

APM60-3D-DT Revision A, Aug 2025

Pipe Kit for Mounting 1 to 3 Antennas
APM60-3C-DT

GENERAL INFORMATION

The APM60-3C-DT is used for mounting one to three Andrew base station antennas to an existing pole measuring 88.9mm(3.5”), 114.3mm(4.5”), or 139.7mm(5.5”) in diameter.

ITEM NO.	DESCRIPTION	DESCRIPTION	QTY
1	638968-1	MOUNTING RING	2
2	638969-1	MOUNTING RING	2
3	100533-27	HEX HD SCR-M8 X 20-ST-GALVANIZE	20
4	100522-33	WSHR,LK,SPLT,M8,STL,GALV	20
5	100521-33	WSHR,FLT,M8,8.4X16X1.6,STL,GALV	24
6	100534-133	SCR,HCS,HEX M8X50,STL,GALV	4
7	100526-131	NUT, HEX,M8-1.25,STL,GALV	8
8	204035-35	SCR,FH,HEXSOCK,M8X16,STL,GALV	4
9	638970-1	BRACKET,MOUNTING POLE	6
10	650027-1	4.5 INCH PIPE ADAPTER	4
11	650028-1	3.5 INCH PIPE ADAPTER	4
12	100522-39	WSHR,LK,SPLT,M10,STL,GALV	12
13	100526-39	NUT,HEX,M10,STL,GALV	42
14	100534-405	SCR,HCS,HEX,M10X40,STL,GALV	18
15	30054870	BSAMNT-ADAPT1-AAS	6
16	20054650	SCREW CARRIAGE M8 X 20, CS GVRO COMBINED	24
17	P155-0150-1	BRACKET PLATE	3
18	P155-0151-1	BRACKET,DOWN TILT	3
19	100521-39	WSHR,FLT,M10,10.5X20X2,STL,GALV	6
20	100936-27	BOLT,CARRIAGE,M12X40,STL,GALV	6
21	100521-47	WSHR,FLT,M12,13X24X2.5,STL,GALV	6
22	100526-45	NUT,HEX,M12,STL,GALV	12
23	100936-41	BOLT,CARRIAGE,M10X35,STL,GALV	6
24	P102-0005-1	SPECIAL NUT,M10 STL GALV	6

Part Lists

ANTENNA PRE-ASSEMBLY

Attach the adapter (Item 15) to mounting plate of antenna, and use hardware to secure the adapter. See Figure 1.

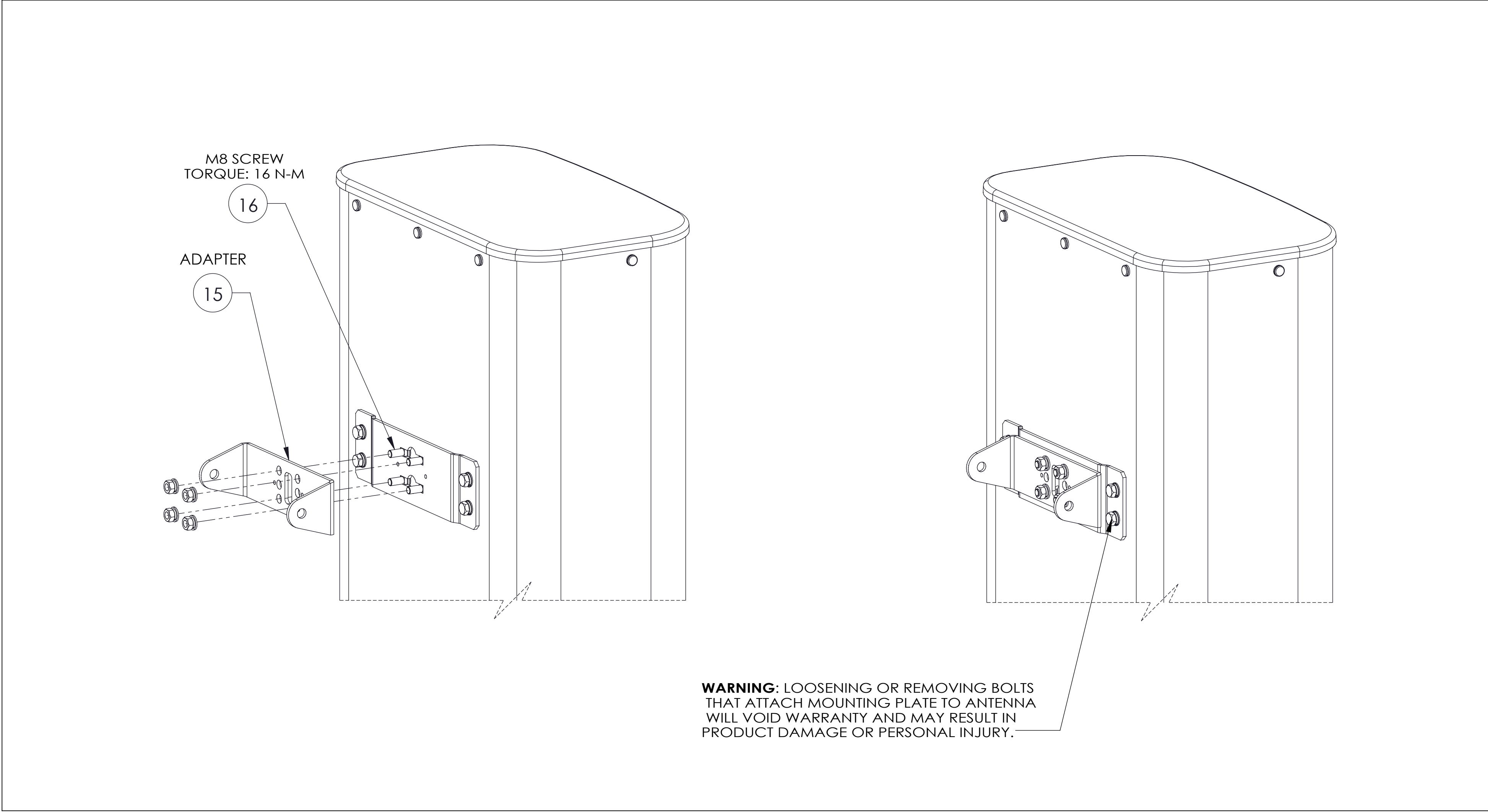


Figure 1. Pre-assembly of adapter to Antenna

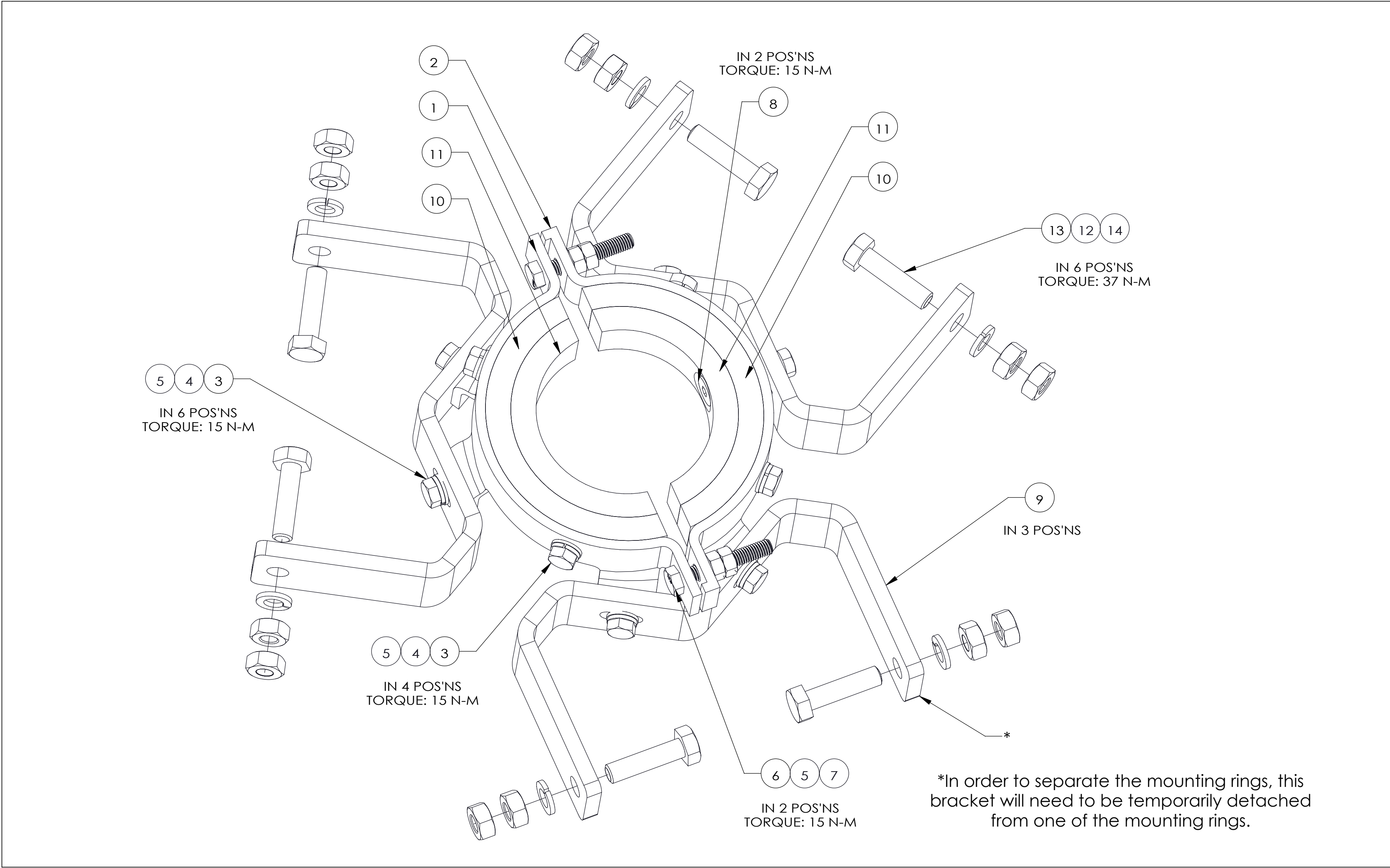


Figure 2. Top APM60-3C-DT Assembly.

HARDWARE INSTALLATION

1. While on the ground, determine if the pre-attached pipe adapters will be needed, based on the diameter of the pole.
2. Separate the mounting rings (Items 1 and 2, Figure 2) to prepare for attaching the assembly to the pole. Note that in order to separate the mounting rings, the bracket noted in Figure 2 will temporarily need to be removed from one of the mounting rings.
3. If the APM60-3C-DT assembly will be mounted to a 88.9mm(3.5”) pole, proceed to step 6.
4. If the APM60-3C-DT assembly will be mounted to a 114.3mm(4.5”) pole, remove the 88.9mm(3.5”) pipe adapter (Item 11, Figure 2) and proceed to step 6.
5. If the APM60-3C-DT assembly will be mounted to a 139.7mm(5.5”) pole, remove both pipe adapters (Items 10 and 11, Figure 2) and proceed to step 6.
6. Attach the mounting ring assemblies (top and bottom) to the pole, using the hardware that was removed when the rings were separated in step 2.
7. Tighten hardware to secure all brackets to the mounting rings. Ensure that the bracket that was partially detached in step 2 is reattached to the mounting ring.

See examples of completed hardware installation in Figures 3 through 5.

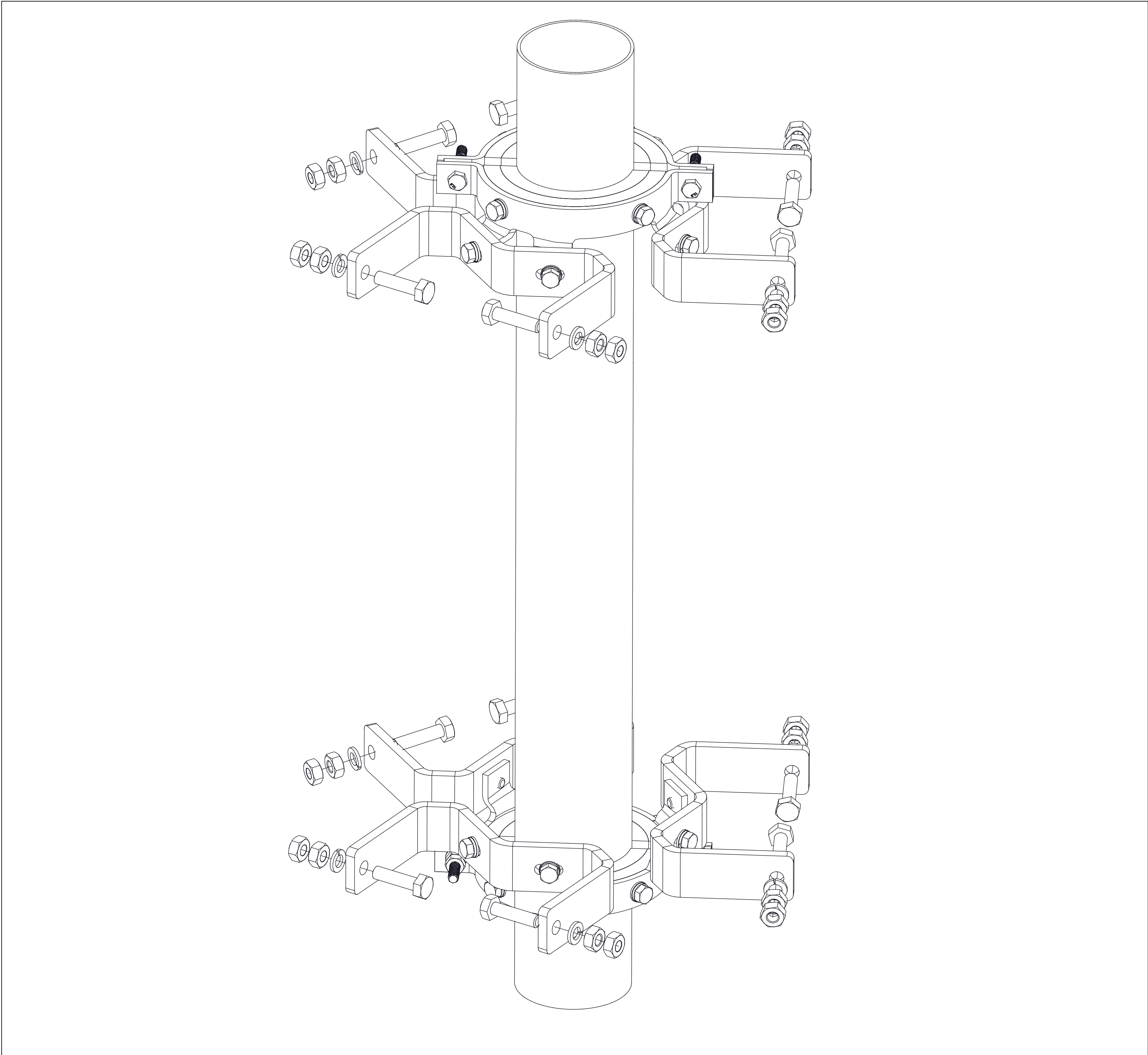


Figure 3. Top and Bottom Hardware Assembly for 88.9mm(3.5”) Pole.

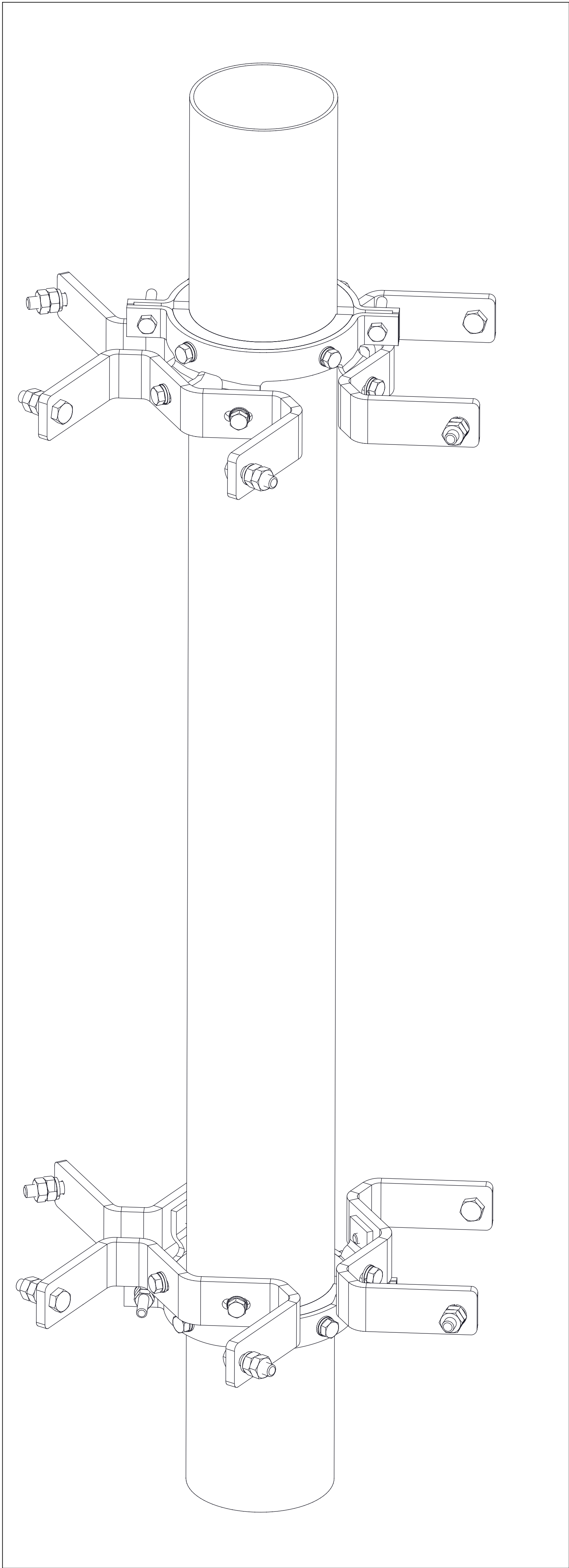


Figure 4. Top and Bottom Hardware Assembly for 114.3mm(4.5”) Pole.

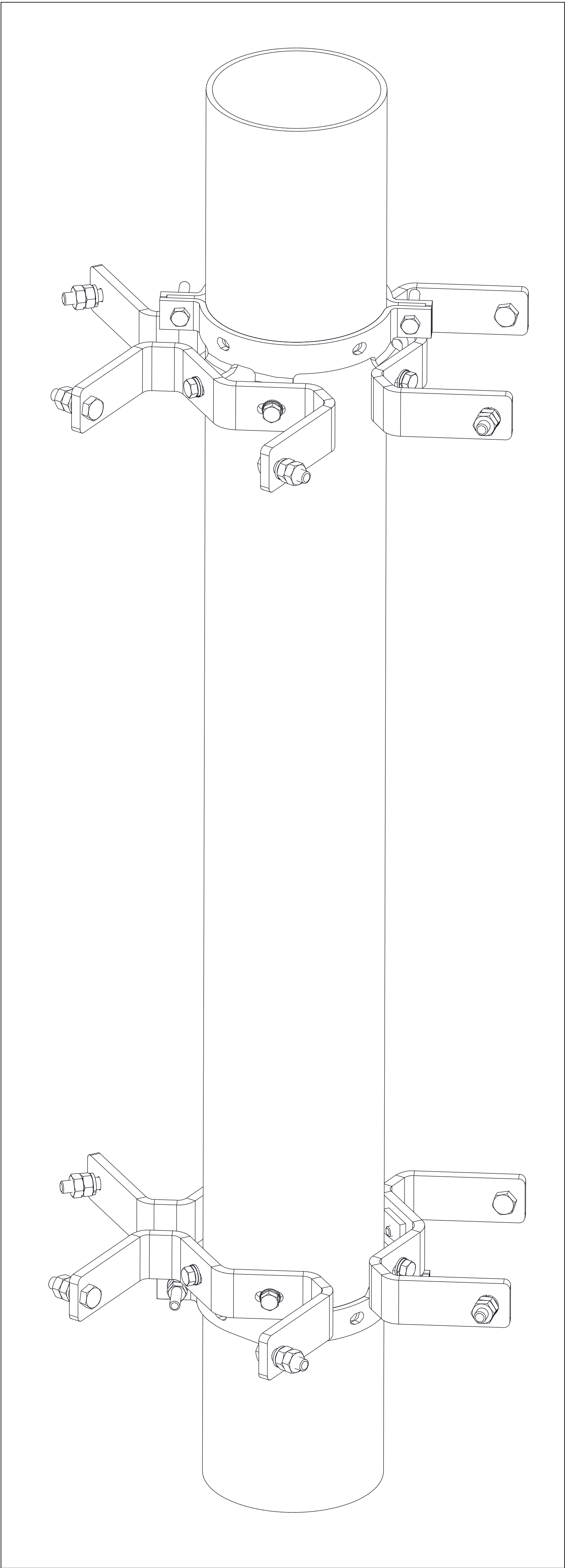


Figure 5. Top and Bottom Hardware Assembly for 139.7mm(5.5”) Pole.

ANTENNA INSTALLATION

- 1. Assemble the bracket links and hardware as shown in Figure 6.
- 2. Attach the assembled downtilt bracket to the antenna.
- 3. Position the downtilt angle to 0° and attach the antenna to the APM60-3C-DT bracket assembly.
- 4. Set the downtilt angle to the desired position. The use of an inclinometer or other device, which measures angles relative to vertical, is required for precise downtilt measurements.
- 5. After angle of degree is achieved completely tighten all hardware, being careful to not overtighten. Proper tools may be required. See Figure 7 for reference.

See Figure 8 for examples of completed antenna installation.

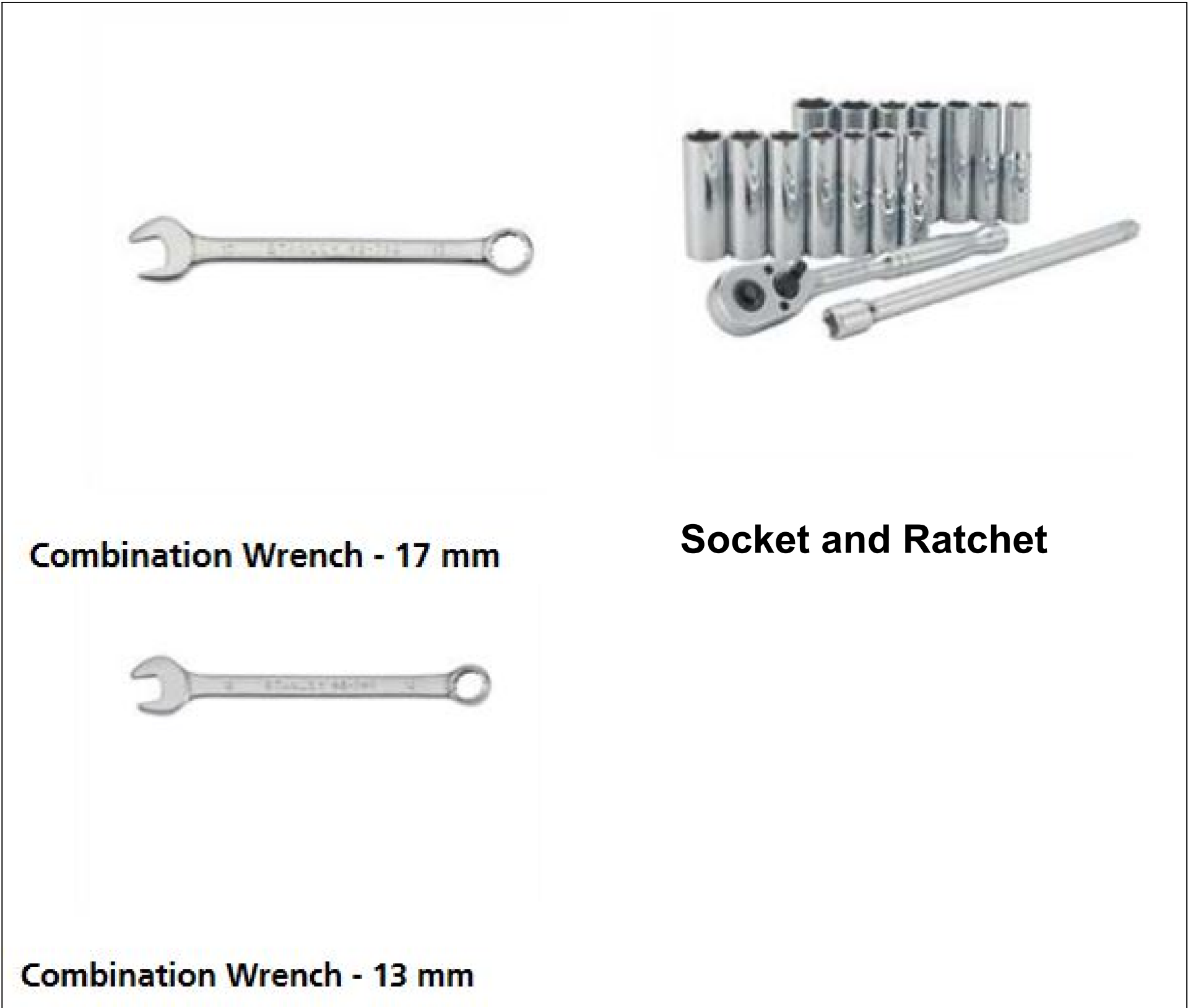


Figure 7. Recommended tool list

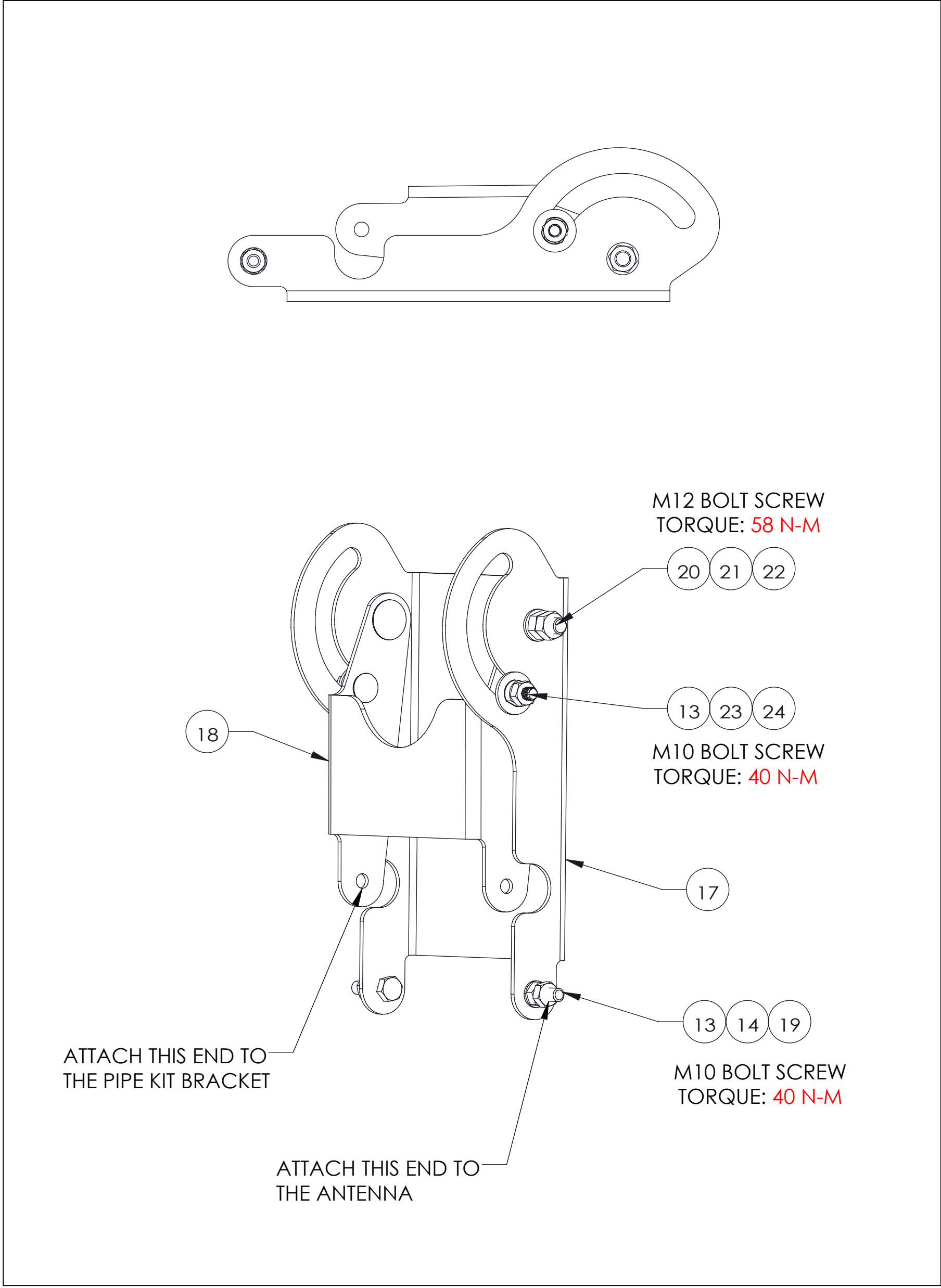


Figure 6. Downtilt Assembly.

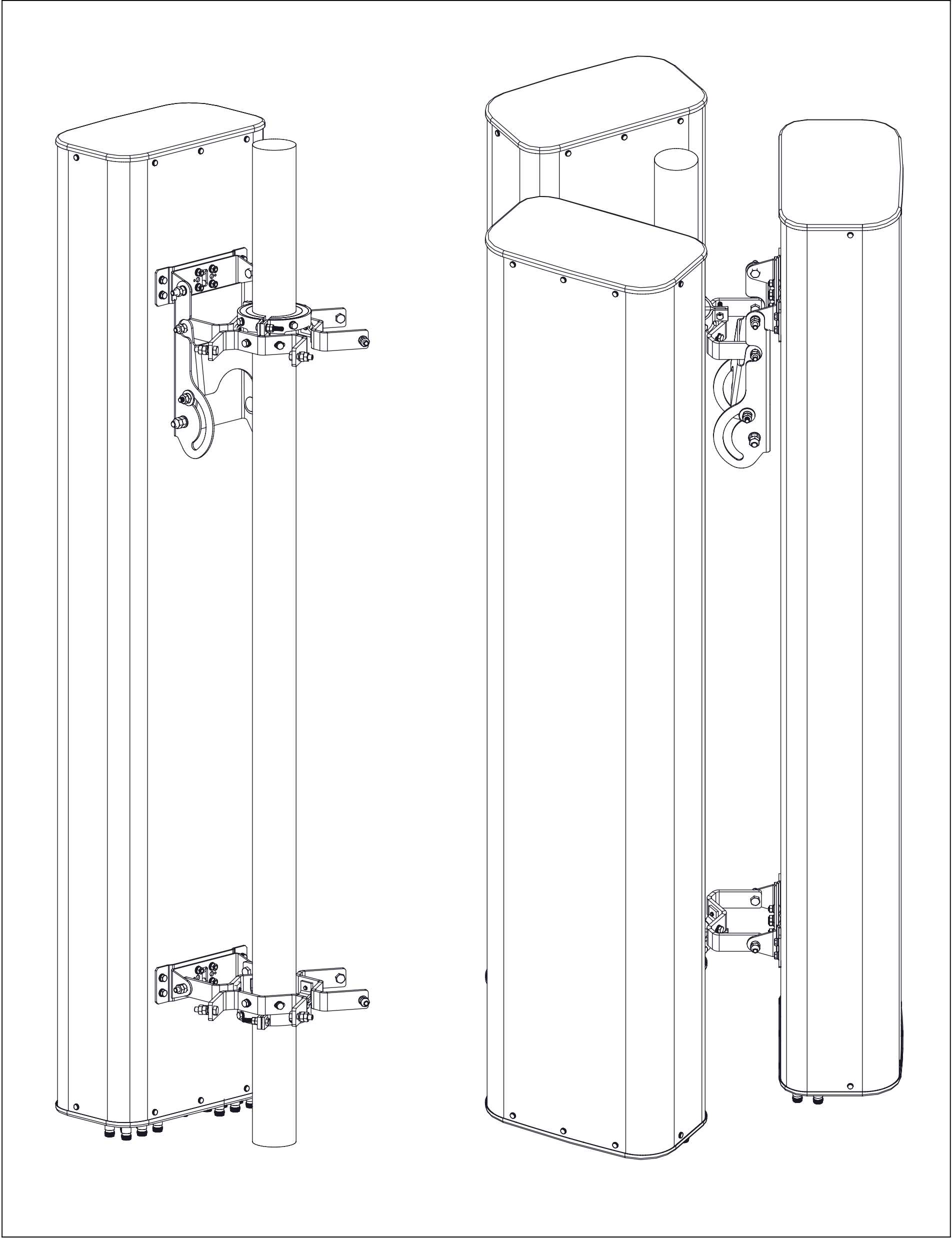


Figure 8. Attaching Antenna(s) to Pole.
Downtilt Mounting.

USING UPTILT CONFIGURATION

- 1. For uptilt mounting, incorporate downtilt bracket into bottom bracket assembly as shown in Figure 9.
- 2. The use of an inclinometer or other device, which measures angles relative to vertical, is required for precise uptilt measurements.
- 3. After angle of degree is achieved completely tighten all hardware, being careful to not overtighten.

See Figure 9.

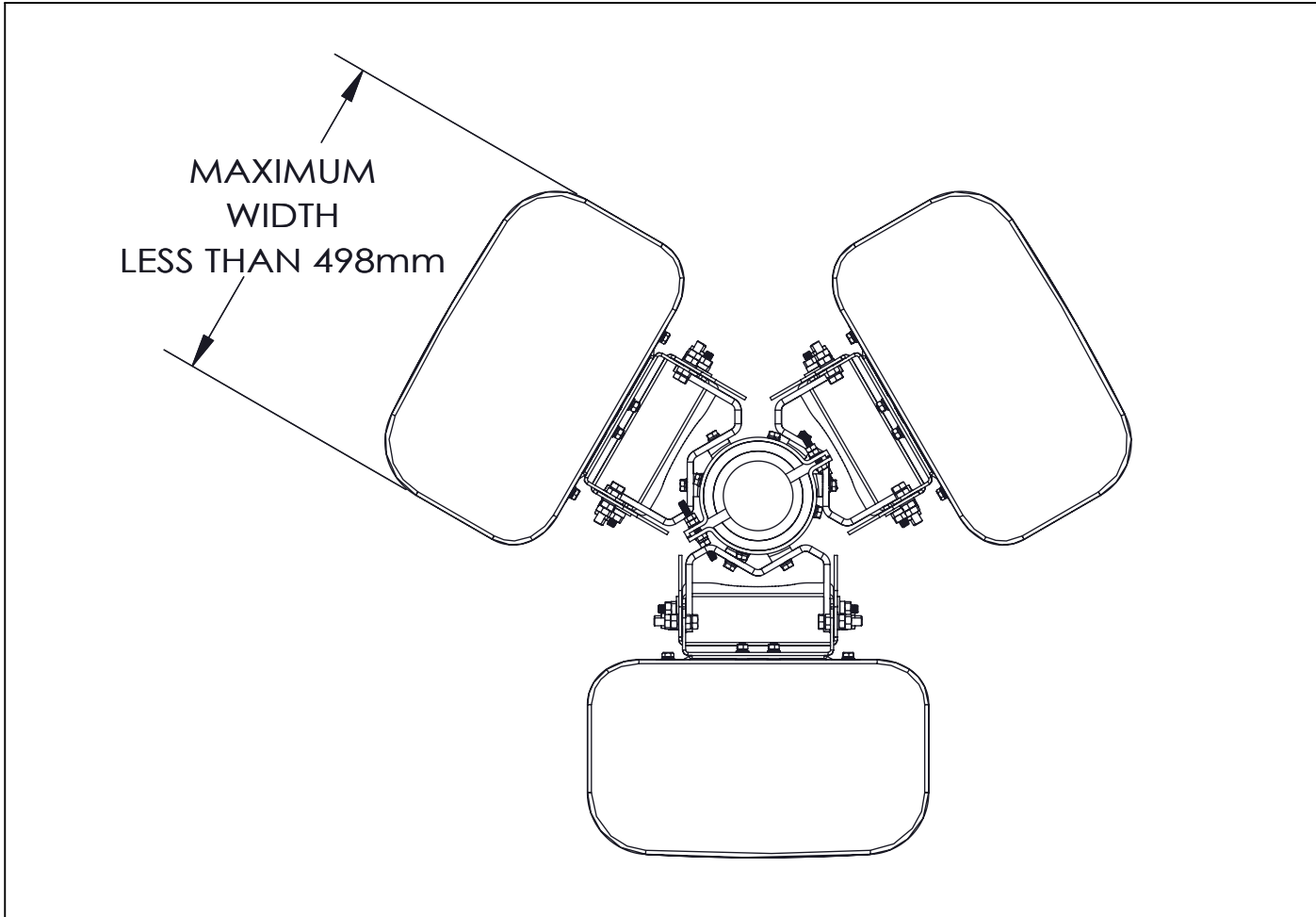


Figure 10. Maximum Antenna Width

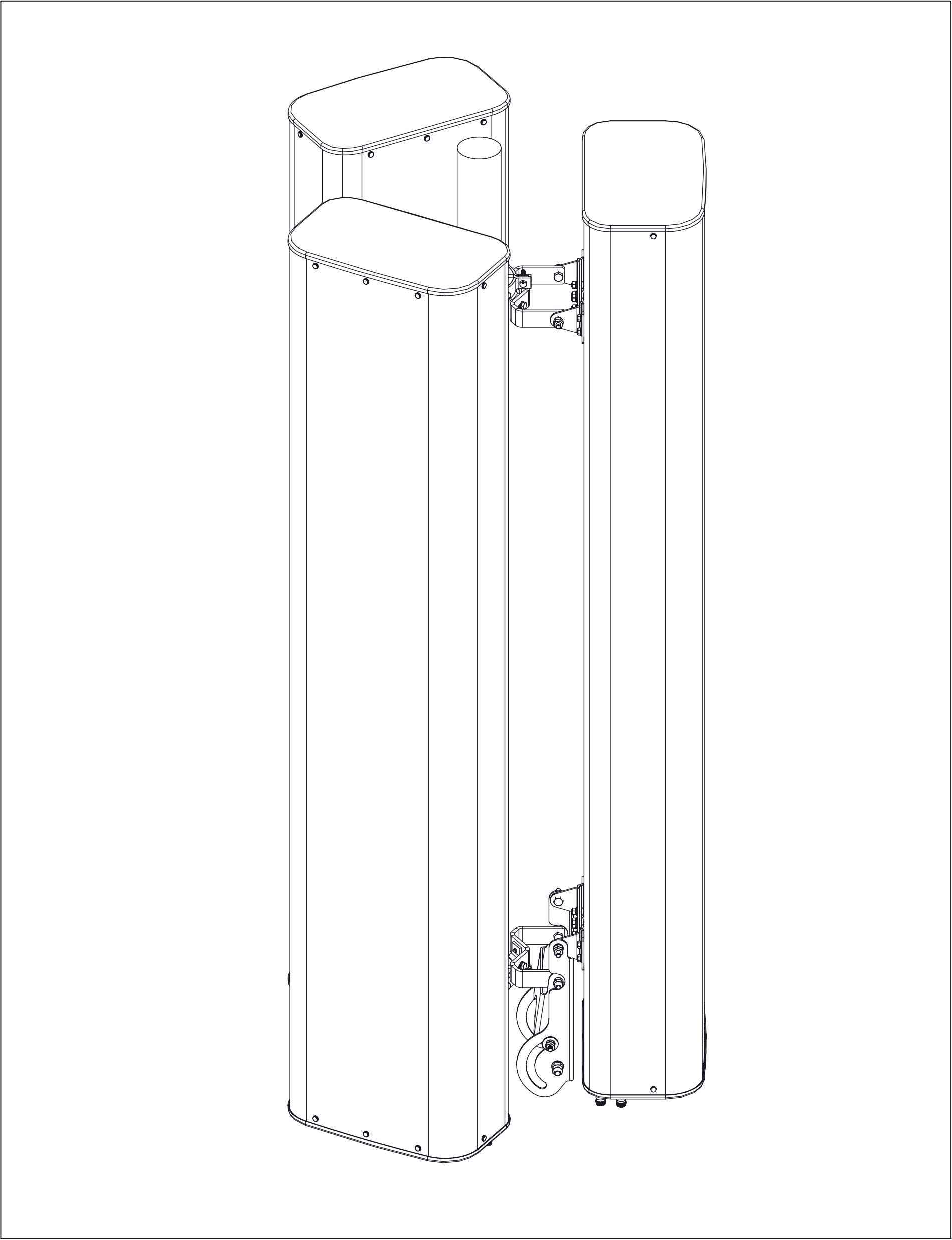


Figure 9. Uptilt Mounting.

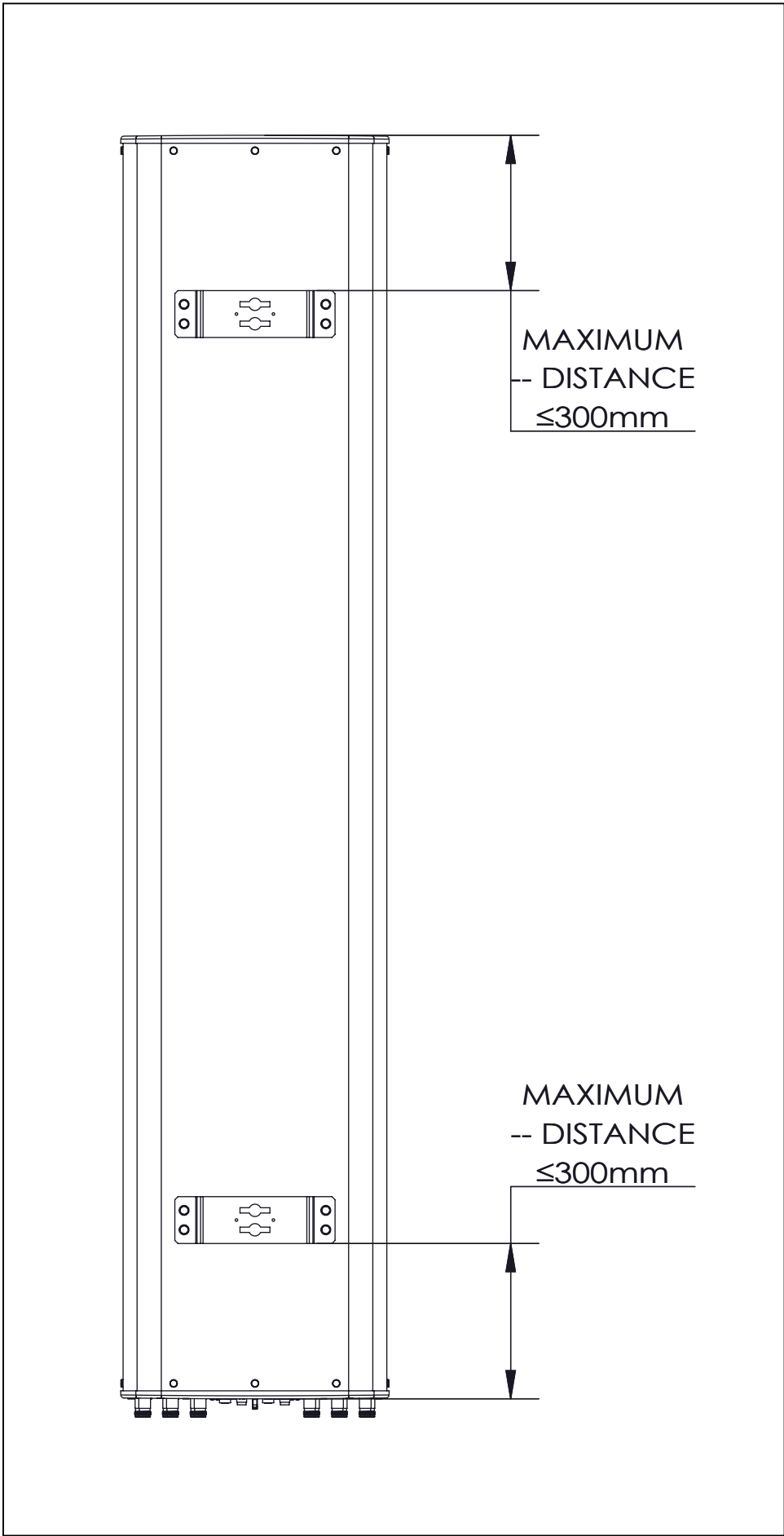


Figure 11. Maximum Distance between bracket and endcap.

NOTE: If triple antennas need to be installed, the suggested maximum antenna width should not be over 498mm and the distance between antenna brackets to the endcaps needs to be less than 300mm to guarantee enough operation space for installation. See figure 10 and figure 11 for reference.

SAFETY 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.

Andrew 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.