

# Mounting Instructions for Cisco Aironet 1550 Series Outdoor Access Point Pole-Mount Kits

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This document describes how to use the Cisco Aironet 1550 Series Outdoor Access Point Pole-Mount Kit to mount the access point on a pole. The kit supports mounting on metal, wood, or fiberglass poles from 2 inches (5.1 cm) to 16 inches (40.6 cm) in diameter.

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**Americas Headquarters:**  
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

# Safety Precautions



**Warning**

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**This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.**

Statement 1071

**SAVE THESE INSTRUCTIONS**

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**Warning**

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**Only trained and qualified personnel should be allowed to install, replace, or service this equipment.** Statement 1030

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**Warning**

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**Installation of the equipment must comply with local and national electrical codes.** Statement 1074

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For your safety, read and follow these safety precautions.

1. Before you install the equipment, contact your Cisco account representative to explain which mounting method to use.
2. Find someone to help you—installing outdoor equipment is often a two-person job.
3. Select your installation site with safety, as well as performance, in mind. Remember that electric power lines and phone lines look alike. For your safety, assume that any overhead line can kill you.
4. Contact your electric power company. Tell them your plans and ask them to come look at your proposed installation.
5. Plan your installation carefully and completely before you begin. Each person involved in an installation should be assigned to a specific task and should know what to do and when to do it. One person should be in charge of the operation to issue instructions and watch for signs of trouble.

6. When installing your equipment, follow these guidelines:
  - a. Do not use a metal ladder.
  - b. Do not work on a wet or windy day.
  - c. Do dress properly—wear shoes with rubber soles and heels, rubber gloves, and a long-sleeved shirt or jacket.
7. If the assembly starts to drop, move away from it and let it fall. Because the equipment is often an excellent conductor of electrical current, even the slightest touch of any of its parts to a power line completes an electrical path through the equipment and the installer.
8. If any part of the equipment should come in contact with a power line, do not touch it or try to remove it yourself. Call your local power company to have it removed safely.
9. If an accident should occur with the power lines, call for qualified emergency help immediately.

## Tools and Required Materials

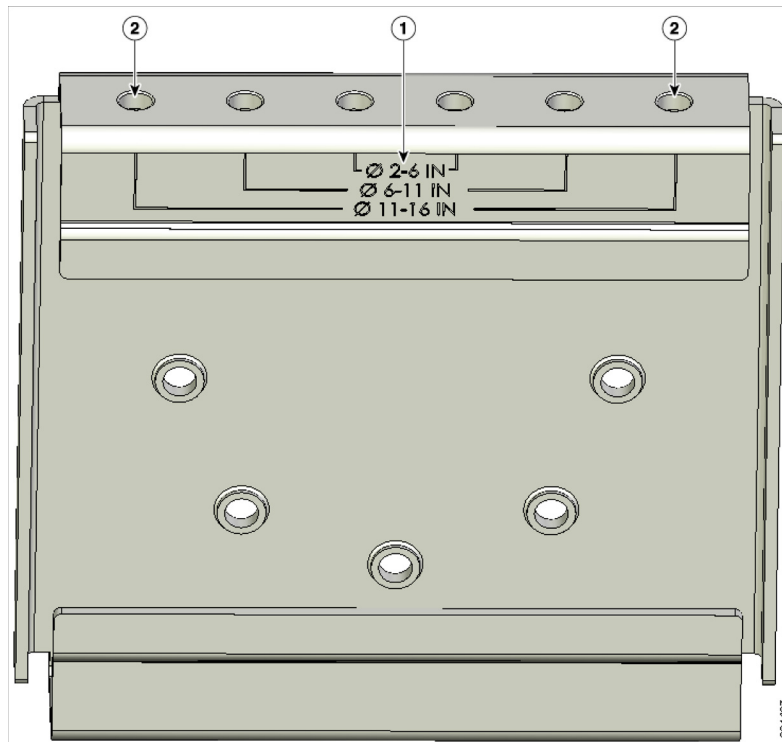
To mount the access point on a vertical pole you need to install two metal straps around the pole to support the access point. This process requires extra tools and material not provided in the pole-mount kit. The table below lists the tools and materials that you need.

Materials and Tools Required	In Kit
Two 0.75-in. (1.9 cm) stainless steel straps	Yes
Nuts, bolts, and washers	Yes
Banding strap tool (BAND IT; Cisco AIR-BAND-INST-TL=)	No
Torque wrench	No

# Assembling the Pole Clamp Bracket and the Mounting Bracket

The pole-mount kit contains several parts that you must assemble before you can mount an access point on a pole. First, you must assemble two strap brackets on the pole clamp bracket that are positioned for the pole diameter that you are using to mount the access point. [Figure 1](#) shows the location of the pole diameter indicators and bolt holes on the pole clamp bracket.

**Figure 1** Pole Clamp Bracket Adjustment Hole Locations

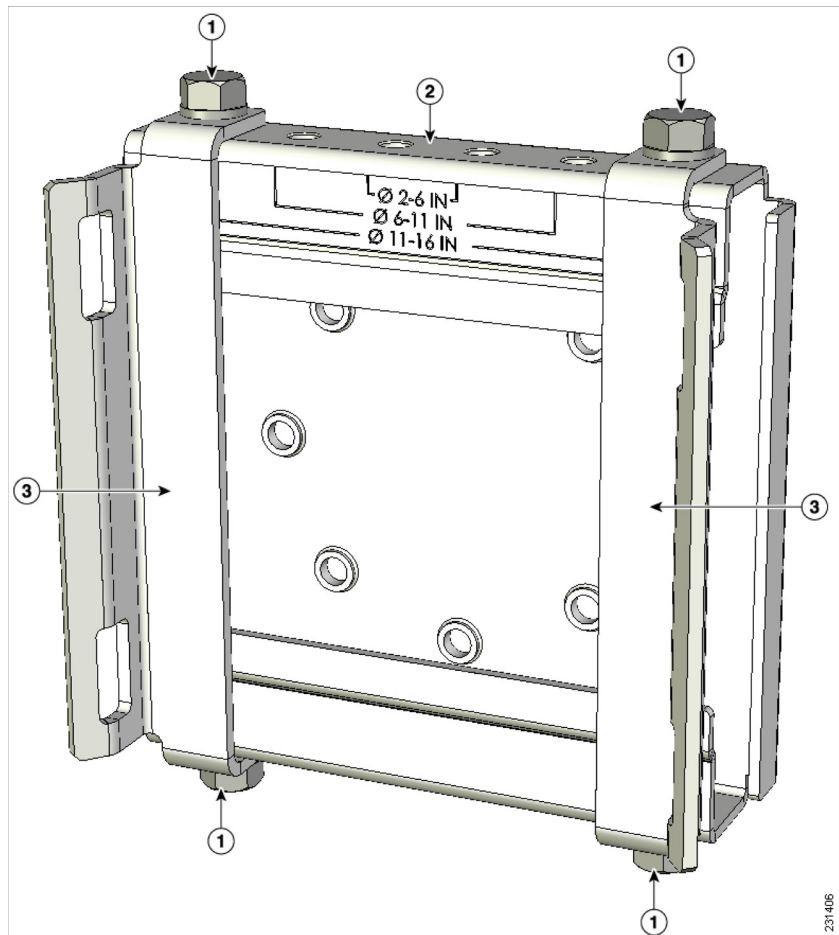


1	Pole size indicators (2 to 6 in., 6 to 11 in., and 11 to 16 in.)	2	Bolt holes for pole diameters (11 to 16 in. indicated)
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To assemble the pole clamp bracket, follow these steps:

- Step 1** Position the strap brackets on the pole clamp bracket for the pole diameter that you are using and secure each strap bracket with two M8 x16 bolts (with lock washers) (see [Figure 2](#)). Tighten the bolts to 13 to 15 foot-pounds (17.6 to 20.3 Newton meters).

**Figure 2** Assembled Pole Clamp Bracket and Strap Brackets



1	M8 x1.25 x16 bolts (with lock washers)	3	Strap bracket (shown positioned for 11 to 16-in. diameter pole)
2	Pole clamp bracket		

**Step 2** Screw the M8 nut onto the pole clamp bracket support bolt, and hand-tighten the nut just enough to prevent the bolt from falling off.

## Mounting the Access Point on a Pole

To mount the access point onto a vertical pole or streetlight pole, follow these steps:

**Step 1** Select a mounting location on the pole to mount the access point. You can attach the access point to any pole from 2 to 16 inches (5.1 to 40.6 cm) in diameter.



**Note** If you are using a streetlight power tap adapter, position the access point within 3 feet (1 m) of the outdoor light control.

For poles larger than 3.5 inches (8.9 cm) in diameter, mount the pole clamp bracket assembly to a pole using two metal straps. Following the instructions provided with the banding strap tool (BAND IT; AIR-BAND-INST-TL=), loop each metal strap twice through the slots on the strap bracket.

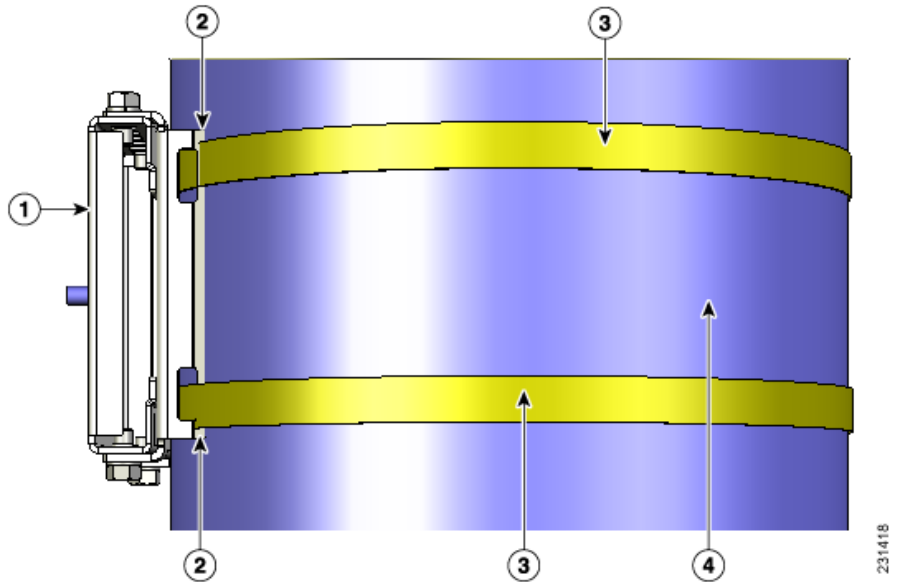


**Caution**

Do not place the metal straps in the large open area between the pole clamp bracket and the strap brackets, because this arrangement does not properly secure the access point.

[Figure 3](#) shows the metal straps and the clamp bracket assembly on a pole with a diameter larger than 3.5 inches (8.9 cm).

**Figure 3** *Clamp Bracket Assembly Mounted on Poles Larger than 3.5 in. (8.9 cm)*

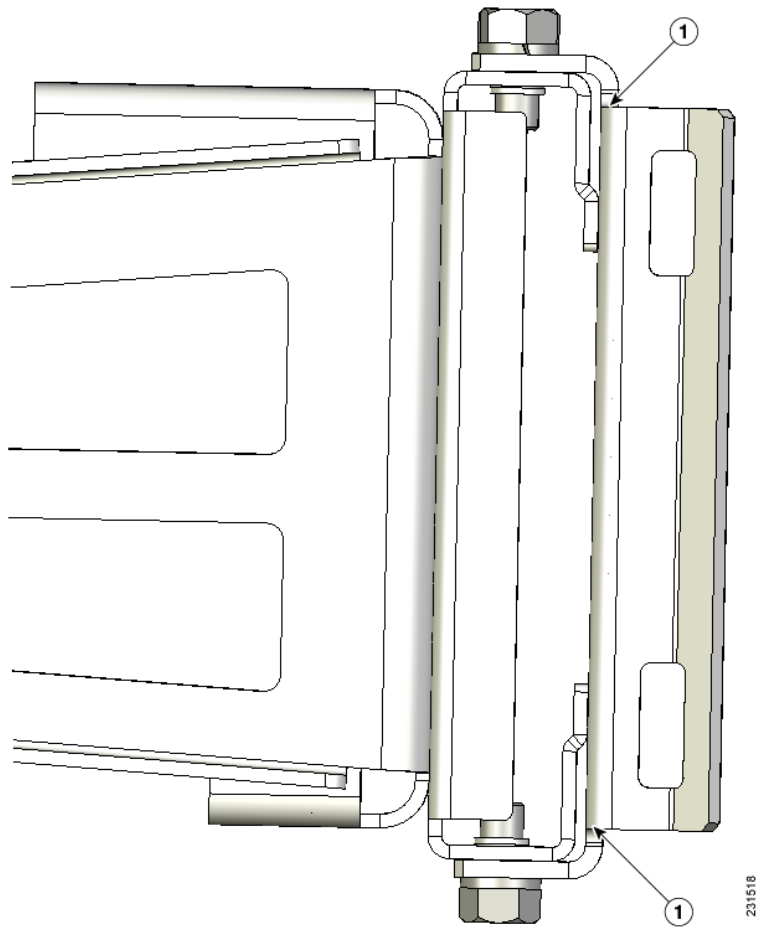


<b>1</b>	Pole clamp bracket	<b>3</b>	Metal mounting strap
<b>2</b>	Strap slot in strap bracket	<b>4</b>	Pole

For pole diameters of 3.5 inches (8.9 cm) or less, mount the pole clamp bracket assembly to a pole using two metal straps looped through the space between the pole clamp bracket and the strap brackets to provide maximum holding strength for extreme environments. Following the instructions provided with the banding strap tool (BAND IT; Cisco AIR-BAND-INST-TL=), loop each metal strap twice.

[Figure 4](#) shows the metal straps and the clamp bracket assembly on a pole with a diameter of 3.5 inches (8.9 cm) or smaller.

Figure 4 Metal Strap Open Space for 3.5 in. (8.9 cm) and Smaller Poles



- |   |                        |
|---|------------------------|
| 1 | Metal strap open space |
|---|------------------------|



**Caution**

Do not place the metal straps in the large open area between the pole clamp bracket and the strap brackets (see Callout 1 in Figure 4), because this arrangement does not properly secure the access point.

**Step 2**

Position the pole clamp bracket on the pole as needed before tightening the metal straps.

**Note**

When the metal straps are tightened to the full tension, you cannot adjust the pole clamp bracket unless the metal straps are cut or disassembled.

**Step 3**

Tighten the metal straps using the banding strap tool (BAND IT; Cisco AIR-BAND-INST-TL=) by following the operating instructions in the box with the tool. Ensure that the metal straps are as tight as possible.

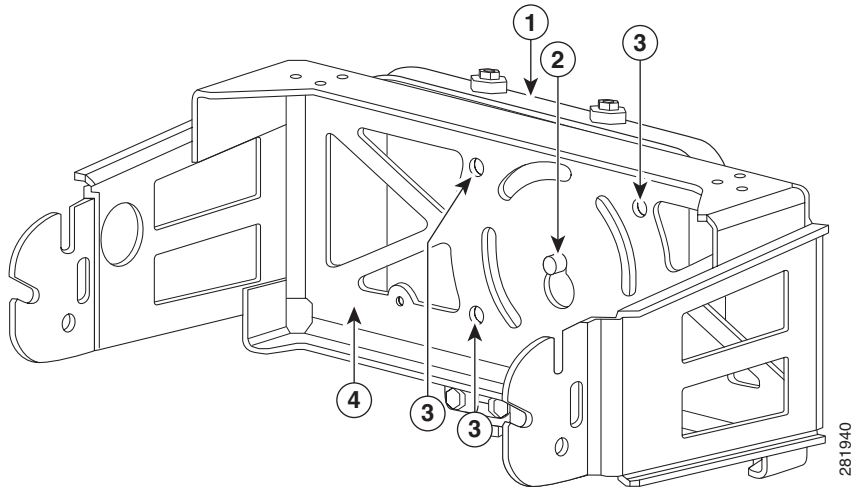
**Step 4**

Place the mounting bracket onto the pole clamp bracket support bolt (see [Figure 5](#)).

**Step 5**

For vertical poles, position the mounting bracket as shown in [Figure 5](#). For horizontal streetlight poles, rotate the mounting bracket 90 degrees from the position shown in [Figure 5](#).

**Figure 5** *Screw Hole Locations on the Mounting Bracket and Pole Clamp Bracket Assembly*



<b>1</b>	Pole clamp bracket assembly	<b>3</b>	Bolt holes
<b>2</b>	Access point support bolt (M8 flange nut not shown)	<b>4</b>	Mounting bracket

**Step 6** Install four M8 x16 bolts (with flat and lock washers) into the bolt holes.

**Step 7** Hand-tighten the bolts and the nut (do not overtighten).

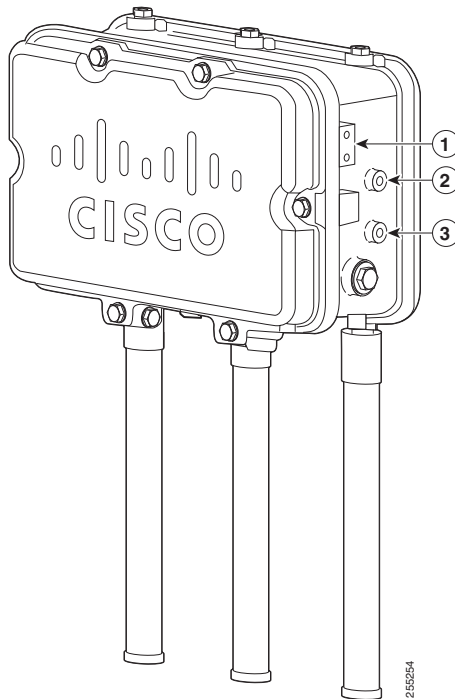
**Step 8** Adjust the top edge of the mounting bracket until it is horizontal and use a torque wrench to tighten the bolts and the flange nut (see [Figure 5](#)) to 13 to 15 foot-pounds (17.6 to 20.3 Newton meters).



**Note** You can adjust the mounting bracket up to 45 degrees for use with tilted, horizontal streetlight poles.

- Step 9** Screw an M8 x16 bolt (without a flat or lock washer) in the top support bolt hole on each side the access point (see [Figure 6](#)). Do not screw the bolt all the way in. Leave a gap of approximately 0.25 inches (0.635 cm).

**Figure 6** Location of Access Point Top Support Bolt Holes

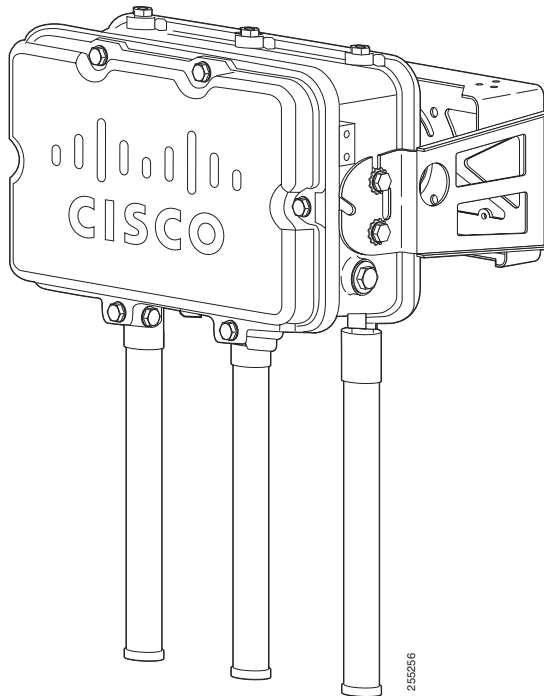


<b>1</b>	Ground lug screw holes
<b>2 &amp; 3</b>	M8 x16 bolt holes (bolts are supplied with the pole-mount kit; install without flat or lock washers)

- Step 10** Slide the bolts on the access point into the access point quick-mount notches on both sides of the mounting bracket (see [Figure 7](#)).

Position the access point with the LEDs on the bottom to allow viewing from the ground and with the hinged cover facing out. If you use external omnidirectional antennas, they should point down.

**Figure 7** Access Point Hanging in Mounting Bracket



- Step 11** Screw an M8 x16 bolt (with flat and lock washers) into the second bolt hole on each side of the access point (see [Figure 7](#)).
- Step 12** Ensure the front of the access point is vertical, and use a torque wrench to tighten the four bolts to 13 to 15 foot-pounds (17.6 to 20.3 Newton meters).

# Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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