

Amphenol Antenna Solutions



**APM50-B3 MOUNTING KIT
INSTALLATION INSTRUCTIONS**

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Mounting Instructions for APM50-B3 Kit

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Mounting Instructions for APM50-B3 Kit

1. APPLICATIONS

The APM50 kits are mounting hardware options to be used for Base Station antennas.

2. MECHANICAL SPECIFICATIONS

- Pole Diameter: 60-110 mm
- Weight: 2.7 kg

3. ASSEMBLY AND INSTALLATION

Installation Preparation

1. Check each package against packing list.
2. Observe safe working at heights.
3. Ensure lightning protection is applied.
4. Annual maintenance is recommended to antenna system.

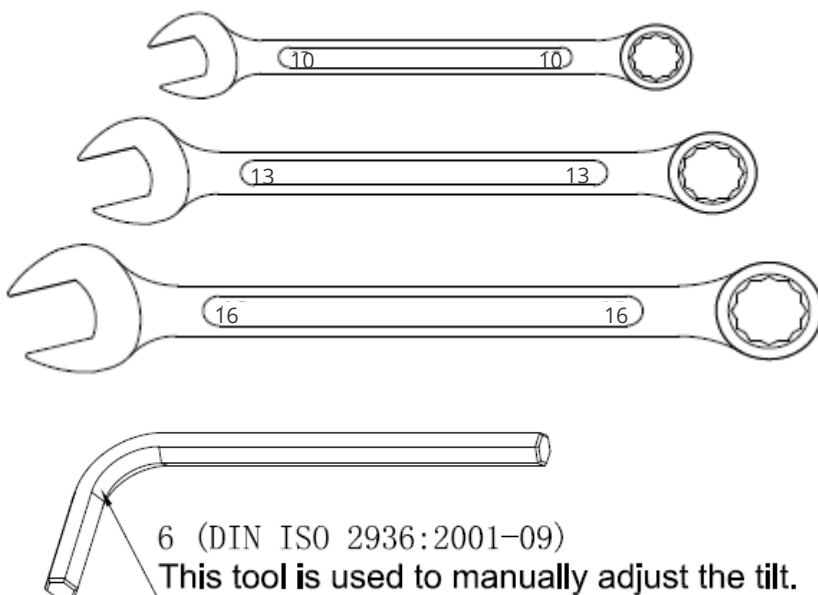
Installation Tools

TIGHTENING NUT TORQUE VALUES

Nut	Wrench	Torque
M6	10(11)mm	7-10Nm
M8	13(14)mm	18-22Nm
M10	16(17)mm	32-40Nm

TIGHTENING CONNECTOR TORQUE VALUES

Connector	Wrench
4.3-10	5-8Nm
7-16	18-22Nm

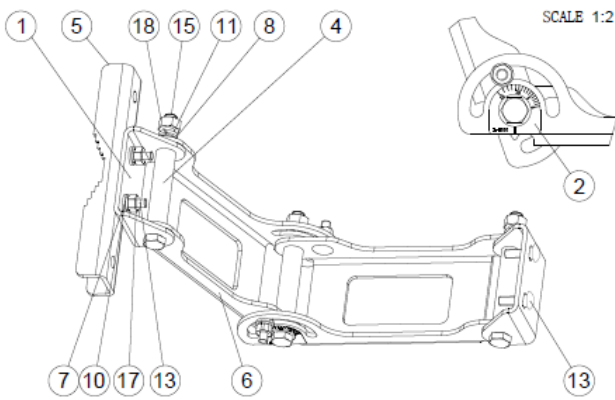


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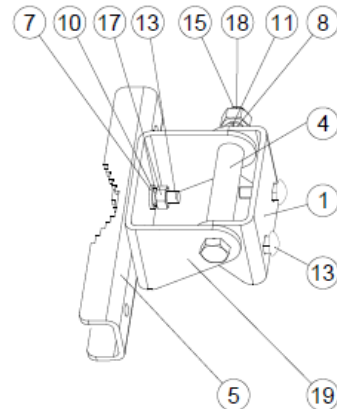
Installation Instructions

Step 1

Pre-assemble the top and bottom mounting brackets. Tighten the U Clamp with M6 bolts (torque 8Nm).



Top Mounting Bracket



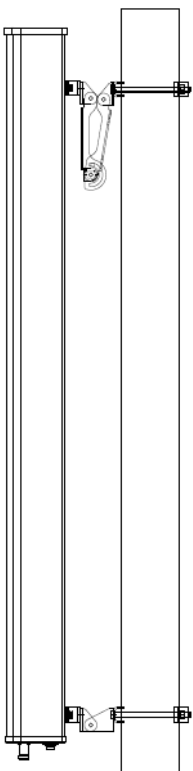
Bottom Mounting Bracket

Step 2

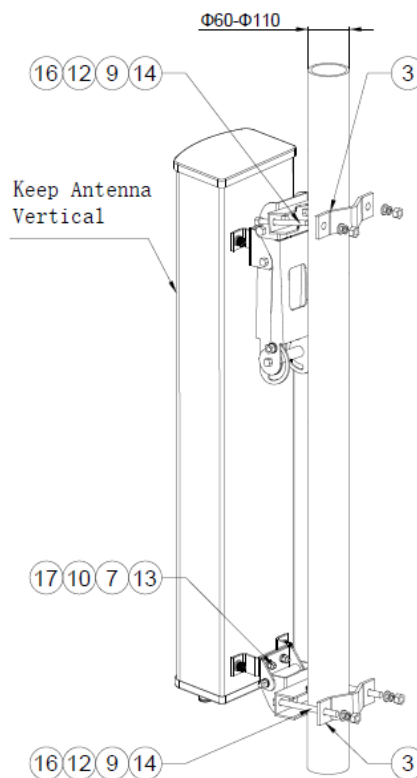
Assemble mounting brackets to the antenna with four M6 bolts (torque 8Nm).

Step 3

1. Adjust tilt to 0° and tighten nut A;
2. Fasten antenna to pole vertically with M10x150 bolts (torque 32Nm).



Step 2



Step 3

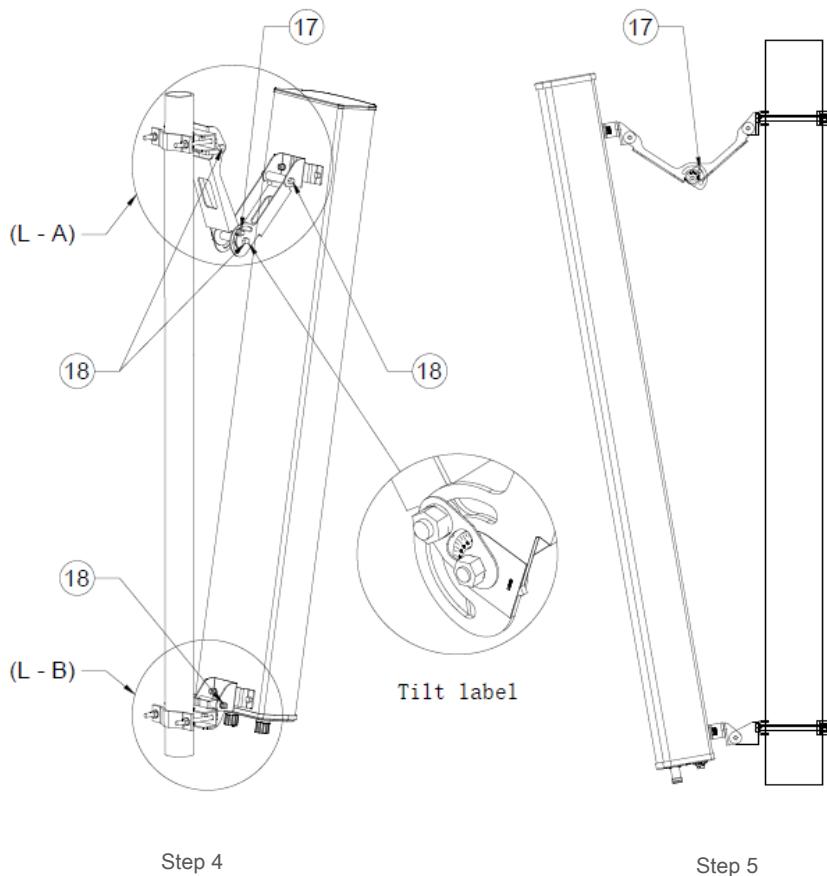
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Step 4

Loose nut 18 and adjust downtilt mounting bracket to achieve required downtilt angle.

Step 5

Tighten nut 18 to fix antenna downtilt angle.



4. ANTENNA MECHANICAL DOWNTILT RANGE

Antenna Length (mm)	Mechanical Downtilt Range (°)
1000	0-15
680	0-16
545	0-20
500	0-25

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5. MATERIAL LIST

ITEM#	DESCRIPTION	QTY L-A	QTY L-B
1	U Bracket 1	2	1
2	Tilt Label	2	0
3	U Clamp	1	1
4	Aluminum Tube	3	1
5	U Clamp	1	1
6	Bracket	2	0
7	Plain Washer (M6)	6	4
8	Plain Washer (M8)	3	1
9	Plain Washer (M10)	2	2
10	Spring Washer (M6)	6	4
11	Spring Washer (M8)	3	1
12	Spring Washer (M10)	2	2
13	Square Neck Bolt (M6x20)	6	4
14	Hex Bolt (M10x150)	2	2
15	Hex Bolt (M8x90)	3	1
16	Nut (M10)	2	2
17	Nut (M6)	6	4
18	Nut (M8)	3	1
19	U Bracket 2	0	1

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NAR

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