Knoll Office

Antenna Power Beam™

Installation Instructions

Contents

Using the Power Beam Installation Instructions and Parts Manual

An Overview

Each section of the Installation Instructions and Parts Manual contains information to guide you through Power Beam™ installations and to help you determine which parts you may need to order as replacements or to supplement reconfigurations.

Each page contains the following sections:

The Parts List section contains a lettered list of the essential component parts required for the application's installation. Items required that may vary in size, (i.e. worksurfaces or rails), have not been lettered, and replacements should be ordered directly from the Price List or by contacting Field Services for the correct part.

The Tools Needed section contains a list of the installation tools that will be required on site for the proper installation of the application or configuration.

A Graphic section has been included, to the right of the Parts List, depicting images of the component parts with lettered codes that correspond to those in the Parts List. Each part is shown with its associated part number above.

NOTE: Part numbers with an asterisk, i.e. *, after the number require a paint finish code to be added to the end of the pattern number to be orderable as a replacement part. Please refer to the Finish Code listing at the end of this page for the available codes.

NOTE: Part numbers with empty brackets, i.e. (_), after the pattern number indicate that a laminate or veneer finish code must be added to the end of the pattern number to be orderable as a replacement part. Please refer to the Finish Code listing in the Antenna™ Workspaces Price List for the available finish codes for those products. Please note that not all parts are available in all finishes. Finish options available for component parts match those available when ordered with the complete items' pattern number per the Antenna™ Workspaces Price List.

The Steps section details step-by-step instructions for the installation of the application selected. Each step includes references to the lettered items noted in the Parts List at the top of the page and in the graphic section.

A Drawings section follows the steps section providing detailed assembled and exploded drawings to further assist in installation and in determining replacement parts required.

How to Order Parts

Look in the standalone document *Antenna Power Beam Replacement Parts Catalog* to order available replacement parts.

Order can be submitted through the dealer portal or sent manually to your Knoll Customer Service Representative.

If you have any questions about the contents of this manual, please call your Customer Service Representative or Field Service at 800-343-5665.

Paint Finish Codes:

111T - Jet Black

112T - Brown

113T - Dark Grey

114T - Folkstone Grey

115T - Medium Grey

116T - Sandstone

117T - Soft Grey

118T - Bright White

611T - Beige Metallic Mist

612T - Medium Metallic Grey

613T - Silver

130T - Dark Red

131T - Slate Blue

Beam

Pattern Numbers Represented:

Beam: YNB_ _
Beam covers: YNC_ _

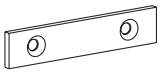
Parts List:

Beam connector bracket (A)
Machine screw, Phillips flat head, 10-24 x .75, type F (B)
Spring nut (C)
Machine screw, pan head phillips, M6 x 12mm (D)
Anchor bracket (E)
Rubber washer (F)
Beam (G)

Tools Needed:

#2 Phillips bit
Power drill

(A) 3AJ1030

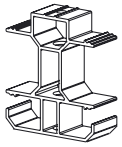


(B) 3AJ4077

(C) 3AB4021

(D) 3AB4066

(E) 3AJ00501



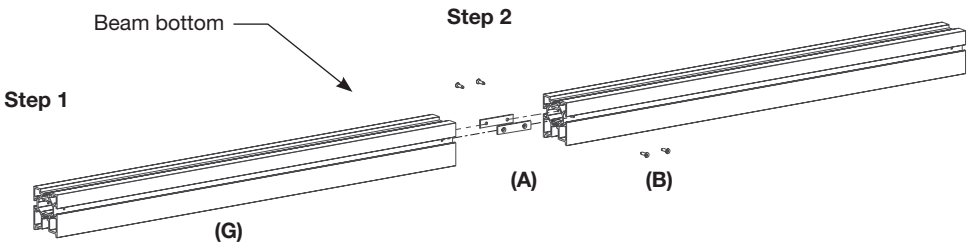
(F) 3AB4035

(G) Beam, size varies

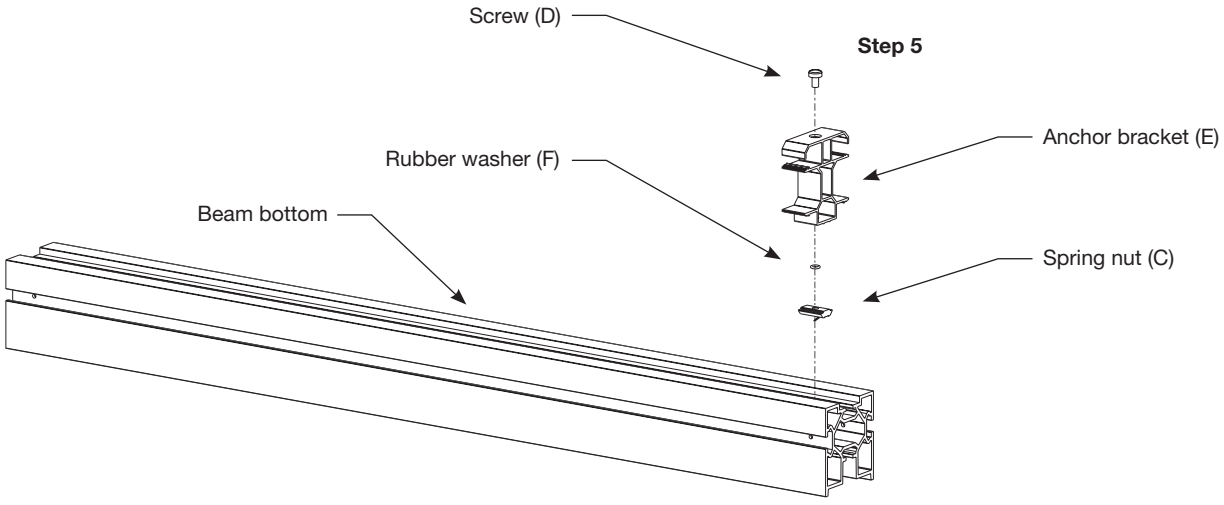
Steps

1. Place Beams upside down.
2. Attach Beams (G) with Connector bracket (A) using Screws (B) in pre-drilled holes.
3. Assemble Legs and/or End panel(s) per specific instructions (pgs. 5-15).
4. Attach Legs/End panel at ends and mid of Beam per specific Leg or End panel instruction (pgs. 5-15). *Note: Locate Power harness before installing Anchor brackets (pg. 27).*
5. Attach Anchor bracket (E) using Screw (D) and Rubber washer (F). *Note: Rubber washer is an optional assembly aid.*
6. Follow electrical instructions (pg. 27).
7. Flip Beam and Legs upright.

Linked Power Beam, Frame Assembly, Exploded, Steps 1-2



Linked Power Beam, Frame Assembly, Exploded, Step 5



Square Leg Assembly

Pattern Numbers Represented:

Square end legs, YNSCELF_
Square mid legs, YNSCIL_

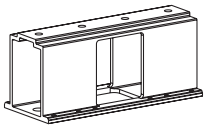
Parts List:

Long tunnel bracket (A)
Screw, pan head Phillips, 8-32 x .75" (B)
Spring nut (C)
Machine screw, button head Phillips, M6 x 16mm (D)
Square leg (E)
Leg cover (F)
Foot plate (G)
Screw, flat head Phillips, 8-18 x .50 (H)
Channel nut, 5/16-18 (I)
Machine screw, truss head Phillips, 5/16-18 x .50 (J)
Stabilizer foot (K)
Glide (L)
Short tunnel bracket (M)
Support bracket weldment (N)

Tools Needed:

4mm Hex bit + right angle ratchet
or 4mm Allen key
#2 Phillips head bit
#3 Phillips head bit
Power driver
9/16 Open wrench

(A) 3AJ401901



(B) 3AJ4083

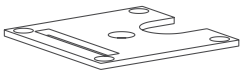
(C) 3AB4021

(D) 3AB8162

(E) Square leg, height varies

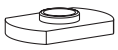
(F) Leg cover, height varies

(G) 3AJ1014



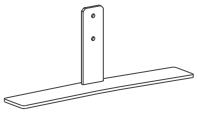
(H) 3AJ4082

(I) 3AJ4113

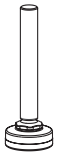


(J) 7192440

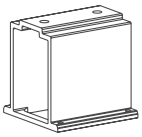
(K) 3AJ1010



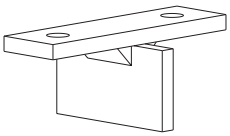
(L) 3AB405900



(M) 3AJ004502



(N) 3AJ4207



Steps

1. Secure Plate (G) to Leg (E) using Screws (H).

2. Thread Glide (L) into Plate (G).

3. If using Stabilizer foot (K), insert Vertical post through Foot plate (G) and secure loosely with Nuts (I) and Screws (J).

4. Attach Tunnel bracket (A or M) to Leg (E) using Screws (B).

5a. **End leg to Beam attachment using Short tunnel (M):** Insert two Spring nuts (C) into Beam. Attach Leg to Beam by threading Screw (D) through Support bracket weldment (N) Tunnel bracket (M) and Spring Nuts (C).

5b. **Mid leg to Beam attachment using Long Tunnel (A):** Insert four Spring nuts (C) into Beam. Attach Leg to Beam by threading Screw (D) through Spring nuts (C).

6. If routing electrical, route through Leg and Tunnel bracket (A or M).

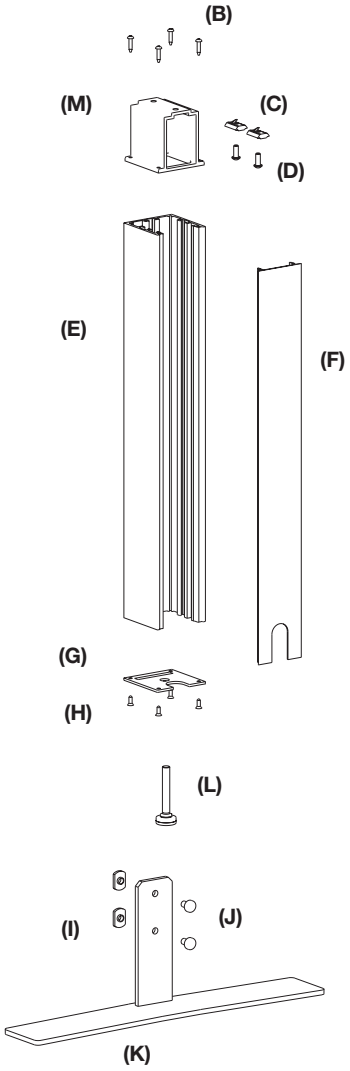
7. Level system by adjusting Glide (L).

8. Tighten Stabilizer foot (K) to Leg (E) with Screws (J).

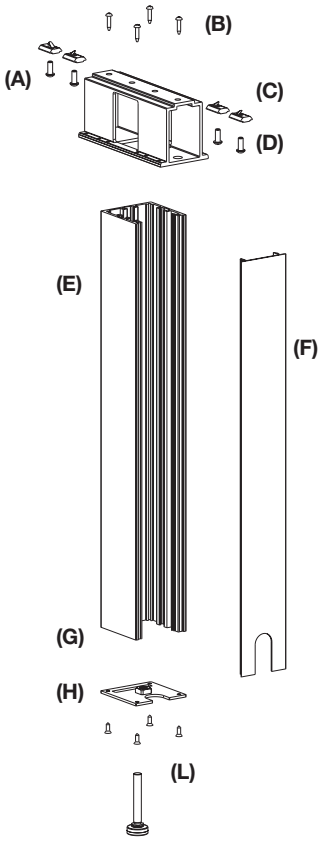
9. Snap Cover (F) onto Leg (E).

Square Leg Assembly, End Leg, Exploded

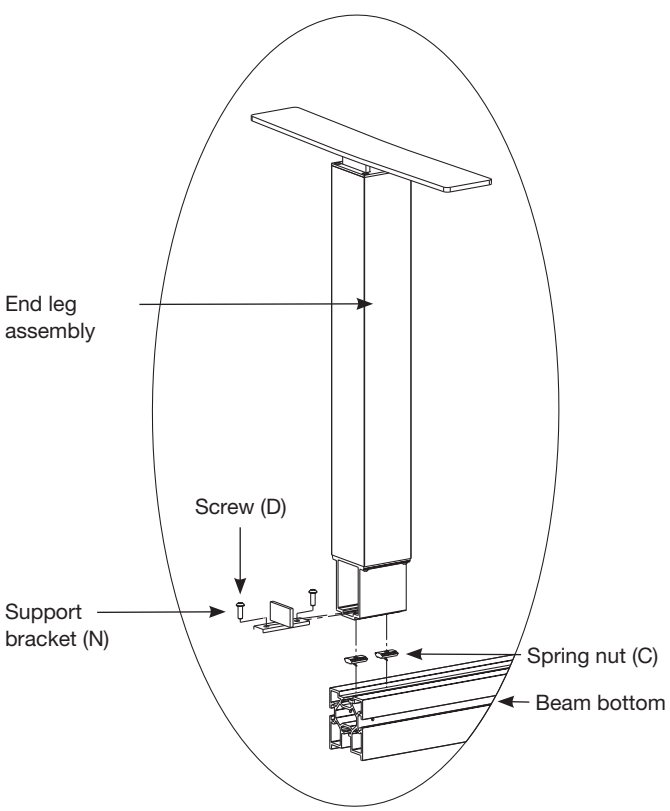
Steps 1-4

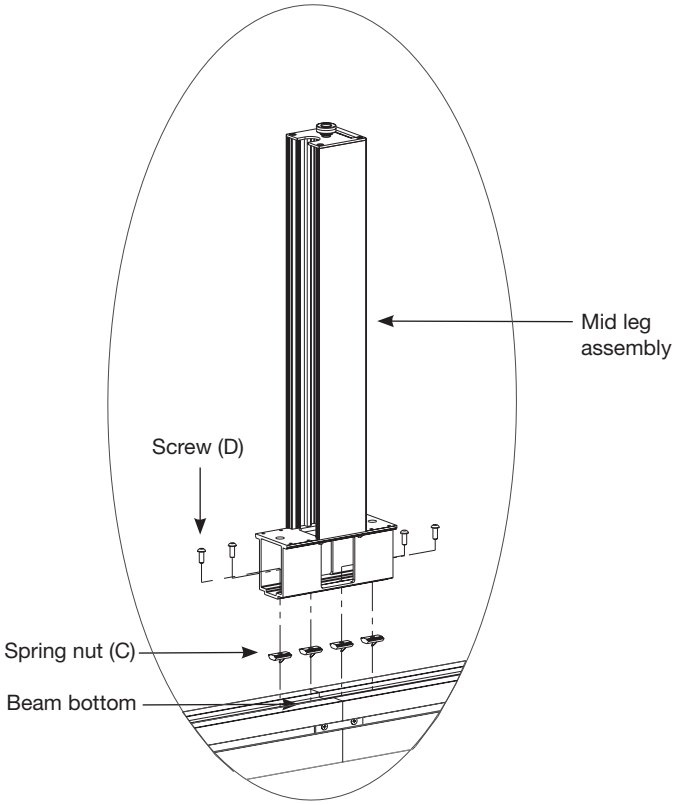


Square Leg Assembly, Mid Leg, Exploded

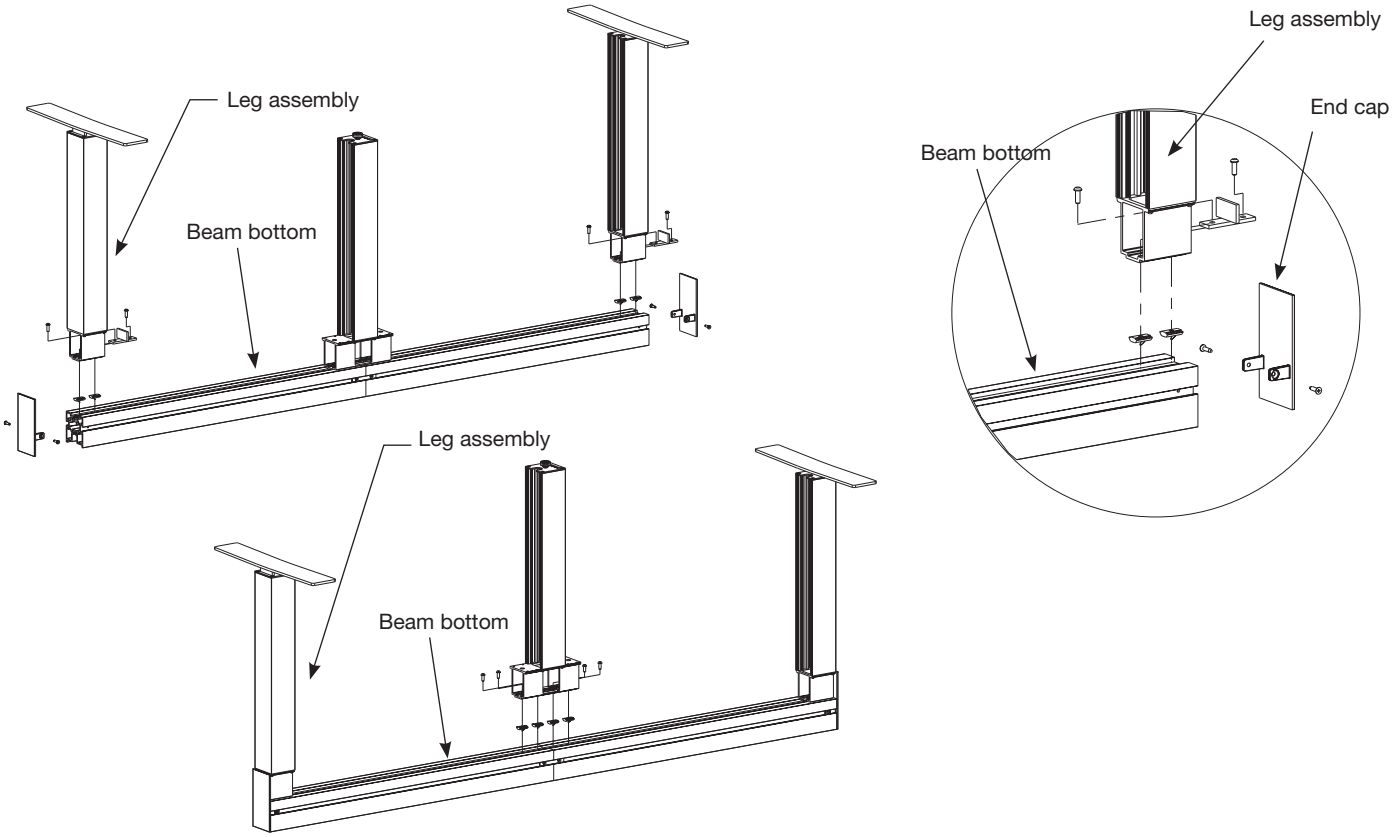


Beam: Attaching Legs
Leg Attachment, Exploded, Step 5

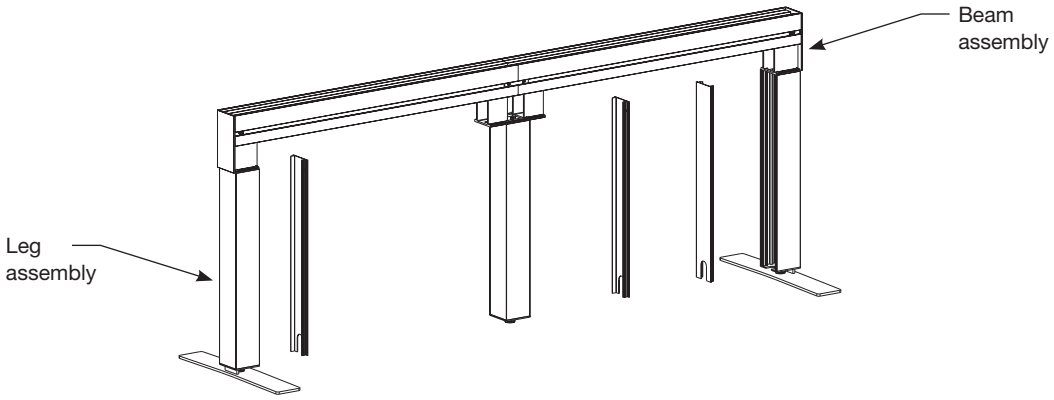




Linked Power Beam, Frame Assembly, Exploded



Linked Power Beam, Frame Assembly, Exploded, Step 8 & 9



Round I-Leg

Pattern Numbers Represented:

Beam, YNB_
Round I-Legs, YNSRIL_

Parts List:

Spring nut (A)
Screw, button head, M6 x 16mm (B)
Extended glide (C)
Round I-leg (D)

Tools Needed:

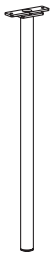
4mm Hex bit
9/16 Open wrench

(A) 3AB4021

(B) 3AB4246

(C) 3AB405900

(D) Round I-leg, height varies

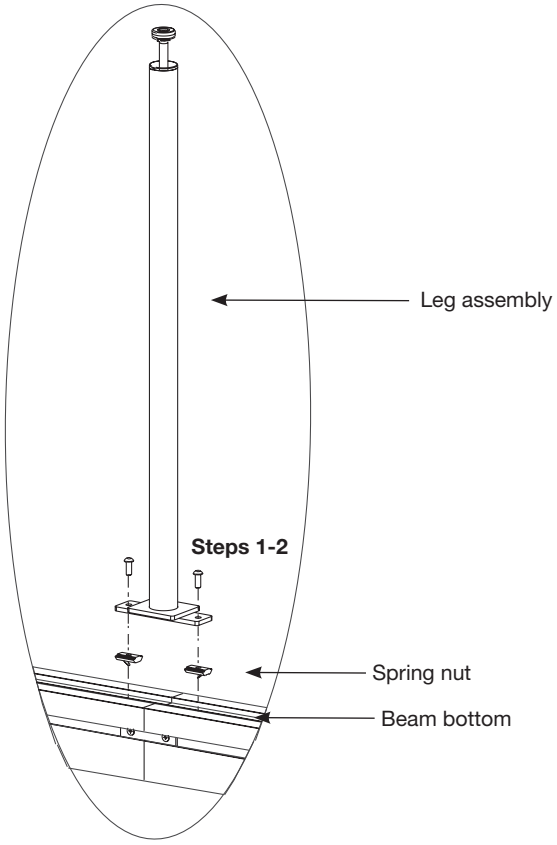


Steps

1. Insert Spring nuts (A) into beam.
2. Position Leg (D) to beam and install two Screws (B) through tabs at top of Leg into Spring nuts (A).
3. Thread Glide (C) into Leg (D).

Round I-Leg Assembly, Exploded

Leg Attachment, Exploded



Round T-Legs

Pattern Numbers Represented:

Beam, YNB_
Round T-legs, YNSRTL_

Parts List:

Spring nut (A)
Screw, button head, M6 x 16mm (B)
Glide (C)
Round T-leg (D)

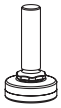
Tools Needed:

4mm Hex bit and power driver or
4mm Allen key

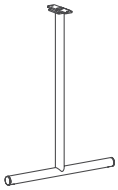
(A) 3AB4021

(B) 3AB4246

(C) 3AB4241



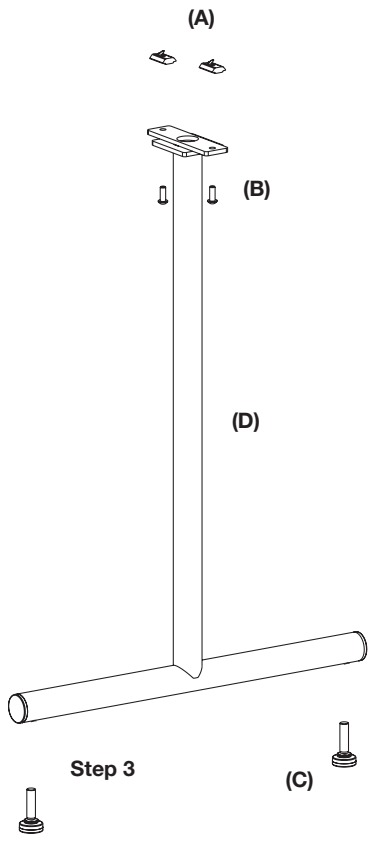
(E) Round T-leg, height varies



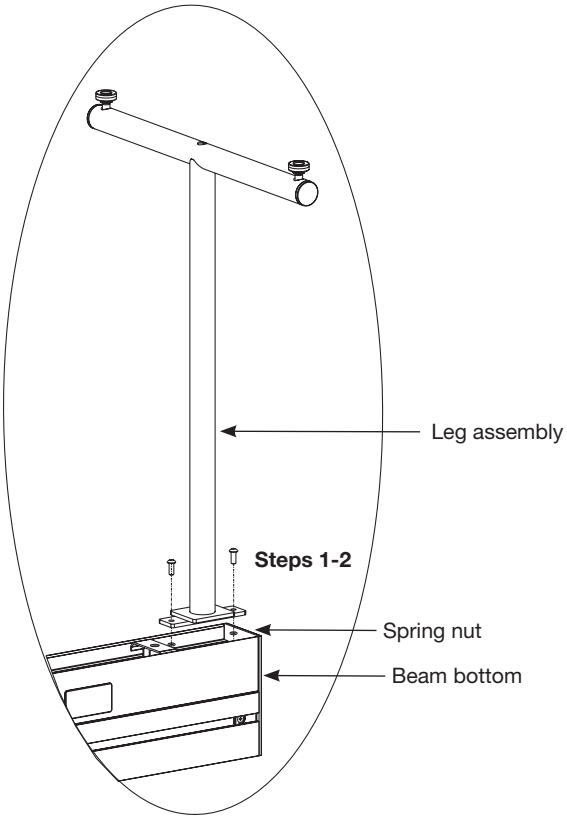
Steps

1. Insert Spring nuts (A) into Beam.
2. Position Leg (D) to Beam and install two Screws (B) through tabs at top of Leg into Spring nuts (A).
3. Thread two Glides (C) into Leg (D).

Round T-Leg Assembly, Exploded



Leg Attachment, Exploded



End Panel Leg Attachment to Beam

Pattern Numbers Represented:

YNSEP_ _

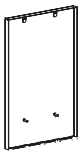
Parts List:

Outside panel (A)
Inside panel (B)
Glide (C)
Nut, flanged locking with nylon insert, 1/4-20 (D)
T bracket (E)
Machine screw, flat head Phillips, 1/4-20 x .625 (F)
Machine screw, 10-24 x .75, type F (G)
Spring nut (H)
Machine screw, button head, M6 x 16mm (I)

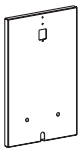
Tools Needed:

#2 Phillips-head screwdriver or power drill with #2 Phillips-head bit
4mm Allen key (hex key)
7/16" Socket
9/16" Open wrench

(A) Outside panel, height varies



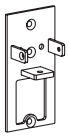
(B) Inside panel, height varies



(C) 3AB401800

(D) 3AJ4068

(E) 3AJ1022



(F) 7189140

(G) 3AJ4077

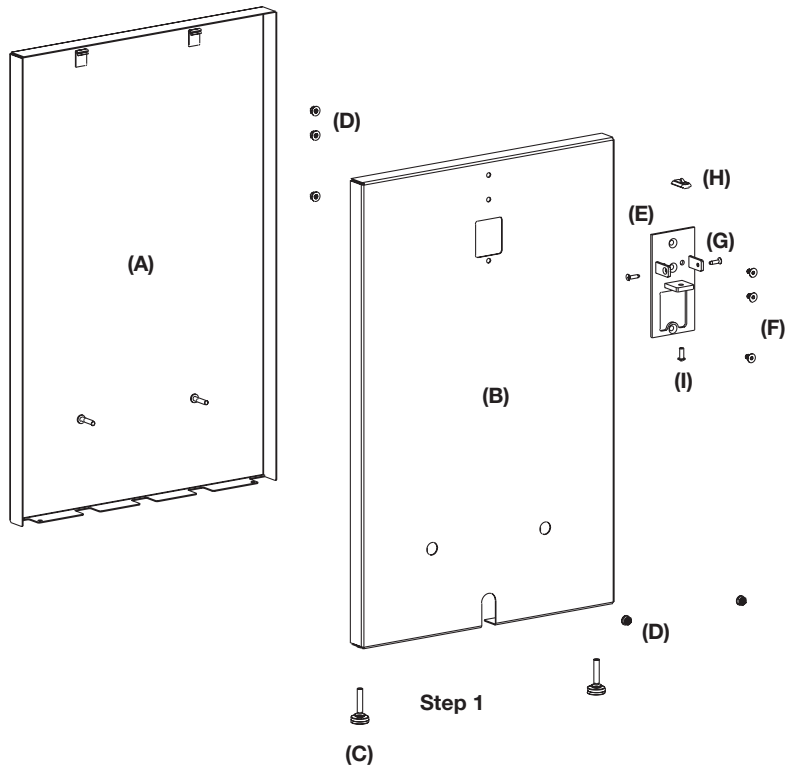
(H) 3AB4021

(I) 3AB4246

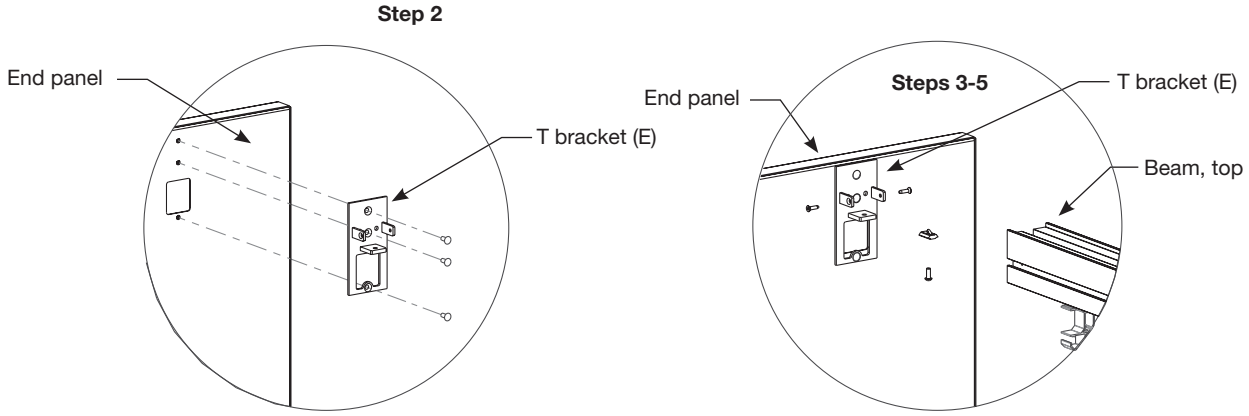
Steps

1. Thread in Glides (C) to Inside panel (B).
2. Attach T-bracket (E) to Inside panel (B) using Screw (F) and Locknut (D).
3. Prepare Beam by inserting Spring nut (H) into slot on bottom of Beam.
4. Attach one end of Beam to the T bracket (E) with two Type F screws (G) into pre-drilled holes on the side of the Beam.
5. Install Machine screw (I) into Spring nut (H) on bottom of Beam.
6. Assemble Outside panel (A) hooks to catches in Inside panel (B).
7. Swing Studs on Outside panel (A) through holes on Inside panel (B). Secure with Locknut (D).

End Panels Assembly, Exploded

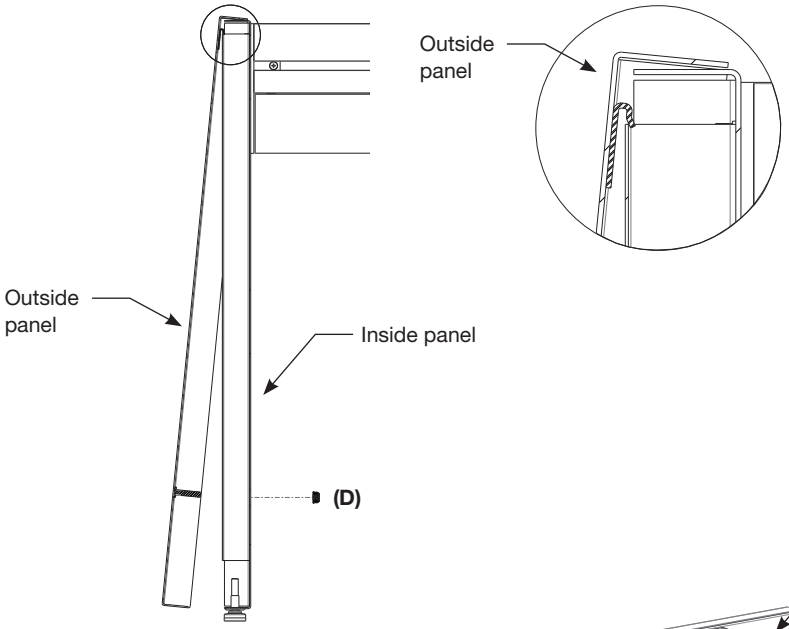


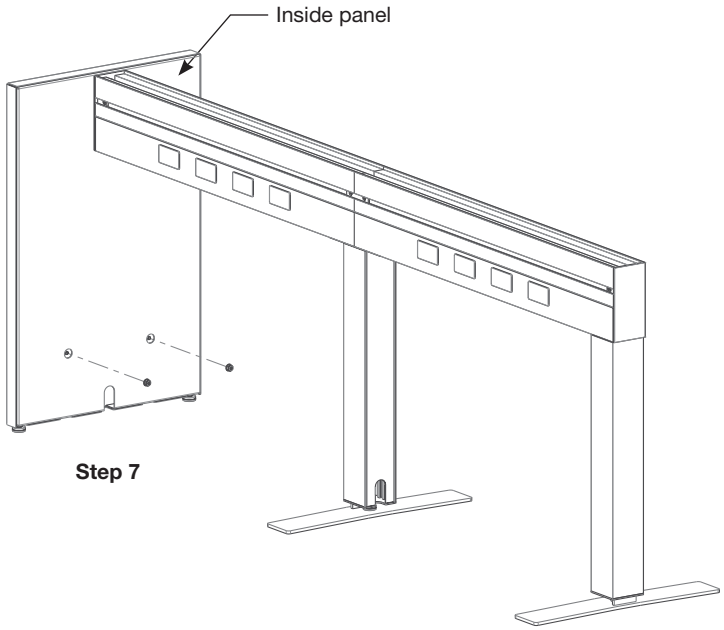
End Panel Attachment, Exploded



End Panel Profile, Exploded

Steps 6-7





Step 7

Square Leg Junction Assembly

Pattern Numbers Represented:

YNSCJL_
YNSCJT_
YNSCJX_

Parts List:

Square leg (A)
Leg cover (B)
Tower to leg adapter plate (C)
Screw, flat head Phillips, 8-18 x .50, type B (D)
Tower assembly (E)
Machine screw, flat head Phillips, 10-32 x .375 (F)
Foot plate weldment (G)
Glide assembly (H)

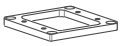
Tools Needed:

#2 Phillips bit
Power driver

(A) Square leg, height varies

(B) Leg Cover, height varies

(C) 3AJ1015



(D) 3AJ4082

(E) 3AJ1016

(F) 3AJ4081

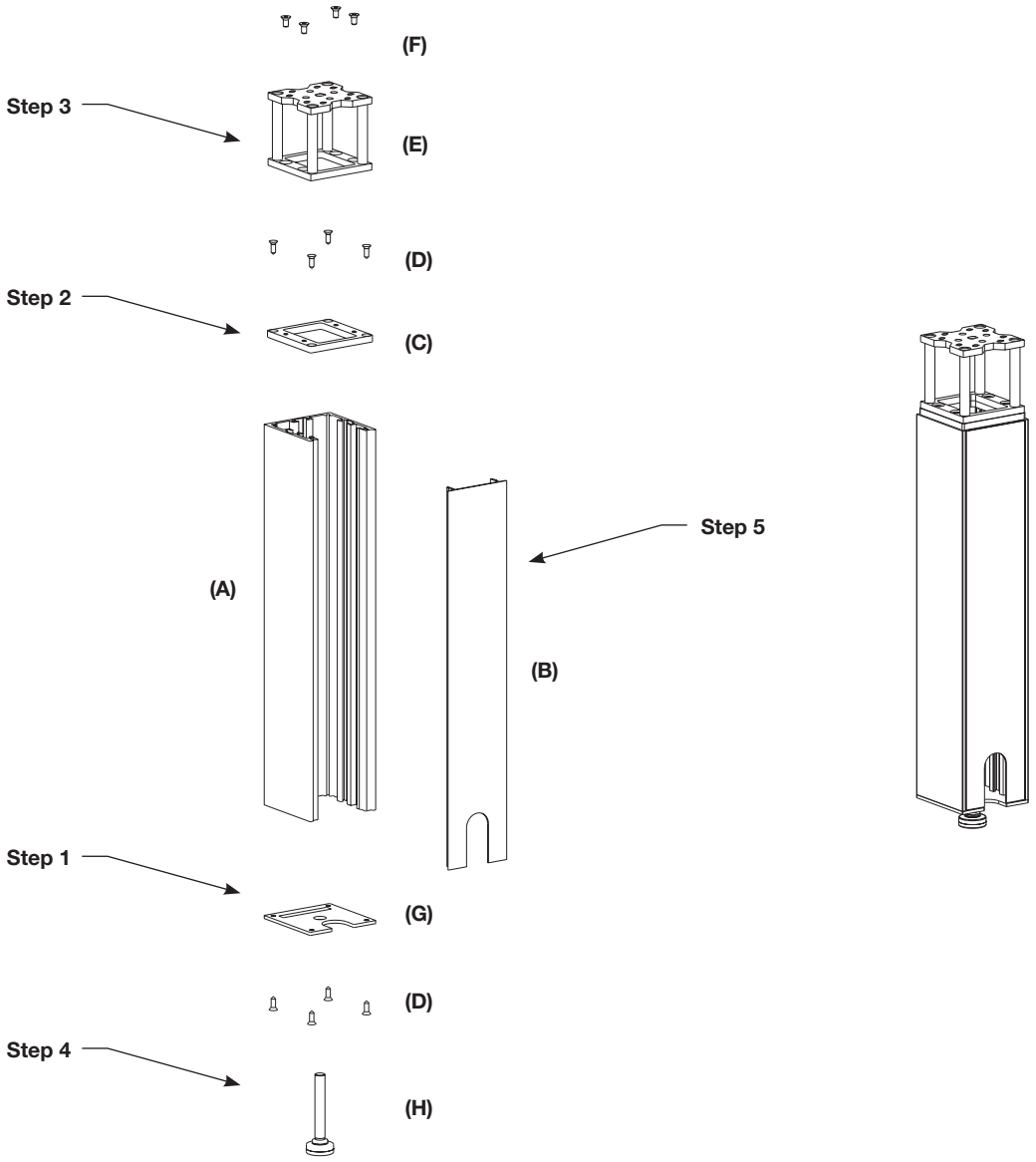
(G) 3AJ1013

(H) 3AB405900

Steps

1. Use Screws (D) to secure Foot plate (G) to Leg (A).
2. Secure Plate (C) to Leg (A) using Screws (D).
3. Attach Tower (E) to Plate (C) with four Screws (F).
4. Thread Glide (H) into Foot plate (G).
5. Snap Leg cover (B) onto Leg (A) after wires are routed through Tower assembly (E). *Note: Follow Square Leg Junction instructions for attachment to beam (pg. 19, 21, 23).*

Square Leg Junction Assembly



Square Leg Junction Attachment to Beam, "L" Junction

Pattern Numbers Represented:

YNSCJL_

Parts List:

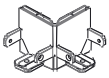
Square leg assembly (A)
L junction bracket (B)
L junction cover (C)
Top cover (D)
Machine screw, pan head Phillips, 1/4-20 x .500 (E)
Screw, flat head Phillips, 10-24 x .75 (F)
Spring nut (G)
Machine screw, button head, M6 x 16mm (H)
Set screw, 4-40 x .125, cup point (I)

Tools Needed:

#2 Phillips driver, 4mm Allen driver
#2 Phillips bit
4mm Allen key
.050" Allen key

(A) Square leg junction, height varies

(B) 3AJ1082



(C) 3AJ1069

(D) 3AJ4112

(E) 3AJ4131

(F) 3AJ4077

(G) 3AJ4021

(H) 3AJ4246

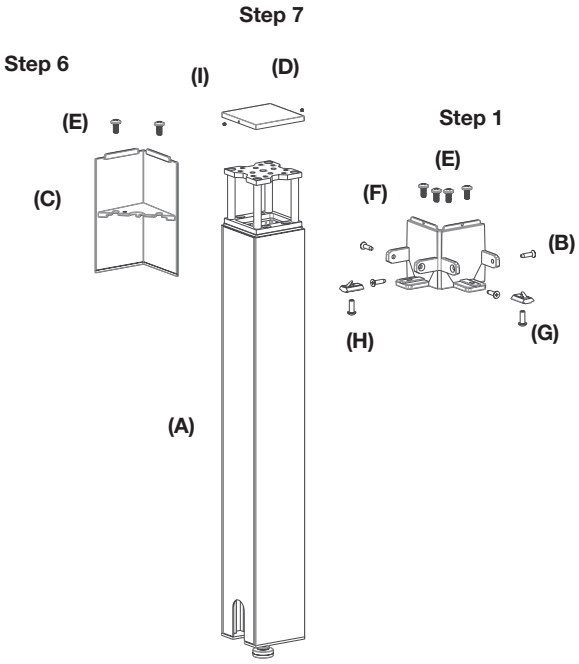
(I) 3AJ1085

Steps

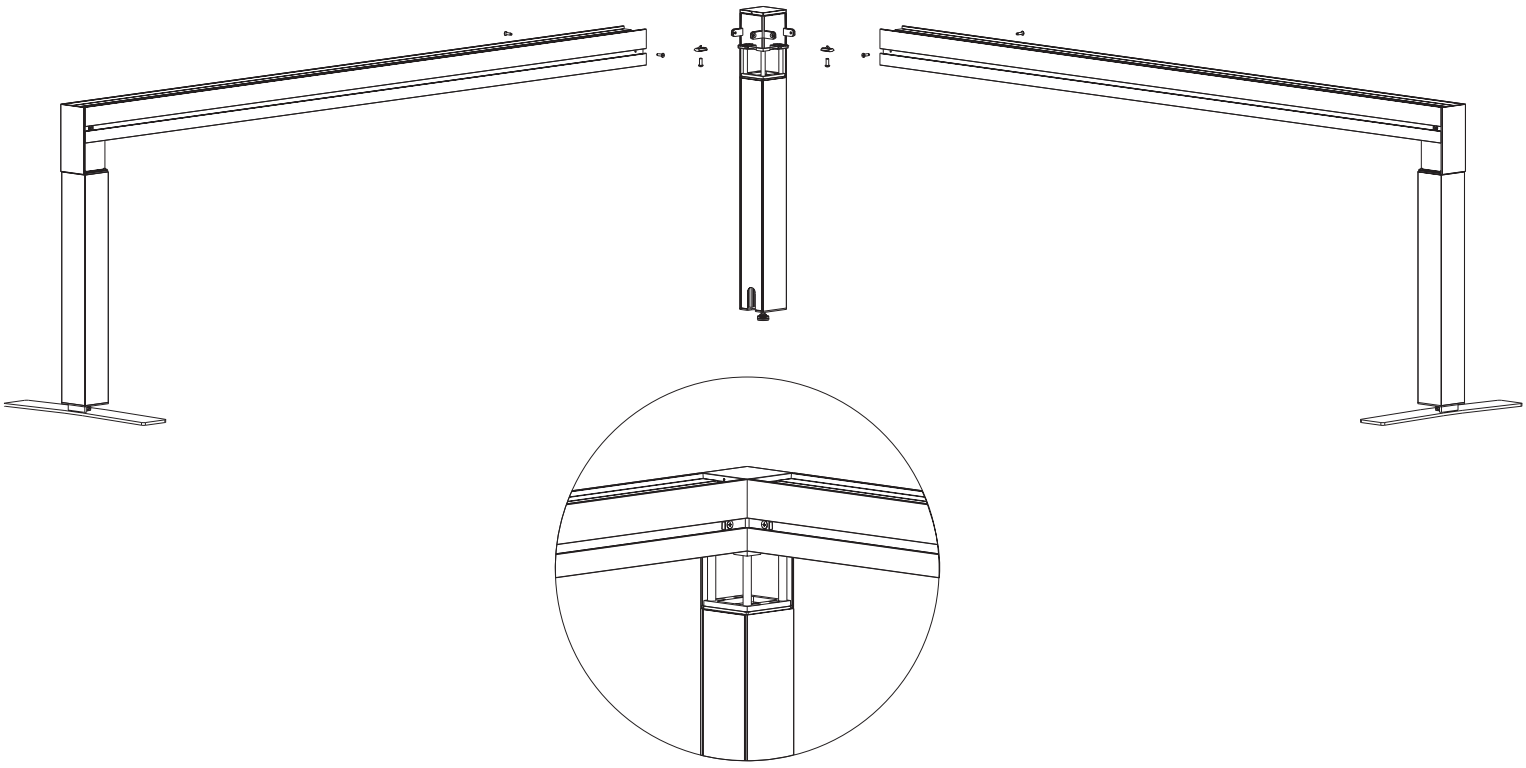
Note: Assemble Square Leg Junction per installation (pg. 17)

1. Secure Junction bracket (B) to Leg assembly (A) using Screw (E).
2. Prepare Beam by inserting Spring nut (G) into slot on bottom of Beam.
3. Attach one end of Beam to the Junction bracket with two Type F screws (F) into pre-drilled holes on the side of the Beam.
4. Install Machine screw (H) into Spring nut on bottom of Beam.
5. Repeat steps 2-4 for other Beam.
6. Install Junction cover (C) to assembly using Screw (E).
7. Install top Cover (D) with set Screw (I).

Square Leg "L" Junction



Steps 2- 4



Square Leg Junction Attachment to Beam, "T" Junction

Pattern Numbers Represented:

YNSCJT_

Parts List:

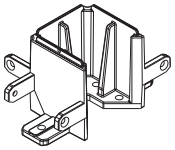
Square leg assembly (A)
T junction bracket (B)
T junction cover (C)
Top cover (D)
Machine screw, pan head Phillips, 1/4-20 x .500 (E)
Screw, flat head Phillips, 10-24 x .75 (F)
Spring nut (G)
Machine screw, button head, M6 x 16mm (H)
Set screw, 4-40 x .125, cup point (I)

Tools Needed:

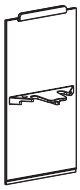
#2 Phillips driver, 4mm Allen driver
#2 Phillips bit
4mm Allen key
.050" Allen key

(A) Square leg junction, height varies

(B) 3AJ1083



(C) 3AJ1070



(D) 3AJ4112

(E) 3AJ4131

(F) 3AJ4077

(G) 3AJ4021

(H) 3AJ4246

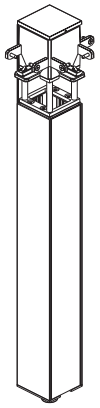
(I) 3AJ1085

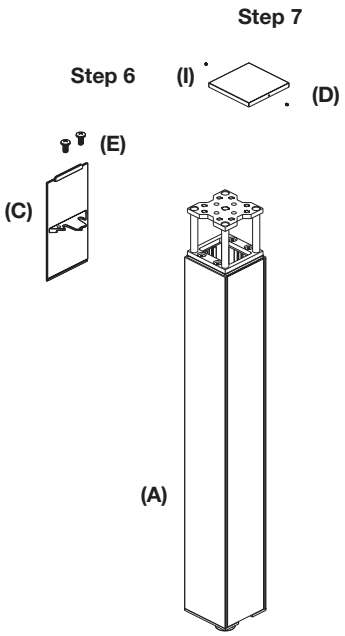
Steps

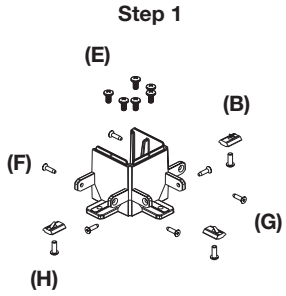
Note: Assemble Square Leg Junction per installation (pg. 17)

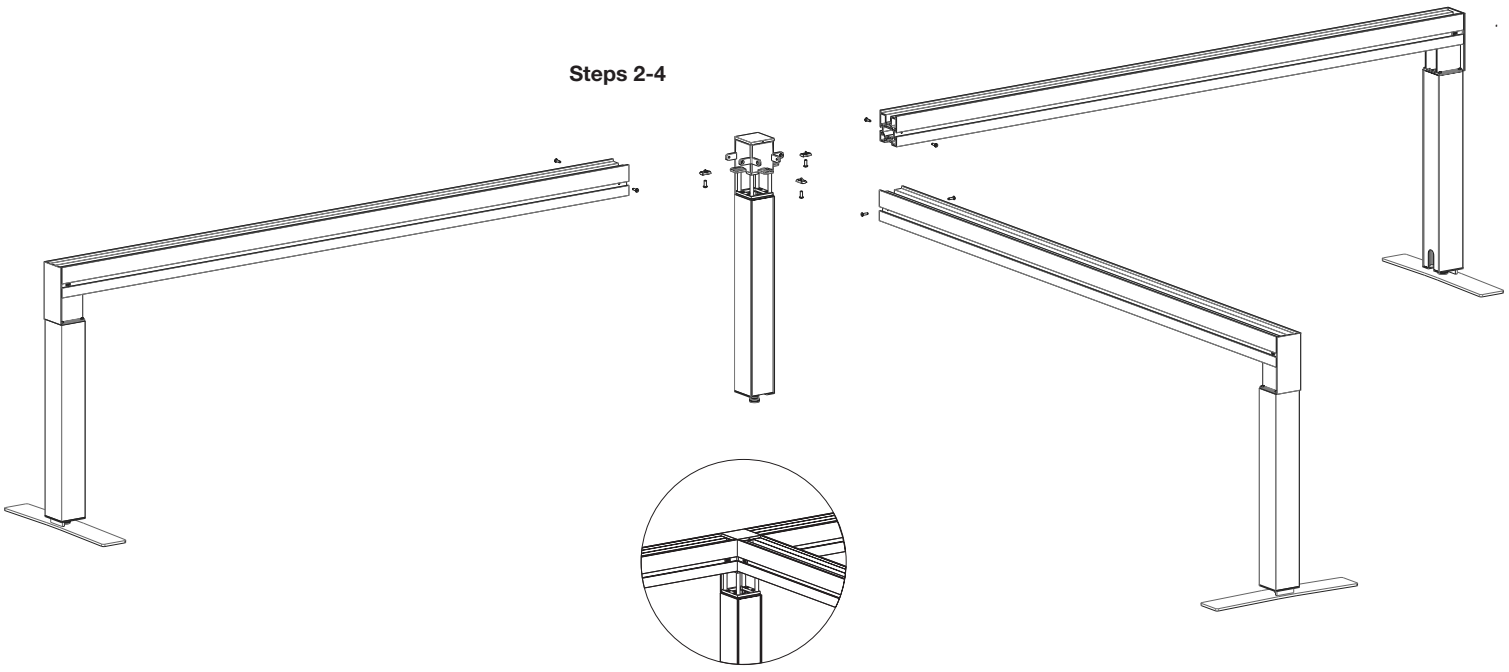
1. Secure Junction bracket (B) to Leg assembly (A) using Screw (E).
2. Prepare Beam by inserting Spring nut (G) into slot on bottom of Beam.
3. Attach one end of Beam to the Junction bracket with two Type F screws (F) into pre-drilled holes on the side of the Beam.
4. Install Machine screw (H) into Spring nut (G) on bottom of Beam.
5. Repeat steps 2-4 for other Beams.
6. Install Junction cover (C) to assembly using Screw (E).
7. Install top Cover (D) with set Screw (I).

Square Leg "T" Junction









Square Leg Junction Attachment to Beam, "X" Junction

Pattern Numbers Represented:

YNSCJX_

Parts List:

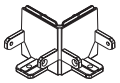
Square leg assembly (A)
X junction bracket (B)
Top cover (C)
Machine screw, pan head Phillips, 1/4-20 x .500 (D)
Screw, flat head Phillips, 10-24 x .75 (E)
Spring nut (F)
Machine screw, button head, M6 x 16mm (G)
Set screw, 4-40 x .125, cup point (H)

Tools Needed:

#2 Phillips driver, 4mm Allen driver
#2 Phillips bit
4mm Allen key
.050" Allen key

(A) Square leg junction, height varies

(B) 3AJ1082



(C) 3AJ4112

(D) 3AJ4131

(E) 3AB4077

(F) 3AB4021

(G) 3AB4246

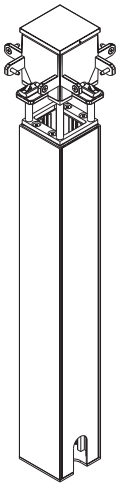
(H) 3AJ1085

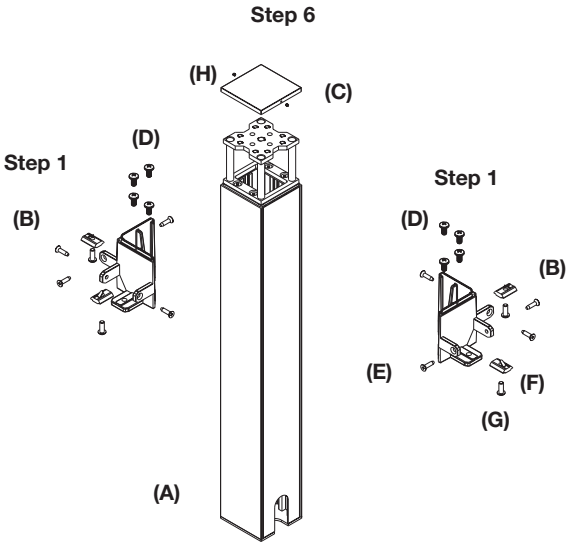
Steps

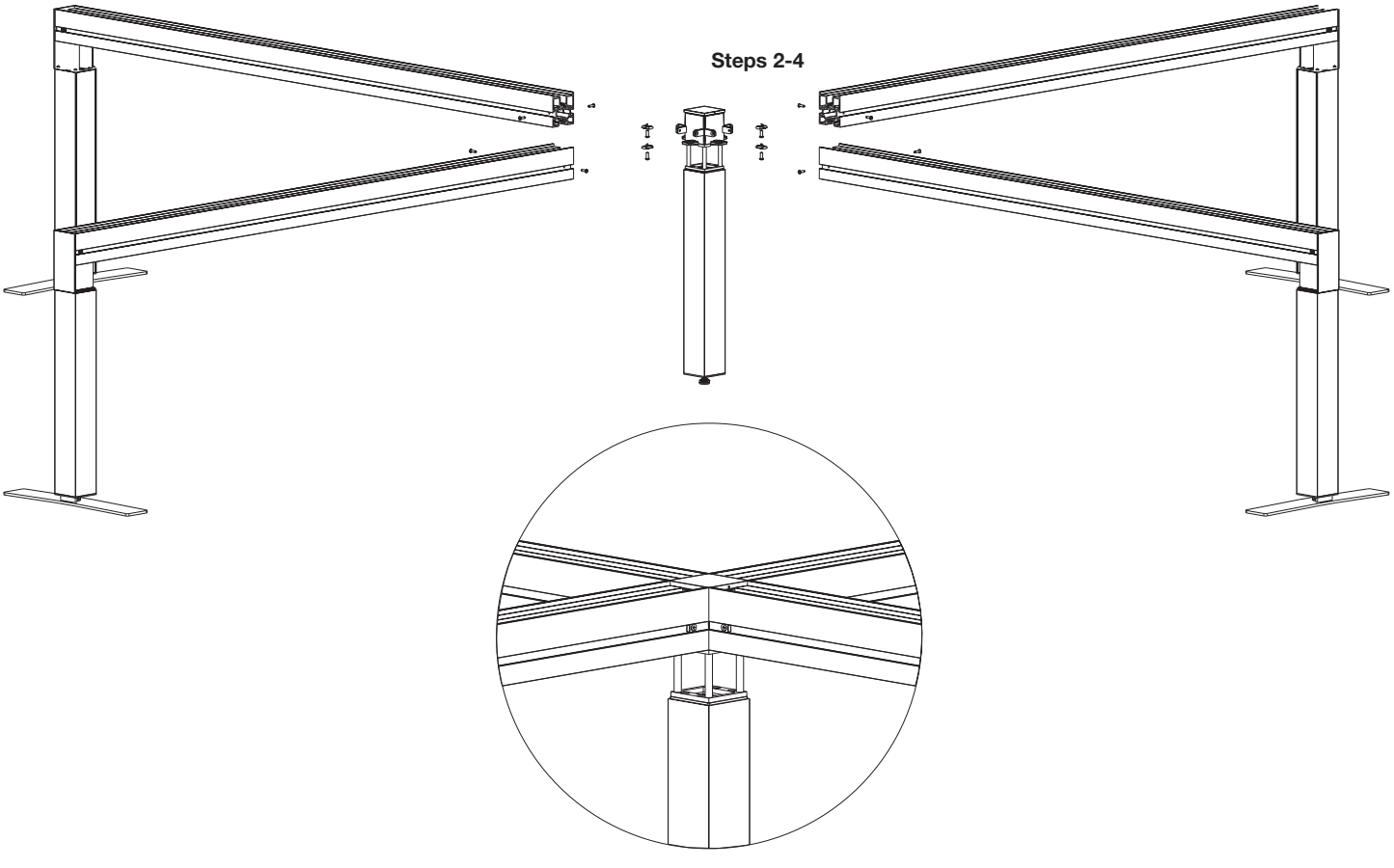
Note: Assemble Square Leg Junction per installation (pg. 17)

1. Secure Junction bracket (B) to Leg assembly (A) using Screw (D). Repeat for second Junction bracket (B).
2. Prepare Beam by inserting Spring nut (F) into slot on bottom of Beam.
3. Attach one end of Beam to the Junction bracket with two Type F screws (E) into pre-drilled holes on the side of the Beam.
4. Install Machine screw (G) into Spring nut (F) on bottom of Beam.
5. Repeat steps 2-4 for other Beams.
6. Install top Cover (C) with set Screw (H).

Square Leg "X" Junction







Beam End Caps

Pattern Numbers Represented:

Beam end cap: YNCE

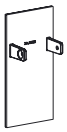
Parts List:

End cap (A)
Machine screw, flat head Phillips,
10-24 x .75, type F (B)

Tools Needed:

#2 Phillips bit
Power driver

(A) YNCE



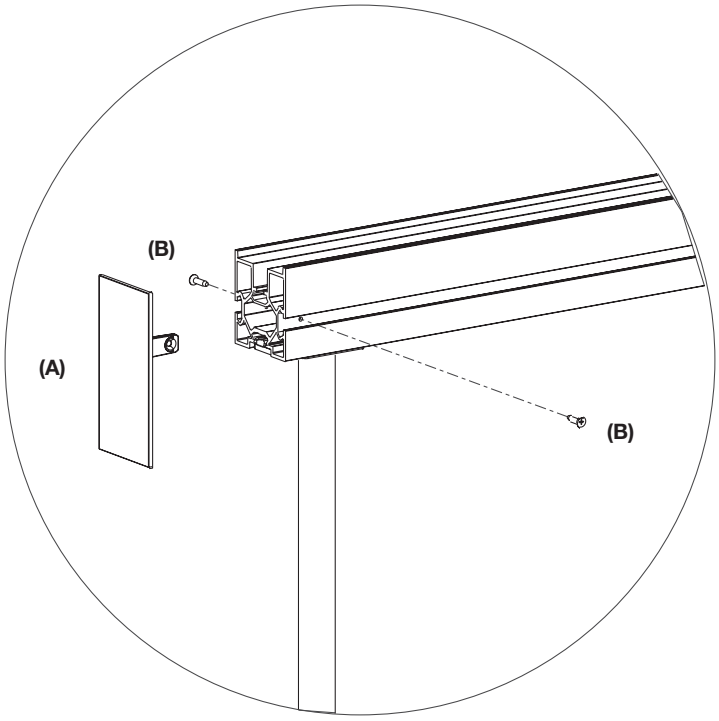
(B) 3AJ4077

Steps

1. Place End cap (A) into ends of exposed Beam at either end of a run.

2. Secure with (2) Screws (B).

Step 1-2



Modular Electrical

Pattern Numbers Represented:

Power Harness, YNREH_, YNRTH_, YNRXH_
Duplex Receptacles, YNRXD_
Outlet Fillers, YNROF_
Side Covers, YNC_
Jumper Cables, YNRJ_
Infeed, YNRP_

Parts List:

Machine screw, pan head Phillips, M6 x 10mm (A)
Spring nut (B)
Rubber o-ring (C)
Anchor bracket
Beam covers
Beam
Duplexes
Power harness
Jumpers
Infeed

Tools Needed:

#3 Screwdriver

(A) 3AB4067

(B) 3AB4021

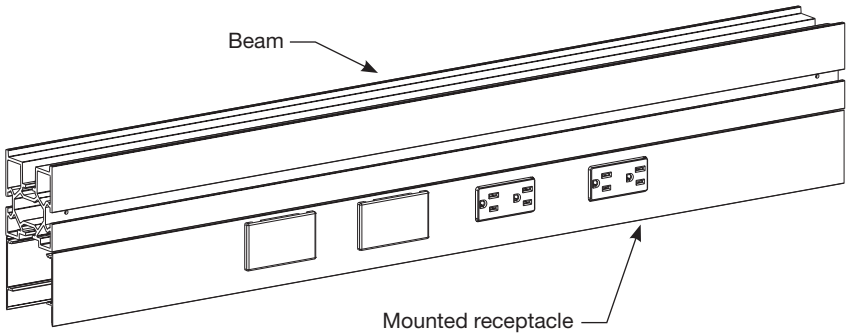
(C) 3AB4035

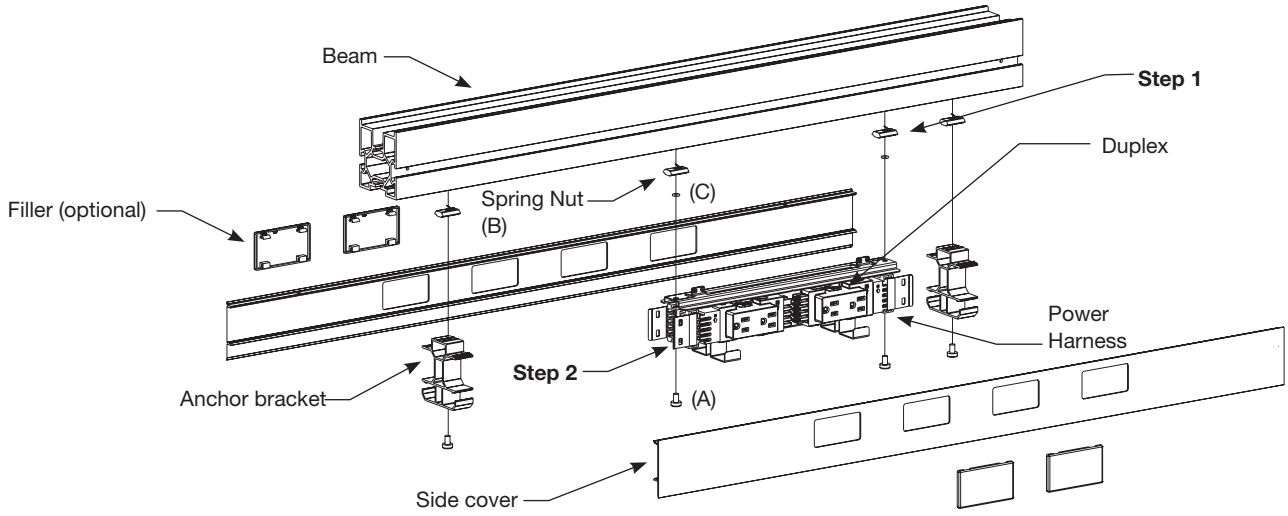
Steps

1. Insert (2) Spring nuts (B) into the bottom slot in the Beam.
2. Attach the Power harness to the Beam using two Screws (A) and optional O-rings (C) into Spring nuts (B). Leave Screws loose so Power harness can be shifted to align with side covers. *Note: Anchor bracket location can be adjusted to accommodate power harness and jumper ends.*
3. Insert Duplex receptacles into the inner terminals of the Power harness as required.
4. Install Jumper cables into the Outer terminals of the Power harness as required. *Note: Arrows stamped into the molded plugs should be pointed up, indicating proper orientation of the jumper cable.*
5. Install Beam side covers onto Anchor brackets by applying pressure to Snap features.
6. Install Outlet fillers (YNROF) in all unoccupied Raceway cutouts.

Modular Electrical

Note: Anchor bracket location can be adjusted to accommodate power harness and cable ends.





Chicago Electrical Harness

Pattern Numbers Represented:

YNRDHOK_
YNRSHOK_

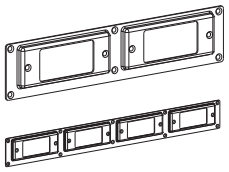
Parts List:

Faceplate (A)
Hardwire box (B)
Machine screw, flat head Phillips, 6-32 x .25 (C)
Blank faceplate (D)
Beam side cover
Beam
Spring nut (E)
Anchor bracket
Screw, button head, M6 x 12mm (F)

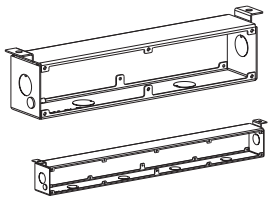
Tools Needed:

#2 Phillips screwdriver
4mm Allen key

(A) 3AJ802301
3AJ802305

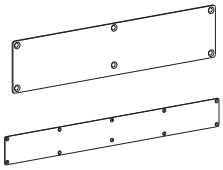


(B) 3AJ802001
3AJ802003



(C) 3AB8521

(D) 3AJ802302
3AJ802306

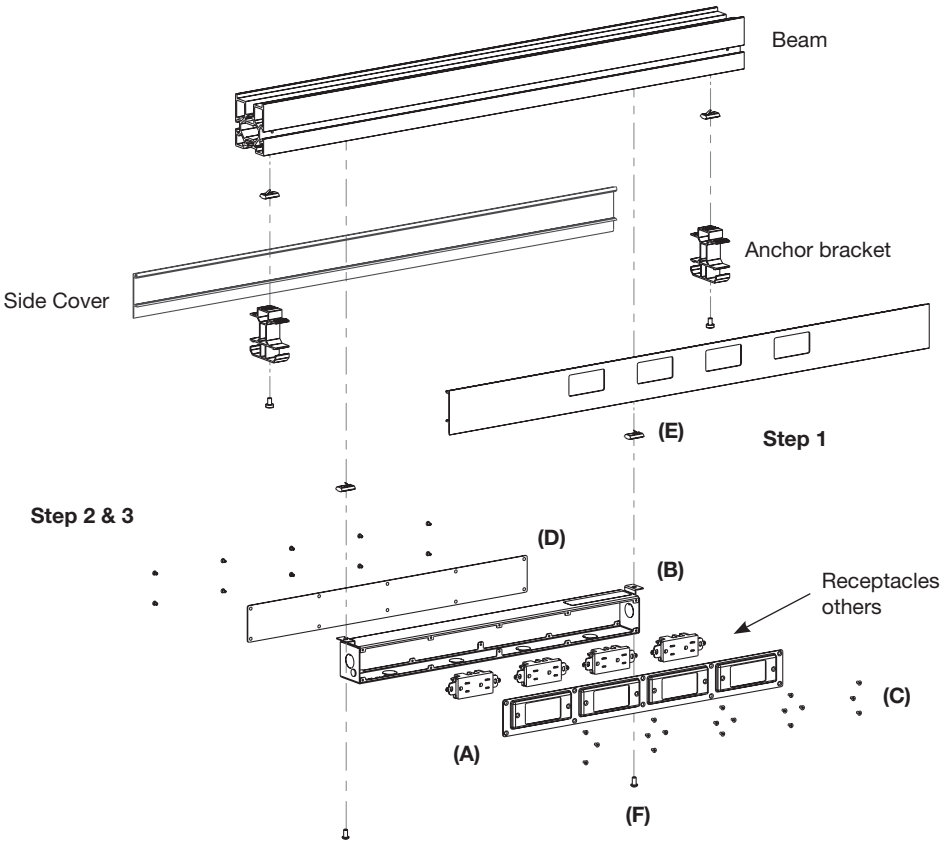


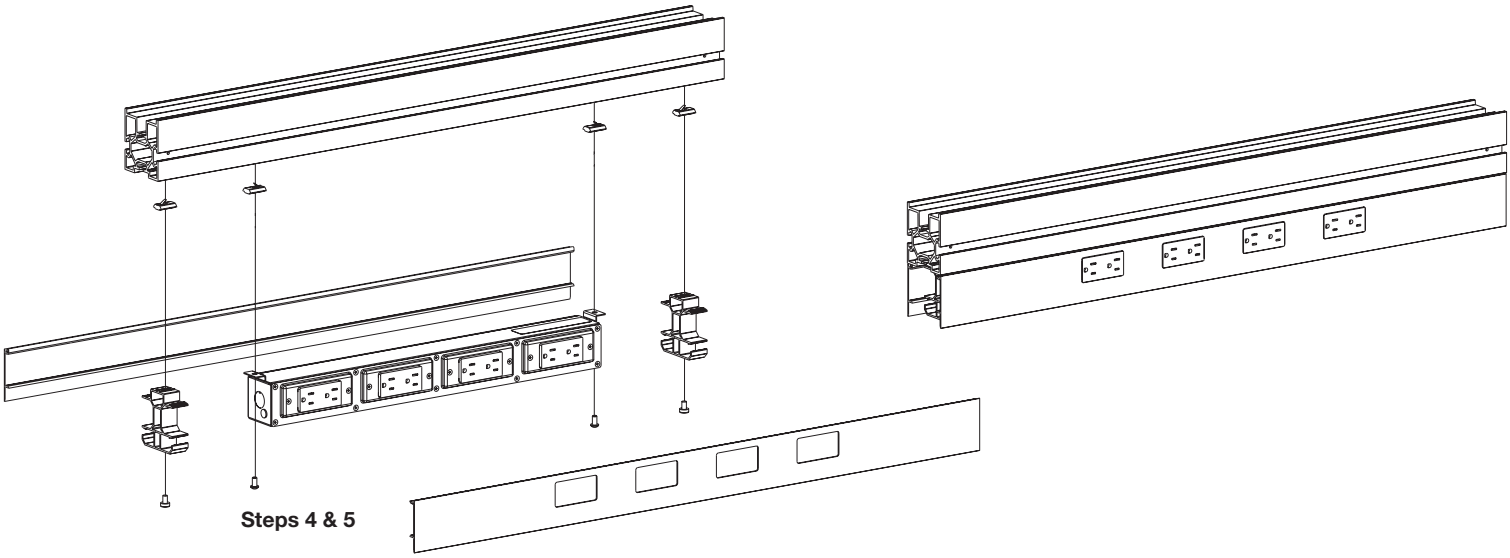
(E) 3AB4021

(F) 3A8B207

Steps

1. Install Spring nut (E) into bottom channel of Beam.
2. Connect Receptacles to Faceplate (A) using Screw (C). Receptacles must fill all outlet openings. *Note: YNROF cannot be used in hardwired applications.*
3. Fasten Faceplate (A or D) to Hardwire box (B) using Screw (C).
4. Fasten assembly to Spring nut (E) in Beam using Screw (F). *Note: Anchor bracket location can be adjusted to accommodate power harness and cable ends.*
5. Install Beam side covers onto Anchor brackets by applying pressure to Snap features.





Square Leg for New York City Assembly

Pattern Numbers Represented:

Parts List:

Square leg for NYC (A)
Square leg cover for NYC (B)
Foot plate weldment (C)
Screw, flat head Phillips, 8-18 x .500, type B (D)
Short tunnel bracket for NYC Leg (E)
Screw, round head Phillips, 8-18 x .75, type B (F)
Spring nut (G)
Machine screw, button head, M6 x 16 (H)
Foot weldment (I)
Glide (J)
Machine screw, pan head Phillips, 5/16-18 x .500 (K)
Channel nut (L)
Machine screw, flat head Phillips, 10-24 x .75, type F (M)
Tunnel support bracket (N)
Long tunnel bracket for NYC leg (O)

Tools Needed:

#2 Phillips bit
#3 Phillips bit
4mm Allen bit
Right angle ratchet

(A) Leg, size varies

(B) Leg cover, size varies

(C) 3AJ1081

(D) 3AJ4082

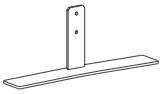
(E) 3AJ412401

(F) 3AJ4083

(G) 3AB4021

(H) 3AB8162

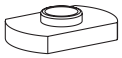
(I) 3AJ1010



(J) 3AB405900

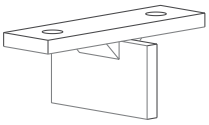
(K) 7192440

(L) 3AJ4113

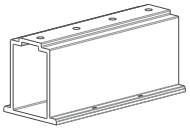


(M) 3AJ4098

(N) 3AJ4207



(O) 3AJ412402



Steps

1. Secure Plate (C) to Leg (A) using Screws (D).

2. Thread Glide (J) into Plate (C).

3. If using Stabilizer foot (I) knock out rectangular feature on Foot plate (C). Insert Vertical post through Foot plate (C) and secure with Nuts (L) and Screws (K).

5. Install Tunnel bracket (E) to assembly using Screws (F).

6a: **End leg to Beam attachment using Short tunnel (E):** Insert two Spring nuts (G) into Beam.

6b: **Mid leg to Beam attachment using Long tunnel (O):** Insert four Spring nuts (G) into Beam.

7. Attach Leg to Beam by threading Screw (H) through Support bracket (N) and Tunnel bracket (E). *Note: Suport bracket is only for End leg.*

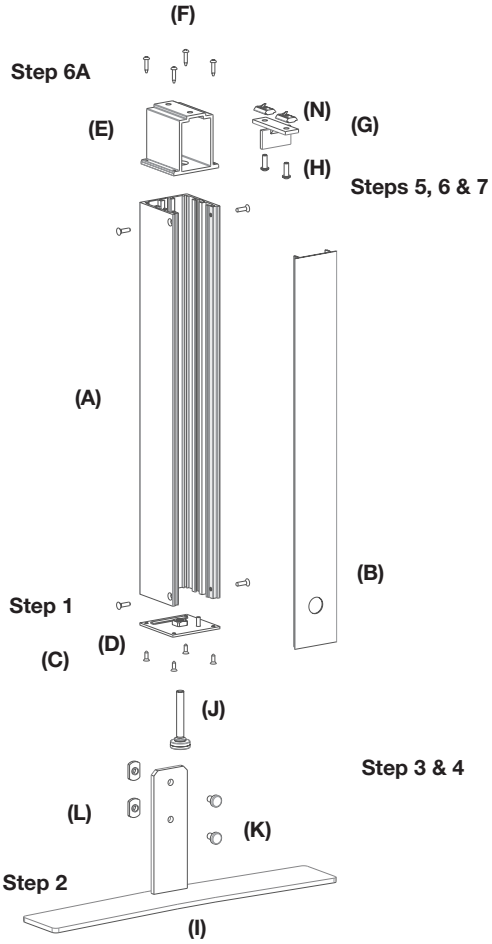
8. Licensed electrician run wires through hole in Leg cover (B) and Power Beam modular infeed through Tunnel bracket (E or O) to make connection in Leg.

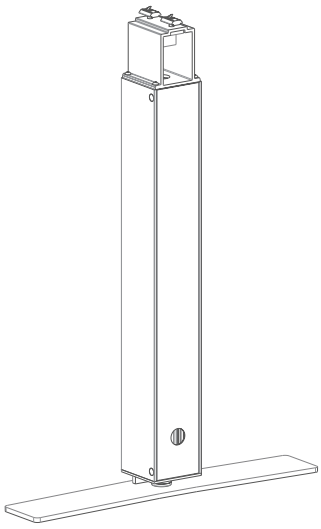
9. Level Foot (I) and adjust Glide (J).

10. Tighten Stabilizer foot (K) to Leg (E) with Screws (J).

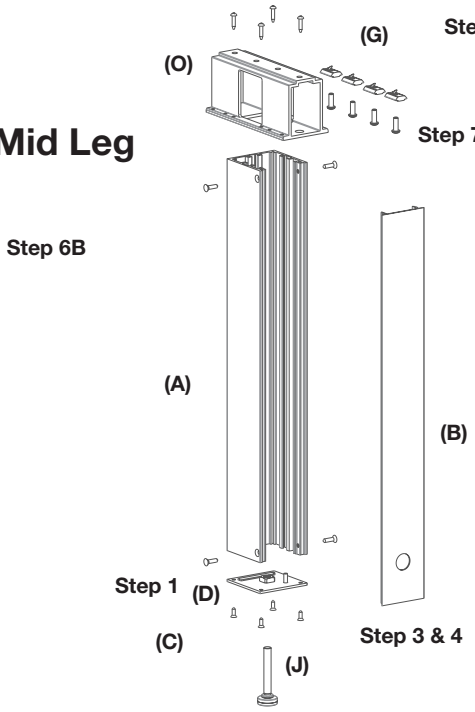
11. Snap Cover (B) onto Leg (A) and secure with Screws (M).

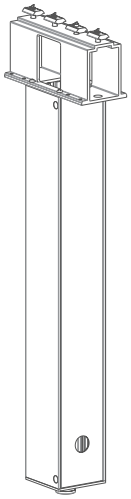
Square End Leg for NYC





Square Mid Leg for NYC

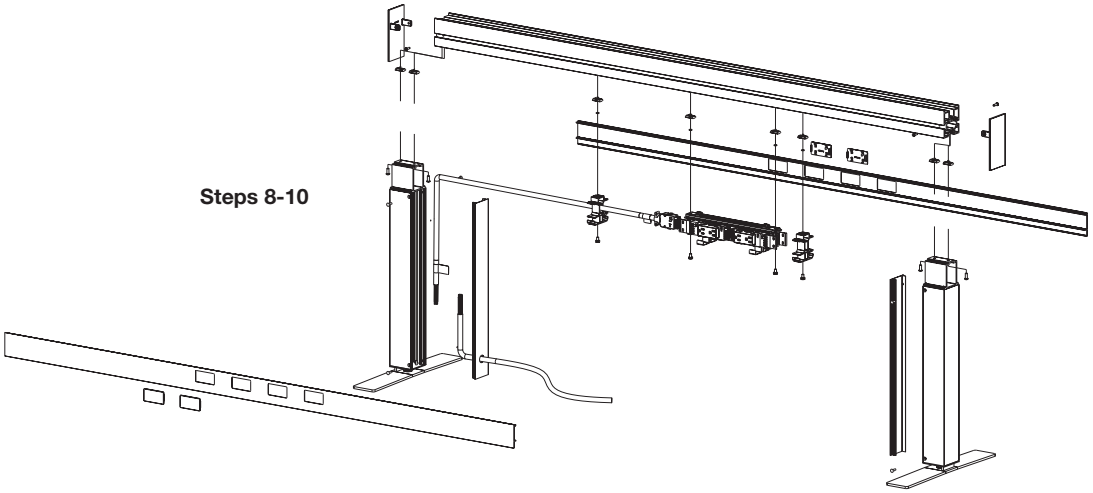




New York Electrical Assembly

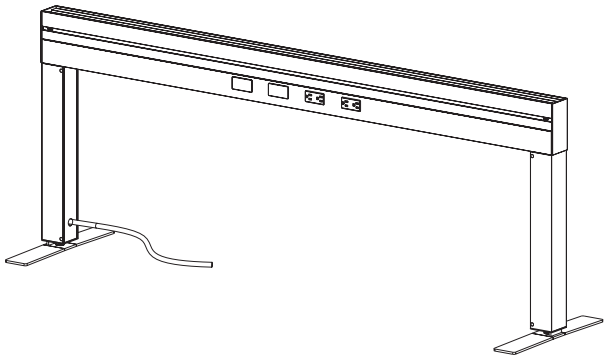
Note: holes in (B) and (E) are sized for Conduit connector. To be provided by electrition.

Steps 8-10

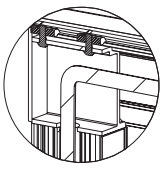


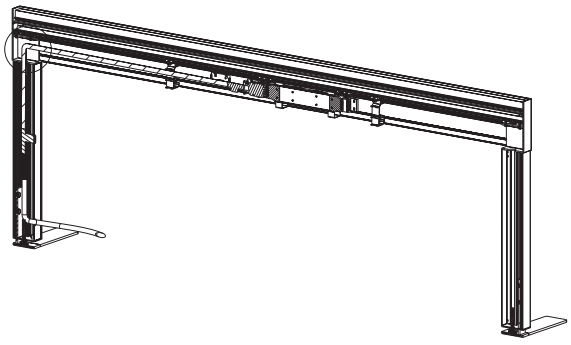
New York Electrical Assembly, Section View

Step 11



New York Electrical Assembly, Section View





Beam Starter for Perpendicular Beams

Pattern Numbers Represented:

Beam starter, YNSBBS

Parts List:

“T” junction bracket (A)
Machine screw, type F, 10-24x.75 (B)
Spring nut (C)
Machine screw, 10-24 x .75 (D)

Tools Needed:

#2 Philips bit
Power driver

(A) 3AJ1022

(B) 3AJ4077

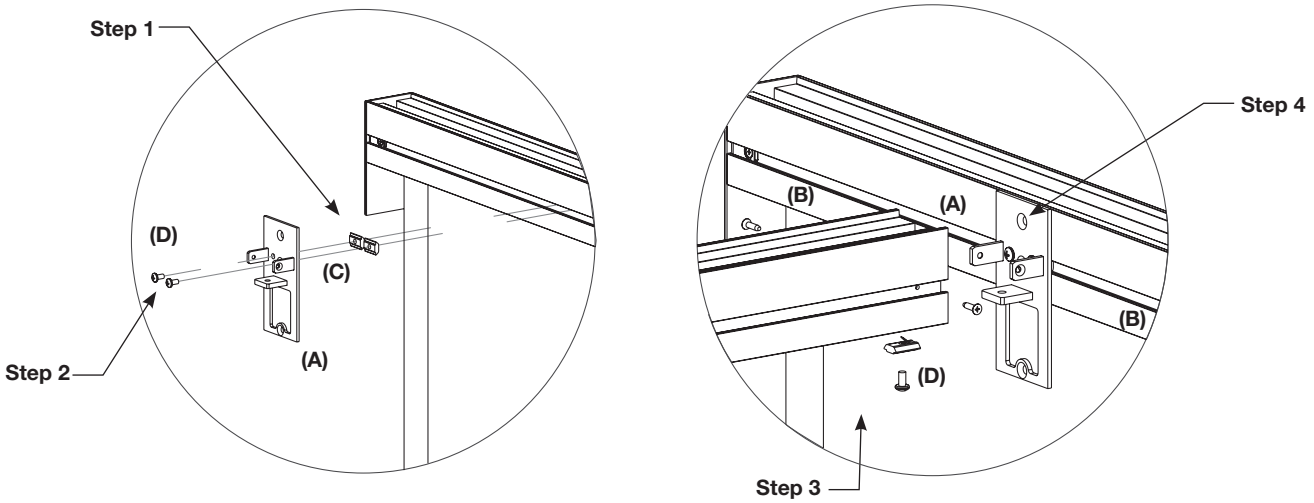
(C) 3AB4021

(D) 3AB4066

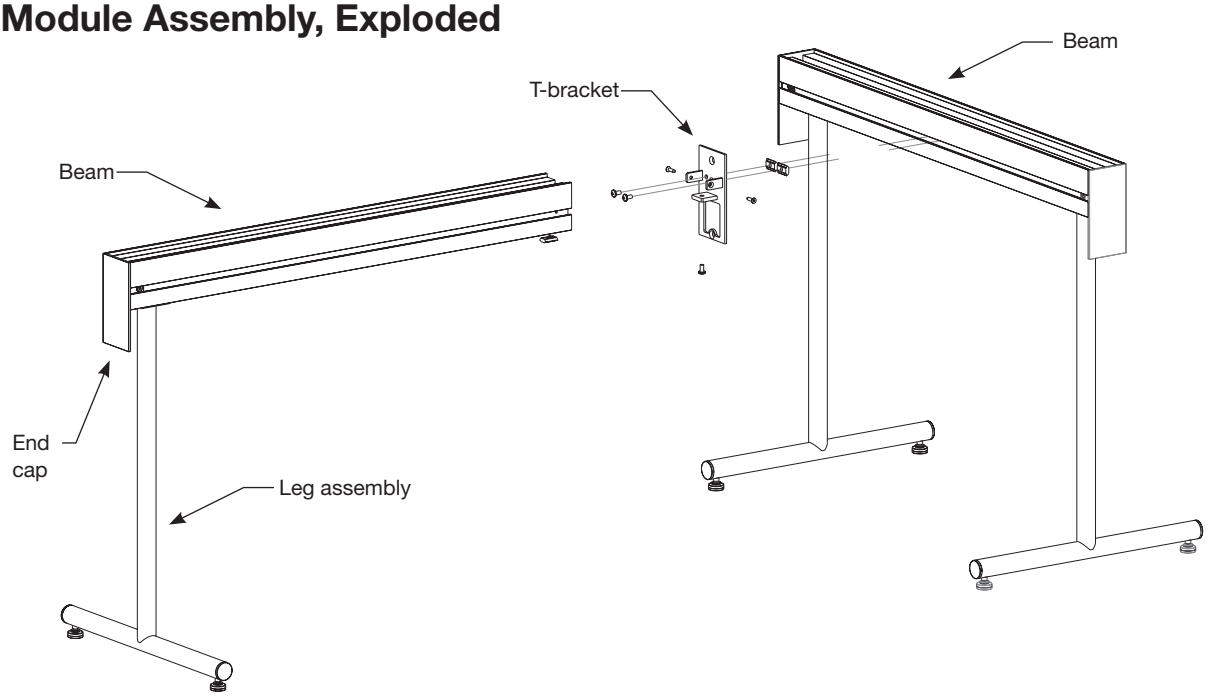
Steps

1. Install (2) Spring nuts (C) into side of Beam.
2. Attach T-bracket (A) using Screws (D).
3. Prepare other Beam by inserting 1 Spring nut (C) into bottom of Beam towards end. *Note: All Beams should have support legs or storage installed prior to connection.*
4. Connect Beam to T-bracket (A) with two Screws (B) into pre-drilled holes on sides of Beam. Secure bottom of Beam with Screw (D).

Off Module Connection, Exploded



Off Module Assembly, Exploded



Beam to Antenna Rail Support Adapters

Pattern Numbers Represented:

YNSBAR

Parts List:

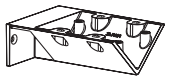
Sheet metal screw, flat head Phillips, #14 x 1 (A)
Cradle (B)
Cradle clamp bracket (C)
Spring nut (D)
Machine screw, flat head Phillips, M6 x 14mm (E)
Machine screw, flat head Phillips, 1/4-20 x .625 (F)
Antenna desk end leg for Desk or Return
Antenna starter rails with End caps
Power beam assembly

Tools Needed:

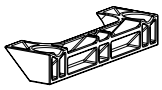
#2 Phillips bit
#3 Phillips bit
4mm Hex bit
Power driver
9/16 Open wrench

(A) 7434100

(B) 3AJ4004



(C) 3AB4007



(D) 3AB4021

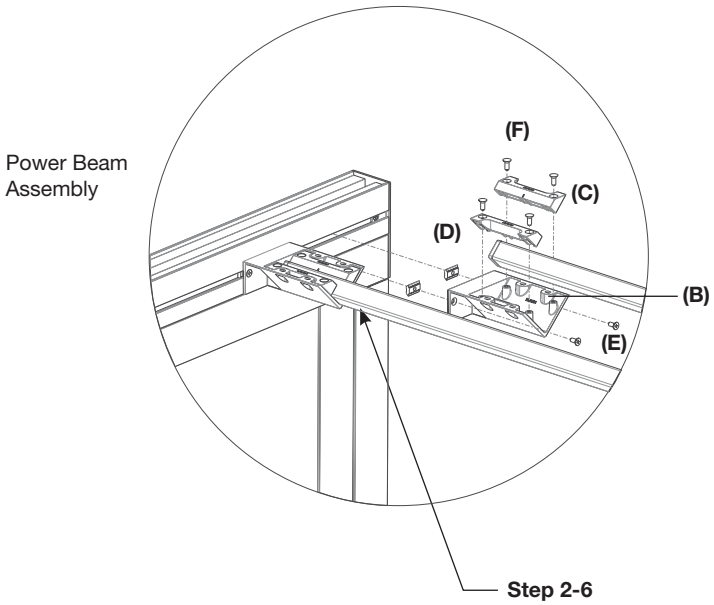
(E) 3AB4056

(F) 7189140

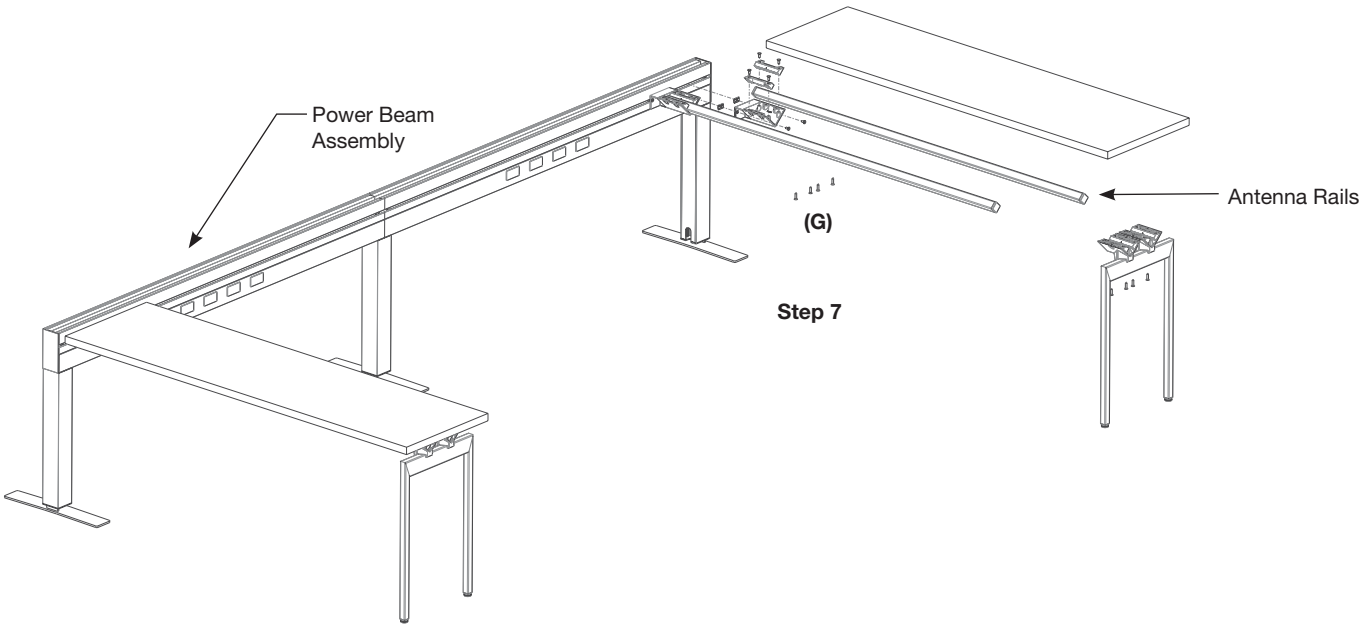
Steps

1. Assemble Antenna desk End leg according to Antenna Workspaces Installation Instructions, and set the leg assembly aside.
2. Insert (2) Spring nuts (D) into the side slot of the power beam assembly. Space the Spring nuts so they are the same distance apart from one another as are the brackets on the End leg assembly (centerline dimension).
3. Place Cradles (B) on Beam and attach with Screws (E). Do not tighten to allow for minor adjustment.
4. Position the Antenna desk end leg assembly upright and join to the Power beam by inserting Rail ends into the two Cradles (B).
5. Attach (2) Cradle clamp brackets (C) to each Cradle (B) using Screws (F).
6. Tighten Cradles to Power beam and Screws (E) from step 3.
7. Place desk top on Base assembly and attach using Screws (G) through Cradle (B). *Note: Spacing between Power beam assembly and Desktop is 1-1/4".*
8. Follow Antenna Workspaces Installation Instructions guidelines regarding required worksurface to rail support spacers.
9. Adjust Power beam and Antenna Glides as needed for levelling.

Beam to Antenna Rail Connection, Exploded



Power Beam to Antenna Rail Connection



Step 7