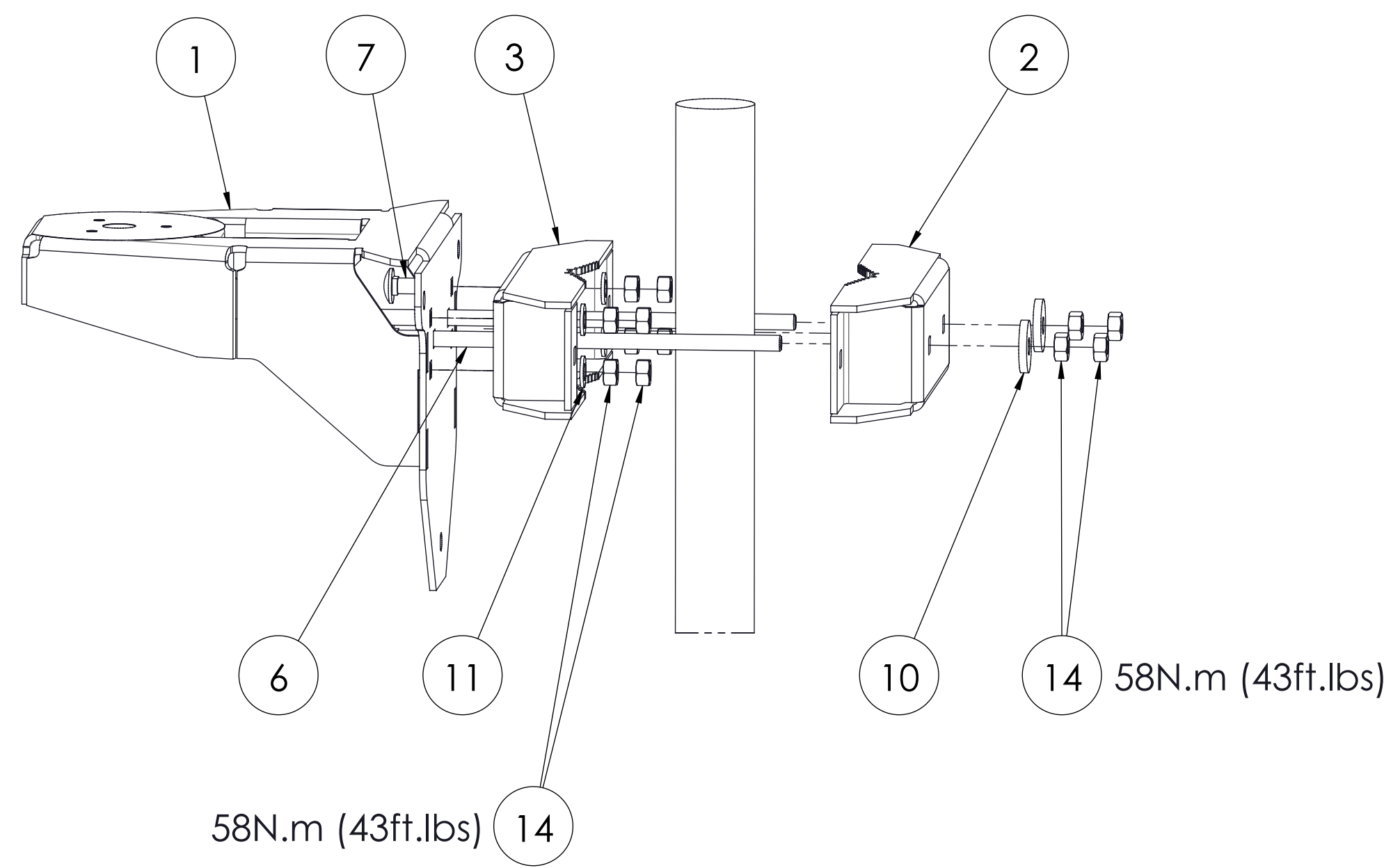
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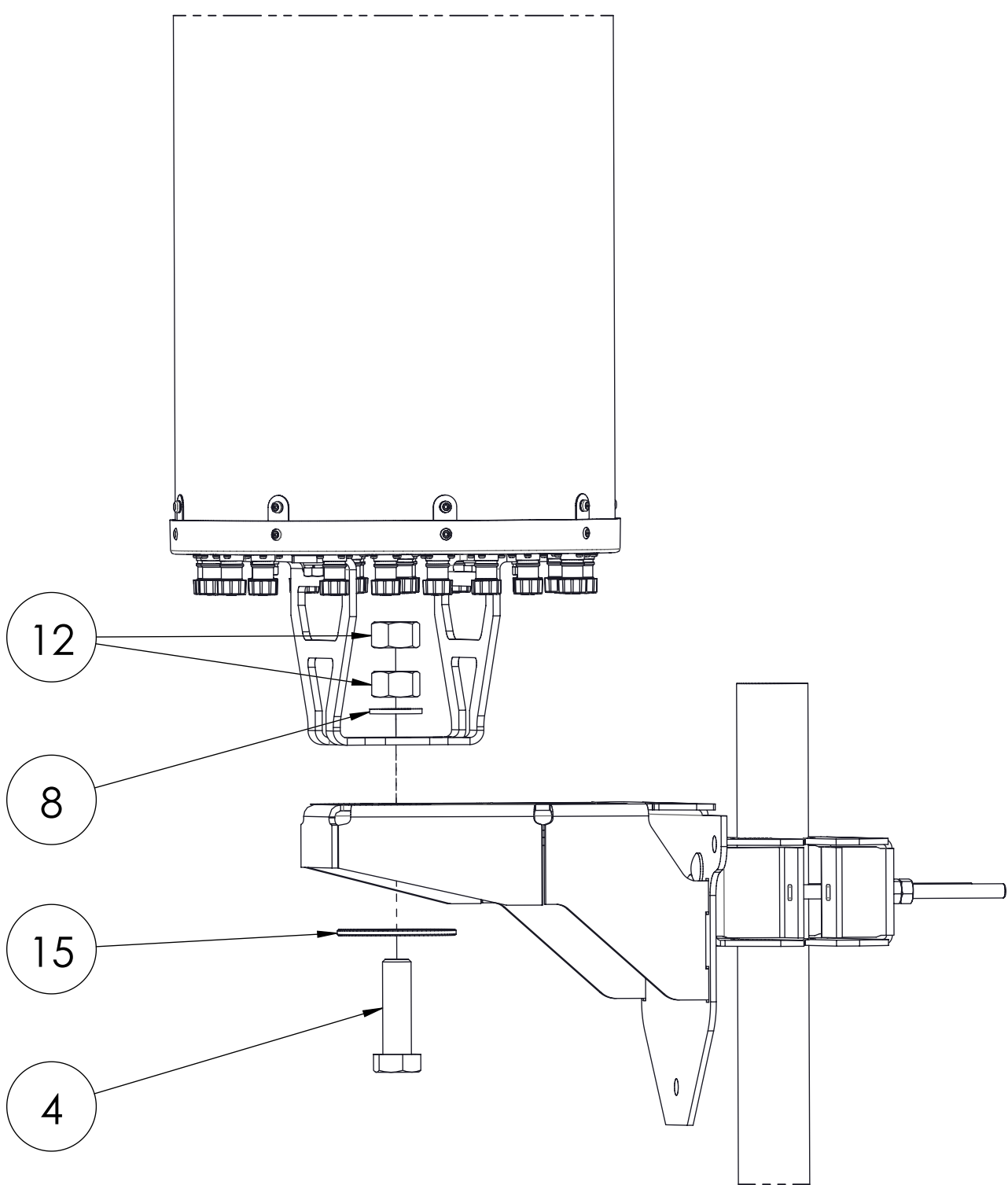
| REQUIRED TORQUE |                   |
|-----------------|-------------------|
| M6              | 14N.m (11ft.lbs)  |
| M12             | 58N.m (43ft.lbs)  |
| M24             | 100N.m (74ft.lbs) |

Method 1: Install the antenna on the pole

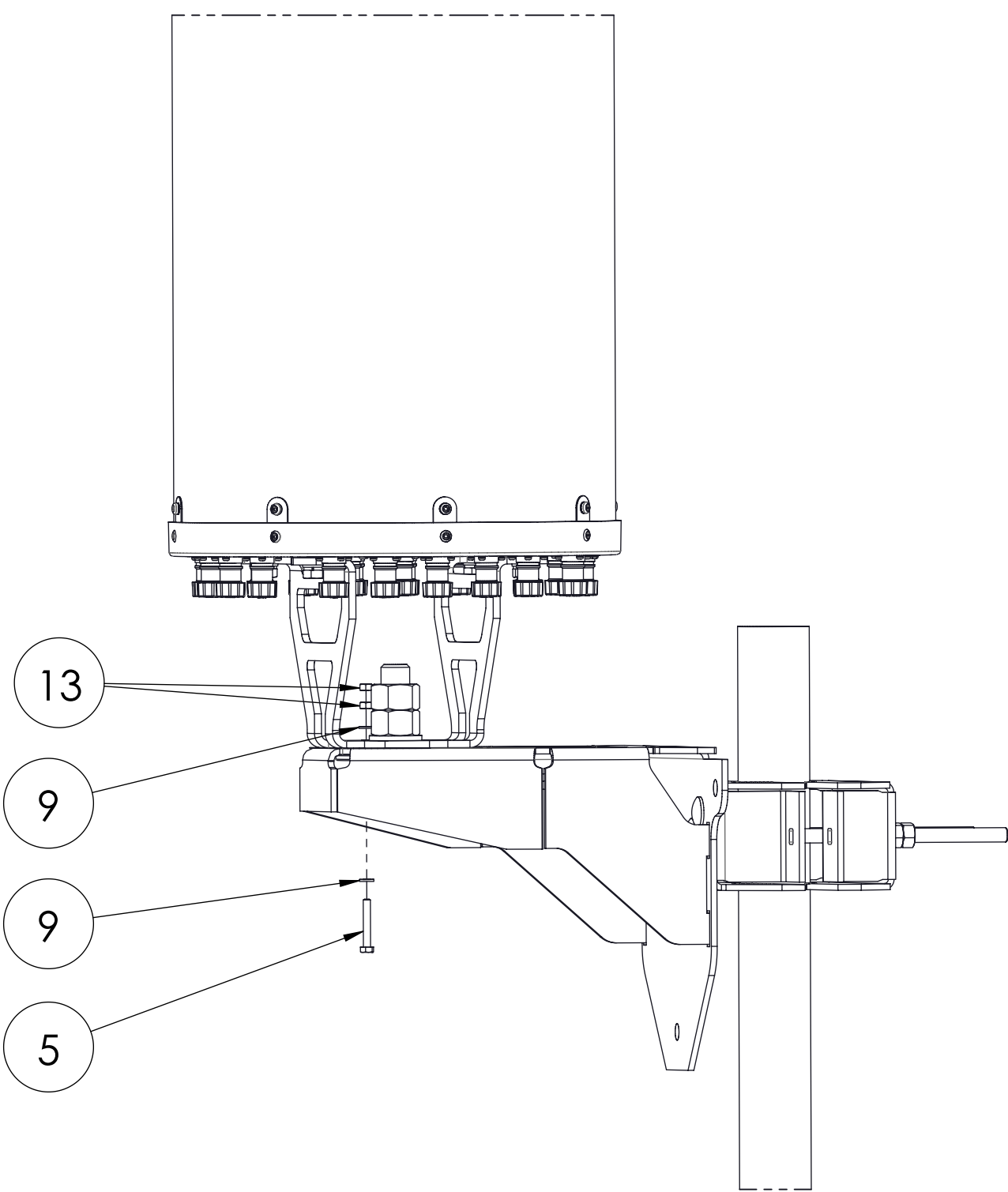
STEP 1 : Install the mounting kit on the pole



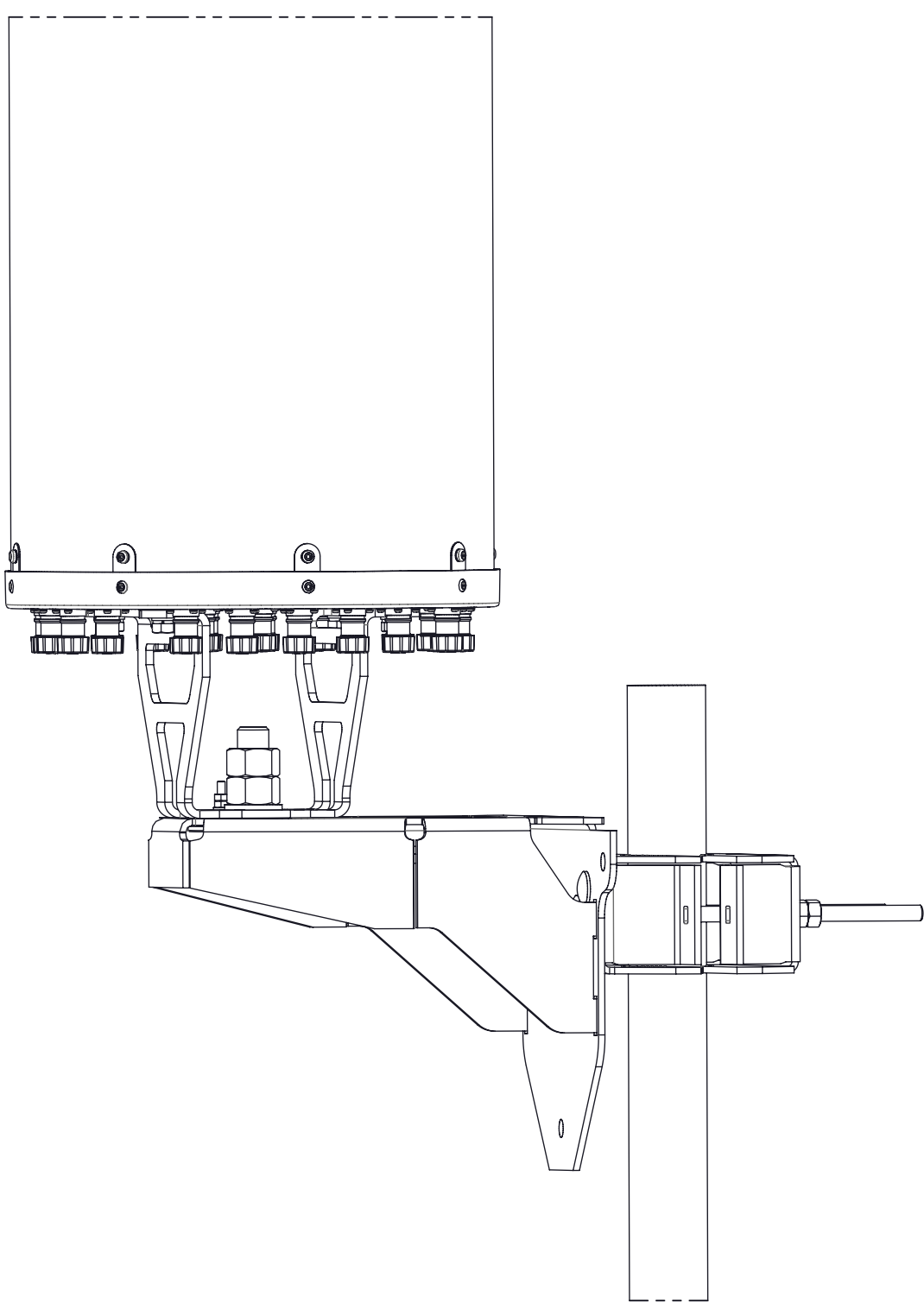
Step 2 : install small cell antenna on the bracket surface with M24 bolt and nuts.



Step 3 : Make sure the direction and install the M6 bolt and nuts



Step 4: Tighten the M24 nuts to 100 Nm

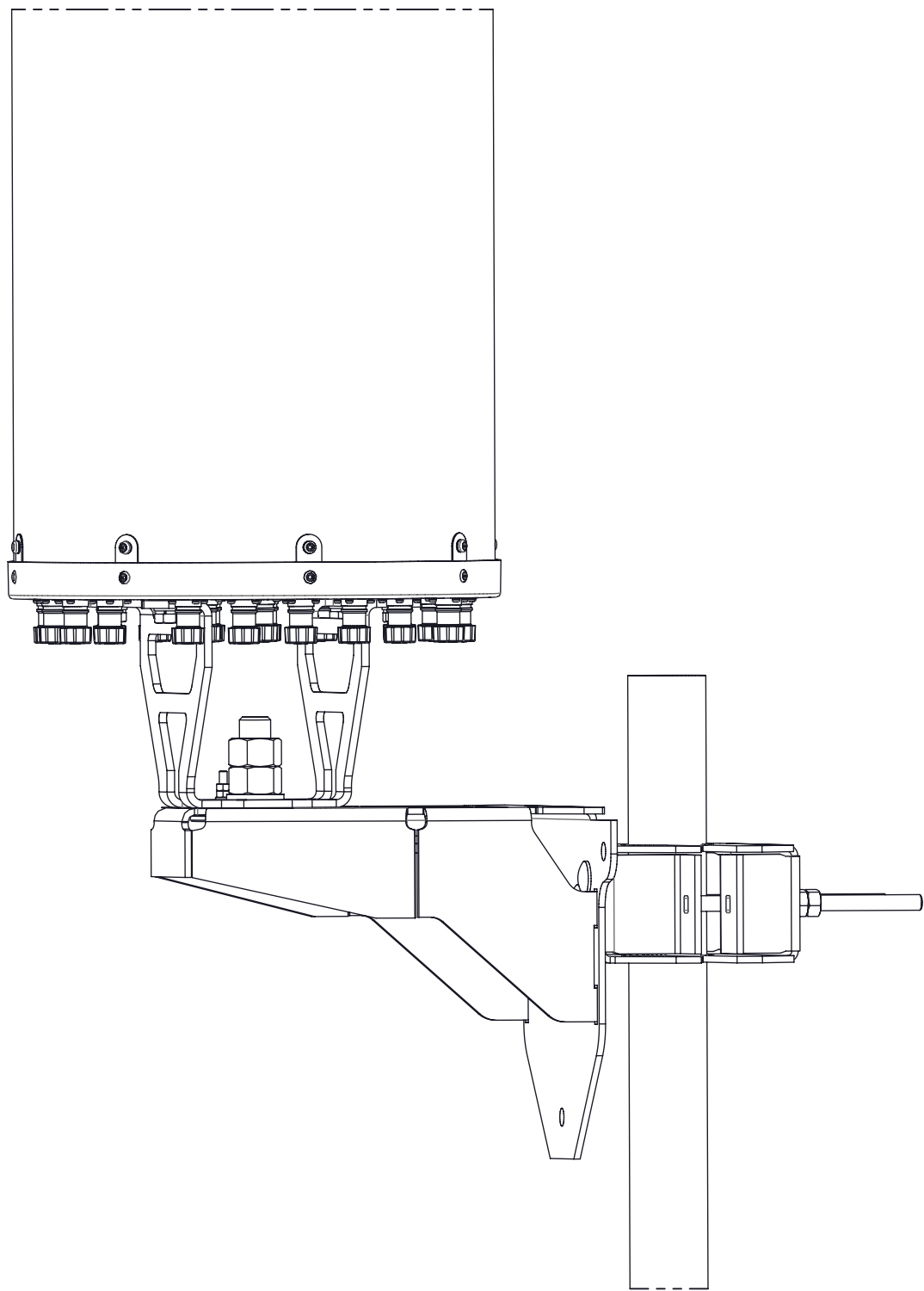


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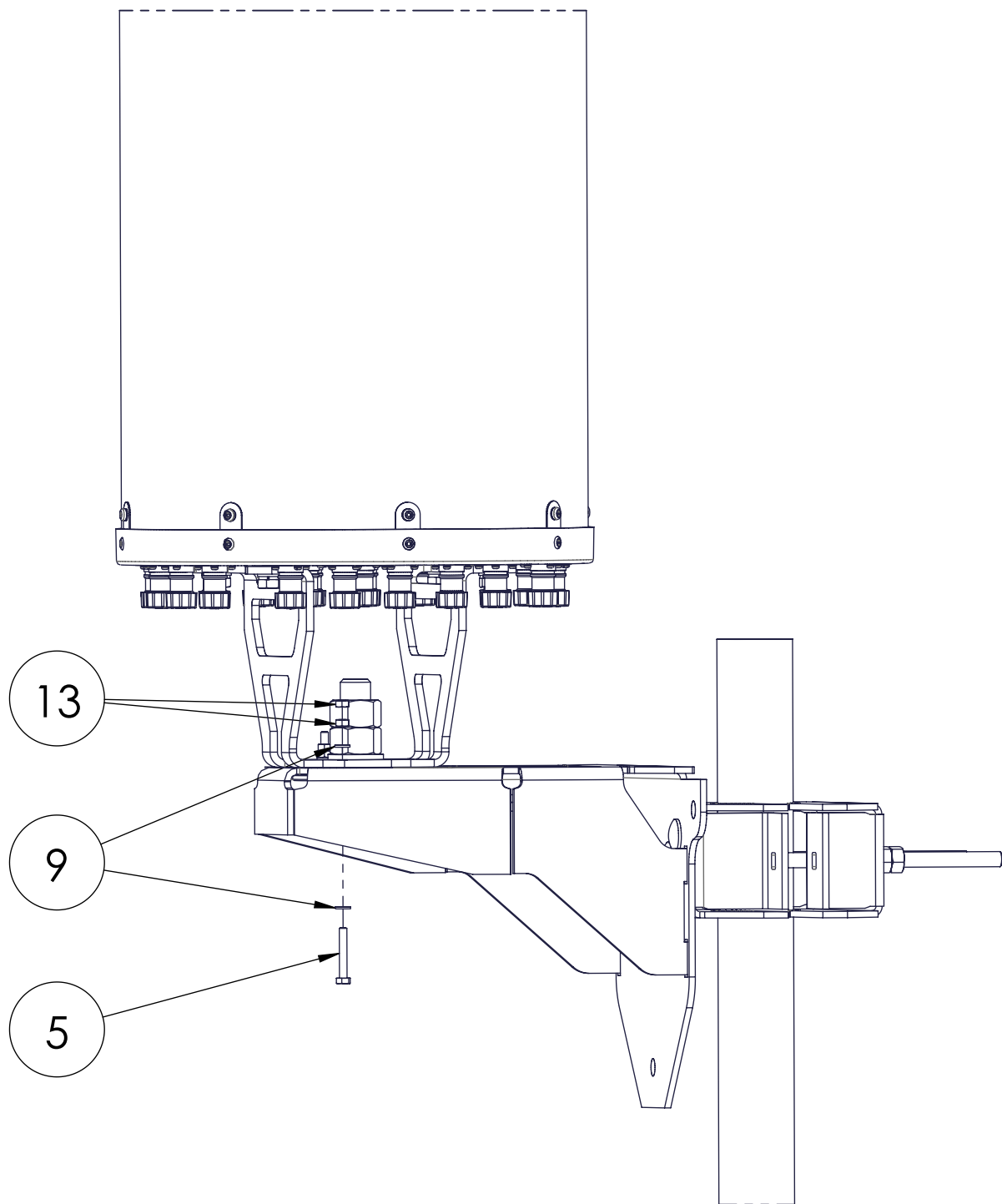


| REQUIRED TORQUE |                  |
|-----------------|------------------|
| M6              | 14N.m (37ft.lbs) |

Step 5: Tighten the M6 nuts to 14 Nm

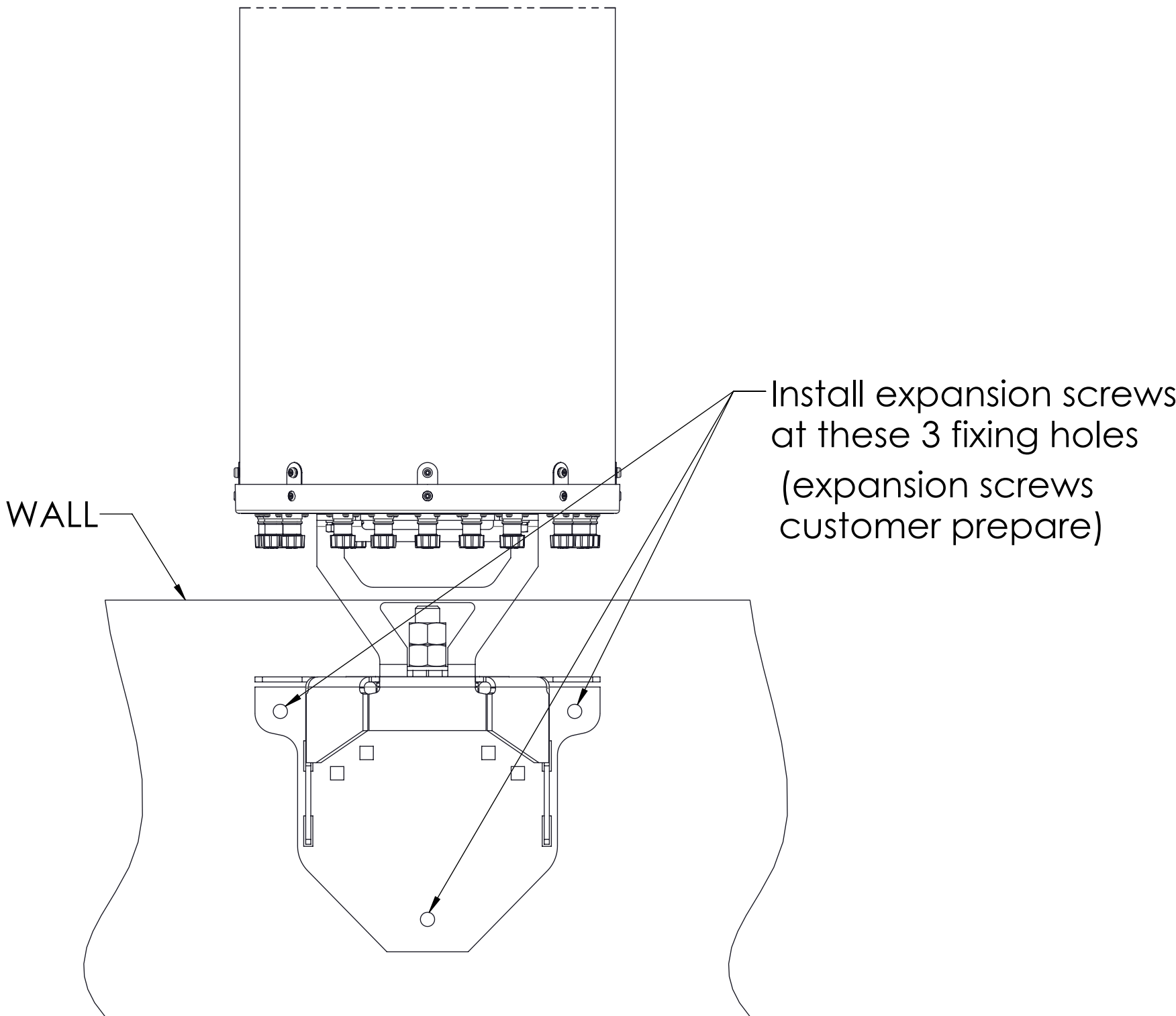
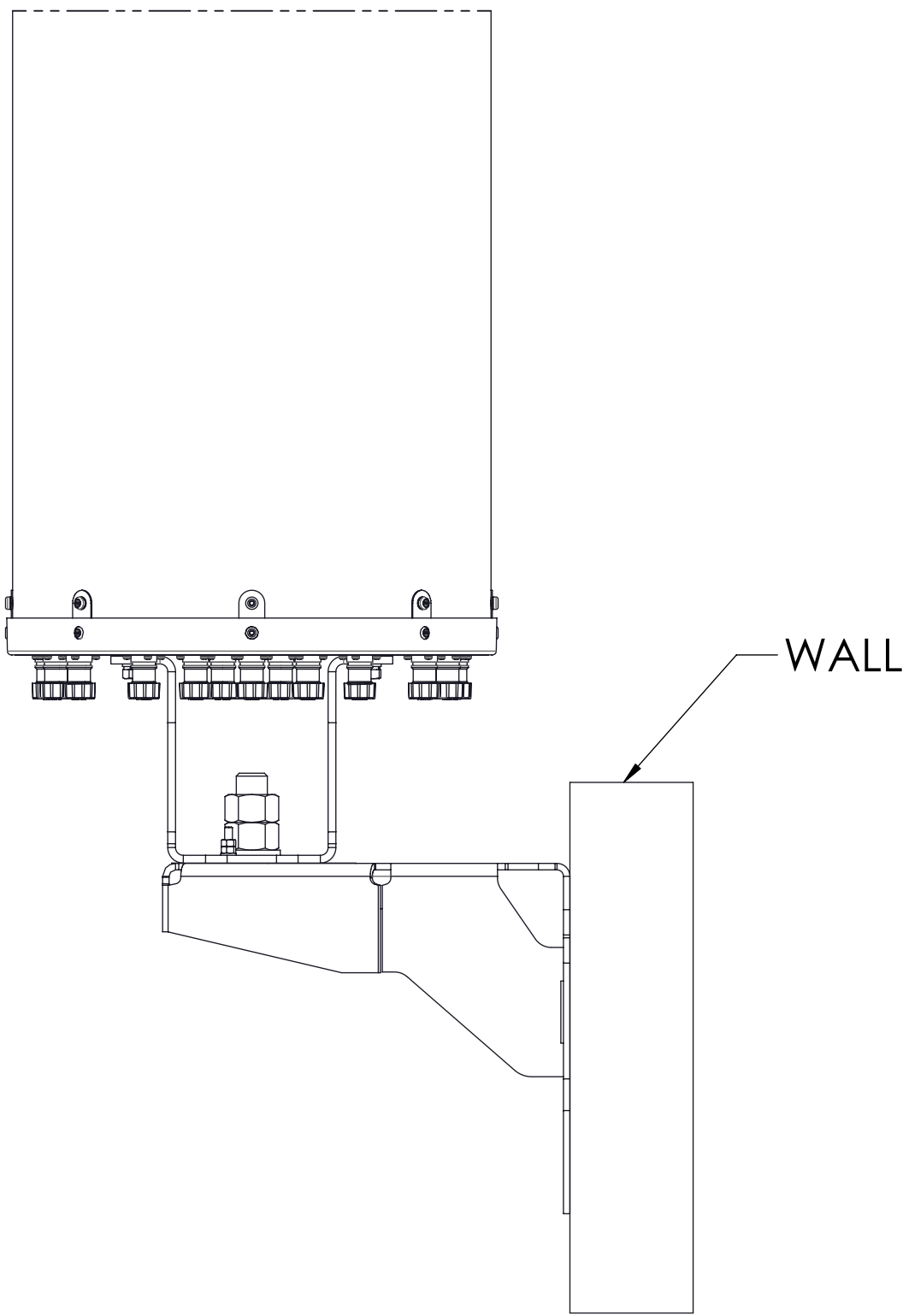


Step 6 : Choose a convenient location to install another M6 fastener, then tighten the M6 nuts to 14 Nm



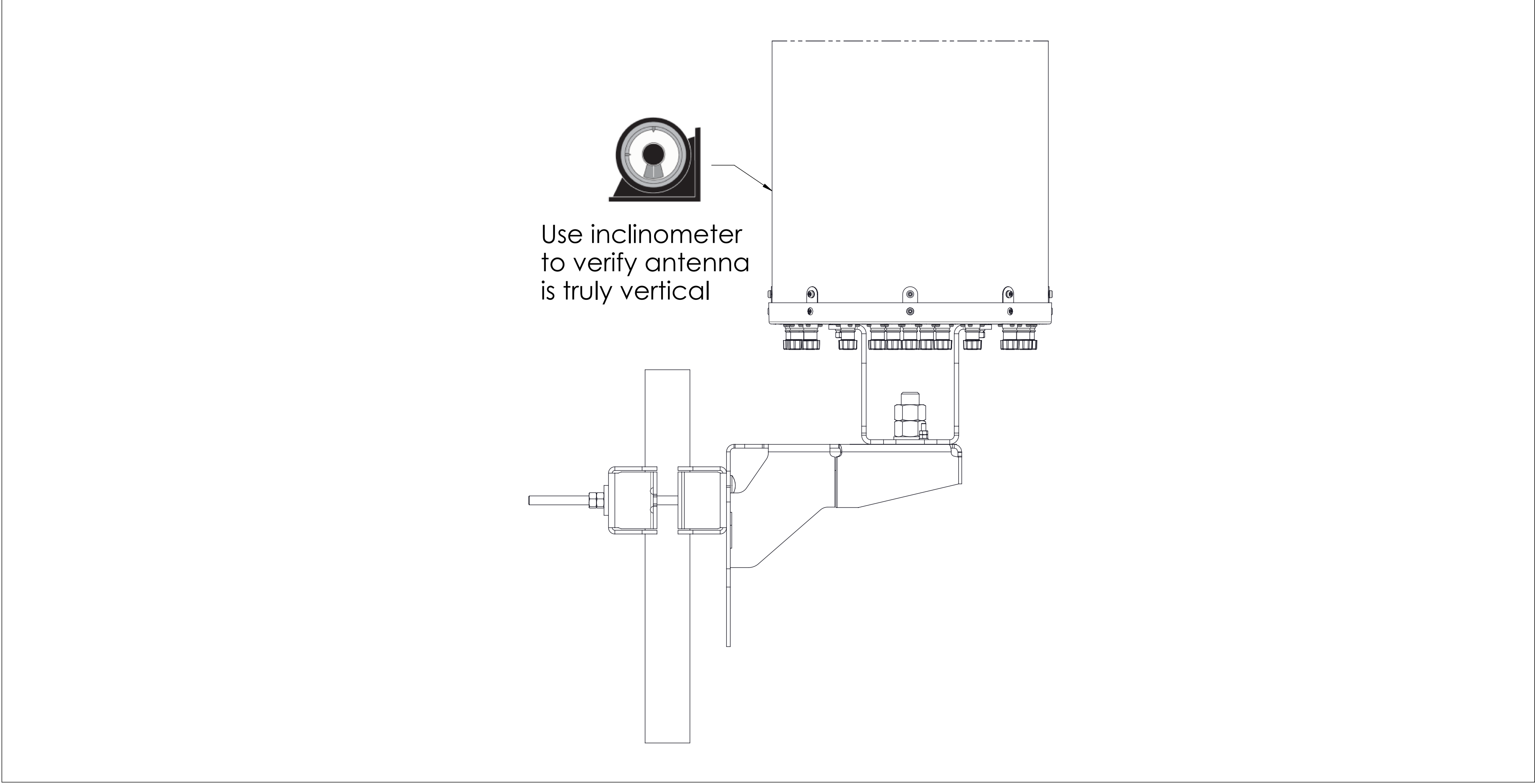
Method 2: Install the antenna on the wall

Antenna installation method reference method 1

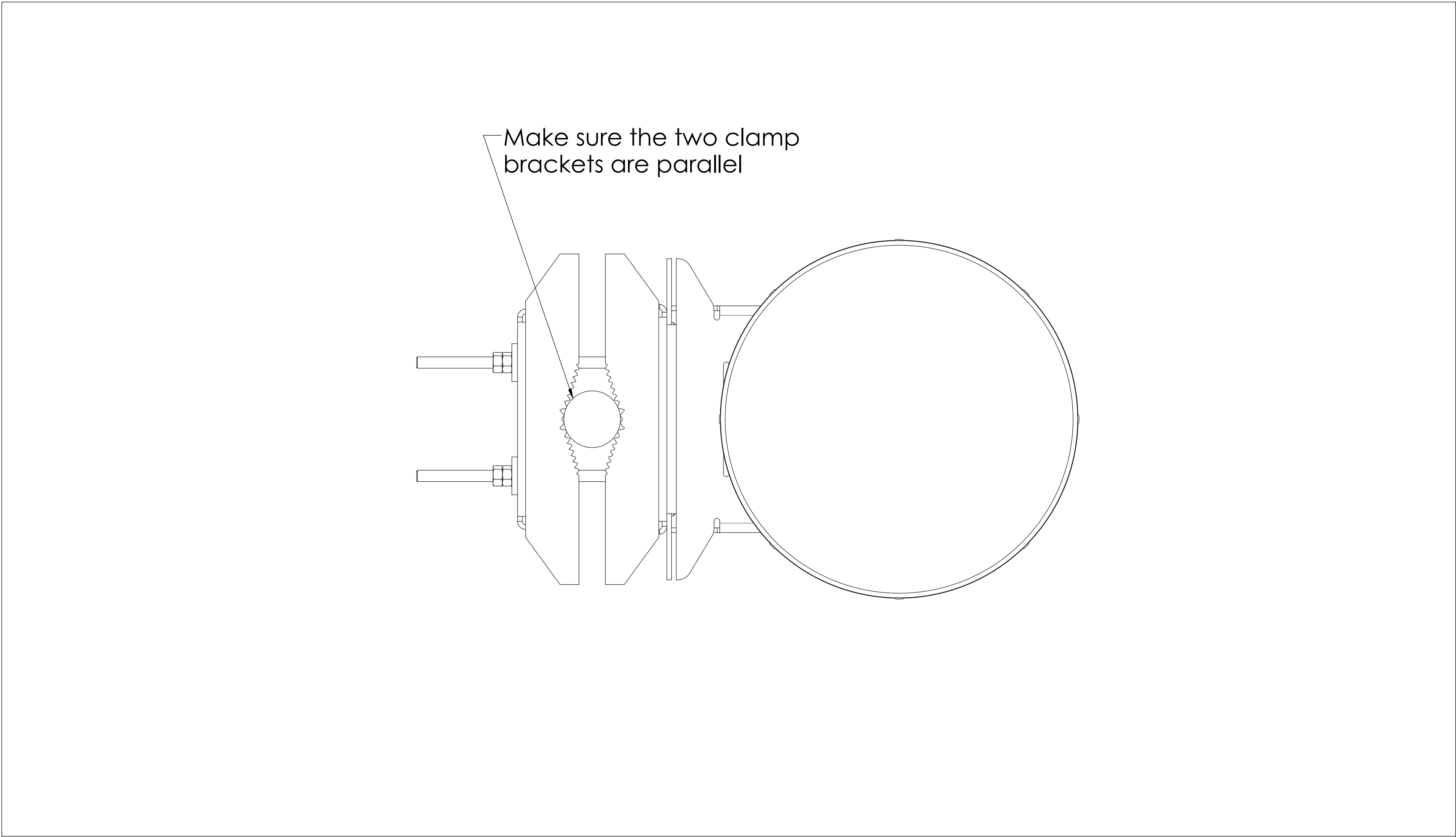


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**SAFETY NOTICE**

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.

It is recommended that transmit power be turned off when the field installation is performed. Follow all applicable safety precautions as shown on this page.



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.