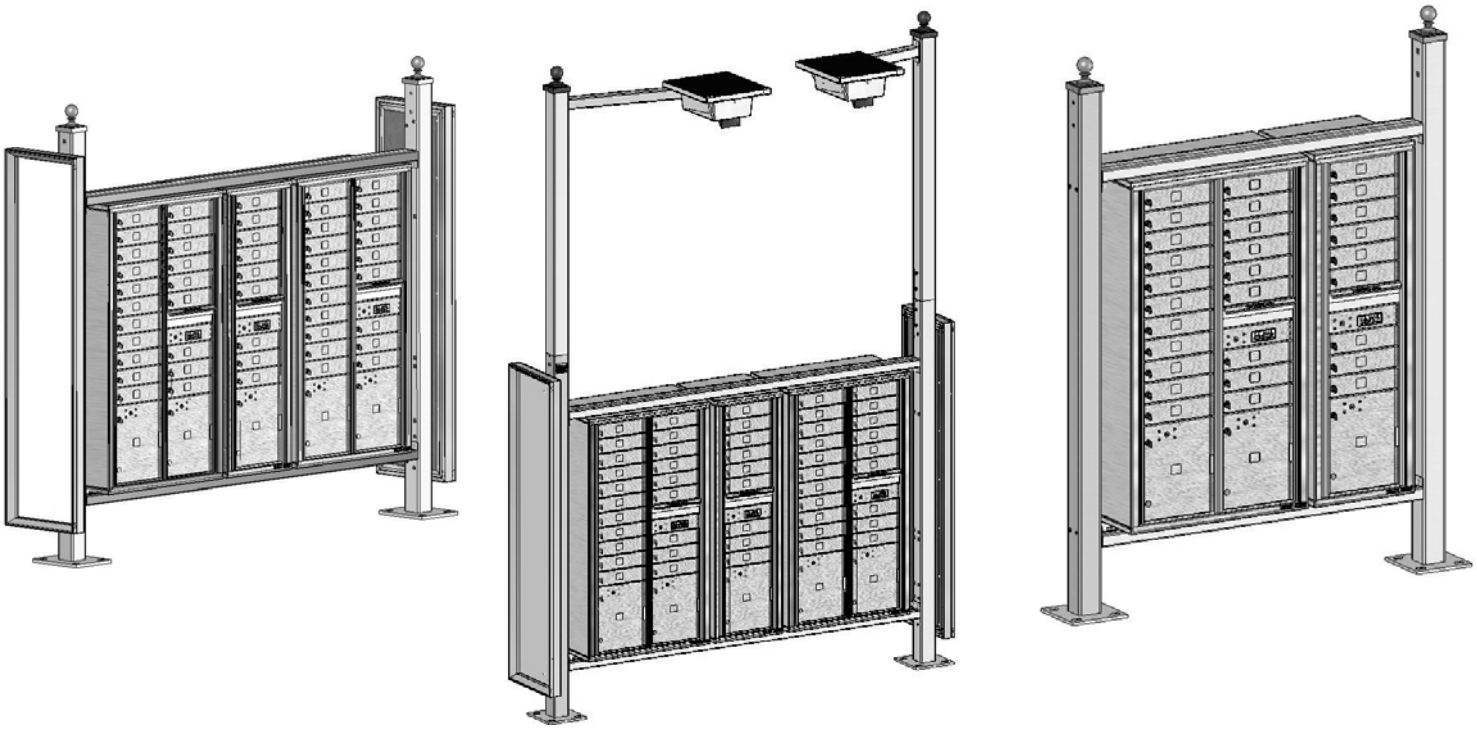
vario Express™

4C configurable mail station kit

Installation Instructions



AF FLORENCE manufacturing company
5935 Corporate Drive • Manhattan, KS 66503
www.auth-florence.com • (800) 275-1747
A GIBRALTAR INDUSTRIES COMPANY

Congratulations on the purchase of your new vario EXPRESS™ 4C configurable mail station from Florence Manufacturing! The residents in your neighborhood will thank you for selecting a manufacturer with over 75 years experience in keeping mail safe. In addition, this unique and innovative product will enhance the property on which you are installing it for years to come.

Florence products are well known for their great design, high levels of performance, and are trusted by builders and property owners across the nation and in Canada alike. Your new vario EXPRESS™ mail station is no exception. Originating from the desire for more architecturally pleasing design options for centralized delivery - U.S. Postal Service's preferred method of mail delivery for new developments - vario EXPRESS™ mail stations provide you with flexible, turnkey centralized mail/community station solution for your neighborhood. While good design may stand out - the excellent vario EXPRESS™ design fits in!

If for any reason you need assistance with installation, or have questions on included parts for your vario EXPRESS™ mail station, please do not hesitate to contact your local Authorized Florence Dealer. Additionally, you may download pad specifications and/or other technical documents at www.auth-florence.com.

The vario EXPRESS™ mail station's unique design ensures your mailbox system will be in compliance with the U.S. Postal Service's STD-4C, the latest regulation and installation requirements for wall mounted mailboxes. Please see diagram below for illustration:

U.S. Postal Service STD-4C installation guidelines require the following:

1. ***At least one customer compartment shall be positioned less than 48 inches from the finished floor.***
2. ***No parcel locker compartment (interior bottom shelf) shall be positioned less than 15 inches from the finished floor.***
3. ***No patron (tenant) lock shall be located more than 67 inches above the finished floor.***
4. ***No customer compartment (interior bottom shelf) shall be positioned less than 28 inches from the finished floor.***
5. ***The USPS Arrow lock shall be located between 36 and 48 inches above the finished floor.***

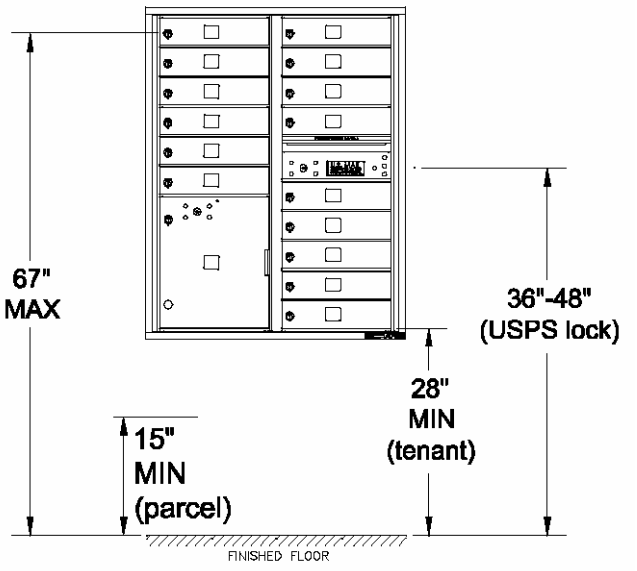
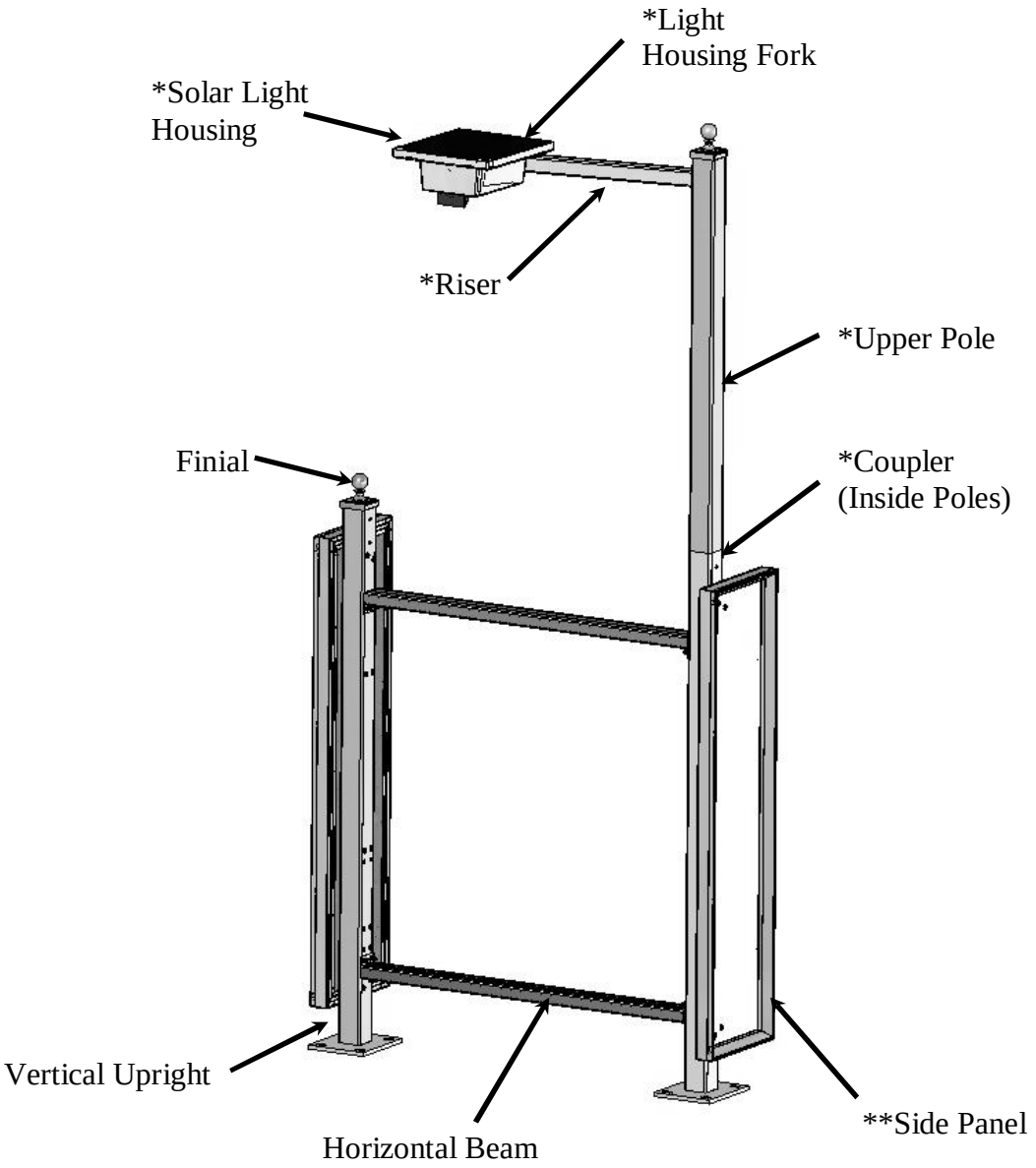


Table of Contents

Technical References: Pad specifications, dimensions, and other product specifications are available to download at **www.auth-florence.com/downloads**

Get to Know Your vario EXPRESS™

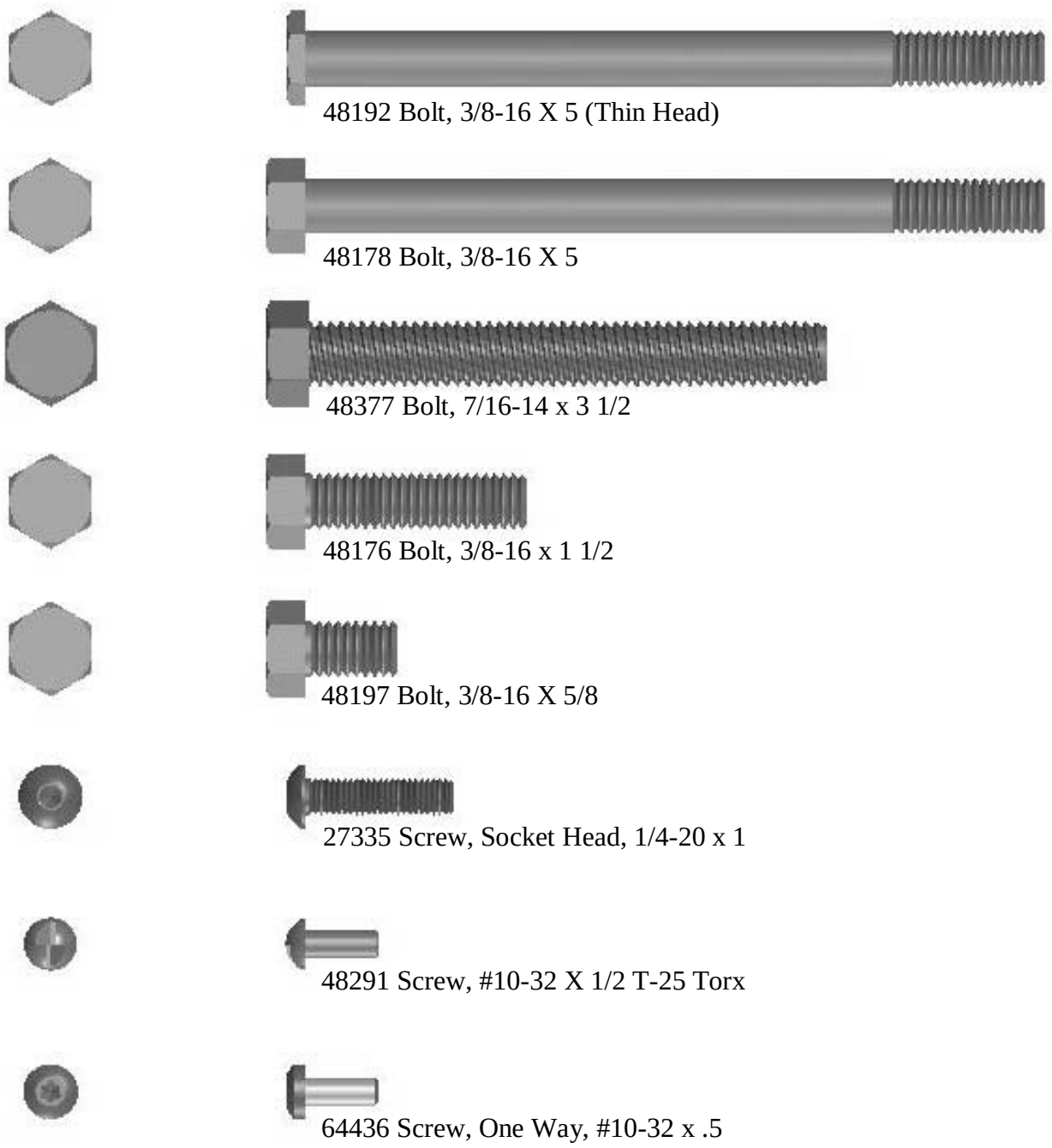
Before the assembly process begins, please review the illustration below. The major components that you will be working with and that are referred to in this instruction manual are identified so as you are installing your vario EXPRESS™ mail station, you will be familiar with the terms that are used.



*(*Shown with optional sentinel™ Solar Lite Kit – sold separately)*
*(**Shown with optional side panels – sold separately)*

Hardware List

All hardware illustrated here is to full scale. The amount of hardware included will vary depending upon model type being installed. This list is for identification purposes only.



48192 Bolt, 3/8-16 X 5 (Thin Head)

48178 Bolt, 3/8-16 X 5

48377 Bolt, 7/16-14 x 3 1/2

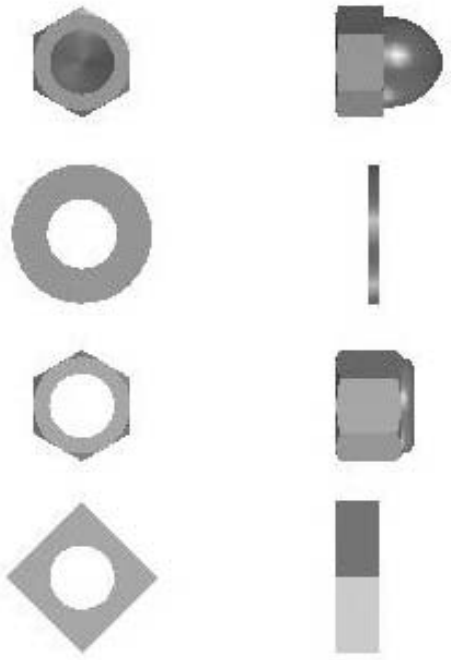
48176 Bolt, 3/8-16 x 1 1/2

48197 Bolt, 3/8-16 X 5/8

27335 Screw, Socket Head, 1/4-20 x 1

48291 Screw, #10-32 X 1/2 T-25 Torx

64436 Screw, One Way, #10-32 x .5



48366 Acorn Nut, 3/8-16

48175 Washer, 13/32 ID X 13/16 OD

48177 Lock Nut, 3/8-16

48187 Nut, Square, 3/8-16 X 1/4 Thick

Hilti anchoring system is also included with each model type. *Please see page 12 for details.*

Suggested Tools for Installation

- 9/16” socket
- 9/16” wrench
- Ratchet
- 5/32” allen wrench
- Cordless drill with proper socket adapter(s)
- Hammer drill with 11/16” masonry bit
- Air tank or vacuum to remove dust from holes that are drilled in concrete
- 15/16” wrench or large crescent wrench
- Hammer
- Rubber mallet
- 10’ step ladder
- Screw driver or taper punch for aligning mating holes
- Torx-Plus driver bit - #25
- Torx-Plus driver bit - #20
- Level
- 25’ tape measure
- Phillips driver bit - #3
- Grout trowel
- Grouting bag
- Flat head screwdriver

Section 1: Standard vario EXPRESS™ Assembly

Step 1 - Assemble Vertical Uprights

a) Lay vertical upright on the ground taking care not to scratch finish.
b) Place the finial on top of the vertical upright aligning the holes and fasten in place with (2) 64436 one way screws.
c) Repeat finial attachment for other vertical upright.
d) Make sure all screws are tight. *See Figure 1.*
   Note: Be careful not to strip the threads of the screws.
e) ***Special note: If assembling a vario EXPRESS™ with optional sentinel™ solar lite kit, replace this step with steps 10 through 12. (See pages 33 – 38)***

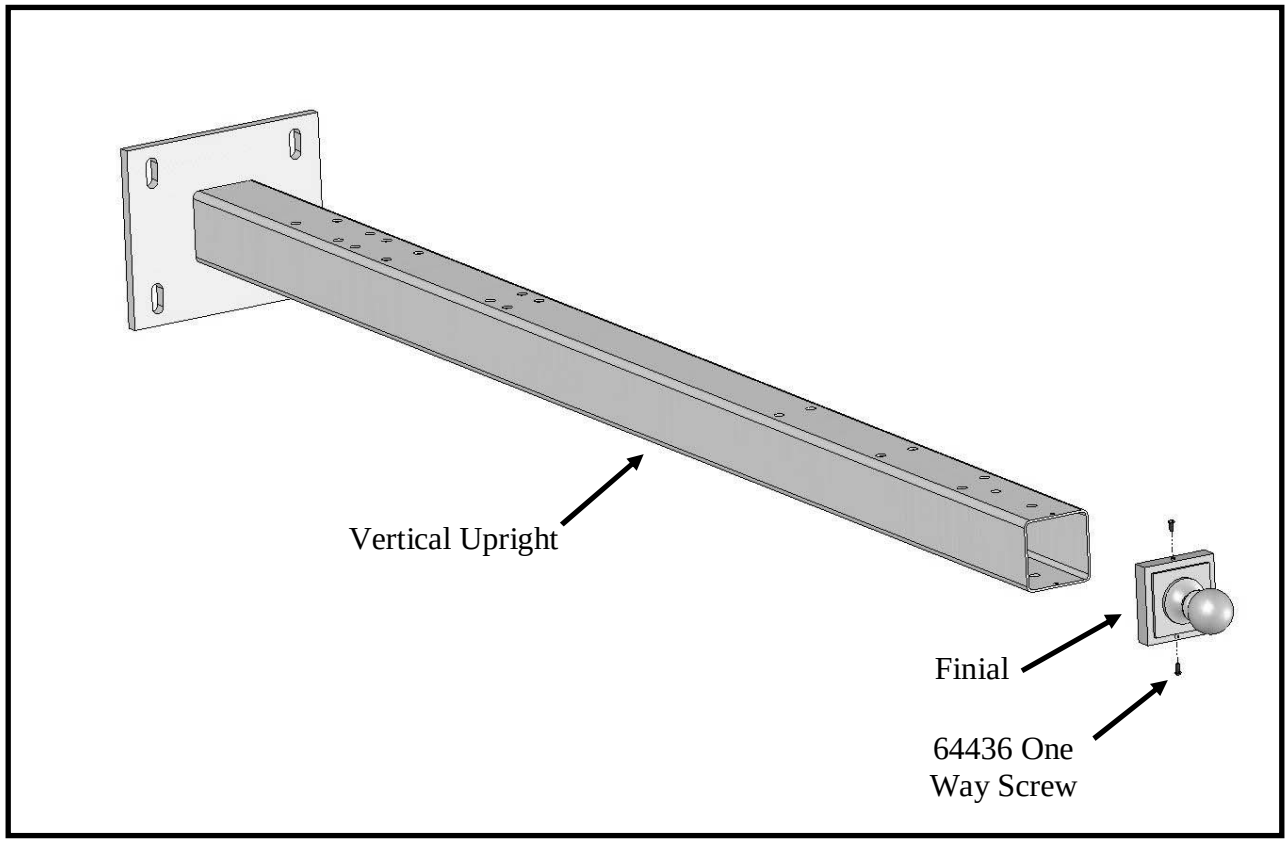


Figure 1 – Vertical Upright Assembly

Step 2 - Install Vertical Uprights and Hilti Anchors

a) Locate where the vertical upright mounting anchor holes are to be drilled using the foundation dimensions shown in *Figures 2 through 5.*

Hint: The horizontal mounting beams can also be used to help determine the distance between the vertical uprights.

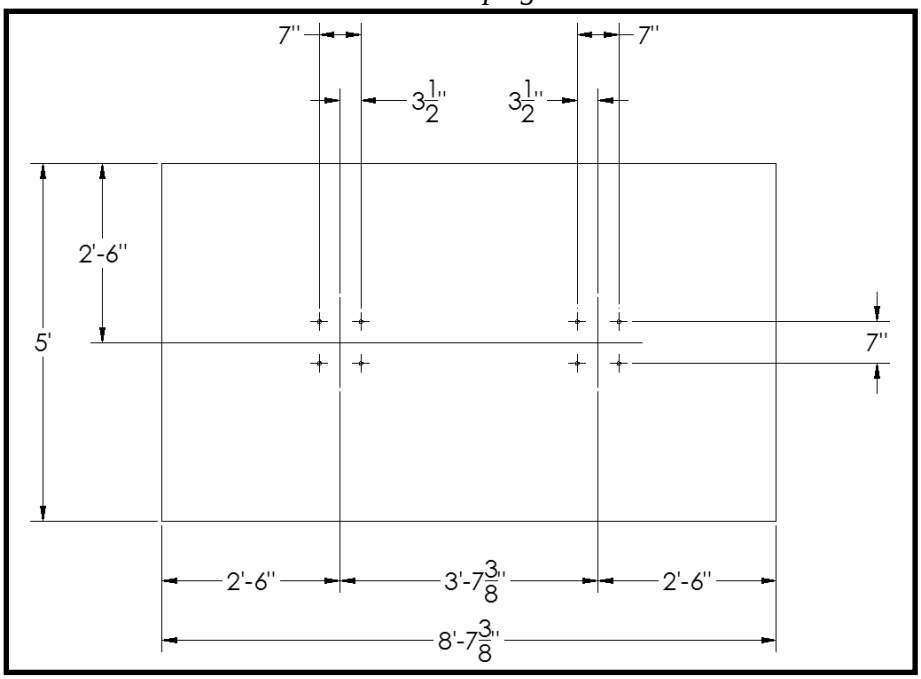


Figure 2 – vario EXPRESS™ I Anchor Hole Location

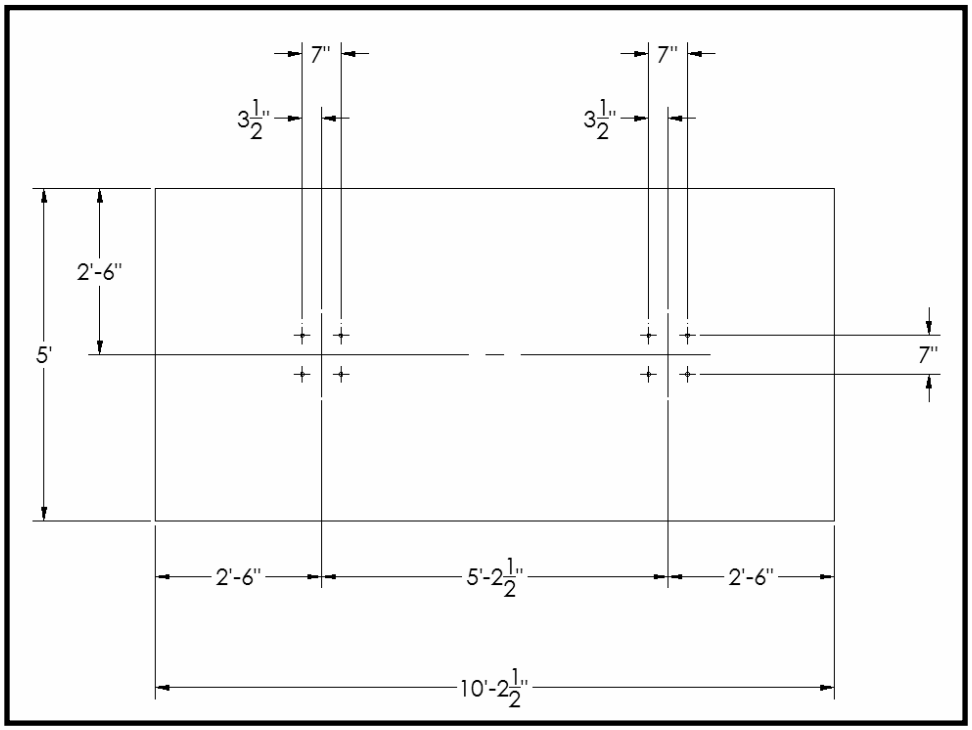


Figure 3 – vario EXPRESS™ II Anchor Hole Location

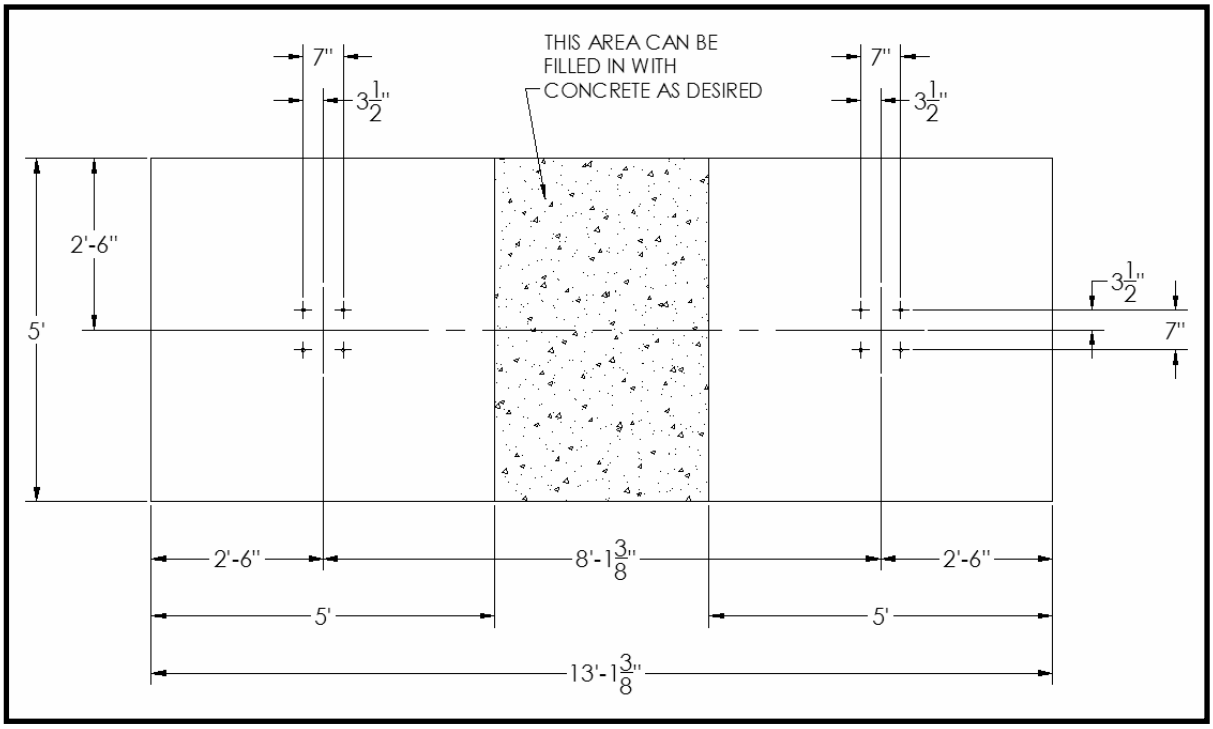


Figure 4 – vario EXPRESS™ III Anchor Hole Location

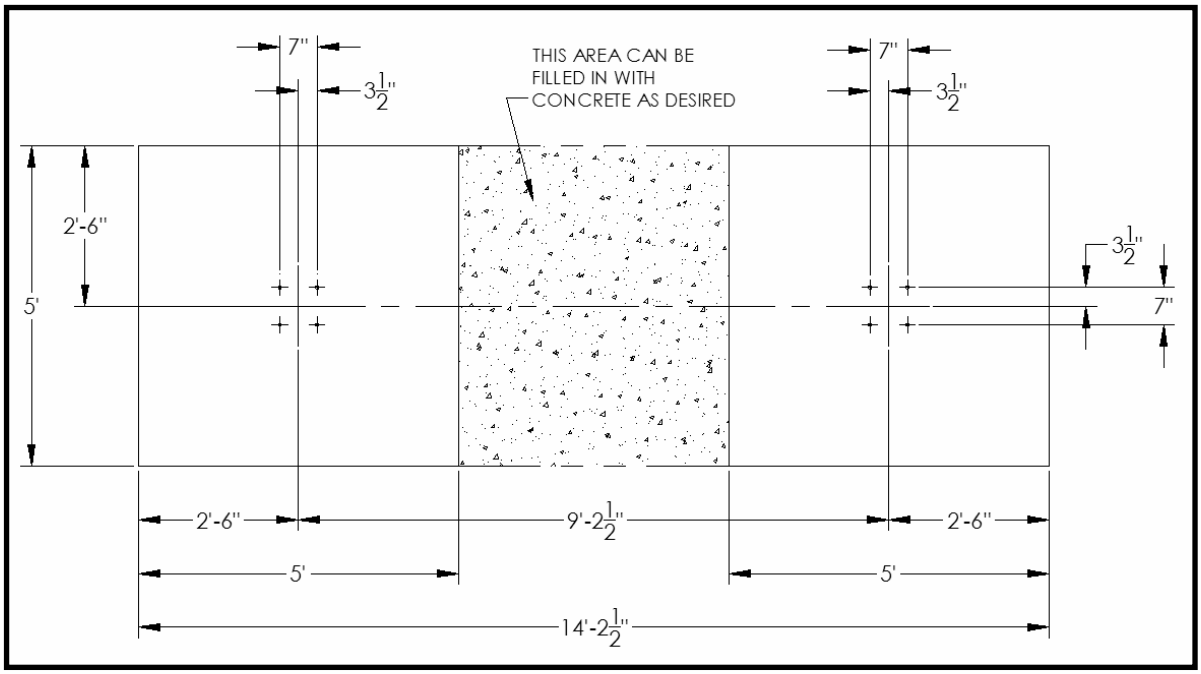
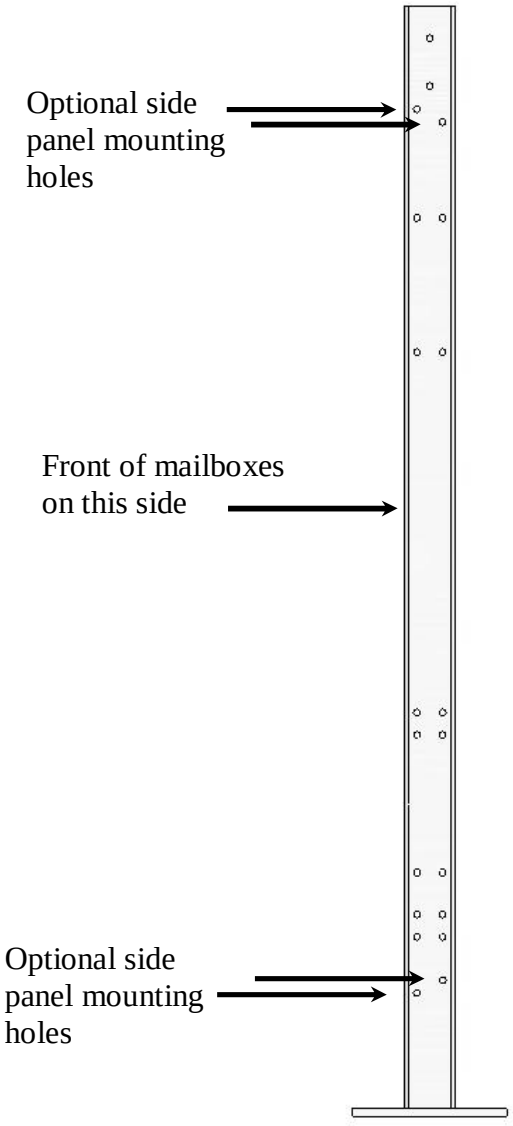


Figure 5 – vario EXPRESS™ IV Anchor Hole Location

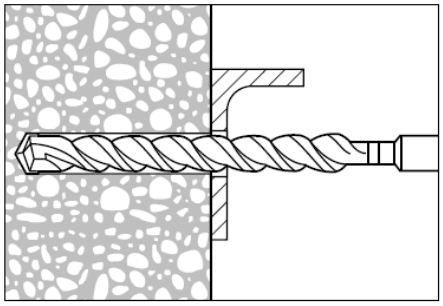
b) Place the vertical upright into position. Drill holes in the concrete while the vertical upright is in position. (See page 12 for drill bit size and type to use).
c) Install the Hilti anchors (included) as shown in the Hilti instructions on the following page.
d) **Note the direction of the end panel mounting holes of the vertical support.** ***See Figure 6 below.***
e) Loosely install the nuts on the anchors. *Do not completely tighten hardware yet. All hardware will be tightened in a later step!*
f) Note: In the event the concrete pad is not level, refer to Appendix B on page 40 for suggested station leveling guide.



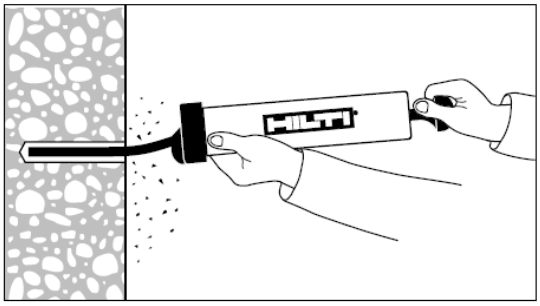
NOTE: The vertical upright shows ALL available mounting holes for end panels, 4C suites, and Sentinel lighting. Not all holes will be present on your vario EXPRESS™; only the holes that are necessary for the 4C mailbox suite and ordered options will be present.

Figure 6 – Profile of vertical upright with front of mailboxes indicated by arrow

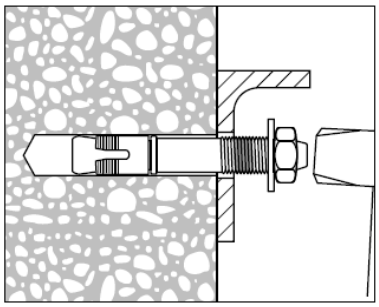
4.3.4.4 Kwik Bolt TZ Anchor Installation Instructions into normal-weight and lightweight concrete



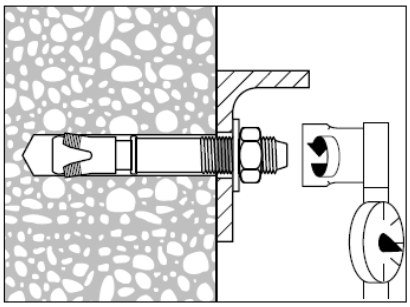
1. Hammer drill a 5/8" hole. Drill the hole to a minimum depth of 4 1/2". The base plate may be used as a drilling template to ensure proper anchor location.



2. Clean hole with compressed air or a vacuum. Excess debris must be removed from the hole.



3. Drive the Kwik Bolt TZ into the hole using a hammer. The anchor must be driven until at least 4 threads are below the surface of the base plate.



4. Tighten the nut to 60 ft-lbs.

Step 3 - Install Horizontal Beams

a) Determine which holes in the vertical uprights will be used to mount the horizontal beams. **The position of the horizontal beam placement is dependent on which Florence versatile™ 4C mailbox suites will be installed in the mail station**. This is to ensure compliance with USPS STD-4C installation requirements referenced on page 2. See *Figure 7* below.

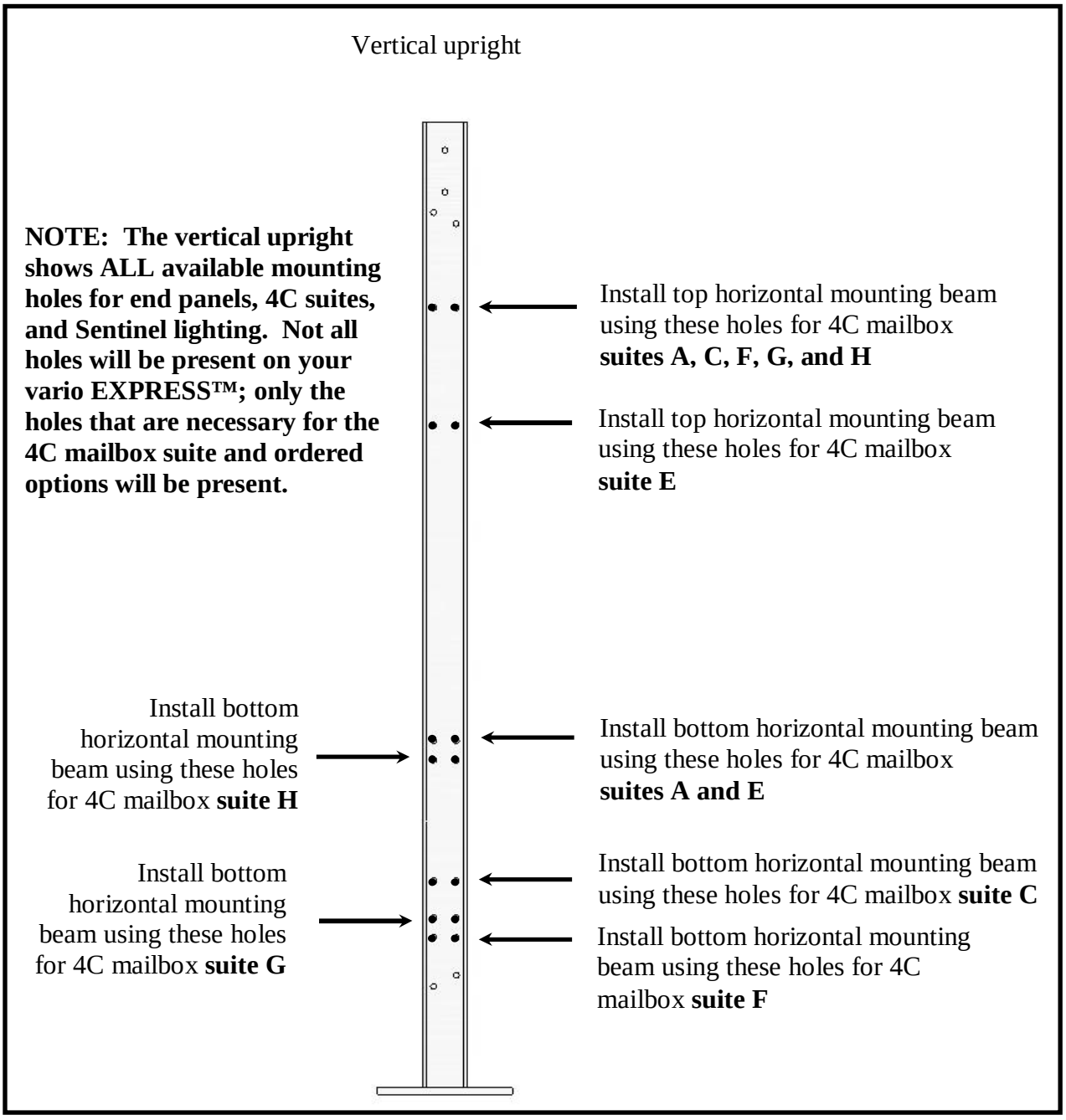


Figure 7 – Horizontal Beam Locations by Florence versatile™ 4C mailbox suites

b) Install the upper and lower horizontal beam(s) between the vertical uprights using (4) 48192 bolts, (4) 48175 washers, and (4) 48177 nuts per beam. *Do not completely tighten hardware yet. See Figures 8 and 9.*

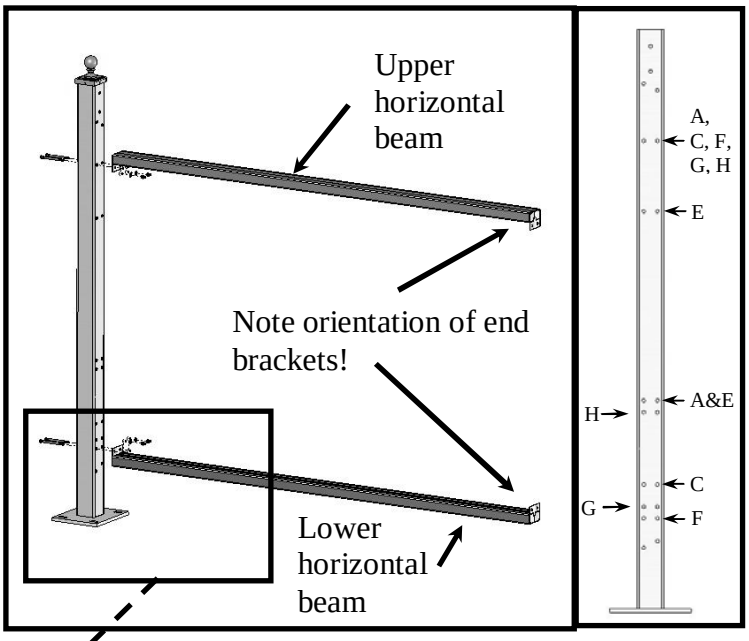


Figure 8 – Installation of horizontal mounting beams

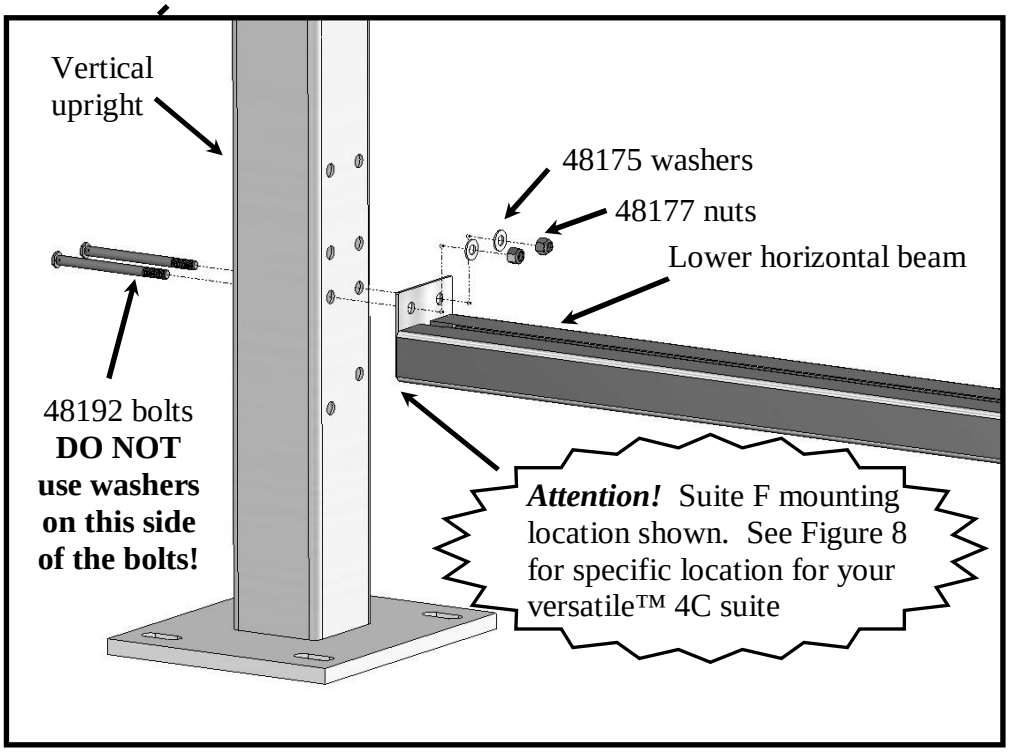


Figure 9 – Installation of horizontal mounting beams

Step 4 - Adjust vario EXPRESS™ and tighten hardware

Ensure that all vario EXPRESS™ components are plumb and square, then tighten all hardware. Use a level and/or a plumb bob to ensure squareness.

Be careful not to strip the threads of the bolts and nuts!

Tighten hardware in the order listed below:

a) Bottom horizontal mounting beam(s).
   * Note: DO NOT tighten TOP horizontal mounting beam until AFTER mailbox casings are installed.

b) Concrete anchors that secure vertical uprights.

See Figure 10 for hardware location and sequence.

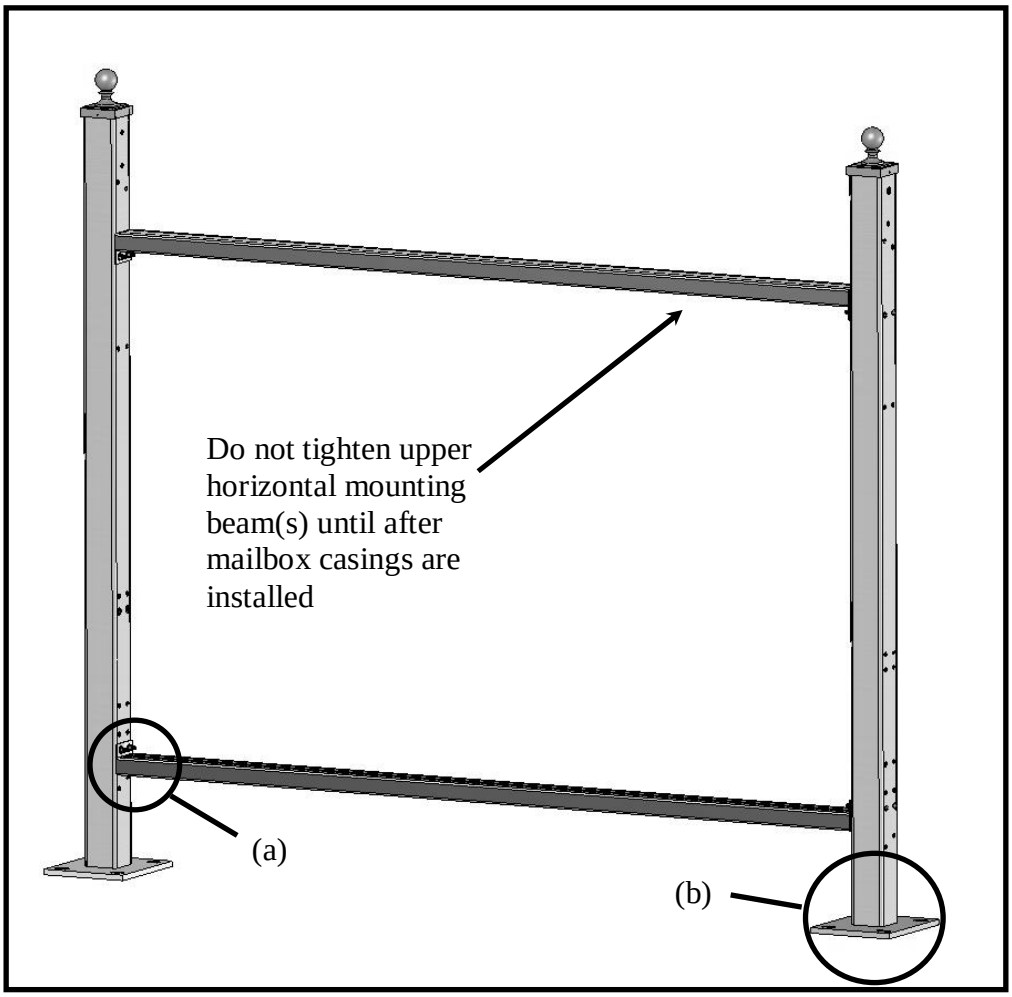


Figure 10 – Hardware tightening sequence

Step 5 - Install Mailbox Casing Mounting Nuts

a) On ends of the upper and lower horizontal mounting beams there is an enlarged area of the slot in the beam. See Figures 11 and 12.

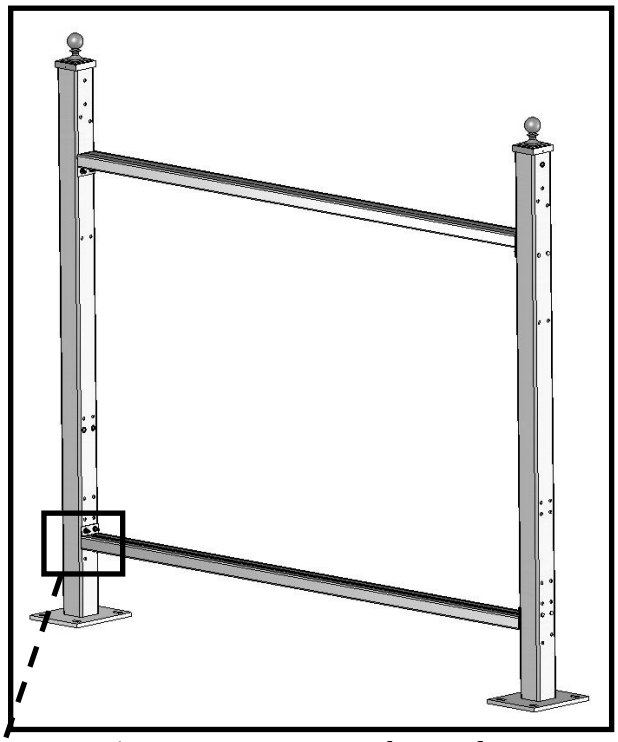


Figure 11 – Mounting beam slot

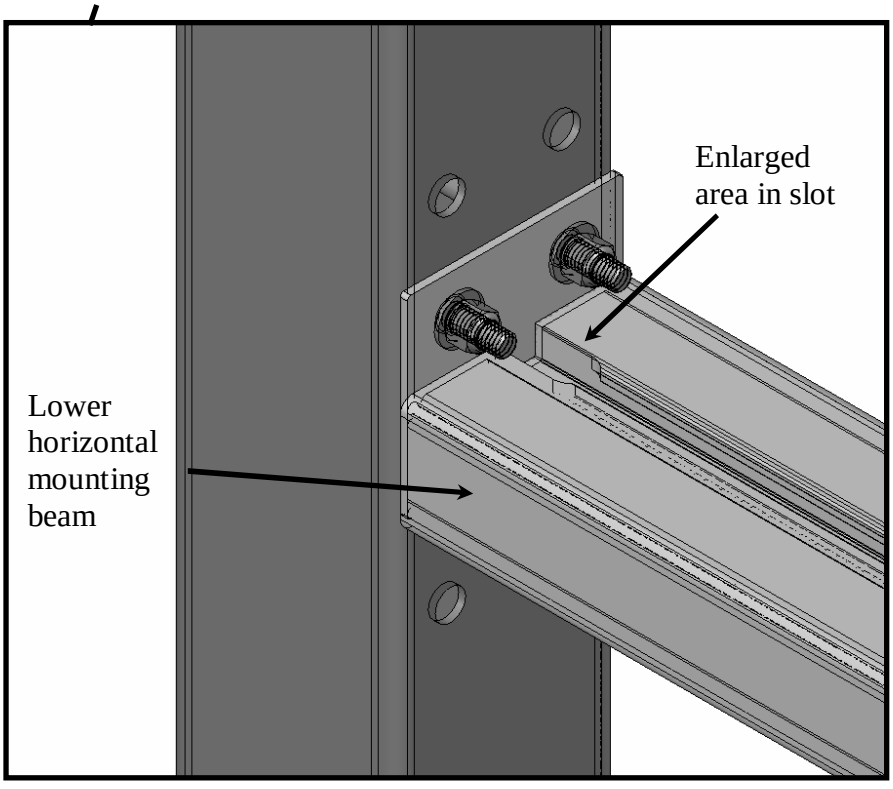


Figure 12 – Close-up view of enlarged area of slot

a) Insert (2) 48187 square nuts for each cabinet in both the upper and lower beams through the enlarged area and slide down as needed to make room for each subsequent nut. *See Figures 13 and 14.*

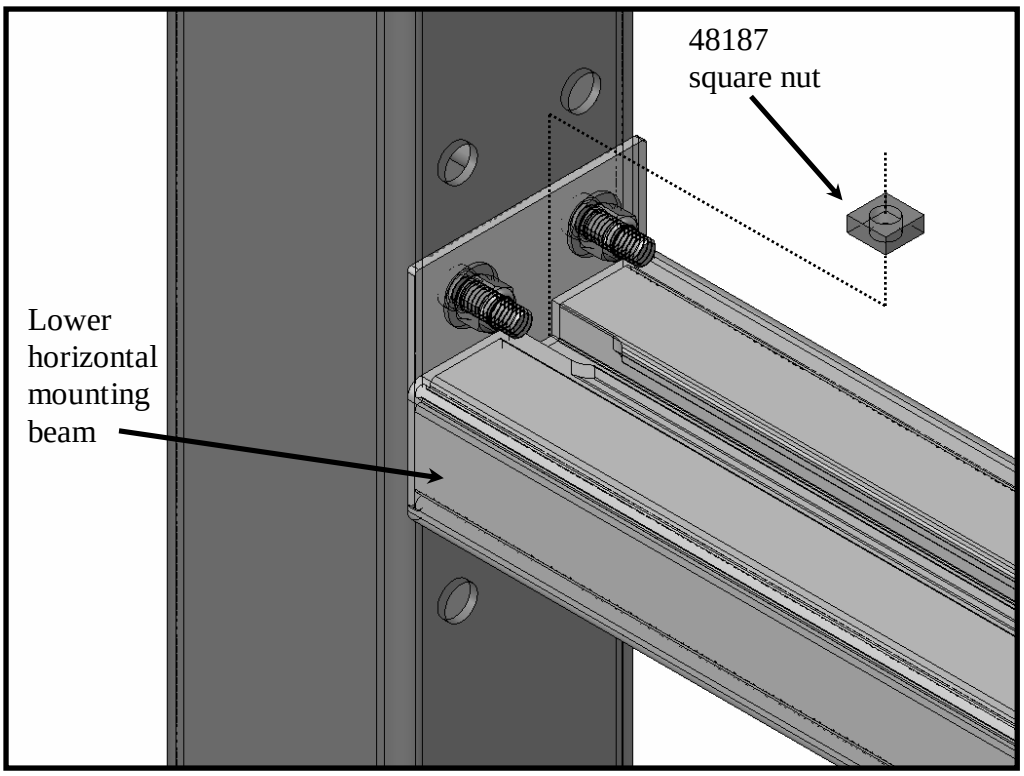


Figure 13 – Installation of casing nuts

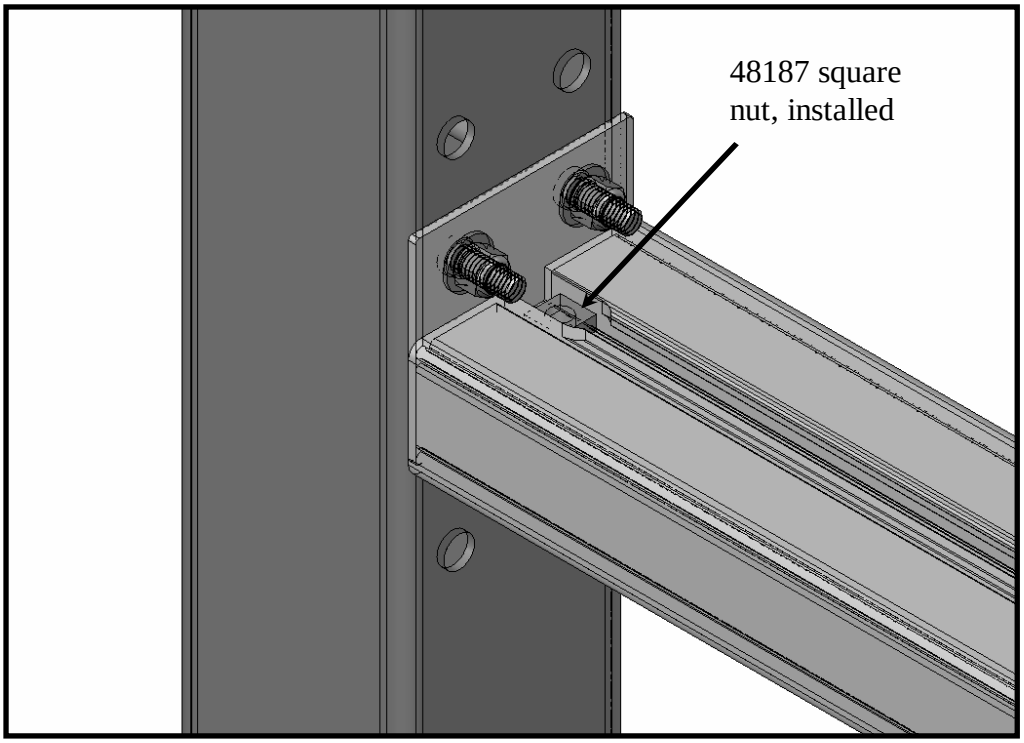


Figure 14 – Installation of casing nuts

Step 6 - Assemble 4C Mailbox Casings

The mailbox casings are shipped unassembled. Five panels are used to make each mailbox casing: top, bottom, back, LH side, and RH side.

a) Place casing back panel on a flat surface, being careful not to scratch paint. *See Figure 15.*

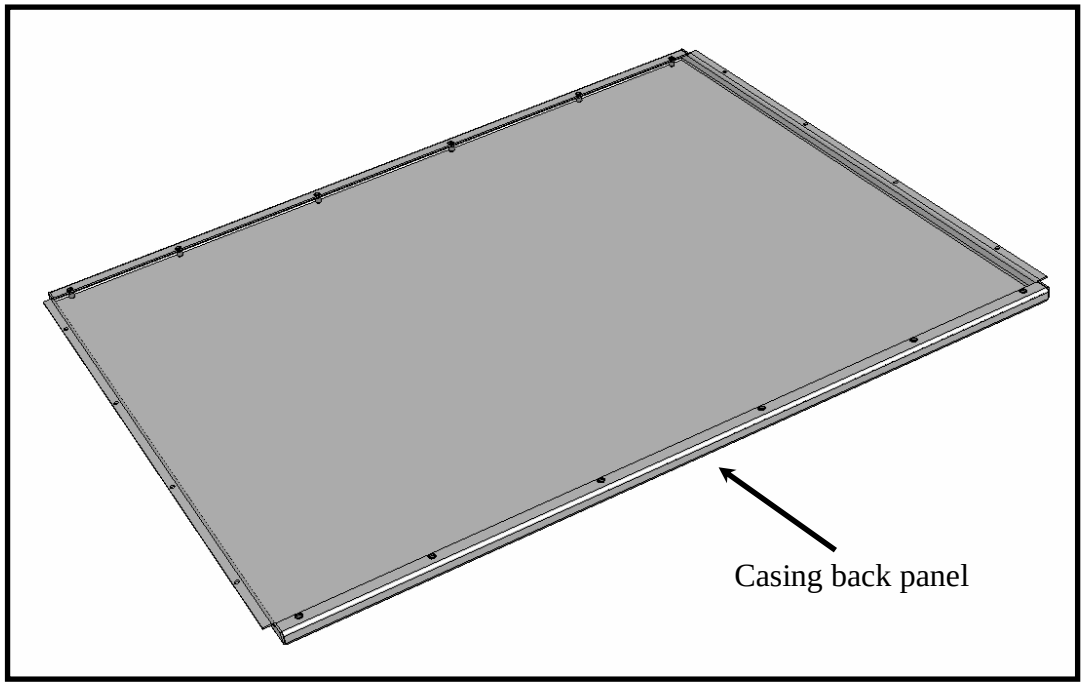


Figure 15 – Casing assembly – back panel

b) Place one side panel into position. Use 48291 screws to attach side to back. *See Figures 16 and 17.*

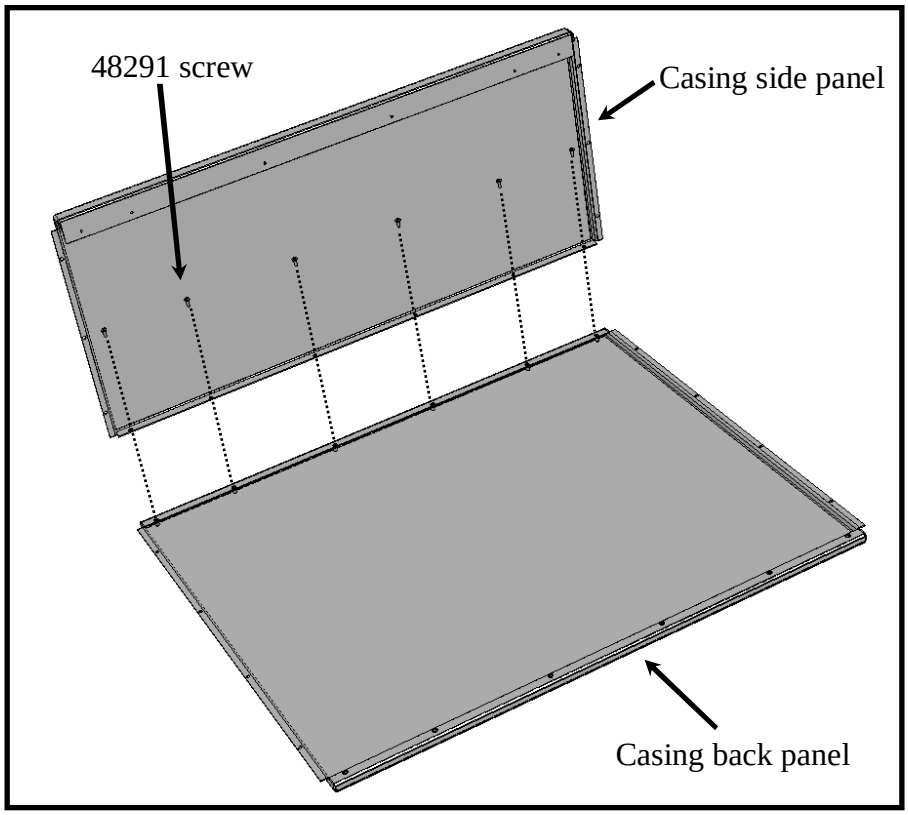


Figure 16 – Casing assembly

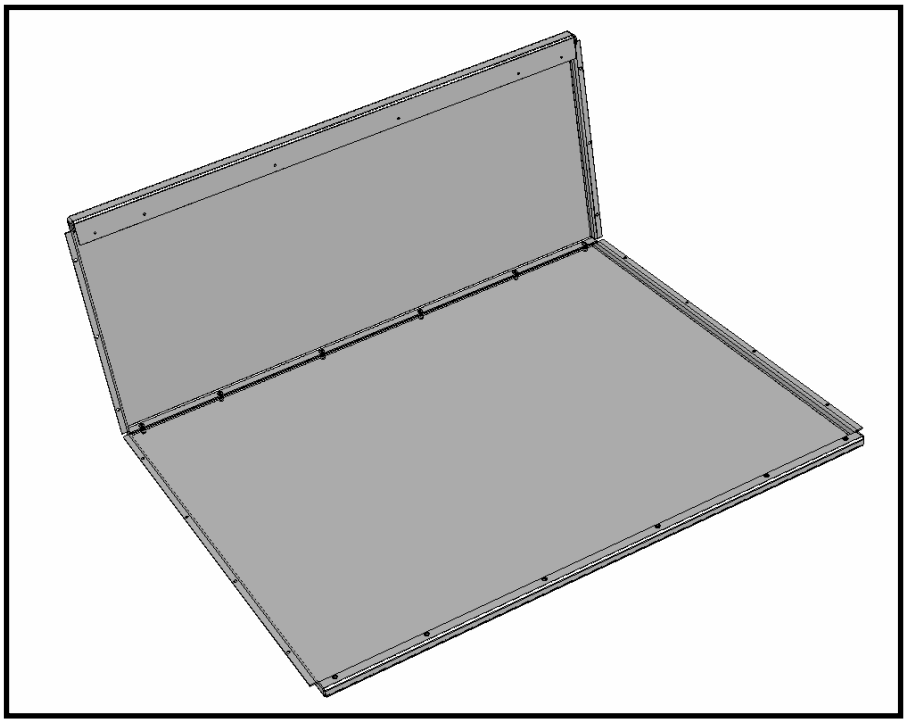


Figure 17 – Casing assembly

Repeat step (b) for the remaining side. *See Figure 18.*

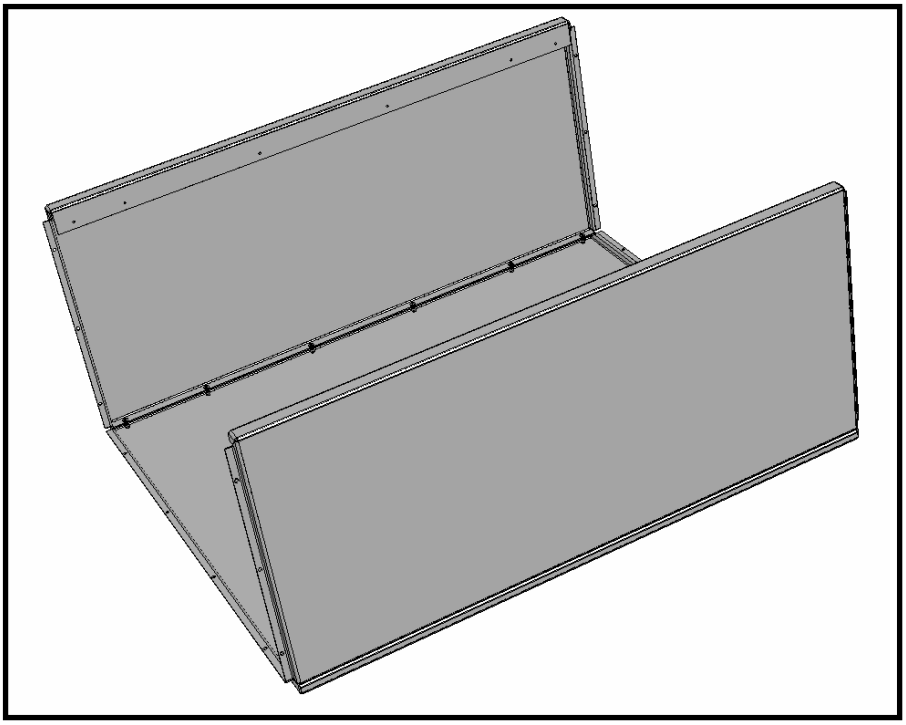


Figure 18 – Casing assembly

c) Place top panel (top and bottom are interchangeable) on back and sides as shown in *Figure 19.*

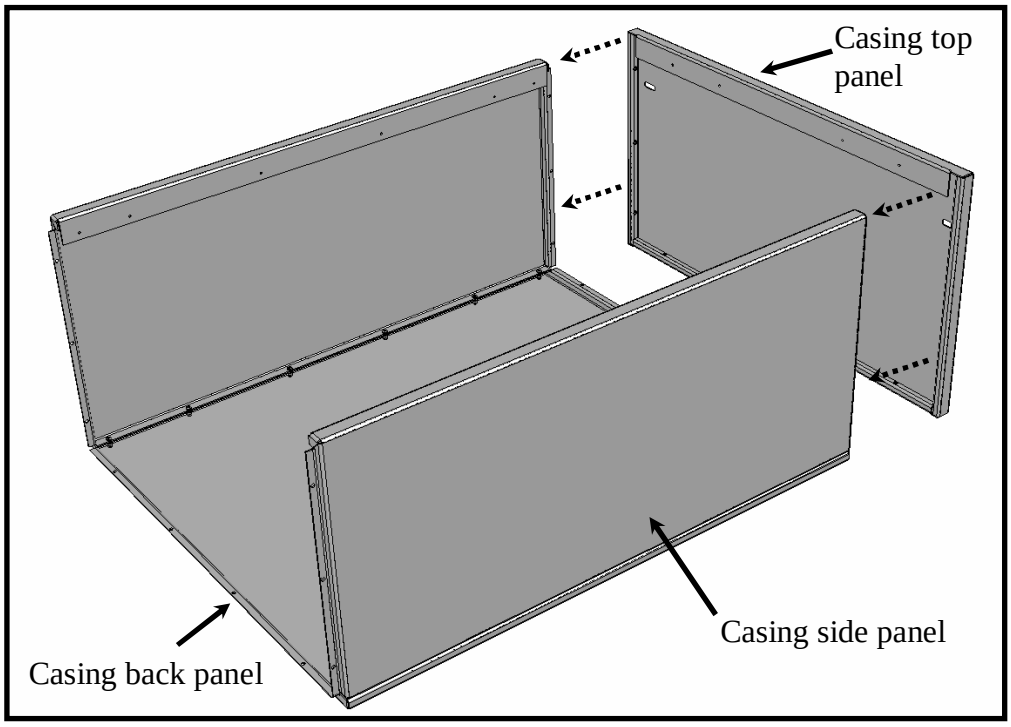


Figure 19 – Casing assembly

d) Attach top to sides and back using 48291 screws. *See Figure 20. Figure 21* shows a different view of this same assembly step.

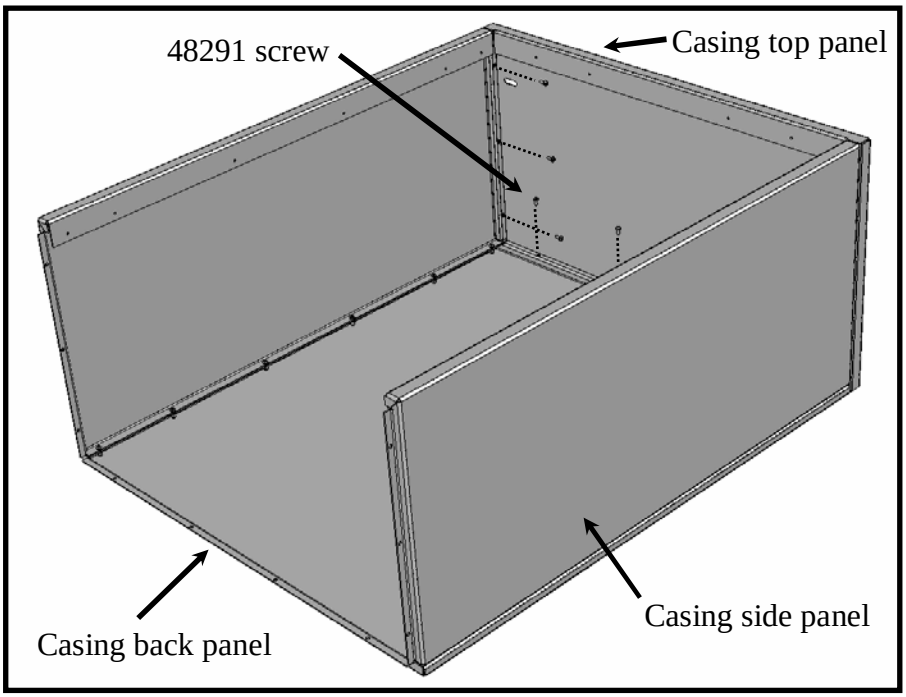


Figure 20 – Casing assembly

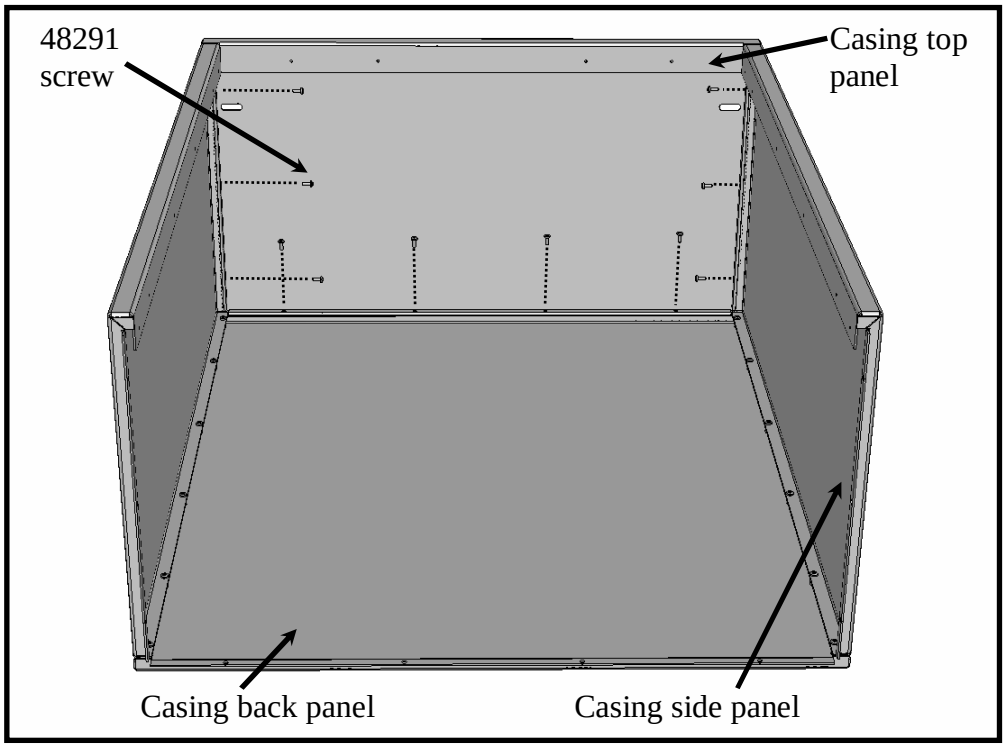


Figure 21 – Casing assembly – alternate view

e) Repeat steps (c) & (d) for the bottom panel. The mailbox casing is now complete. *See Figure 22*.
f) Assemble any additional casings in the same manner by repeating steps (a) through (e).

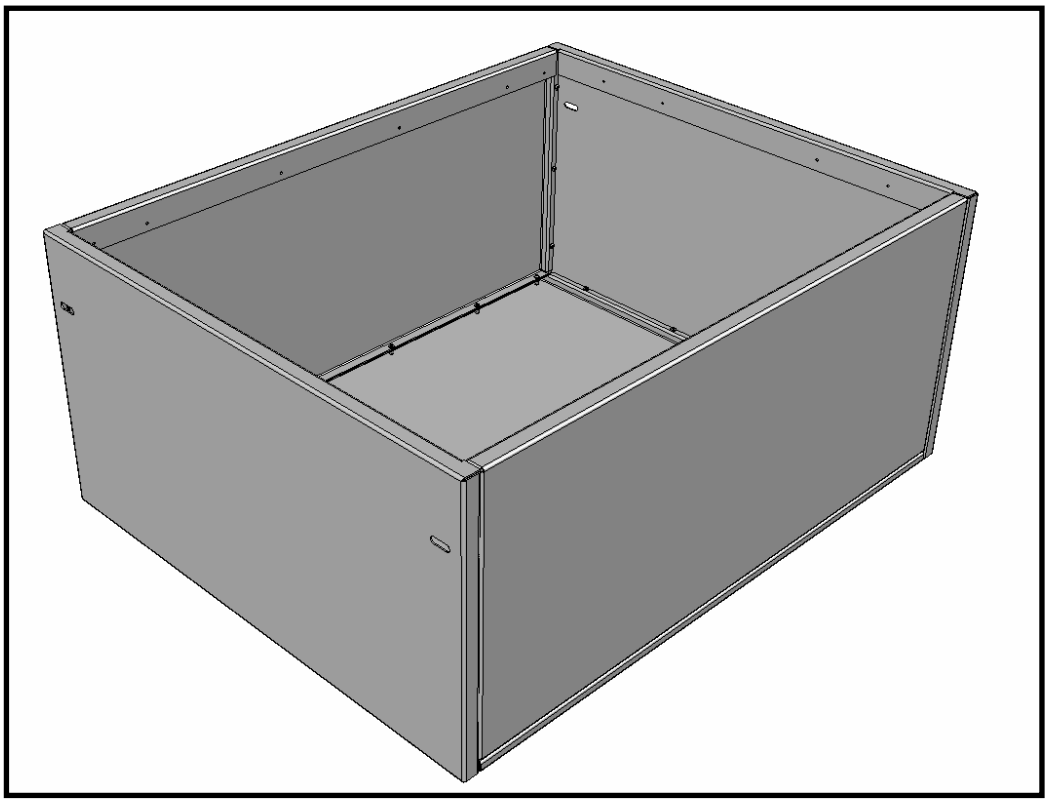


Figure 22 – Casing assembly

Step 7 - Install versatile™ 4C Mailbox Casings

a) Place the 4C mailbox casings into the vario EXPRESS™ between the upper and lower horizontal beams. *See Figure 23.*

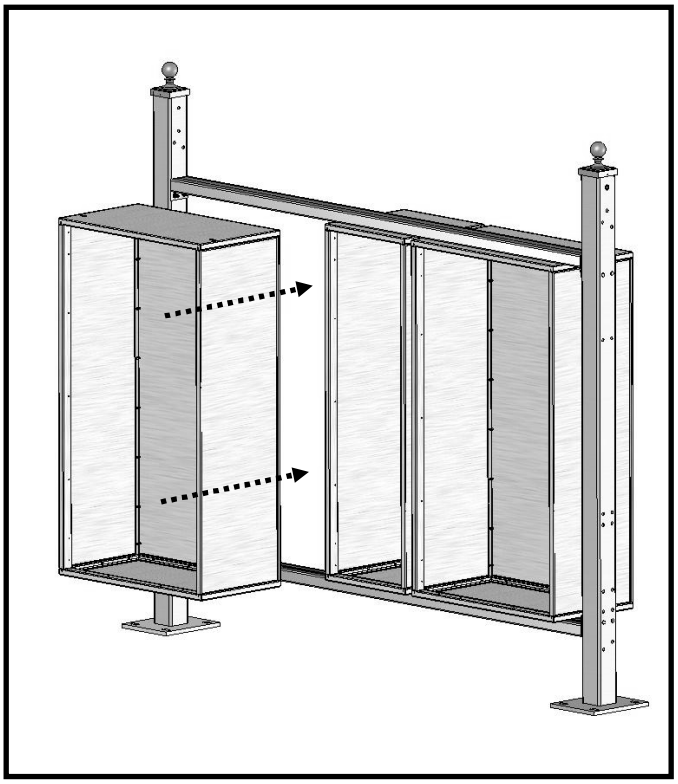


Figure 23 – Installing mailbox casing in vario EXPRESS™

b) Slide one 48187 square nut so it lines up with the hole in the top panel of the 4C casing on each side of the top panel.
c) Repeat for the bottom panel.

Note: Use of a long skinny tool - such as a screwdriver or piece of wire may be necessary to help place the square nut directly in sight of the casing holes.

Figure 24 – Sliding nuts in horizontal beam

d) Secure bottom of casing to lower horizontal beam using (2) 48197 bolts and (2) 48175 washers. Thread 48197 bolt into 48187 square nut. *See Figures 25 and 26.*

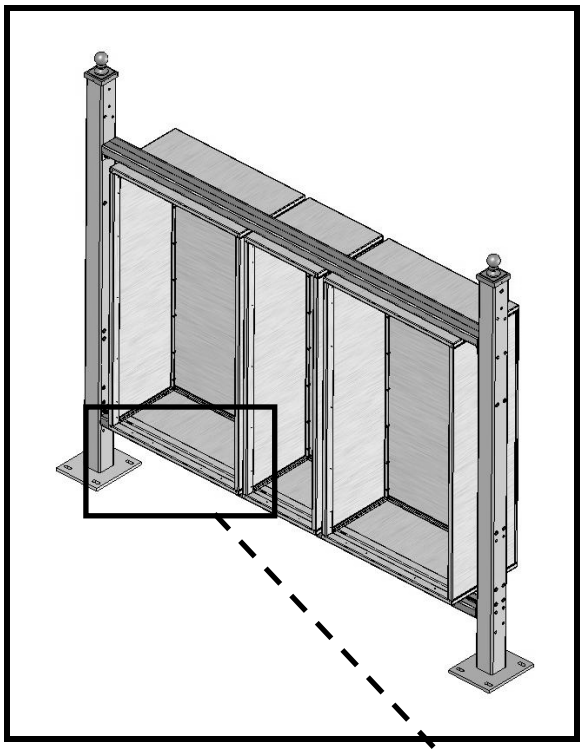


Figure 25 – Install mailbox casing

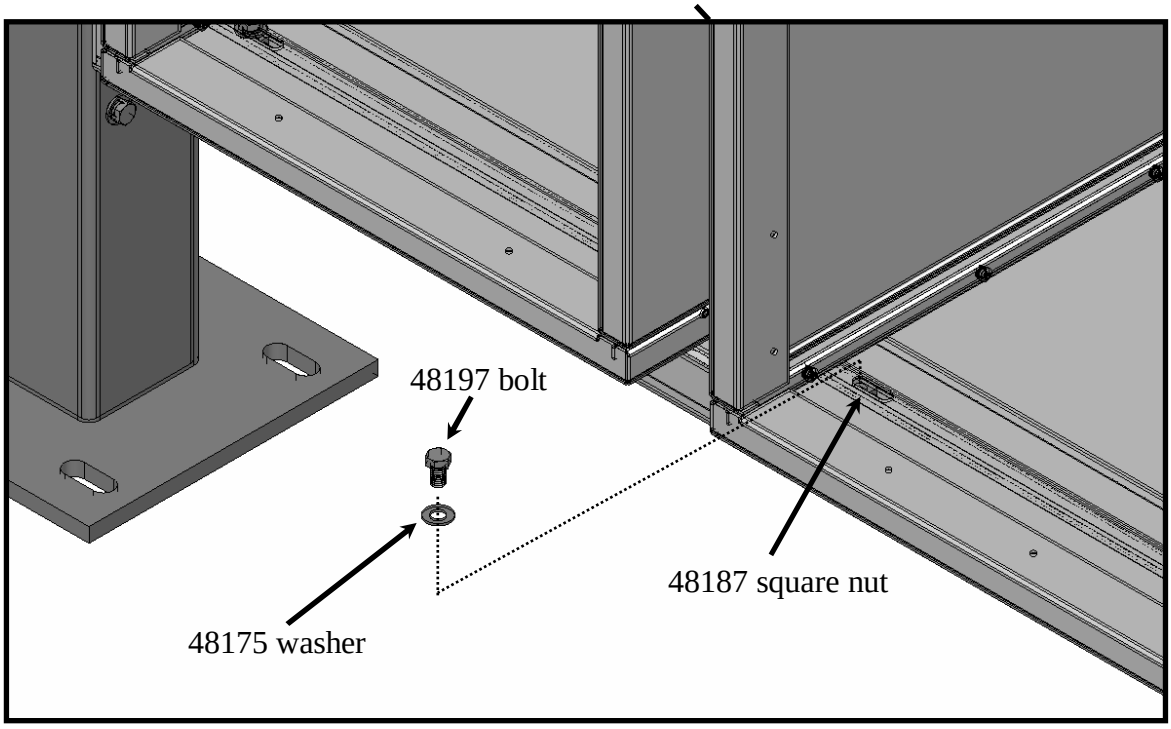


Figure 26 – Install mailbox casing

e) Secure top of casing in the same manner to upper horizontal beam using (2) 48197 bolts and (2) 48175 washers.

Note: Casings may be placed directly next to each other or with equal spacing distance between them. Final installation placement is up to the individual installer. *See Figures 27 and 28.*

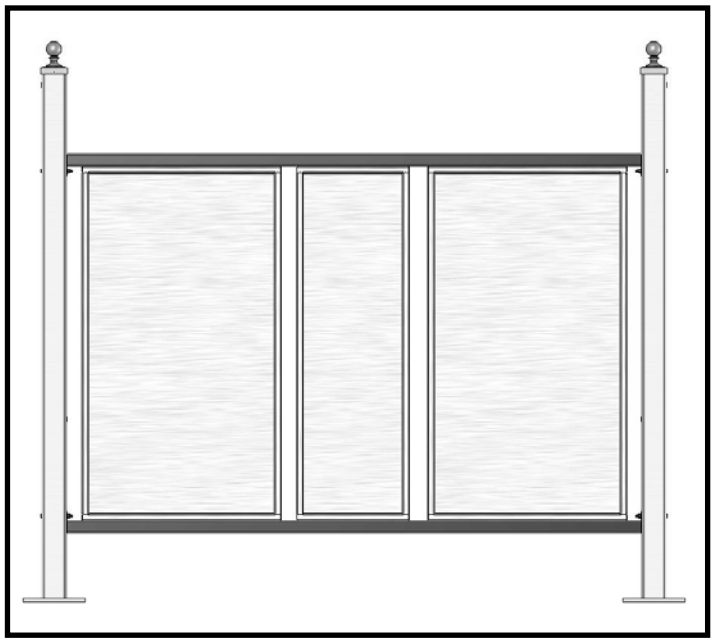


Figure 27 – Casing adjustment – shown with gap between casings

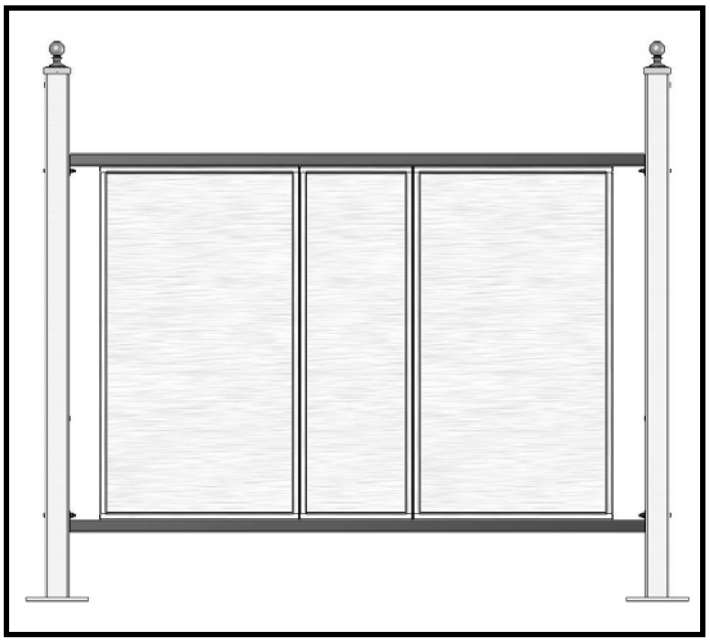


Figure 28 – Casing adjustment – shown with no gap between casings

f) Adjust casing position to user preference. *See Figures 27 and 28.*
g) Tighten casing bolts.
h) Tighten upper horizontal mounting beam hardware.

Note: If you do not have the optional side panels, your vario EXPRESS™ mail station is now fully assembled and ready for your Florence versatile™ 4C mailbox suites; proceed to page 29. Otherwise, to complete installation with optional side panels, proceed to page 26.

Step 8 - Install Optional Side Panels

a) Install each optional side panel using (4) 48178 bolts and (4) 48175 washers per panel. *See Figures 29 through 31.*

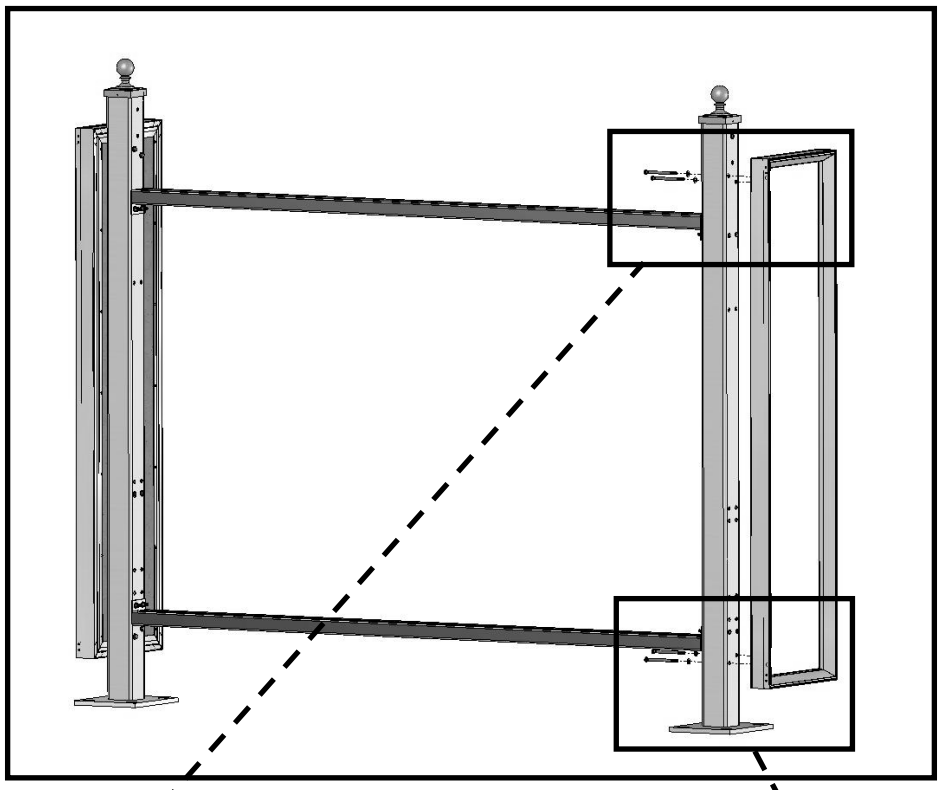


Figure 29 – Optional side panel installation
(mailbox casings not show for clarity)

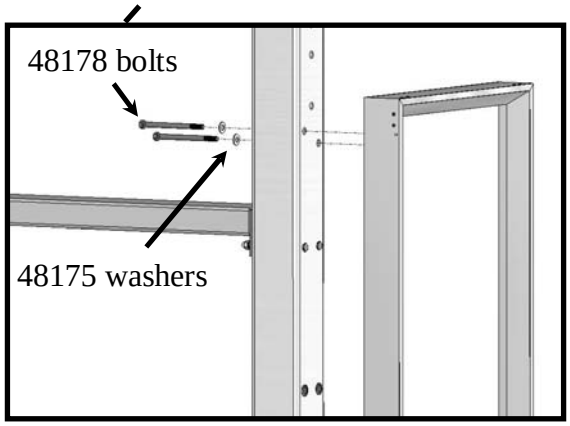


Figure 30 – Optional side panel installation

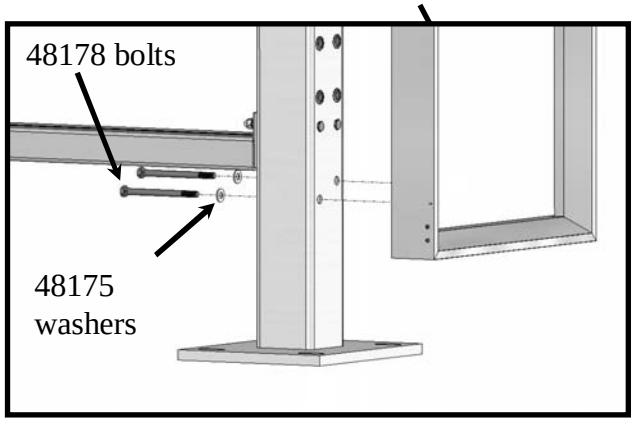


Figure 31 – Optional side panel installation

b) Attach side panel so that there is more surface protruding towards the back of the vario EXPRESS™ (side opposite the front face of the mailboxes). The side panel is designed to cover the mailbox casings for a more complete, finished look. *See Figure 32.*

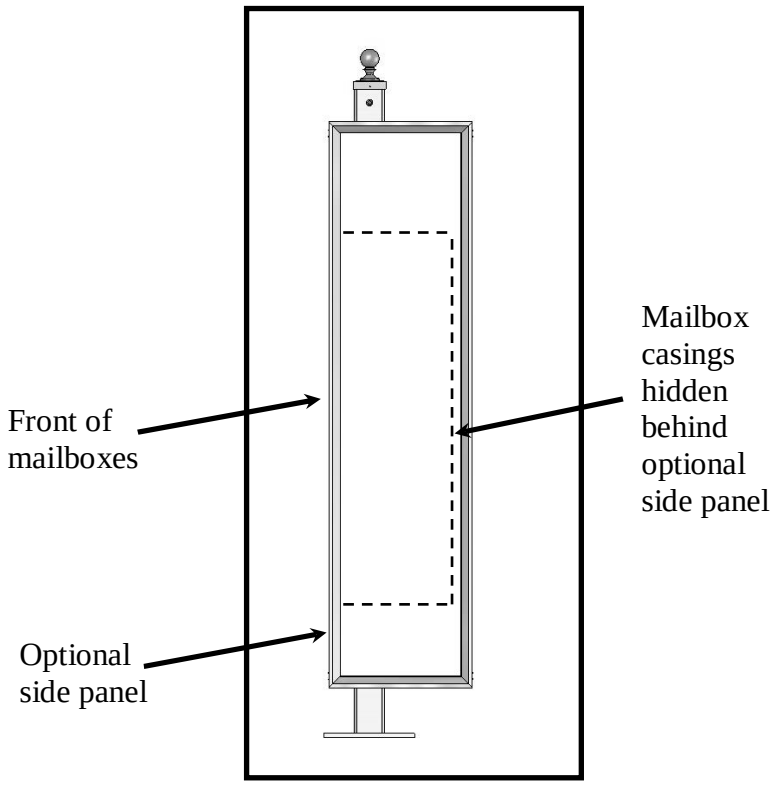


Figure 32 – Optional side panel installation

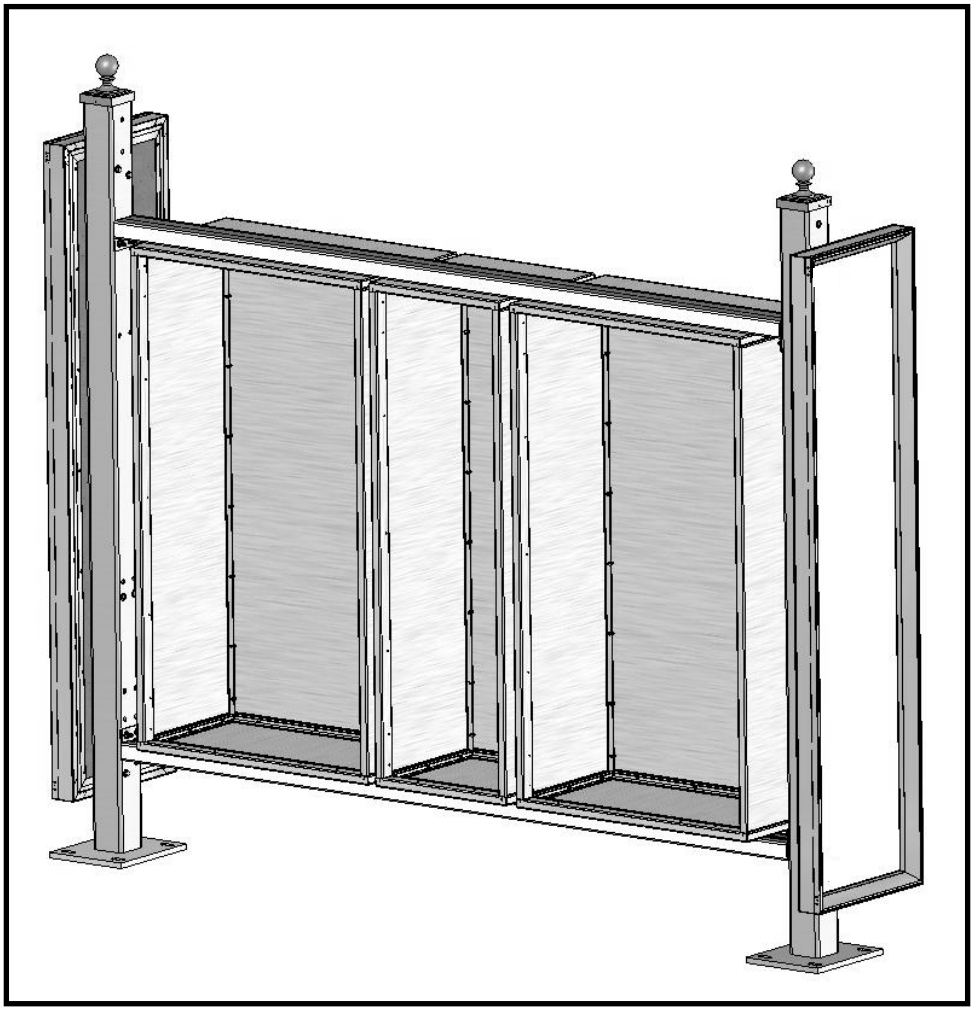


Figure 33 – vario EXPRESS™ shown with Florence versatile™ 4C Suite F mailbox casings installed for illustration

Note: Refer to page 14 for individual versatile™ 4C mailbox suite mounting placement.

Your vario EXPRESS™ mail station kit is now fully assembled and ready for your Florence versatile™ 4C mailbox suites.

Step 9 - Install versatile™ 4C Mailboxes

The following steps are to install your Florence versatile™ 4C mailboxes directly into the vario EXPRESS™ mail station. For more product detail, please refer to the installation instructions included with your Florence versatile™ 4C mailboxes.

a) First, place the bottom of the 4C mailbox into the casing as shown in *Figure 34.*

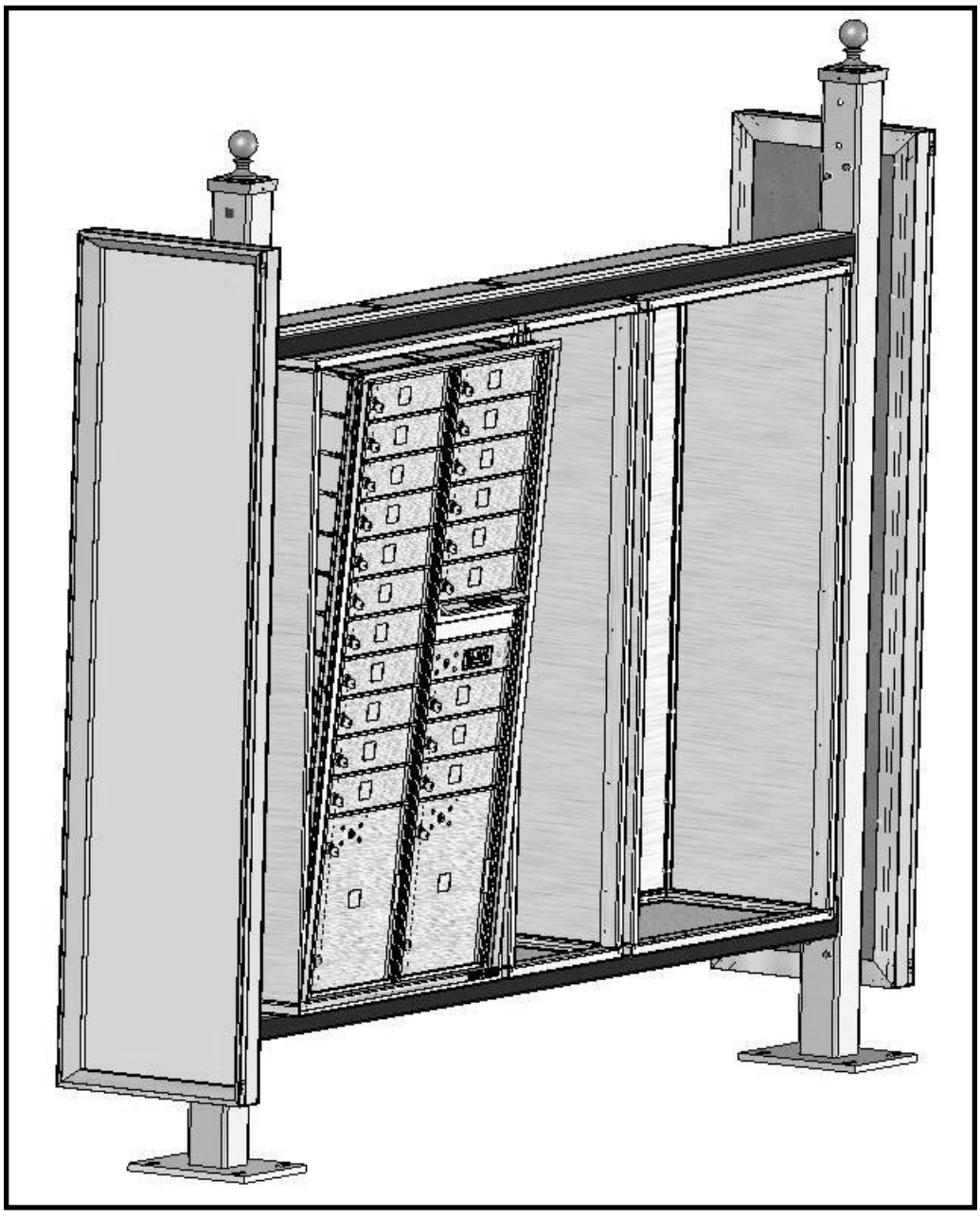


Figure 34 – 4C installation

b) Tilt the top of the 4C mailbox completely into the casing. Make sure the mailbox trim is flush against the front of the casing. *See Figure 35.*

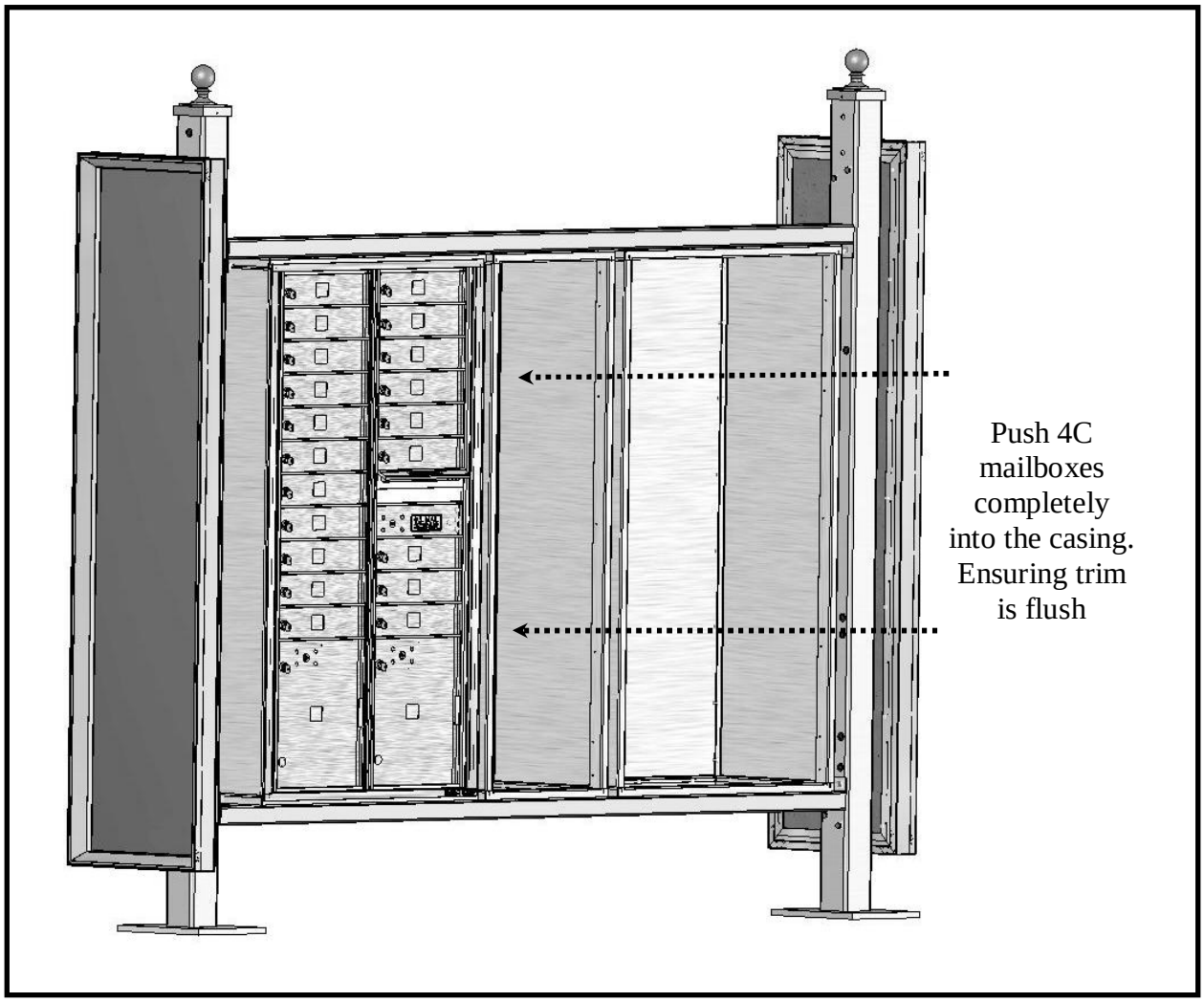


Figure 35 – 4C installation

c) Open the master doors of the 4C mailbox so the hold-open arms secure the doors in the open position. *See Figure 36.*

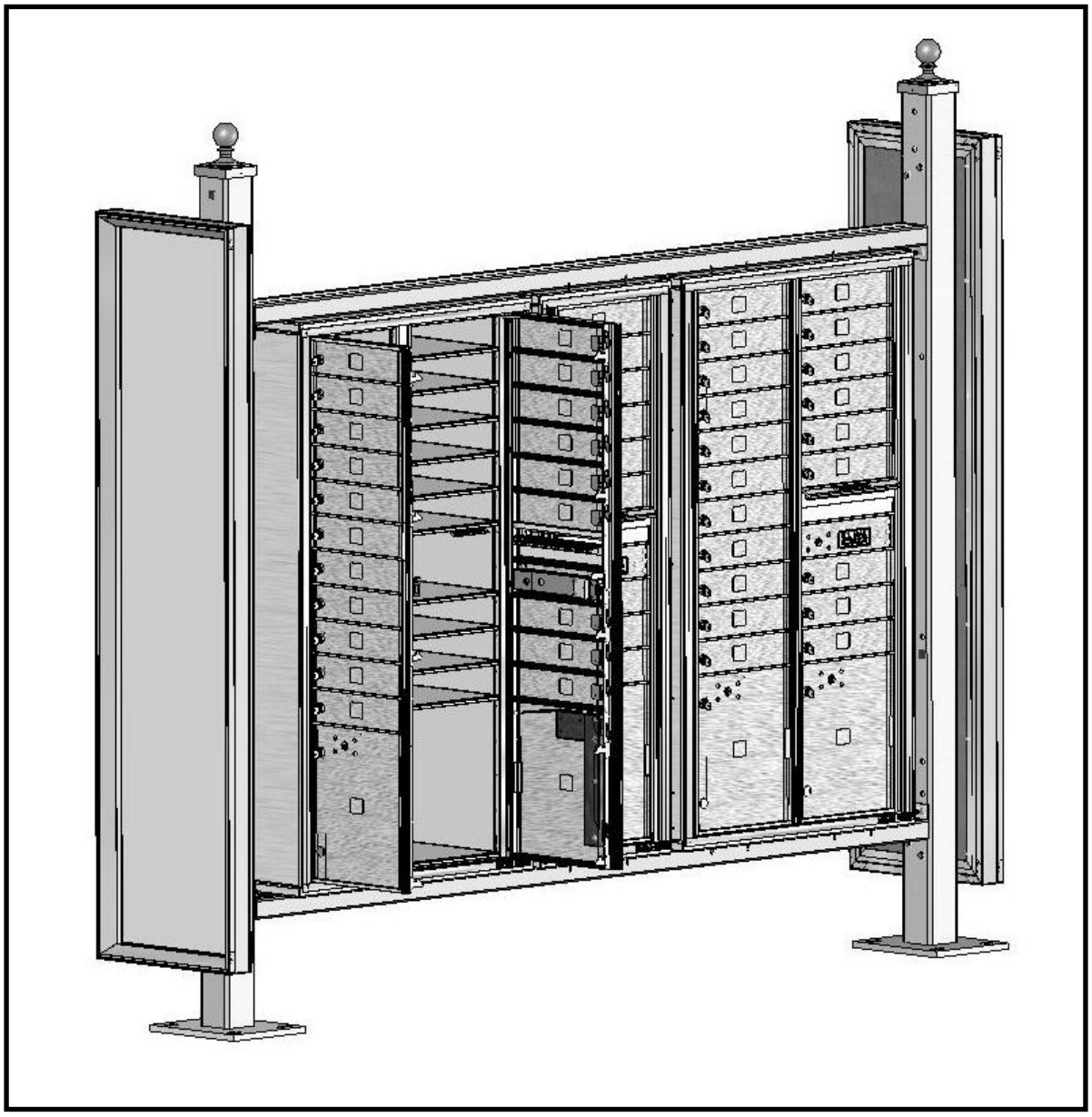


Figure 36 – 4C Master Load Doors Open

d) Using the screws provided with the 4C mailbox, secure the 4C module into the mailbox casing. *See Figure 37.*

e) Close the master load doors.

f) Repeat steps (a) through (e) for all remaining 4C mailboxes modules.

Figure 37 – 4C mailbox module installation

Congratulations! Your vario EXPRESS™ mail station is now ready for arrowlock installation and tenant delivery.

Section 2: vario EXPRESS™ optional sentinel™ Solar Lite Kit Assembly.

Step 10 - Assemble Solar Light Housing

a) Set the housing on a soft surface with the solar panel facing up, taking care not to damage the motion sensor.

b) Remove 27335 1/4” x 1” screw using the 5/32 hex-bit.

c) Remove the solar panel from the housing, being careful not to put any strain on the wires that run from the solar panel to the controller.

d) Place the battery in the battery holder and connect the battery leads (red-to-red & black-to-black). If the battery is properly connected the red LED light on the motion sensor or the red low voltage LED on the controller should come on at this time (the motion controller LED may be solid or may go on-and-off when it detects motion). If you are assembling the lighting system outdoors during daylight the green “charging” LED on the controller should indicate that the battery is being charged.

e) Reinstall the solar panel and secure with the 27335 1/4" x 1” screw using the 5/32 hex-bit. Do not over tighten or damage to housing and solar panel may occur. *See Figure 38.*

f) Set the housing assembly unit aside while your vario EXPRESS™ is being assembled.

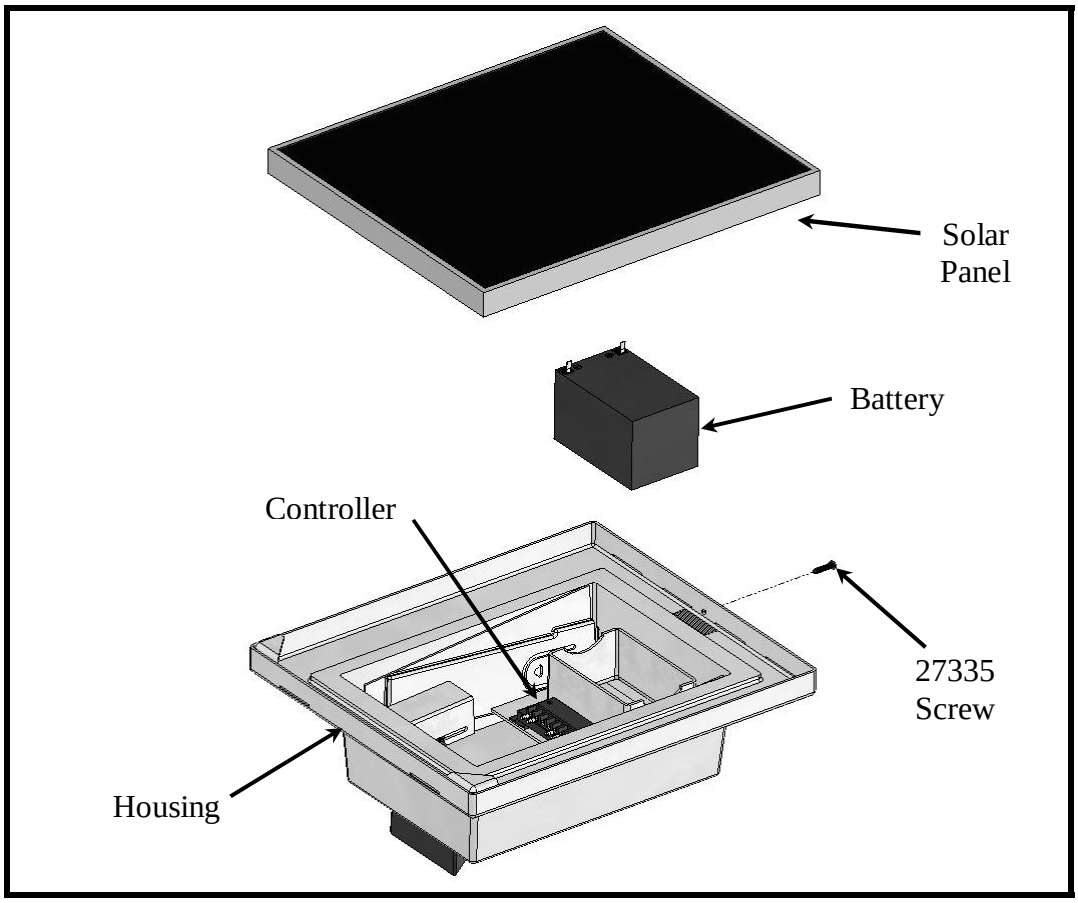


Figure 38 – Optional sentinel™ solar lite Housing

Step 11 - Assemble Vertical Uprights and sentinel™ Solar Lite supports

a) Assemble coupler. *See Figure 39.*

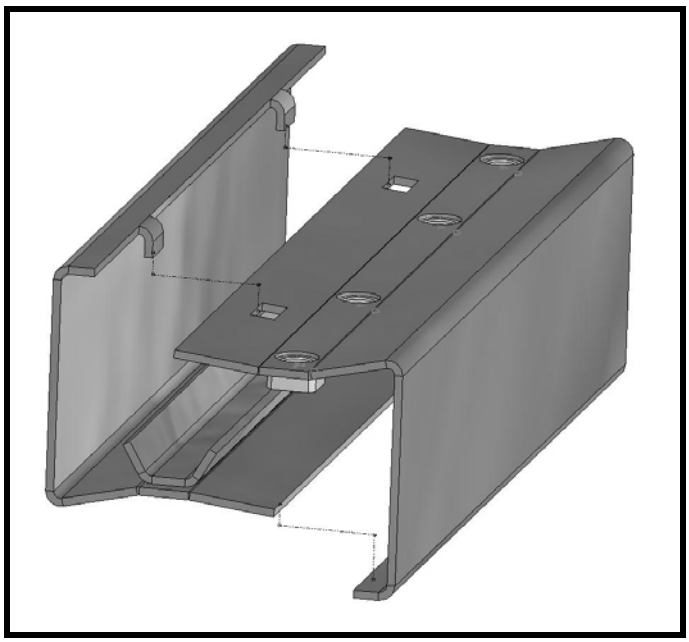


Figure 39 – Coupler

b) Lay vertical upright on ground taking care not to scratch finish. Insert coupler in upper end of vertical upright, using (2) 48377 bolts to hold in place but do not tighten. *See Figure 40.*

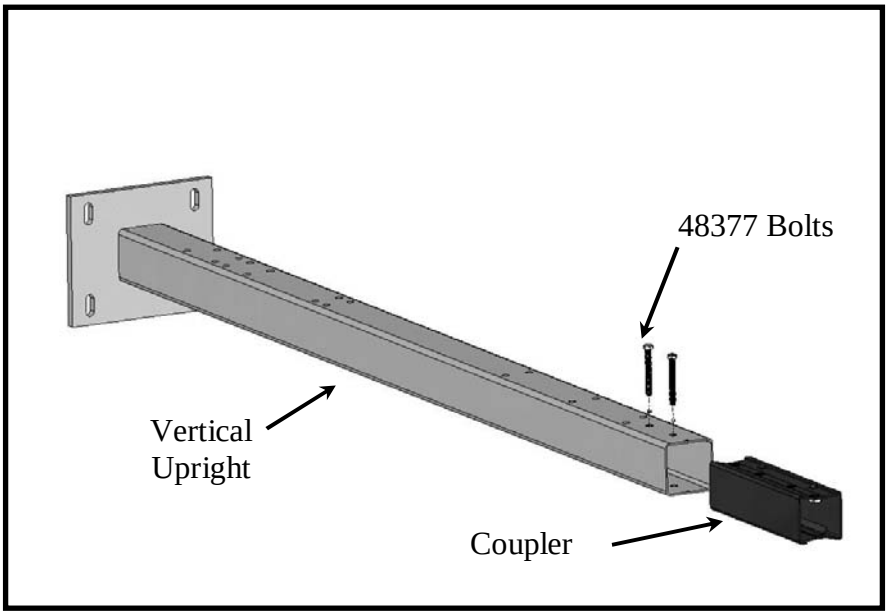


Figure 40 – Install Coupler into Vertical Upright

c) Slide the upper pole onto the coupler/vertical upright, insert (2) 48377 bolts.
d) Tighten all (4) of the 48377 bolts evenly. *See Figure 41.*

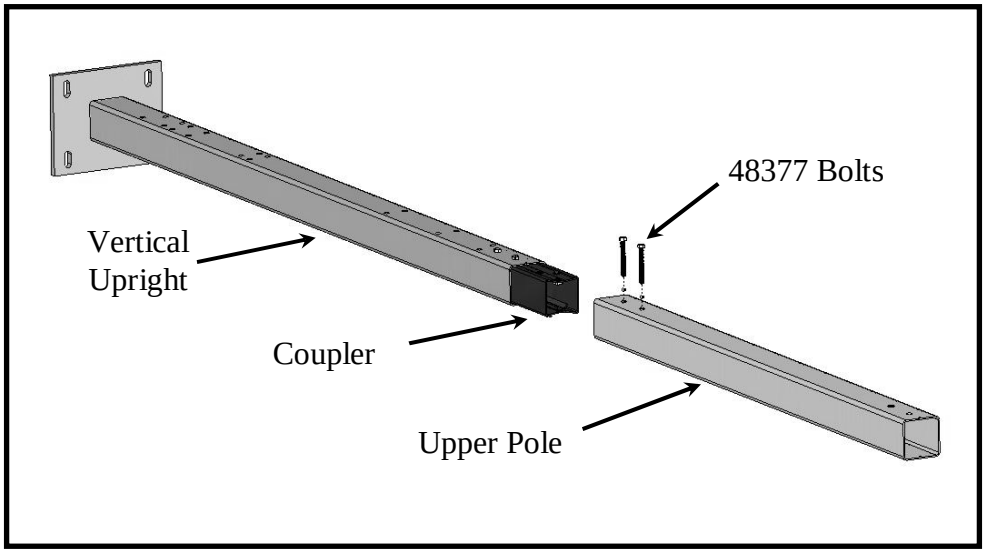


Figure 41 – Attach Upper Pole to Vertical Upright

e) Attach the riser to the upper pole using (2) 48176 bolts, (3) 48175 washers, and (1) 48177 lock nut on upper bolt. *See Figure 42.*

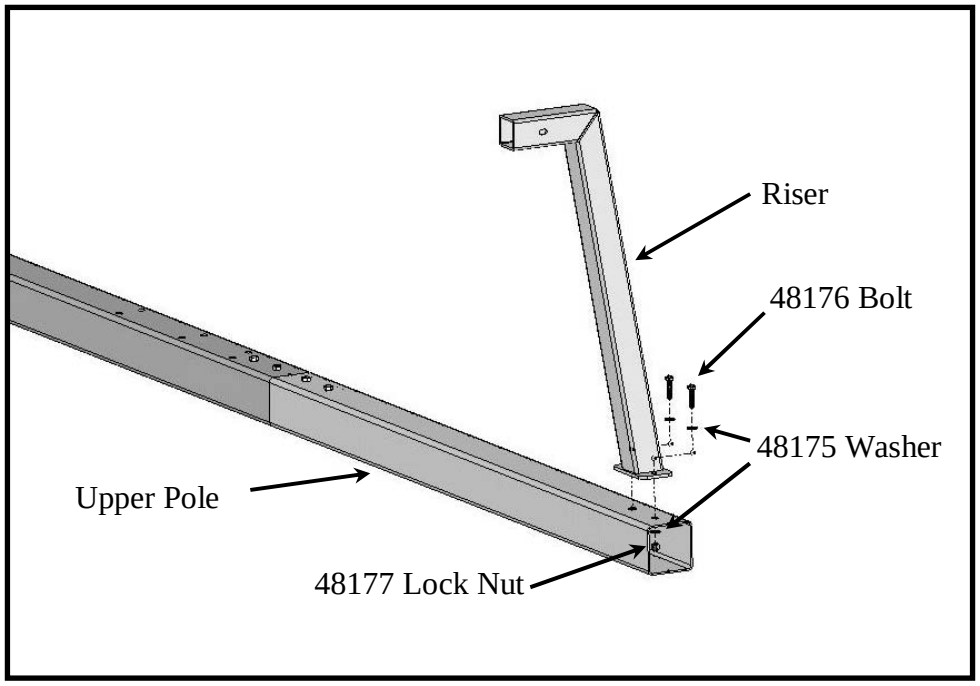


Figure 42 – Attach Riser to Upper Pole

f) Insert fork into the riser making sure that it will slope "upward" when the pole is standing. Fasten the fork in place with the 48175 washer and 48176 bolt. *See Figure 43.*

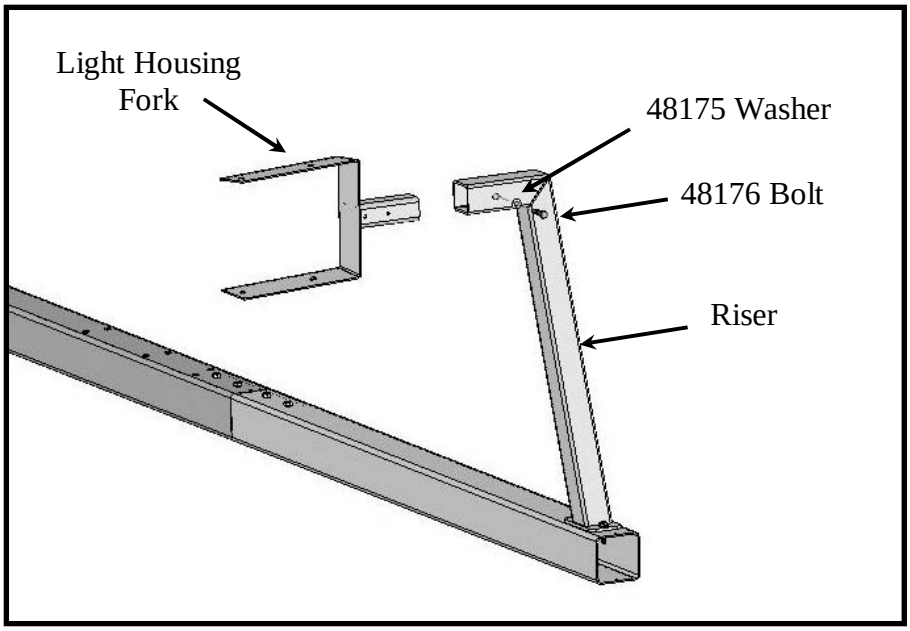


Figure 43 – Attach Fork to Riser

g) Place the finial on top of the pole aligning the holes and fasten in place with (2) 64436 one way screws. *See Figure 44.*

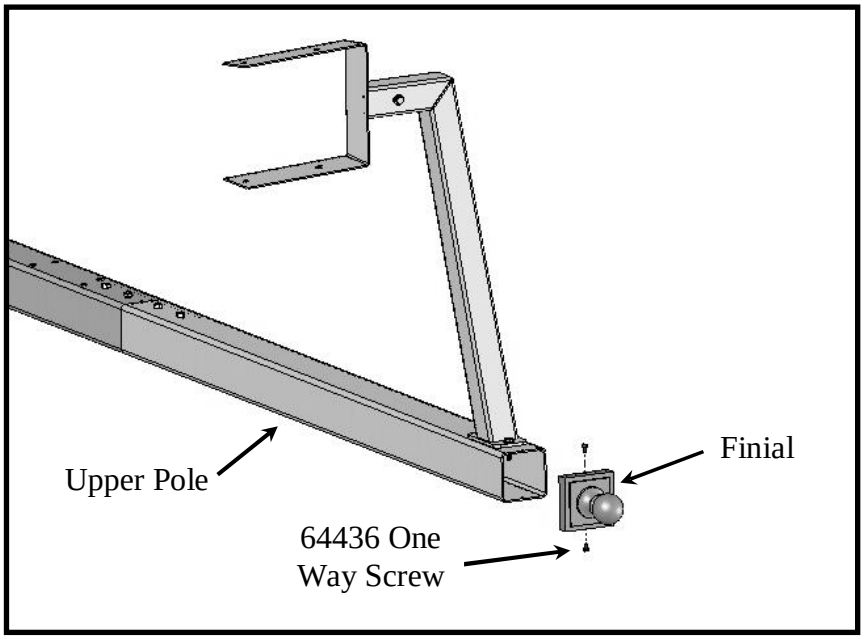


Figure 44 – Install Finial

Be careful not to strip the threads of the screws.

Step 12 - Attach Light Housing Assembly

a) Retrieve the housing assembly and carefully position it (with solar panel facing up) so that the fork slides into the slots at the back of the housing. When the housing slides all the way down, there should be two "POPPING" or "CLICKING" sounds indicating that the housing is properly seated on the mounting fork. *See Figure 45.*

b) ***Caution*: Do not let the housing turn upside down; the battery may hit and damage the solar panel and/or damage the wiring**.

WARNING: Light housing must be completely and properly attached to the light housing fork. Failure to do so may result in the housing falling from the fork, potentially causing death or serious injury.

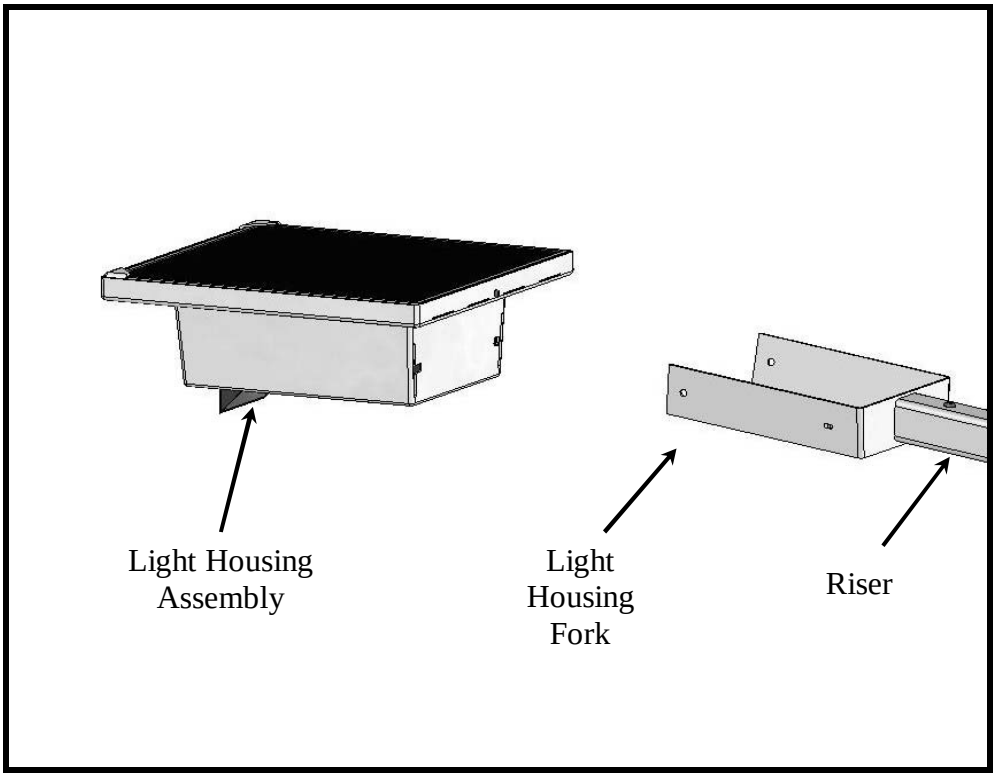


Figure 45 – sentinel™ solar lite housing installation

Appendix A - Hardware Finishing Option

- Acorn nuts are included in your vario EXPRESS™ kit as an optional finishing accessory. These can be installed over any exposed bolt threads as desired. *See Figures A1 and A2 for examples*.

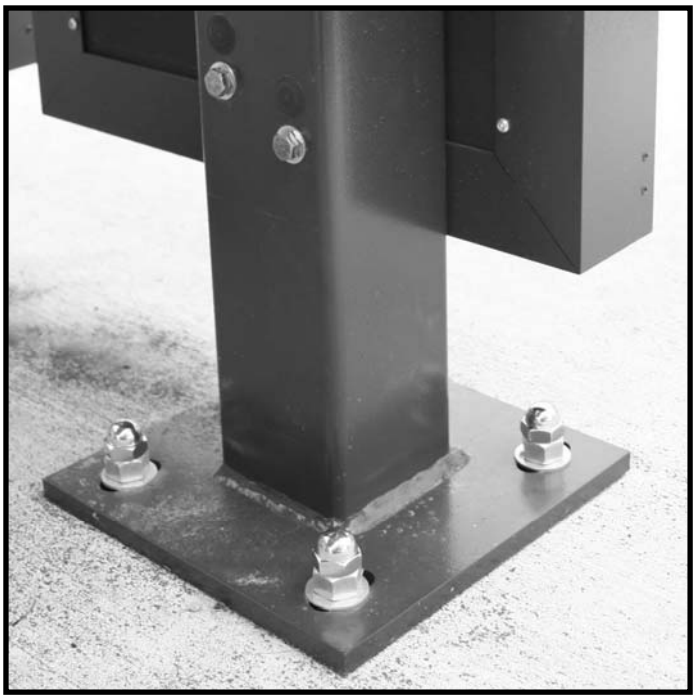


Figure A1

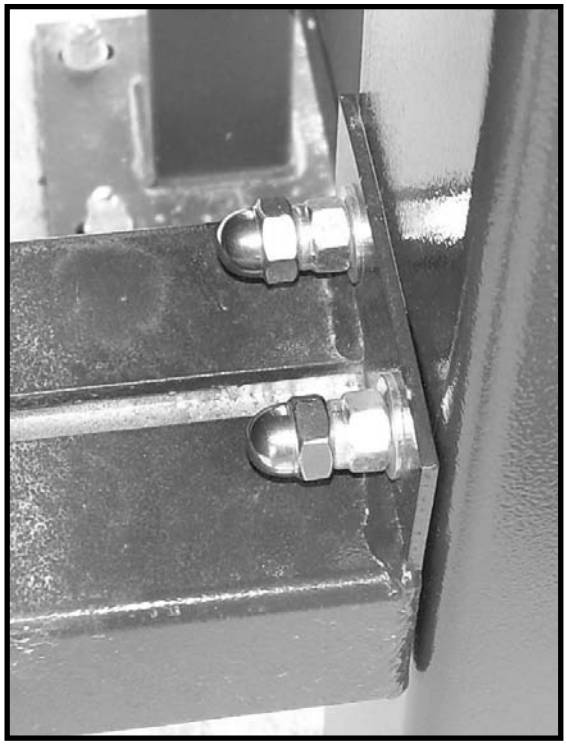


Figure A2

Appendix B - Station Leveling Guide

In a perfect world, there would be no need to provide this guide. However, we know that construction professionals have to deal with all types of site issues, so we offer the following suggestions on how to correct for foundations that may not be perfectly level.

In the event the concrete pad the vario EXPRESS™ is to be installed on is not level, the vertical uprights may be adjusted.

Figures B1 through B5 provide a suggested leveling technique.

The hardware depicted in this illustration is provided with your vario EXPRESS™ station kit for your convenience.

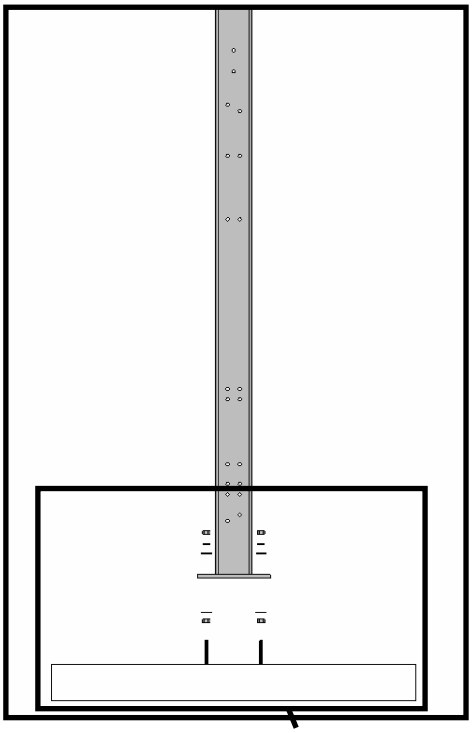


Figure B1

1) Install the hex nuts on the Hilti™ anchors as shown in Figure B2.

2) Place the flat washers on the nuts.

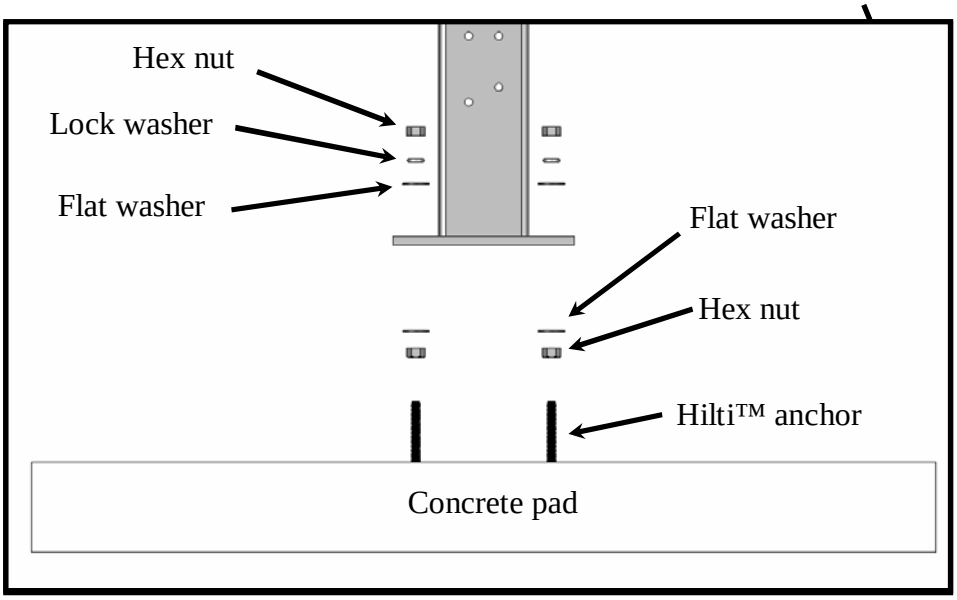


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Figure B2

Figure B3 shows the hex nuts and flat washers installed on the Hilti™ anchors.

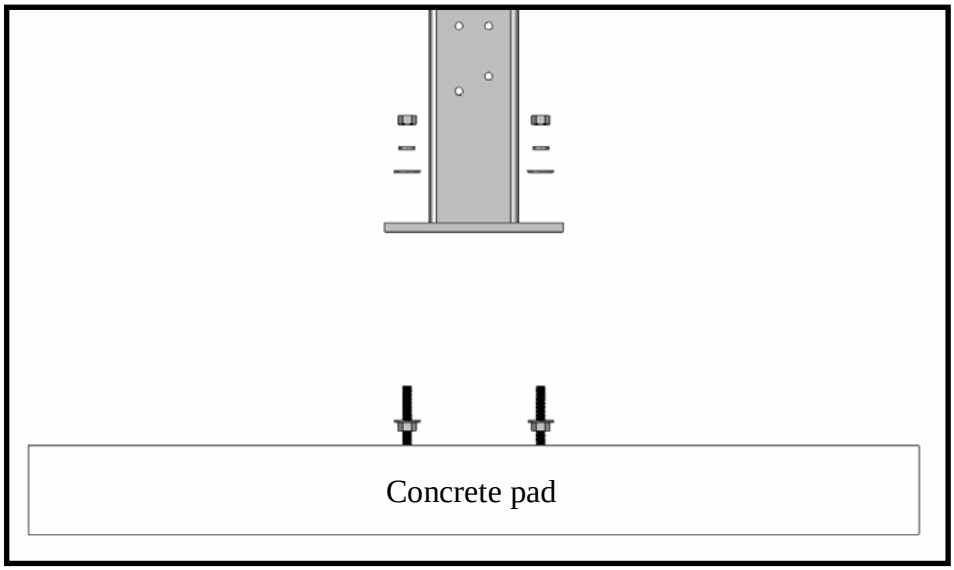


Figure B3

3) Install the vertical upright onto the Hilti™ anchors and the flat washers.

4) Adjust hex nuts up or down to achieve the desired level height. See Figure B4.

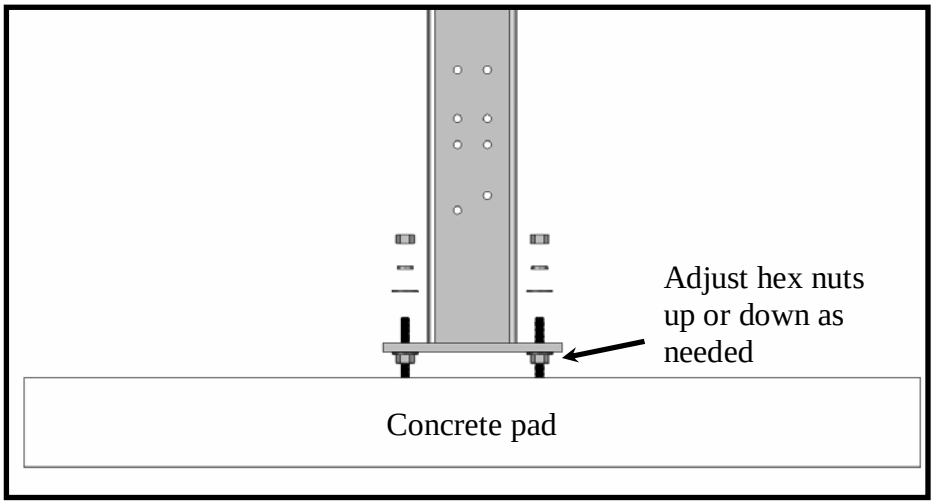


Figure B4

5) Secure the vertical upright in place by installing the flat washers, lock washers, and hex nuts.

6) To finish, grout should be installed to fill the void underneath the vertical upright. See Figure B5.

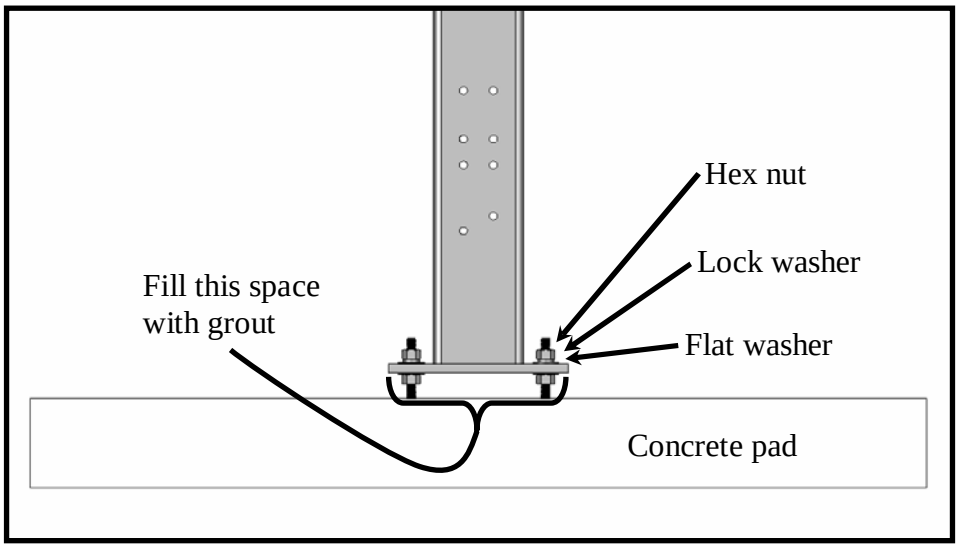


Figure B5

Appendix C - Motion Sensor Settings

The motion sensor has three performance adjustments. *See Figure C1*.

a) Sensitivity – this adjusts how much movement is required to activate the sensor, and subsequently the solar lights.
b) Photocell – this adjusts the amount of darkness required for the motion sensor to operate. To run the lights only after sundown, turn the dial clockwise.
c) Time – this adjusts for how much time the LED lights will be on after they are activated. The range is from 5 seconds to 12 minutes.

Figure C1

Note: The motion sensor settings will be pre-set by the factory on your solar light. The settings are shown above in figure C1.

Appendix D - Frequently Asked Questions / sentinel™ solar lite

Q – Can I set the solar light to run from dusk to dawn?
A – No. The light is designed for intermittent use throughout the night. The battery and solar panel would need to be significantly larger to operate dusk to dawn lighting application.

Q – How long will a battery typically last?
A – The battery should last an average of 2 – 3 years. However, in colder climates the battery may not last as long, and conversely, in warmer climates the battery may last longer.

Q – Will the light work if I place it in the shade?
A – The light is solar; it must be exposed to direct sunlight in order to completely charge the battery. Having shade over the light will reduce the effectiveness of the solar panel and could cause the light to stop functioning.

Q – How many hours of sunlight do I need each day so that the light will operate?
A – You need at least four "solar hours" per day for your light to operate with a 100% safety factor. See the "Table D1: Solar Hours Per Day By Location" chart on the next page to determine the solar hours for your location. If you are in a location that has *less* than four solar hours, your system will have *less* reserve power than an area with *more* than four solar hours.

Q – How long will the light operate without a recharge?
A – It depends on your location. In sunny areas, such as southern California or Arizona, the battery will last several days without a recharge. In areas such as the state of Washington or Michigan, there are less "solar hours" per day, therefore less charging time per day, and the battery will not last as long. Refer to the "Solar Hours Per Day By Location" chart on the next page to determine the solar hours for your location. The more solar hours indicated for your location, the longer your solar light will operate without a recharge.

Q – Where can I get a replacement battery?
A – The battery is a *12 Amp-Hour sealed-lead-acid battery*. Replacement batteries may be purchased from a authorized Florence dealer, or from a local store or other supplier that carries this type of battery. If you purchase a battery locally, be sure that the battery is sized properly to fit into the battery holder in the solar head unit.

Q – Where can I get other replacement parts?
A – Contact your authorized Florence dealer for replacement parts for the solar light or for any Florence products or parts.

Q – Will the light work immediately after I take it out of the box?
A – The battery will need to charge before the light will work. It may take several hours of direct sunlight before the battery is fully charged.

Table D1: Solar Hours Per Day By Location

State	City	High	Low	Avg	State	City	High	Low	Avg
AK	Fairbanks	5.87	2.12	3.99	MO	Columbia	5.50	3.97	4.73
AK	Matanuska	5.24	1.74	3.55	MO	St. Louis	4.87	3.24	4.38
AL	Montgomery	4.69	3.37	4.23	MS	Meridian	4.86	3.64	4.43
AR	Bethel	6.29	2.37	3.81	MT	Glasgow	5.97	4.09	5.15
AR	Little Rock	5.29	3.88	4.69	MT	Great Falls	5.70	3.66	4.93
AZ	Tucson	7.42	6.01	6.57	MT	Summit	5.17	2.36	3.99
AZ	Page	7.30	5.65	6.36	NM	Albuquerque	7.16	6.21	6.77
AZ	Phoenix	7.13	5.78	6.58	NE	Lincoln	5.40	4.38	4.79
CA	Santa Maria	6.52	5.42	5.94	NE	N. Omaha	5.28	4.26	4.90
CA	Riverside	6.35	5.35	5.87	NC	Cape Hatteras	5.81	4.69	5.31
CA	Davis	6.09	3.31	5.10	NC	Greensboro	5.05	4.00	4.71
CA	Fresno	6.19	3.42	5.38	ND	Bismarck	5.48	3.97	5.01
CA	Los Angeles	6.14	5.03	5.62	NJ	Sea Brook	4.76	3.20	4.21
CA	Soda Springs	6.47	4.40	5.60	NV	Las Vegas	7.13	5.84	6.41
CA	La Jolla	5.24	4.29	4.77	NV	Ely	6.48	5.49	5.98
CA	Inyokern	8.70	6.87	7.66	NY	Binghamton	3.93	1.62	3.16
CO	Granby	7.47	5.15	5.69	NY	Ithaca	4.57	2.29	3.79
CO	Grand Lake	5.86	3.56	5.08	NY	Schenectady	3.92	2.53	3.55
CO	Grand Junction	6.34	5.23	5.85	NY	Rochester	4.22	1.58	3.31
CO	Boulder	5.72	4.44	4.87	NY	New York City	4.97	3.03	4.08
DC	Washington	4.69	3.37	4.23	OH	Columbus	5.26	2.66	4.15
FL	Apalachicola	5.98	4.92	5.49	OH	Cleveland	4.79	2.69	3.94
FL	Belie Is.	5.31	4.58	4.99	OK	Stillwater	5.52	4.22	4.99
FL	Miami	6.26	5.05	5.62	OK	Oklahoma City	6.26	4.98	5.59
FL	Gainesville	5.81	4.71	5.27	OR	Astoria	4.76	1.99	3.72
FL	Tampa	6.16	5.26	5.67	OR	Corvallis	5.71	1.90	4.03
GA	Atlanta	5.16	4.09	4.74	OR	Medford	5.84	2.02	4.51
GA	Griffin	5.41	4.26	4.99	PA	Pittsburg	4.19	1.45	3.28
HI	Honolulu	6.71	5.59	6.02	PA	State College	4.44	2.79	3.91
IA	Ames	4.80	3.73	4.40	RI	Newport	4.69	3.58	4.23
ID	Boise	5.83	3.33	4.92	SC	Charleston	5.72	4.23	5.06
ID	Twin Falls	5.42	3.42	4.70	SD	Rapid City	5.91	4.56	5.23
IL	Chicago	4.08	1.47	3.14	TN	Nashville	5.20	3.14	4.45
IN	Indianapolis	5.02	2.55	4.21	TN	Oak Ridge	5.06	3.22	4.37
KS	Manhattan	5.08	3.62	4.57	TX	San Antonio	5.88	4.65	5.30
KS	Dodge City	4.14	5.28	5.79	TX	Brownsville	5.49	4.42	4.92
KY	Lexington	5.97	3.60	4.94	TX	El Paso	7.42	5.87	6.72
LA	Lake Charles	5.73	4.29	4.93	TX	Midland	6.33	5.23	5.83
LA	New Orleans	5.71	3.63	4.92	TX	Fort Worth	6.00	4.80	5.43
LA	Shreveport	4.99	3.87	4.63	UT	Salt Lake City	6.09	3.78	5.26
MA	E. Wareham	4.48	3.06	3.99	UT	Flaming Gorge	6.63	5.48	5.83
MA	Boston	4.27	2.99	3.84	VA	Richmond	4.50	3.37	4.13
MA	Blue Hill	4.38	3.33	4.05	WA	Seattle	4.83	1.60	3.57
MA	Natick	4.62	3.09	4.10	WA	Richland	6.13	2.01	4.44
MA	Lynn	4.60	2.33	3.79	WA	Pullman	6.07	2.90	4.73
MD	Silver Hill	4.71	3.84	4.47	WA	Spokane	5.53	1.16	4.48
ME	Caribou	5.62	2.57	4.19	WA	Prosser	6.21	3.06	5.03
ME	Portland	5.23	3.56	4.51	WI	Madison	4.85	3.28	4.29
MI	Sault Ste. Marie	4.83	2.33	4.20	WV	Charleston	4.12	2.47	3.65
MI	E. Lansing	4.71	2.70	4.00	WY	Lander	6.81	5.50	6.06
MN	St. Cloud	5.43	3.53	4.53					

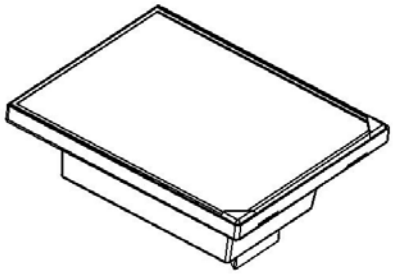
Appendix E - Troubleshooting Guide

Symptom	Possible Causes	Corrective Action
Light does not work	A wire is disconnected or loose	Remove solar panel and inspect inside of unit for disconnected wire. Reattach or tighten wire that has come loose.
	Battery is dead	Make sure solar panel is exposed to sunlight so it charges. Shade from trees will not allow the solar panel to charge the battery adequately. Trees may need to be trimmed or the light may need to be moved to operate correctly. If the light is properly exposed to sunlight but still does not does not work, the battery may need to be replaced. Battery life is typically 2 - 3 years, depending on climate and usage. In colder climates the battery may expire sooner.
	Battery is not being charged	Make sure solar panel is exposed to sunlight so it charges. Shade from trees will not allow the solar panel to charge the battery adequately. Be careful to place light where it will receive direct sunlight.
	Solar panel is damaged	Replace solar panel. See “Appendix F - Service Parts" section of this manual.
	Solar panel is dirty	Clean dirt/debris from solar panel using a soft cloth and warm water.
	Charge controller is not working	Remove solar panel and inspect inside of unit to determine if charge controller is not working. If the charge controller is working, the green LED should illuminate when the solar panel is exposed to sunlight.
Light goes on during the day	Wrong sensor settings	Remove solar panel and locate sensor dials. Adjust the "*PHOTOCELL*" dial more towards the "night" setting (clockwise). See “Appendix C - Motion Sensor Settings" section of this manual.
	Sensor is no longer operational	If the LED on the sensor does not illuminate when motion is present, the sensor may no longer work and require replacement. See “Appendix F - Service Parts" section of this manual.

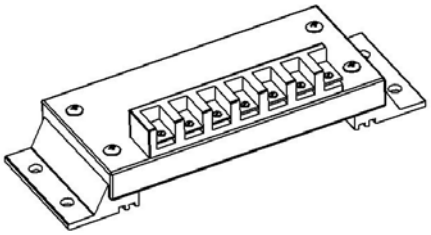
Light does not stay on long enough	Wrong sensor settings	Remove solar panel and locate sensor dials. Adjust the "*TIME*" dial more towards the "12 Min" setting (clockwise). See “Appendix C - Motion Sensor Settings" section of this manual.
Light stays on too long	Wrong sensor settings	Remove solar panel and locate sensor dials. Adjust the "*TIME*" dial more towards the "5 Sec" setting (counter-clockwise). See “Appendix C - Motion Sensor Settings" section of this manual.
Light only works for the first few hours of the night.	Battery is not being charged completely	Make sure solar panel is exposed to sunlight so it charges. Shade from trees will not allow the solar panel to charge the battery adequately. Be careful to place light where it will receive direct sunlight.
Light turns on when no one is present	Wrong sensor settings	Remove solar panel and locate sensor dials. Adjust the "*SENSITIVITY*" dial more towards the "30%" setting (counter-clockwise). See “Appendix C - Motion Sensor Settings" section of this manual.

Appendix F - Service Parts

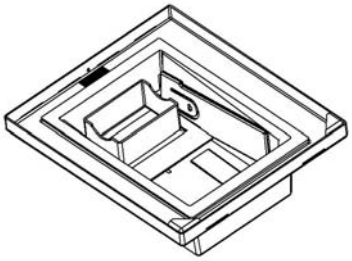
27107 – Solar Light Housing Assembly Includes



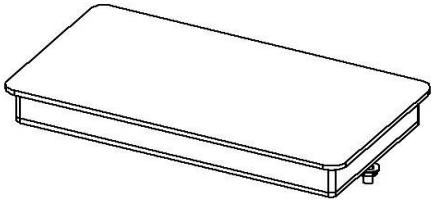
27326 – Solar Controller SS-6L – QTY 1



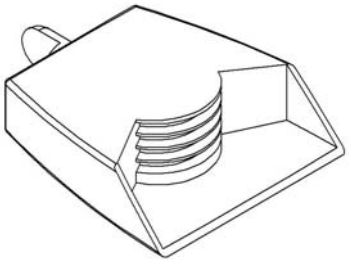
27106 – Solar Light Housing – QTY 1



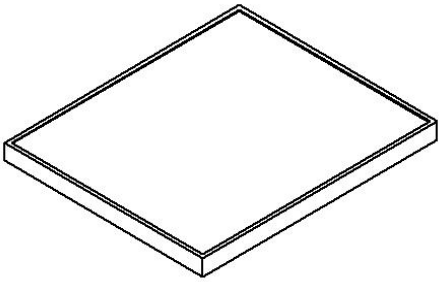
27306 – Brick LED – QTY 1



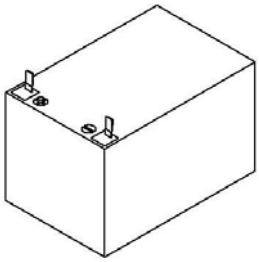
48303-0 – Motion Detector, Lighting Option, Stock Without Connectors – QTY 1



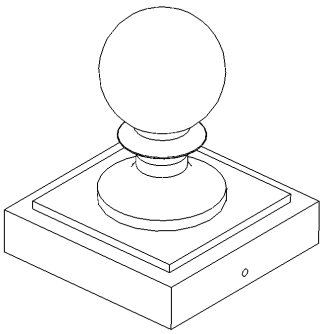
48314 – Solar Panel – QTY 1

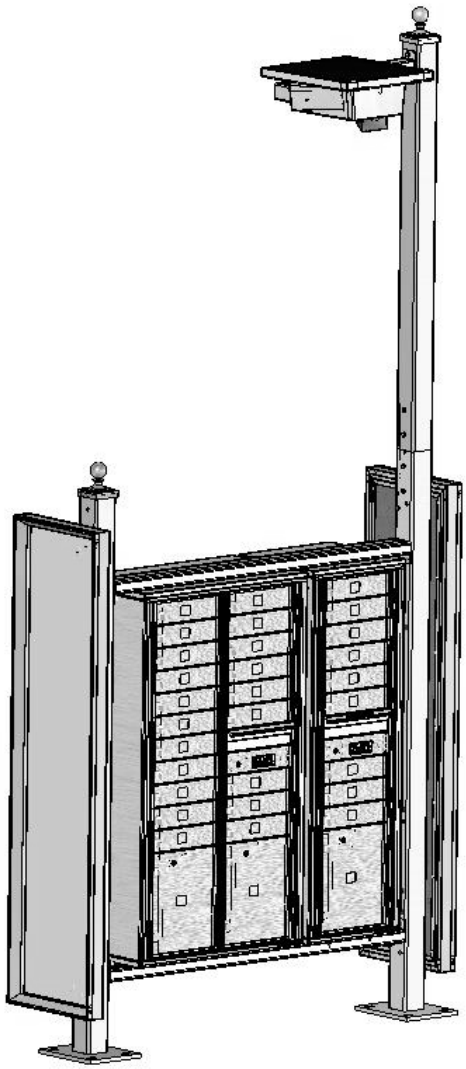


48309 – Battery – Sealed Lead Acid 12V 12AH



48386 - Finial





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