PANZONE Wireless Access Point Enclosure

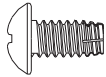Part Numbers: PZWIFIEH

INSTRUCTIONS CM339

© Panduit Corp. 2007

Hardware Guide
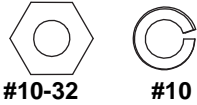
#10-32   **#10**
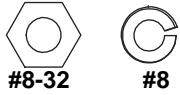
#8-32   **#8**

**#6-32 Screws**

#10-32 Screws

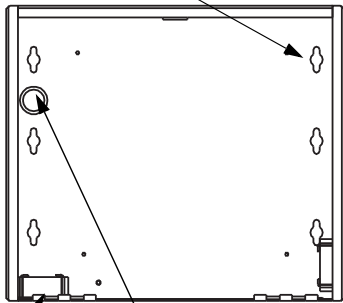### List of Components:
(4)#10-32 Hex Nuts
(4)#10 Split Lock Washers
(4)#8-32 Hex Nuts
(4)#8 Split Lock Washers
(2)#6-32 Screws
(1)Grounding Cable
(4)Pieces of Fire Resistant Foam
(1)26" length Grommet Edging
(1)2 Position Surface Mount Box
    (*PANDUIT* Part No. CBXJ2WH-A)
(1)2' long Category TX6 Plus Patch Cord
    (*PANDUIT* Part No. UTPSP2)
(1)Category TX6 Plus Jack Module
    (*PANDUIT* Part No. CJ688TGWH)
(2)*PAN-TY* mounts
    (*PANDUIT* Part No. ABMM-A-C)
(4)*PAN-TY* Cable Ties
    (*PANDUIT* Part No. PLT1.5I-C)
(1)Foam Retention Plate
(2)Keys
(2) Latching Wire Clips
    (Panduit Part No. LWC50-A-L)
(4) # 10-32 X 3/8" Thread Cutting Screws
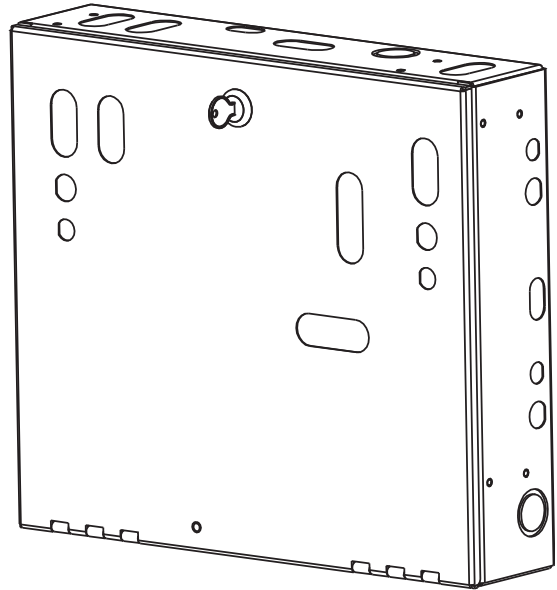
PZWIFIEH

Keyed Knockout Slots for Wall Mount applications (6 places)

Knockouts for Surface Raceway (2 places)

#10-32 threaded Grounding Studs

Double Knockout for 1/2" or 3/4" Conduit (3 places)

Knockouts for led lights on the wap

Brackets for Fire Resistant (2 places) Foam

RP-TNC bulkhead connector knockout (2 places)

RP Type N bulkhead connector knockout (2 places)

Antenna knockoits for in-ceiling monting applications
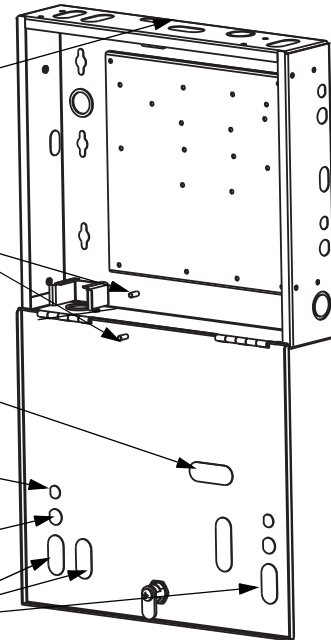
(door removed from view for clarity)

TABLE OF CONTENTS   Page (s)

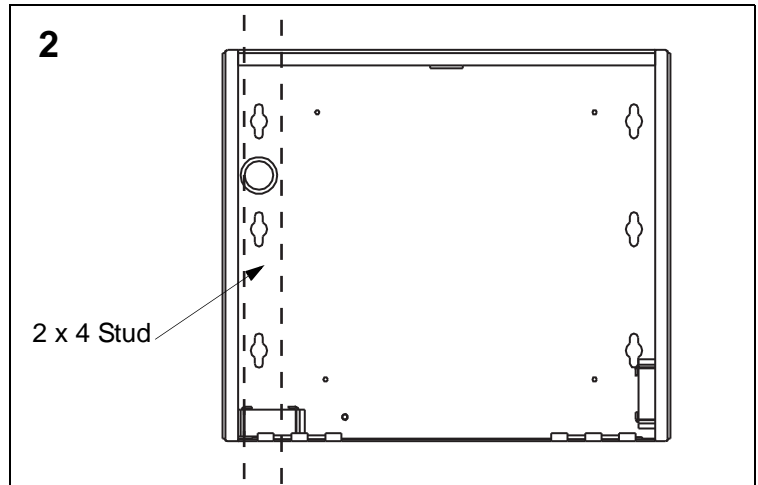*FOR TECHNICAL SUPPORT www.panduit.com/resources/install_maintain.asp*

Wall Mount Installation

Refer to the installation and configuration guidelines provided by the manufacturer of the wireless access point to determine the optimum enclosure installation location and antenna configuration.

Please read these instructions in their entirety prior to installing the enclosure.

Step 1: Mount Enclosure to Wall

1.1   Locate the wall studs.

1.2   Hold the enclosure against the wall to mark the location of the mounting holes.

1.3   Mount the enclosure to the wall using mounting screws and wall anchors (not included). Enclosure designed for use with #14 screws.
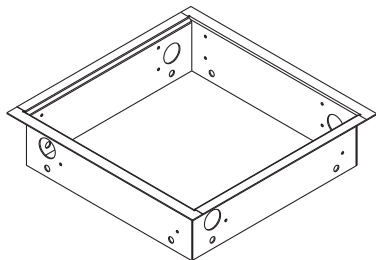
2

2 x 4 Stud

In-Ceiling Mount Installation

Refer to the installation and configuration guidelines provided by the manufacturer of the wireless access point to determine the optimum enclosure installation location and antenna configuration.

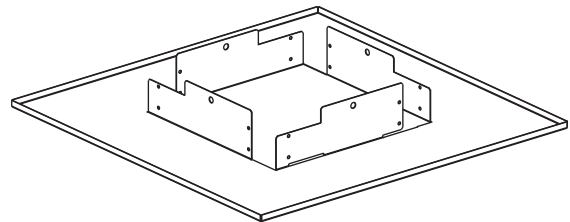**Please read these instructions in their entirety prior to installing the enclosure.**

Note: *PANZONE* Enclosures Require one of the following additional part numbers for in-ceiling applications

| *PANDUIT* **Part #:PZWIFIDCB** - *PANZONE* Wireless Access Point in-ceiling Bracket Kit	*PANDUIT* **Part #:PZW2X2DCB** - *PANZONE* Wireless Access Point in-ceiling 2'x 2' Bracket Kit
See Step 2-3 for installation instructions	See Step 4 for installation instructions

Step 2: Install Ceiling Mount Brackets

2.1   Install Ceiling Mount Brackets against side wall of the enclosure with the flanged edge facing away from the enclosure. (see figure 2) The top of the flanged edge should be even with the enclosure door.

2.2   Fasten the bracket to the base of the enclosure using four of the supplied #6-32 Screws.

2.3   Repeat steps for remaining 3 Ceiling Mount Brackets.
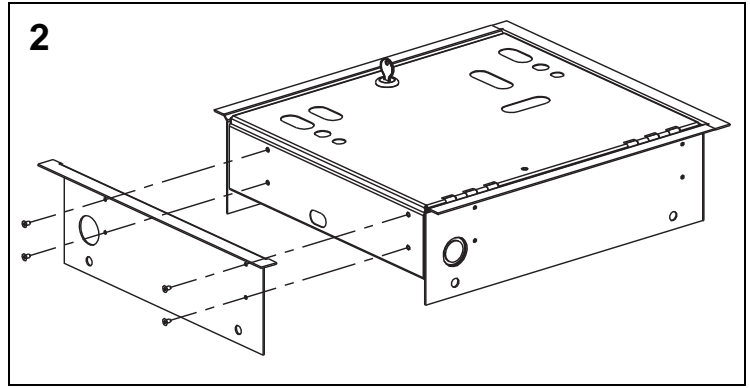

Step 3: Prepare Ceiling Tile

3.1   When the enclosure will be mounted in a suspended ceiling, a rectangular hole that is approximately 12 1/2" x 14 1/4" must be cut in the ceiling tile.

3.2   It is important that the hole be no smaller than 12 1/4" x 14" and no larger than 12 3/4" x 14 1/2". This will ease installation and prevent visible gaps around the enclosure once installed.

Note: The bottom edges of the assembled enclosure brackets can be used as a guide to trace the square hole size onto the ceiling tile.
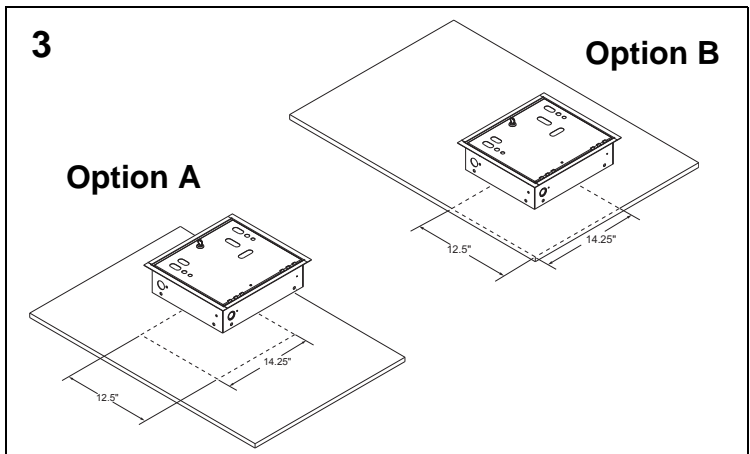

Step 4: Installing Enclosure in Bracket

4.1   Insert enclosure into bracket as shown by aligning the enclosure's hinge with the hinge slots in the celing bracket.

4.2   Secure the four sides of the enclosure to the bracket with (4) #6-32 screws provided with the bracket as shown.
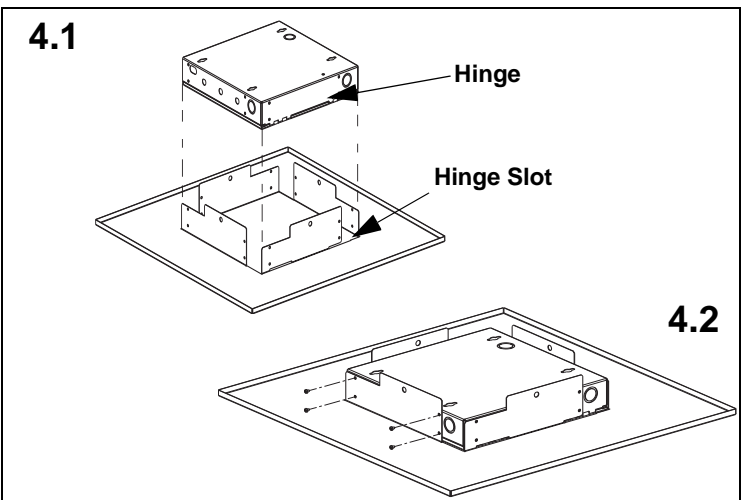
Step 5: Hanging Enclosure in Bracket

5.1   Hanger wire should be used to hang the enclosure within a suspended ceiling. *Important:* Verify hanger wire meets local building code. Weight of the enclosure, mounting brackets, and equipment does not exceed 20 lbs. The enclosure is rated to hold up to 10 lbs of equipment.

5.2   Observe how the hanger wire used to hold the ceiling support grid is secured to the building structure.

5.3   Remove one tile adjacent to the tile the enclosure will be mounted in.

5.4   Secure four pieces of hanger wire (not included) to the building structure. The hanger wire length will be determined by the installer based on the building structure dimensions above the suspended ceiling. Extend the length of the hanger wire beyond the surface of the ceiling by at least 6".

5.5   Add the cut ceiling tile back to the ceiling support grid.

5.6   Pull one of the four pieces of hanger wire to one corner of the square opening in the ceiling tile. Pre-bend the hanger wire at a 90° angle approximately 2 1/2" above the surface of the ceiling tile. Repeat this step for the remaining 3 hanger wires measuring to the three remaining corners of the square opening.

5.7   Insert the enclosure into the cut ceiling tile opening.

5.8   While holding the enclosure flush with the surface of the ceiling tile, route the hanger wire through one of the eight 3/8" dia hanger wire mounting holes and bend up. Pull the wire upward until the enclosure is flush with the ceiling tile. Repeat this step using the three remaining hanger wires to secure the three remaining corners of the enclosure.

3/8" dia hanger wire mounting holes (8 places)

3/8" dia hanger wire mounting holes (4 places)

5.9   Visually inspect the edges of the enclosure to verify no gaps exist between the mounting brackets and surface of the ceiling tile. If gaps exist, pull the hanger wire upward until the enclosure is tight against the ceiling tile.

5.10 To secure the enclosure, wrap each hanger wire tightly around itself a minimum of three times.

5.11 Replace the adjacent ceiling tile.
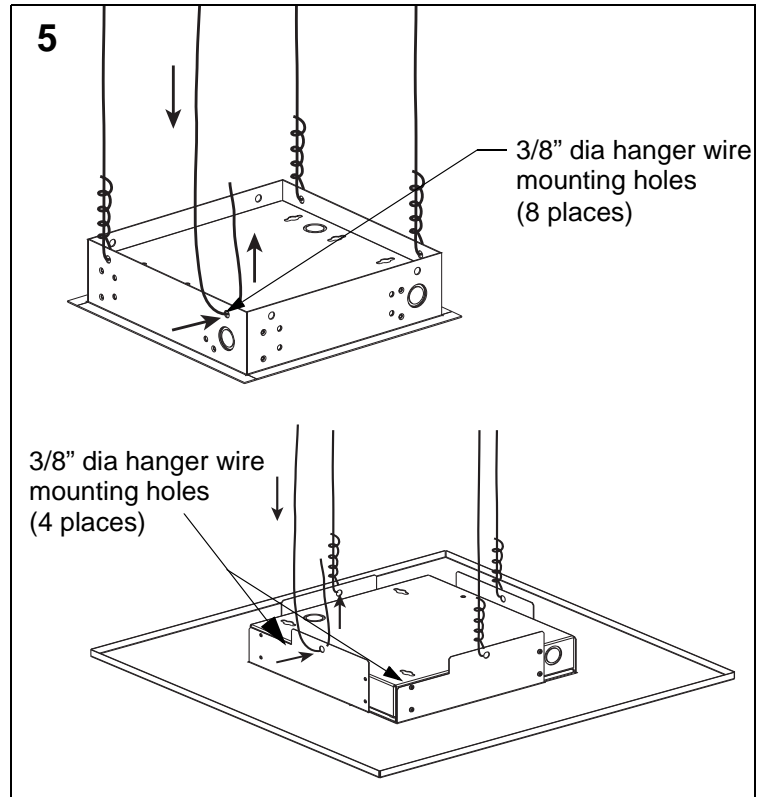
Step 6: Grounding

6.1   Run cable from the Telecommunications Grounding Busbar (TGB) to the enclosure and attach to the grounding stud on the base.

6.2   Using the supplied Grounding Cable, attach one end to the grounding stud on the base (on top of TGB cable) and the other end to the grounding stud on the door.

6.3   Secure with the #10 Split Lock Washers and #10-32 Hex Nuts.

Grounding Studs
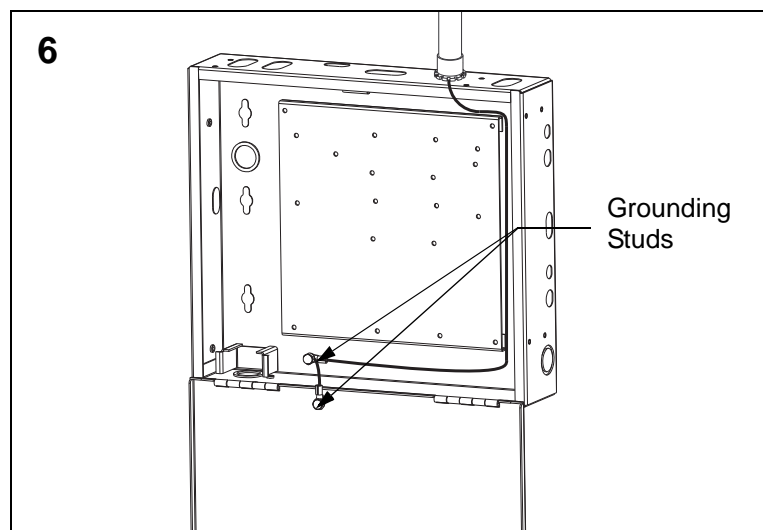
Step 7: HP ProCurve 420 Wireless Access Point Wall Mount and In-Ceiling Installation

7.1 Remove knockouts shown in **Figure 7.1** for wall mounting.

7.2 Remove knockouts shown in **Figure 7.2** for in-ceiling mounting.

7.3 Locate mounting bracket holes shown in **Figure 7.3**

7.4 Install the mounting bracket supplied with the access point using the
    (4) #10-32 X 3/8" thread cutting screws as shown in **Figure 7.4**

7.5 Install access point as shown in **Figure 7.5** for wall mounting.

7.6 Install access point as shown in **Figure 7.6** for in-ceiling mounting.

Figure 7.1
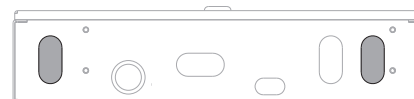
Wall Mount Application

Figure 7.2
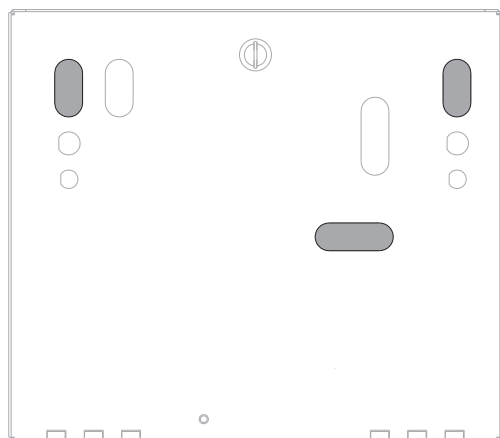
In-Ceiling Mount Application

Figure 7.3
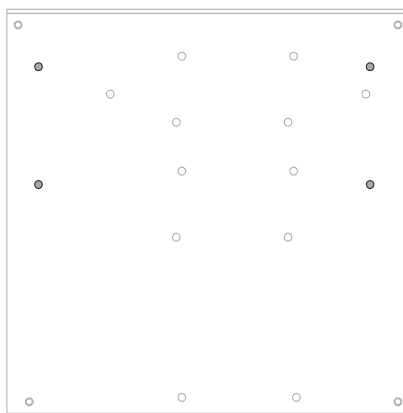
Mounting Plate

Figure 7.4
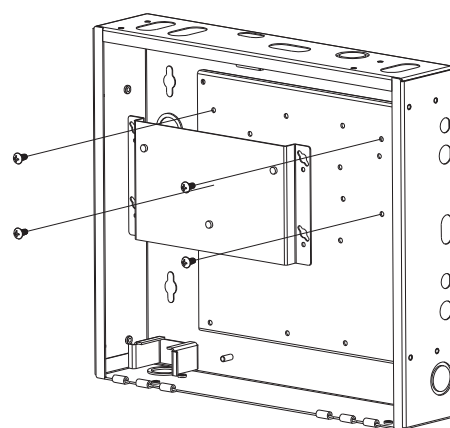
Figure 7.5
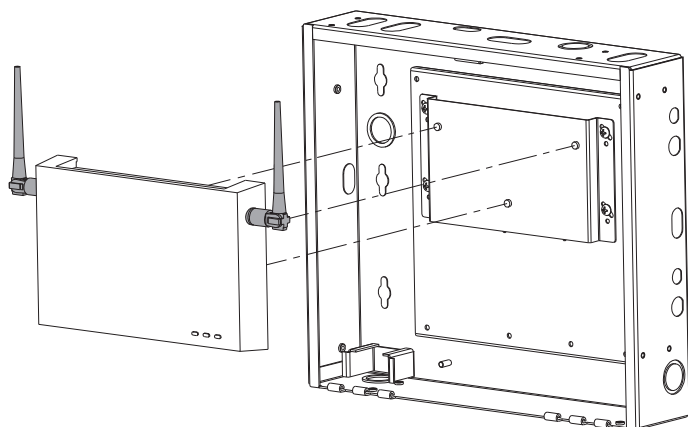
Wall Mount Application

Figure 7.6
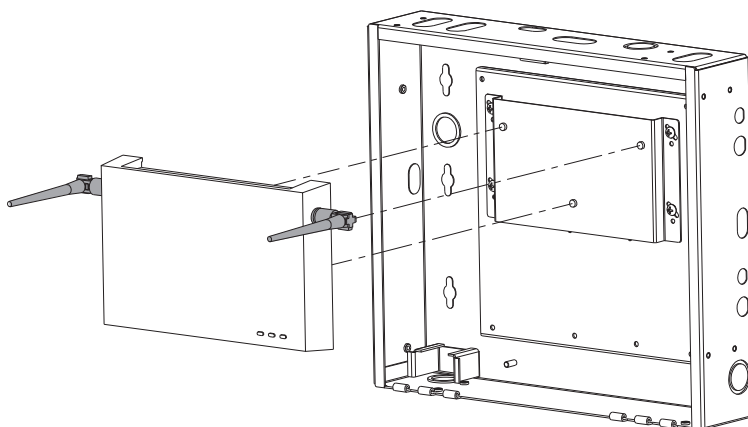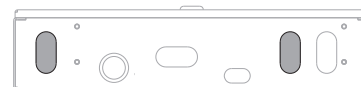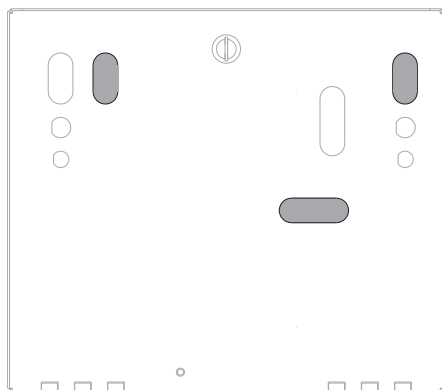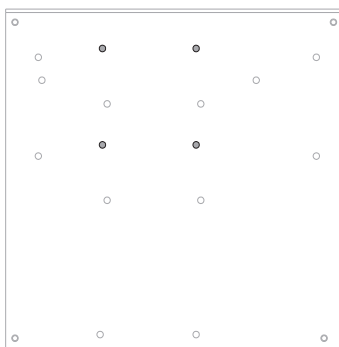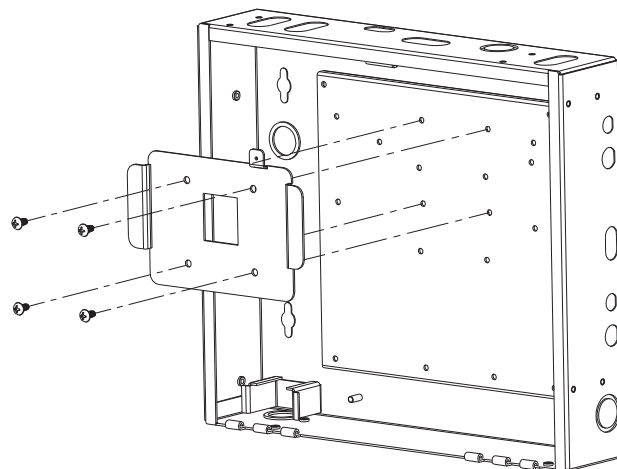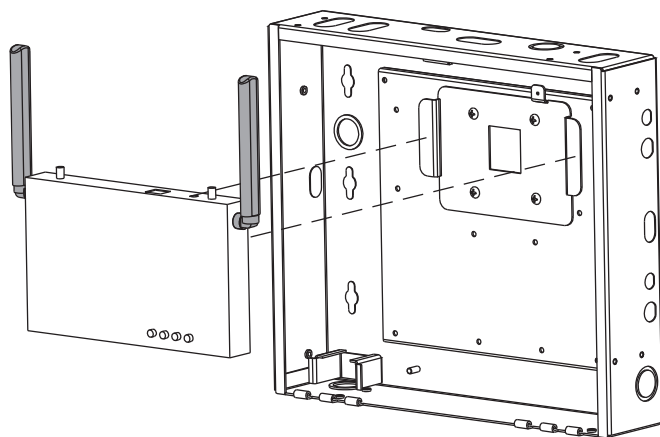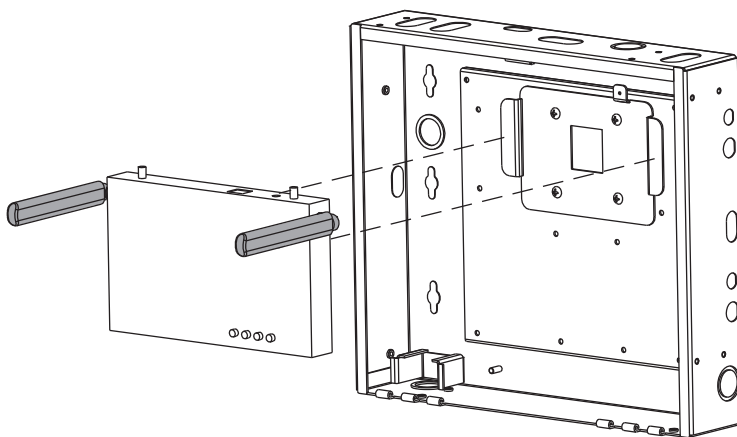
In-Ceiling Mount Application

Step 8: Foundry Iron Point 200 Wireless Access Point Wall Mount and In-Ceiling Installation

8.1   Remove knockouts shown in **Figure 8.1** for wall mounting.

8.2   Remove knockouts shown in **Figure 8.2** for in-ceiling mounting.

8.3   Locate mounting bracket holes shown in **Figure 8.3**

8.4   Install the mounting bracket supplied with the access point using the
      (4) #10-32 X 3/8" thread cutting screws as shown in **Figure 8.4**

8.5   Install access point as shown in **Figure 8.5** for wall mounting.

8.6   Install access point as shown in **Figure 8.6** for in-ceiling mounting.

Figure 8.1
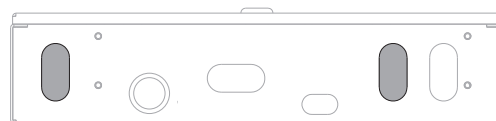
Wall Mount Application

Figure 8.2
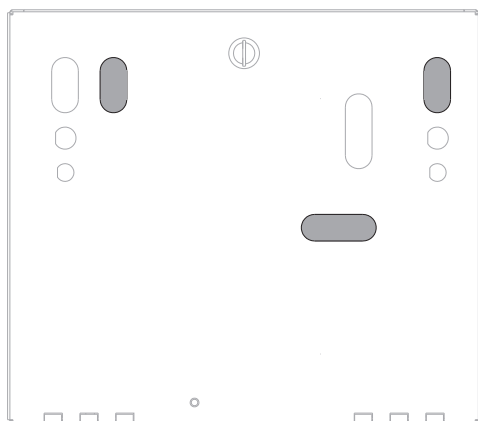
In-Ceiling Mount Application

Figure 8.3
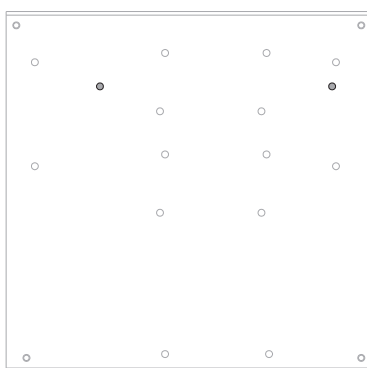
Mounting Plate

Figure 8.4
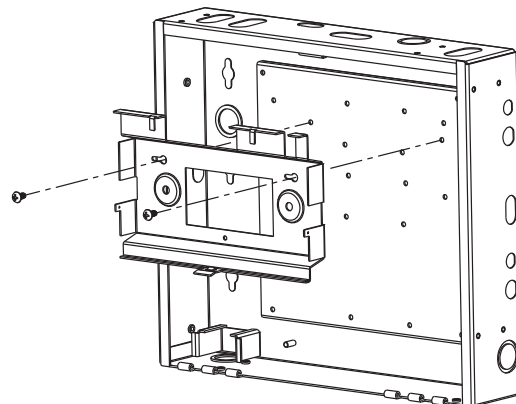
Figure 8.5
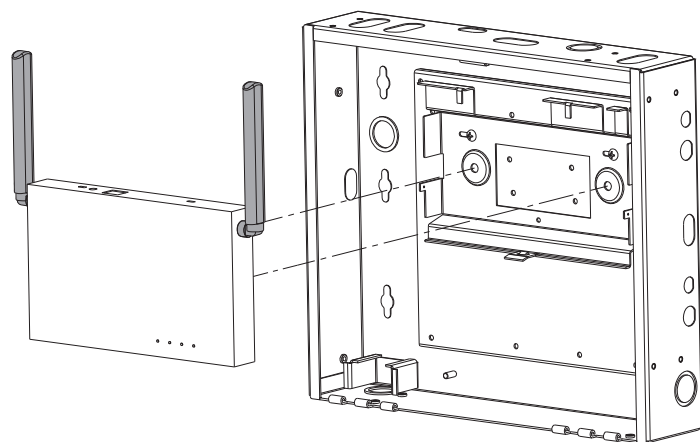
Wall Mount Application

Figure 8.6
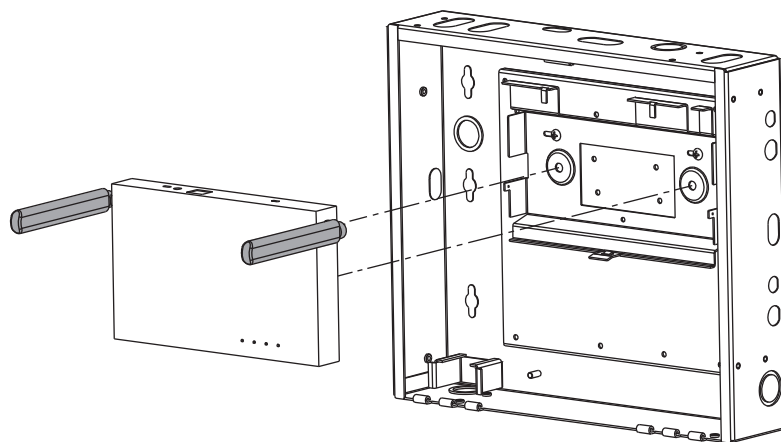
In-Ceiling Mount Application

## Step 9: Enterasys RoamAbout RBT-4102 Wireless Access Point Wall Mount and In-Ceiling Installation

9.1   Remove knockouts shown in **Figure 9.1** for wall mounting.

9.2   Remove knockouts shown in **Figure 9.2** for in-ceiling mounting.

9.3   Locate mounting bracket holes shown in **Figure 9.3**

9.4   Install the mounting bracket supplied with the access point using the
      (4) #10-32 X 3/8" thread cutting screws as shown in **Figure 9.4**

9.5   Install access point as shown in **Figure 9.5** for wall mounting.

9.6   Install access point as shown in **Figure 9.6** for in-ceiling mounting.

Figure 9.1

Wall Mount Application

Figure 9.2

In-Ceiling Mount Application

Figure 9.3

Mounting Plate

Figure 9.4

Figure 9.5

Wall Mount Application

Figure 9.6

In-Ceiling Mount Application

Step 10: Install Surface Mount Box

10.1 Run the network cable to and into the enclosure.

10.2 Terminate the TX6 PLUS Jack Module to the network cable. Refer to the *PANDUIT* web site for jack termination instructions if needed.

10.3 Mount the base of the 2 Position Surface Mount Box to the back wall of the enclosure using provided double sided tape.

10.4 Snap the terminated jack into position "1" of the box. Place the network cable between the two cable retention tabs on the back of the base.

10.5 Remove the breakout tab on the back of the cover.

10.6 Snap the cover onto the base.

Note: A second Jack Module can be installed in position "2" of the surface mount box to provide access to the serial port on the WAP.


10/11
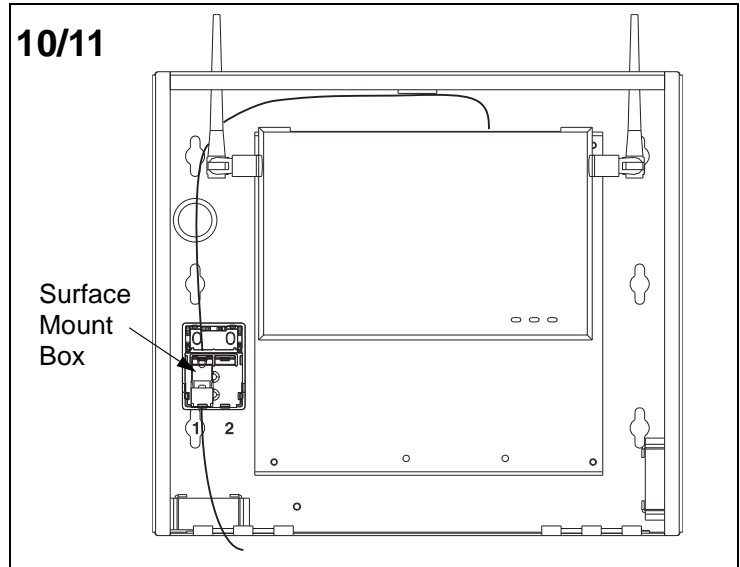
Surface Mount Box

Step 11: Install Patch Cord

11.1 Insert one end of the 2' long TX6 PLUS Patch Cord into the RJ45 port located on the WAP.

11.2 Insert the other end of the patch cord into the TX6 PLUS jack located in the surface mount box.

Step 12: Install Fire Resistant Foam (if needed)

Note: Fire Resistant Foam used when network cable is routed into the enclosure without the use of conduit in flush wall mount and in-ceiling mount applications.

12.1 Place two pieces of fire resistant foam into the foam retention bracket. Both pieces should be underneath the network cable and the ground cable.

12.2 Place the remaining two pieces of fire resistant foam on top of the cables.

12.3 Press down on the foam and slide the foam retention plate into place. The expanding foam holds the retention plate in place.

12 1 2 3 4 5 6
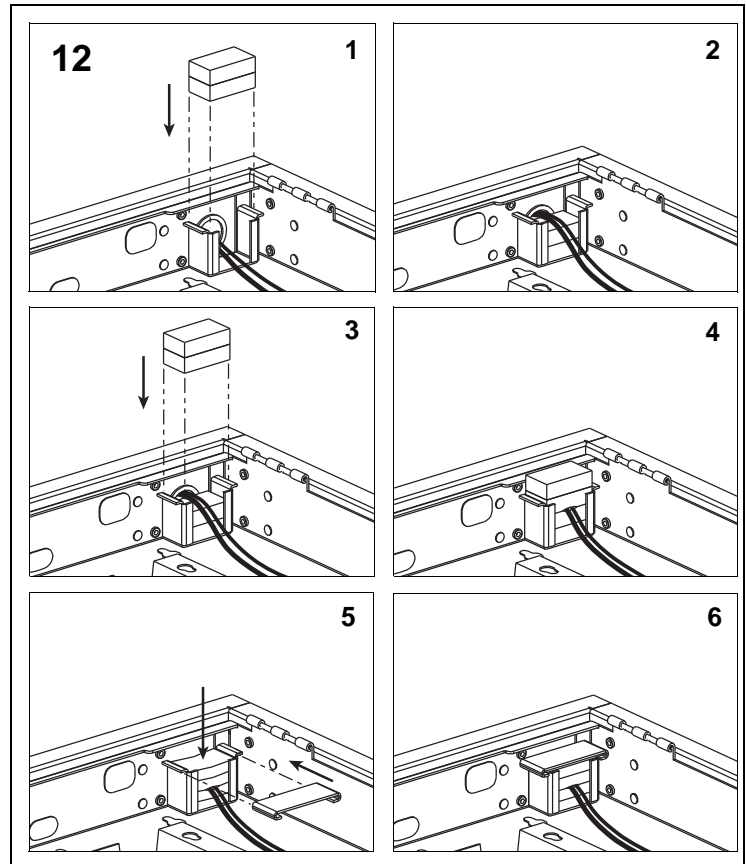
Option 1: Wireless Access Point with External Antennas; Alternate In-Ceiling Installation

1.1 Remove knockouts RP-TNC or RP Type N shown in **Figure 1.1** for in-ceiling mounting.

1.2 Locate mounting as holes coresponding wireless access point mounting bracket.

1.3 Install the mounting bracket supplied with the access point using the
    (4) #10-32 X 3/8" thread cutting screws as shown in **Figure 1.3** (HP ProCurve 420 Shown)

1.4 Install access point as shown in **Figure 1.4** for in-ceiling mounting.

1.5 Install the bulkhead extenders as shown in **Figure 1.5**.

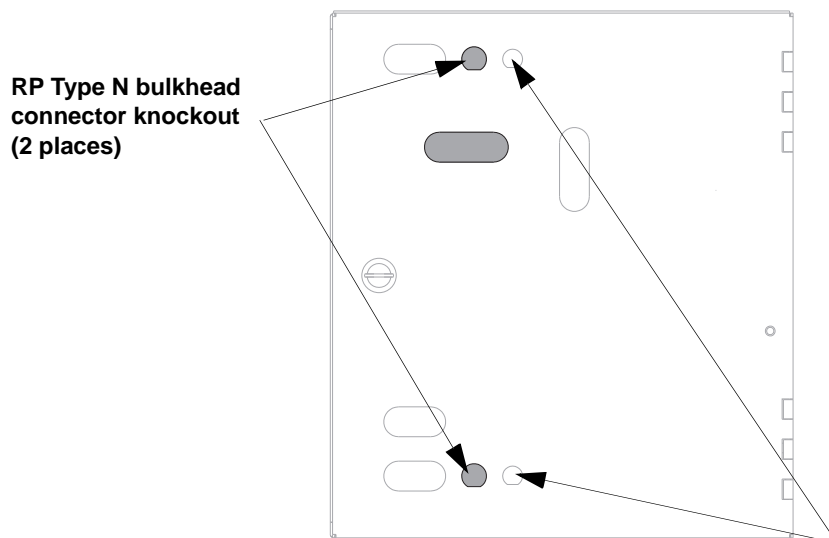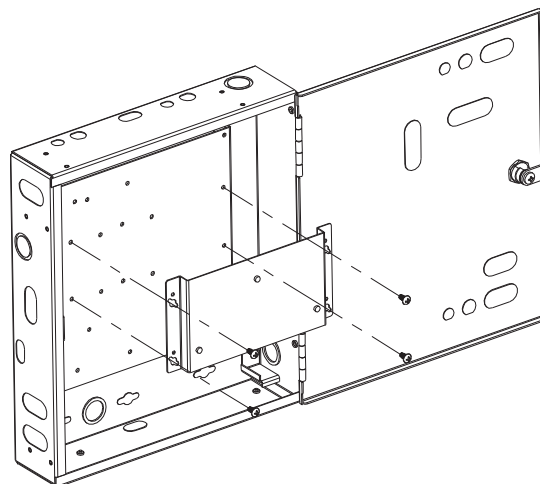1.6 Attach antenna extenders to wireless access point as shown in **Figure 1.6**.

Figure 1.1

Figure 1.3

**RP Type N bulkhead
connector knockout
(2 places)**

**RP-TNC bulkhead
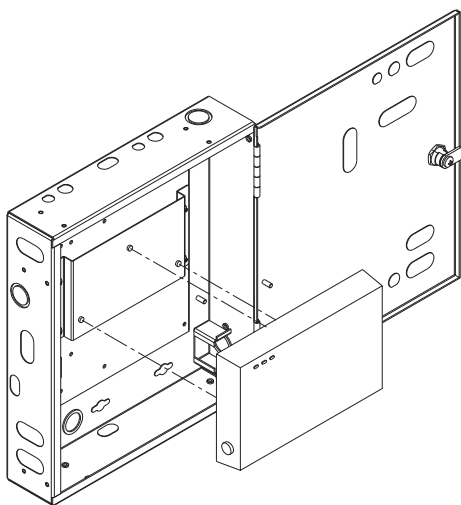connector knockout
(2 places)**

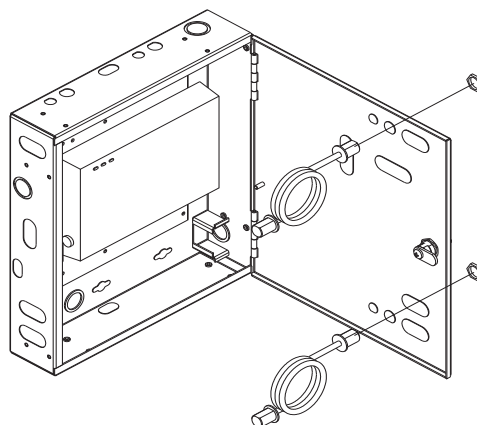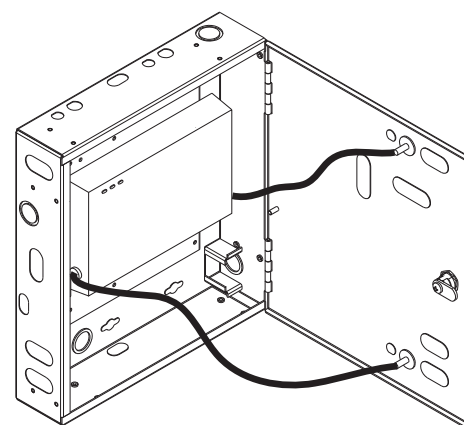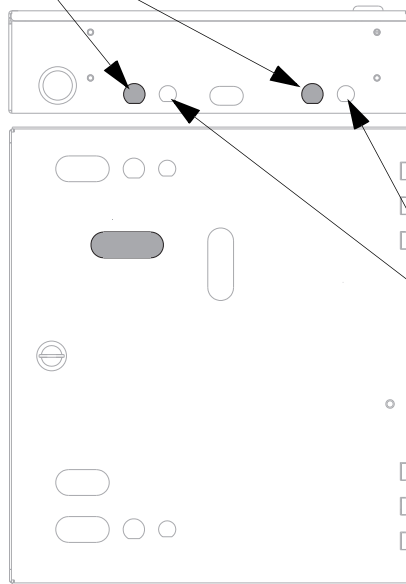**Figure 1.4**

Figure 1.5

Figure 1.6

Option 2: Wireless Access Point with External Antennas; Alternate Wall Installation

2.1   Remove knockouts RP-TNC or RP Type N shown in **Figure 2.1** for in-ceiling mounting.

2.2   Locate mounting as holes coresponding wireless access point mounting bracket.

2.3   Install the mounting bracket supplied with the access point using the (4) #10-32 X 3/8" thread cutting screws as shown in **Figure 2.3** (Enterasys RoamAbout RBT-4102)

2.4   Install access point as shown in **Figure 2.4** for wall mounting.

2.5   Install the bulkhead extenders as shown in **Figure 2.5**.

2.6   Attach antenna extenders to wireless access point as shown in **Figure 2.6**.

RP Type N bulkhead connector knockout (2 places)

Figure 2.1

Figure 2.3

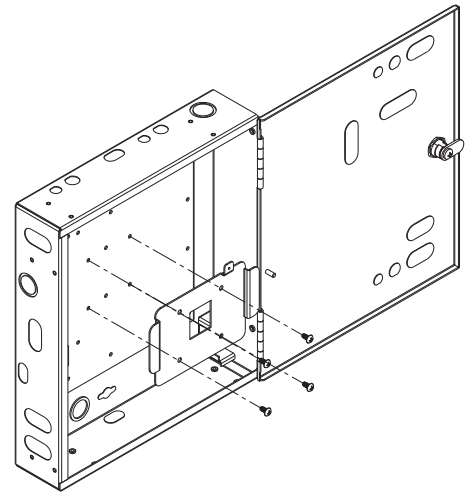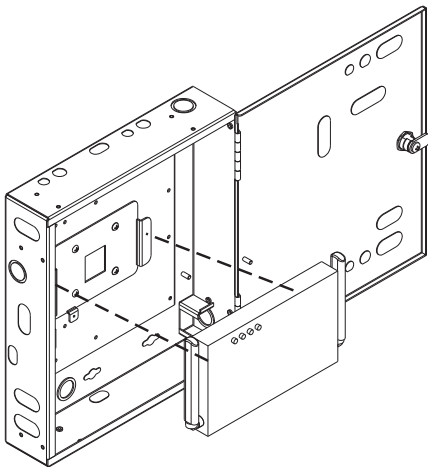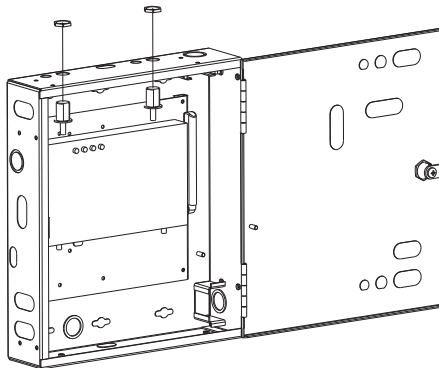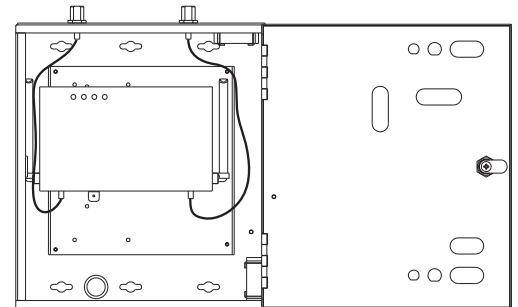**RP-TNC bulkhead connector knockout (2 places)**

Figure 2.4

Figure 2.5

Figure 2.6

For instuctions in Local Languages and Technical Support:

www.panduit.com/resources/install_maintain.asp

PANDUIT

www.panduit.com

E-mail:
cs@panduit.com
Fax:
(708)444-6448

Page 10 of 10