

Installation and Assembly Instruction Guide

Bookmark

Charleston

SST Tables

Checkmate

Definitions

Vector Tables

Heritage

Lexington

Floating Vector Tables

Malibu

Metro

Workspace Tables

31 Series

Revaes

Z-Tables

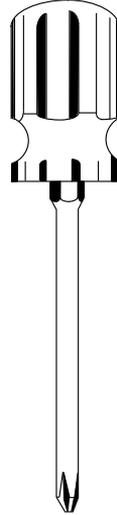
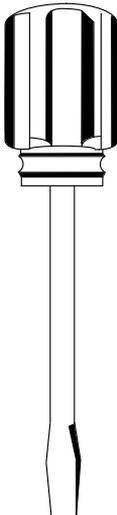


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Wood Frame Shelving

Single Faced

Bookmark • Metro • Transit • Checkmate

Twist • Lexington • Charleston

Heritage • Malibu

Bookcases - shelving per unit	
Dimension	# of shelves
30" H	1 adjustable
36" H	2 adjustable
42" H	2 adjustable
48" H	2 adjustable
60" H	3 adjustable
72" H	4 adjustable
84" H	5 adjustable
90" H	6 adjustable



Assemble units only as described in this guide.
All screws, nuts & bolts and other fasteners must
be tightened securely and checked regularly.
Failure to do so could cause instability and injury.

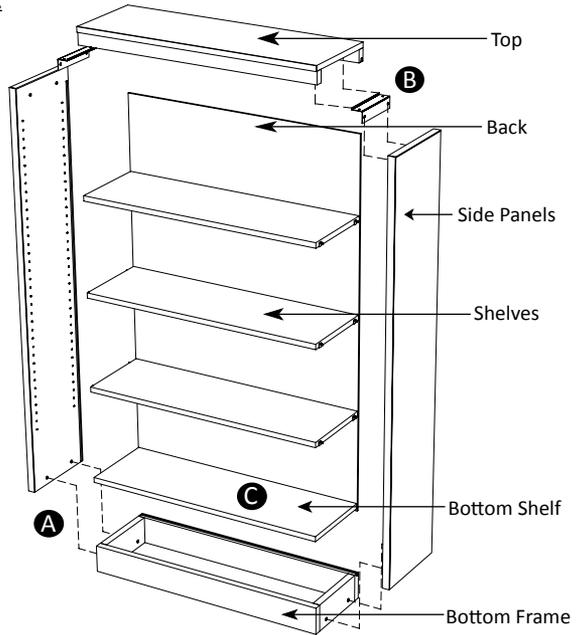
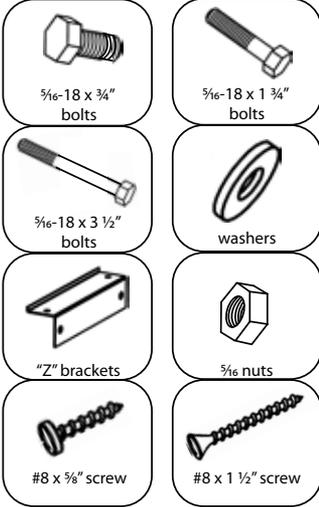
Wood Frame Shelving, Single Faced

Tools Required:

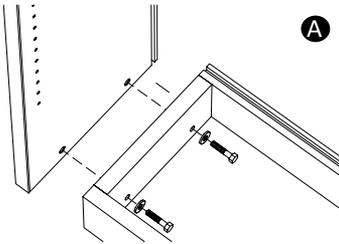
Two 5/16 wrenches
Phillips head screwdriver

General Assembly:

Parts Included:



ATTENTION: UNITS ARE ASSEMBLED STANDING UP



A

STEP 1 - Attaching the bottoms to the sides

For Initial Bookshelf Unit:

Attach the bottom frame to one end panel with the (4) $5/16-18 \times 1\frac{3}{4}$ " bolts and washers.

- Save second end panel for the end of run- if assembling stand alone unit attach second end panel now.
- Position bottom frame with groove facing up and align with groove in side panel.

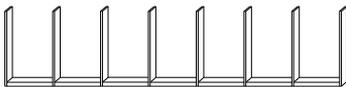
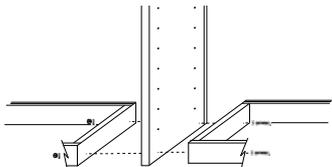


Special applications may require shelving unit be floor-anchored. Failure to do so could cause instability and injury.

For Adder Units:

Attach one bottom frame to the intermediate panel and the next bottom frame with $5/16-18 \times 3\frac{1}{2}$ " bolts and washers

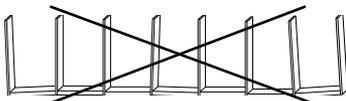
- Grooves on all initial and adder units should be installed toward the bookshelf back.



Lay out all initial, adder and end units but

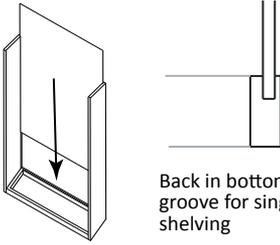
DO NOT tighten bolts, yet.

- All bottoms **must** be level relative to each other shim if necessary.



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Wood Frame Shelving, Single Faced

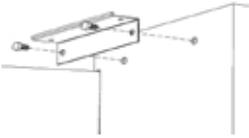


Back in bottom frame groove for single-sided shelving

STEP 2 - Attaching the backs

Slip the back into the grooves in the side panels and bottom frame. The side panels will push outward because the bolts on the bottom frame are not tightened.

- Start sliding the back into the groove at a height in which the width of the back will fit in the grooves so as not to scratch the side panels.



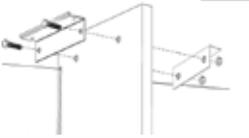
STEP 3 - Attaching the "Z" brackets

B

(For units taller than 72" skip to STEP 5)

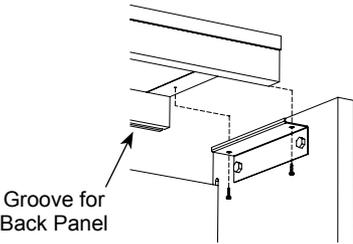
For Initial Bookshelf Unit:

Loosely attach the (2) "Z" brackets to the sides using the (4) $\frac{5}{16}$ -18 x $\frac{3}{4}$ " bolts.



For Adder Units:

Use (2) $\frac{5}{16}$ -18 x $1\frac{3}{4}$ " bolts and nuts to bolt through both "Z" brackets on either side of each end panel



STEP 4 - Attaching the tops

Properly position the top slightly below top edge of side panels and fasten it to the "Z" brackets using the (4) #8 x $\frac{5}{8}$ " screws.

- A groove in the rear valance of a single-sided top captures the back panel.
- Make sure back edge of top is flush with back edge of end panel

For Attaching Common Tops: See separate instruction sheet insert

Note: Common tops span multiple bookcases and a slightly modified bookcase design is used for units receiving common tops.

- End panels do not receive edgbanding on top edge.
- End panels will have threaded inserts near top edge for attaching the valance box.

For single faced units, common top aligns flush with back of unit and overhangs on front and side edges.

Note: Common tops for longer runs of bookcases may be manufactured in sections. Sectioned tops will be assembled using tight joints and splines.



Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

Wood Frame Shelving, Single Faced

(For units 72" and shorter skip to STEP 7)

STEP 5 - Attaching "Z" brackets - units taller than 72"

For Initial Bookshelf Unit:

The smallest arm of the "Z" bracket should be pointing down as you screw it LOOSELY to the end panels using the $\frac{5}{16}$ -18 x $\frac{3}{4}$ " bolts.

- There are 2 "Z" brackets on single-sided units

For Adder Units:

Use (2) $\frac{5}{16}$ -18 x $\frac{3}{4}$ " bolts and nuts to bolt through both "Z" brackets on either side of each end panel.

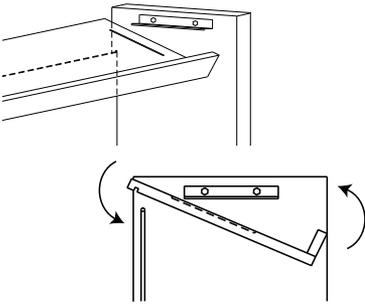
STEP 6 - Attaching the tops to units taller than 72"

Angle the back of the top higher than the front to slide it under the "Z" brackets and over the back panel.

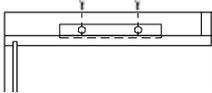
Lower the back of the top so the groove in the rear cornice of a single-sided top captures the back panel. At the same time, raise the front of the top so that the "Z" brackets slip into the grooves on either end of the top of the top.

Screw into place using the (4) #8 x $\frac{5}{8}$ " screws.

Make sure the back edge of the top is flush with the back edge of the end panels then tighten the $\frac{5}{16}$ -18 bolts.



FLUSH
then tighten
hex bolts
LAST



REMEMBER
STEP 7

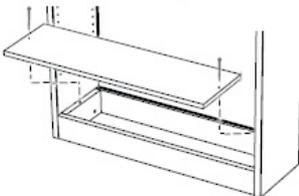
STEP 7 - Now tighten all bolts!

Go back and tighten all bolts from previous steps.



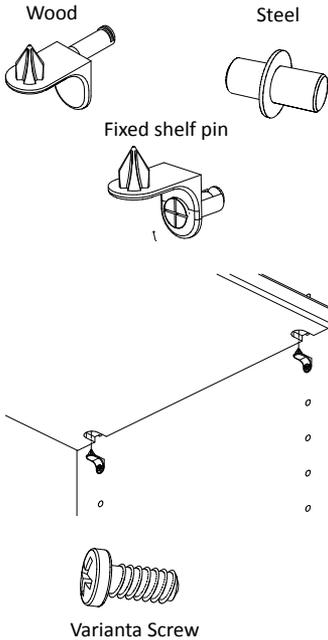
STEP 8 - Attaching the bottom shelf

Position the bottom shelf onto the toe frame with the back edge flush to the back panel and the finished front edge slightly overhanging the front of the toe frame. Screw down using the (2) #8 x $1\frac{1}{2}$ " screws. Toe frames are pre-drilled to receive the screws.



Assemble units only as described in this guide.
All screws, nuts & bolts and other fasteners must
be tightened securely and checked regularly.
Failure to do so could cause instability and injury.

Wood Frame Shelving, Single Faced



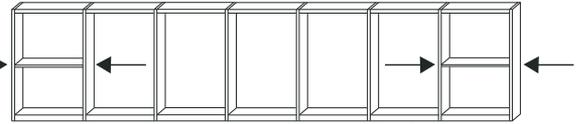
STEP 9 - Installing shelves

For wood shelves: Slip round pin of shelf clips into appropriate line holes in side panels and lower shelf into place so pointed portion of shelf clip is inserted into pre-drilled holes on underside of shelf.

For steel shelves: Slip shouldered pins into aligned holes in side panels and install shelves (4 pins per shelf).

For fixed wood shelves on units 60" and taller:

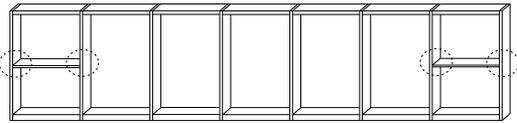
On shelving units 60" and taller, a fixed shelf will be installed at the beginning and end of the run (as shown below). Fixed shelves will receive (4) fixed shelf supports per shelf that have a swing out cam. Fixed shelves should be placed mid-height of bookcase and attached to the end and intermediate panels. One fixed shelf should be used on each side of double faced units.



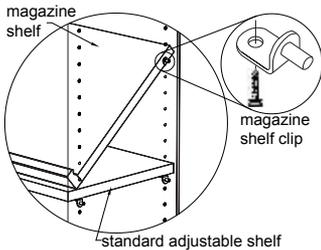
Locate fixed shelves mid-height on each end of shelving run and attach using (4) short cam studs per shelf

For fixed steel shelves on units 60" and taller:

Substitute (4) Varianta screws for standard steel shelf pins on a middle shelf of the book case at each end of a run



2 Varianta screws on each end of shelf



STEP 10 - Installing magazine shelves

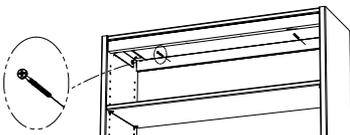
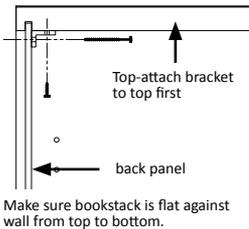
Note: There is one less magazine/standard shelf combo per face than on a similar height standard shelving unit.

Insert one shelf clip into pre-drilled hole in underside of magazine shelf far enough forward so that shelf can rotate freely and secure with a small screw (#8 X 5/8" or equiv.) Place post of shelf clip into appropriate line hole. Now place post of second shelf clip into appropriate line hole on other side and position shelf onto clip. Attach second clip to underside of shelf.

NOTE FOR STABILITY:

For single faced units 84" and taller, an angle bracket is provided for attaching the bookstack to a wall. **The bracket should be aligned to screw into a support or stud.** Next, position bracket with the longer tab against the underside of the top of the bookcase and make sure the shorter tab is flat against the back of the bookcase. Screw bracket into top of bookcase first using #8 X 5/8" PH screws, then screw into the wall through the back panel using the appropriate anchor for the wall type.

For all single faced units up to 72", secure bookcase to wall by screwing through the valance into the wall using using the appropriate anchor for the wall type.



Wood Frame Shelving

Double Faced

Bookmark

Metro

Transit

Checkmate

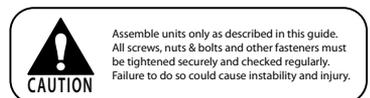
Twist

Lexington

Charleston

Heritage

Malibu



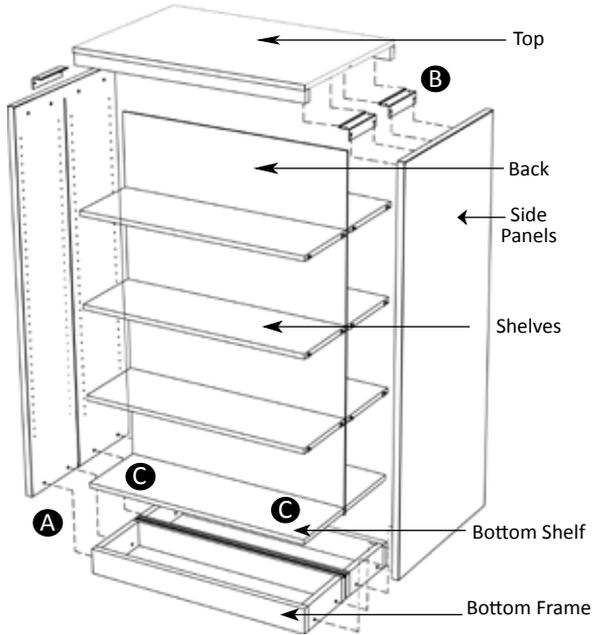
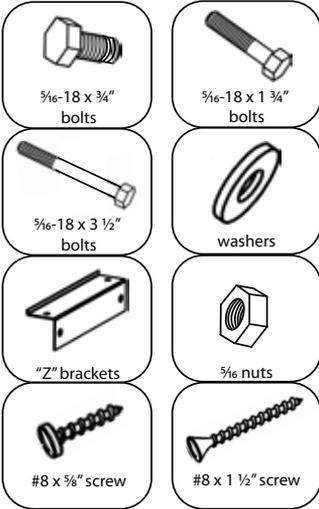
Wood Frame Shelving, Double Faced

ATTENTION: UNITS ARE ASSEMBLED STANDING UP

Tools Required:

Two 5/16 wrenches
Phillips head screwdriver

Parts Included:



STEP 1 - Attaching the bottoms to the sides

For Initial Bookshelf Unit:

Attach the bottom frame to one end panel with the (4) 5/16 -18 x 1 3/4" bolts and washers.

- Save second end panel for the end of run- if assembling stand alone unit attach second end panel now.
- Double faced units- Use two bottom frames with groove facing up, and unfinished edges face to face. The seam between them aligns with groove in side panel.

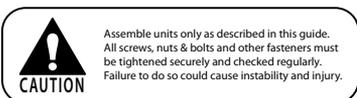
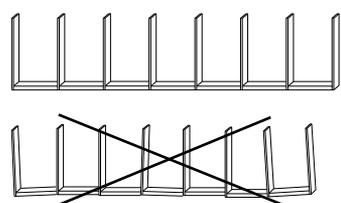
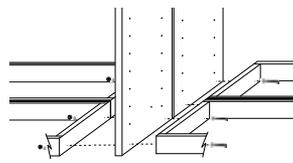
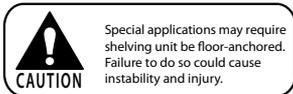
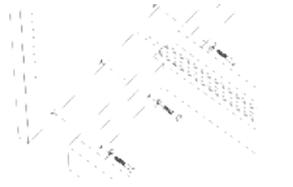
For Adder Units:

Attach two bottom frames to the intermediate panel and the next two bottom frames with 5/16 -18 x 3 1/2" bolts, nuts and washers

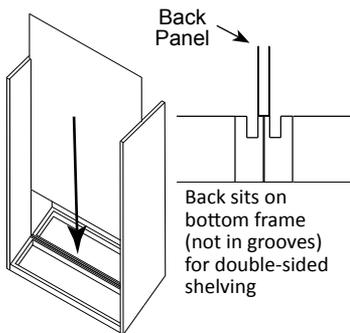
- The seam between two bottom frames aligns with groove in side panel.

*Lay out all initial, adder and end units but **DO NOT** tighten bolts, yet.*

- All bottoms **must** be level relative to each other- shim if necessary.



Wood Frame Shelving, Double Faced

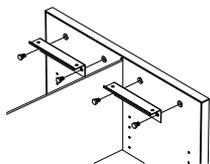


STEP 2 - Attaching the backs

(For units taller than 72" skip to STEP 5)

Slip the back into the grooves in the side panels and lower onto the top of the bottom frame. The back on double units is captured by the bottom shelves, not the grooves in the bottom frame. Therefore these backs are $1\text{-}\frac{7}{16}$ " shorter than singles.

- The side panels will push outward because the bolts on the bottom frame are not tightened. Start sliding the back into the groove at a height in which the width of the back will fit in the grooves so as not to scratch the side panels.



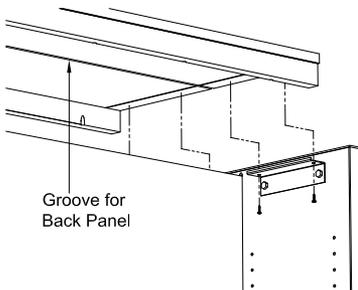
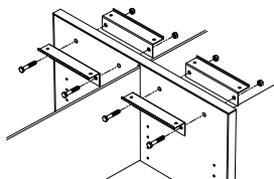
B STEP 3 - Attaching the "Z" brackets

For Initial Bookshelf Unit:

Loosely attach the (4) "Z" brackets to the sides using the (4) $\frac{5}{16}$ -18 x $1\frac{3}{4}$ " bolts.

For Adder Units:

Use (2) $\frac{5}{16}$ -18 x $1\frac{3}{4}$ " bolts and nuts to bolt through both "Z" brackets on either side of each end panel



STEP 4 - Attaching the tops

Properly position the top slightly below top edge of side panels and fasten it to the "Z" brackets using the (8) #8 x $\frac{5}{8}$ " screws.

- A groove in the center of a double-sided top captures the back panel.

For Attaching Common Tops: See separate instruction sheet insert

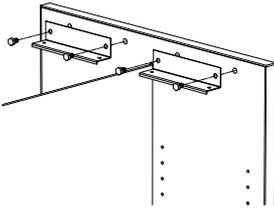
Note: Common tops span multiple bookcases and a slightly modified bookcase design is used for units receiving common tops.

- End panels do not receive edgebanding on top edge.
- End panels will have threaded inserts near top edge for attaching the valance box.

For double faced units, common top overhangs on all four edges.

Note: Common tops for longer runs of bookcases will be manufactured in sections. Sectioned tops will be assembled using tight joints and splines.

Wood Frame Shelving, Double Faced



STEP 5 - Attaching "Z" brackets - units taller than 72"

(For units 72" and shorter skip to STEP 7)

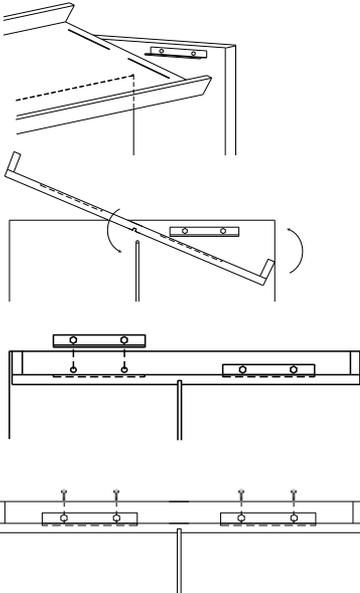
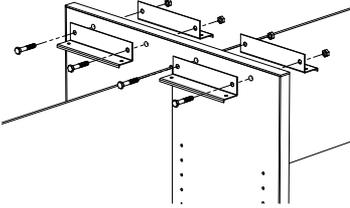
For Initial Bookshelf Unit:

The smallest arm of the "Z" bracket should be pointing down as you screw it LOOSELY to the end panels using the $\frac{5}{16}$ -18 x $\frac{3}{4}$ " bolts.

- There are 4 "Z" brackets on double-sided units

For Adder Units:

Use (2) $\frac{5}{16}$ -18 x $1\frac{3}{4}$ " bolts and nuts to bolt through both "Z" brackets on either side of each end panel. Do this on only one side of all double sided bookstacks.



CENTER then tighten bolts LAST

STEP 6- Attaching the tops to units taller than 72"

Angle one front edge of the top higher than the other slide it under the "Z" brackets and over the back panel.

Lower one front edge of the top so the groove in the middle of the double-sided top captures the back panel. At the same time, raise the other front edge of the top so that the "Z" brackets slip into the grooves on either end of the top of the top.

Now LOOSELY screw on the other 2 "Z" brackets to the double side of the bookstack using the $\frac{5}{16}$ -18 x $\frac{3}{4}$ " bolts.

- Make sure to slide "Z" bracket into groove in top.

Screw all 4 "Z" brackets into place using the (4) #8 x $\frac{5}{8}$ " screws.

Make sure the top is centered over both sides of the book stack then tighten the $\frac{5}{16}$ -18 bolts.



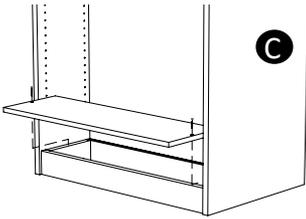
REMEMBER
STEP 7 →

STEP 7- Now tighten all bolts and brackets!



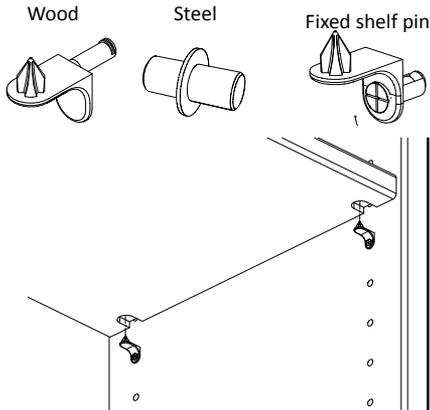
Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

Wood Frame Shelving, Double Faced

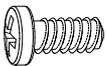
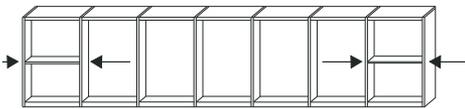


STEP 8 - Attaching the bottom shelf

Position the bottom shelf onto the toe frame with the back edge flush to the back panel and the finished front edge slightly overhanging the front of the toe frame. Screw down using the (2) #8 x 1 1/2" screws. Toe frames are pre-drilled to receive the screws.



Fixed adjustable shelf receives routed grooves to accept fixed shelf pin



Varianta Screw

End panels will bow if fixed shelves are not installed. Failure to install per instructions could result in void of warranty.

STEP 9 - Installing shelves

For wood shelves: Slip round pin of shelf clips into appropriate line holes in side panels and lower shelf into place so pointed portion of shelf clip is inserted into pre-drilled holes on underside of shelf.

For steel shelves: Slip shouldered pins into aligned holes in side panels and install shelves (4 pins per shelf). Make sure shoulder is between shelf and end panel.

For fixed wood shelves on units 60" and taller:

On shelving units 60" and taller, a fixed shelf will be installed at the beginning and end of the run (as shown below). Fixed shelves will receive (4) fixed shelf supports per shelf that have a swing out cam. Fixed shelves should be placed mid-height of bookcase and attached to the end and intermediate panels. One fixed shelf should be used on each side of double faced units.

Locate fixed shelves mid-height on each end of shelving run and attach using (4) fixed shelf supports per shelf.

For fixed steel shelves on units 60" and taller:

Substitute (4) Varianta Screws for standard steel shelf pins on a middle shelf of the book case at each end of the run. One fixed shelf should be installed on each side of double unit. Install Varianta Screw w/ #2 Pozi Drive.

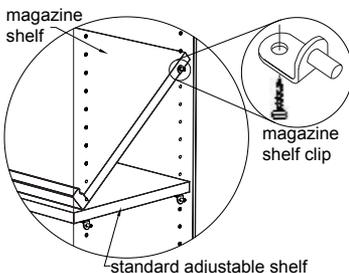
For fixed shelves on mobile units:

Install fixed wood or steel shelves as indicated above, but only one fixed shelf is required per mobile unit, not at each end of run as required above.

STEP 10 - Installing magazine shelves

Note: There is one less magazine/standard shelf combo per face than on a similar height standard shelving unit.

Insert one shelf clip into pre-drilled hole in underside of magazine shelf far enough forward so that shelf can rotate freely and secure with a small screw (#8 x 5/8" or equiv.) Place post of shelf clip into appropriate line hole. Now place post of second shelf clip into appropriate line hole on other side and position shelf onto clip. Attach second clip to underside of shelf.



Steel Frame Shelving

31 Series

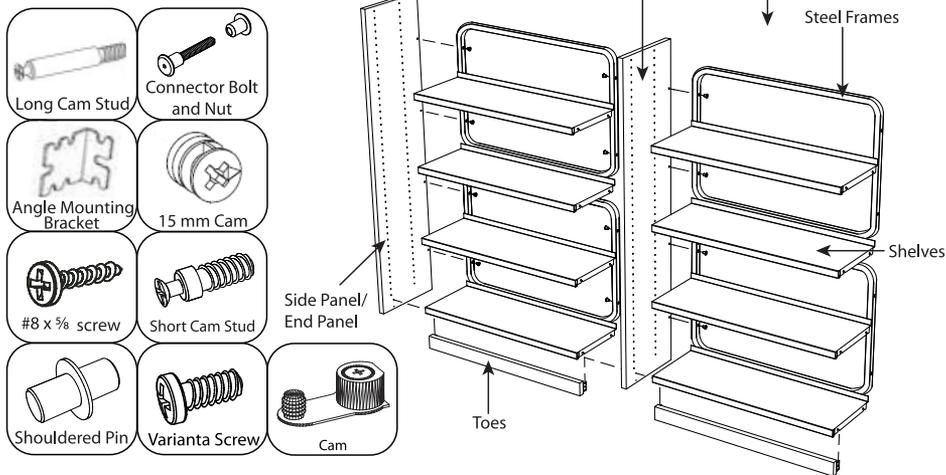
Revaes

Bookcases - shelving per unit	
Dimension	# of shelves
30" H	1 adjustable
36" H	2 adjustable
42" H	2 adjustable
48" H	2 adjustable
60" H	3 adjustable
72" H	4 adjustable
84" H	5 adjustable
90" H	6 adjustable



Assemble units only as described in this guide.
All screws, nuts & bolts and other fasteners must
be tightened securely and checked regularly.
Failure to do so could cause instability and injury.

Steel Frame Shelving

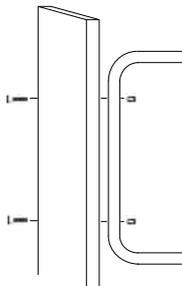


Steel Frames- see STEP 1a
Back Panels- see STEP 1b

STEP 1a- Attaching side panels to steel frames For Starter Units:

Attach the tubular steel frames to an end panel using the shorter ($1\frac{3}{4}$ ") connector bolt and nut

- Make sure shelf pin hole lines face in towards shelves
- Single-sided units have specific right and left end panels
- Single and Double-sided units 48" and shorter use 1 tubular frame
- Single and Double-sided units over 48" use 2 tubular frames
- One person assembly can be started on the floor



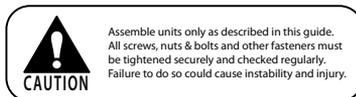
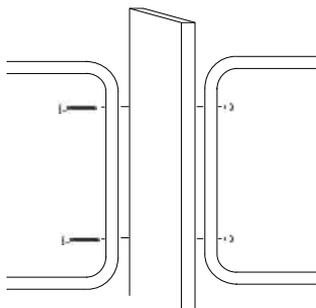
For Adder Units:

Bolt through one steel frame, then an intermediate panel, then the next steel frame with the longer ($2\frac{3}{4}$ ") connector bolt and nut

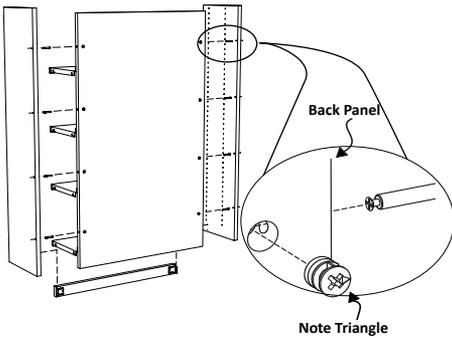
- For easier one person assembly you can attach steel frame(s) to end panel and first intermediate panel on the floor. Next attach toes (next page) then stand unit upright before adding additional frames and panels

Lay out all initial, adder and end units but
DO NOT tighten bolts, yet.

- All bottoms **must** be level relative to each other- shim if necessary.



Steel Frame Shelving



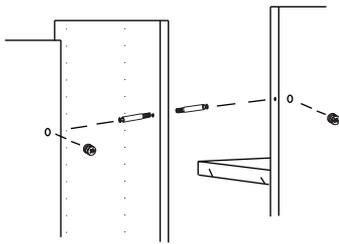
STEP 1b – Attaching side panels to back panels

For Starter Units:

Screw the long cam studs into the 5 mm holes bored along the inside face near the rear edge of a single end panel.

- For Double-sided units the 5 mm holes are bored in the center of the end panels

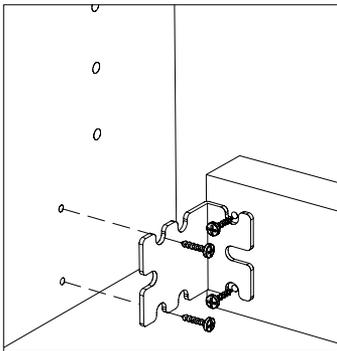
Drop the 15 mm cam into the pre-bored holes in the back panel (**make sure the triangle on the cam points toward the side panel and long cam stud it's tightening**) then twist cam about $\frac{1}{4}$ turn clockwise to tighten.



For Adder Units:

Screw the long cam studs into both sides of an intermediate panel.

Drop the 15 mm cam into the pre-bored holes in the back panel (**make sure the triangle on the cam points toward the side panel and long cam stud it's tightening**) then twist cam about $\frac{1}{4}$ turn clockwise to tighten.

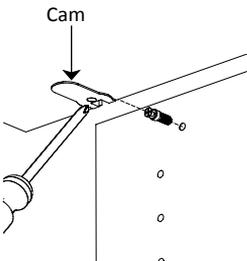


STEP 2 - Attaching the Toes

Screw the toe/bracket assembly to the side panels using the #8 x $\frac{5}{8}$ " screws.

Then attach the angle mounting brackets to either end of the rear face of the toes by screwing the #8 x $\frac{5}{8}$ " screws.

- Toes will be offset to the inside of the front edge of the side panels but should be flush with the bottom of the panel.
- One toe is provided for single unit and two toes are provided for each double-sided unit



STEP 3 - Attaching the Tops

Screw the short cam studs into every pre-bored 5mm holes at the top of each face of each side panel.

- 2 holes in a single end panel, 4 holes in a single intermediate panel or double-sided end panel, 8 holes in an double-sided intermediate panel

Insert cams into pre-drilled holes in top, then align cams onto the studs and tighten the cam about $\frac{1}{4}$ turn clockwise.

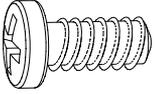
- Make sure the unfinished edge of a single top faces to the rear



Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

Steel Frame Shelving

STEP 4 - Installing Fixed Shelves in units 60" and taller (For Units shorter than 60" skip to STEP 5)



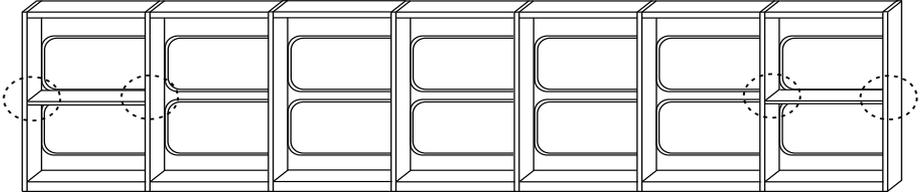
Varianta Screw



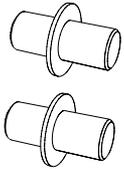
VARIANTA SCREWS MUST BE INSTALLED ON TALLER UNITS

Shouldered pins must be replaced with Varianta screws on mid-height shelves of the bookcases at both ends of a run

Note: Units not using the optional tops must also substitute Varianta screws for the top shelf at the beginning and end of a run.



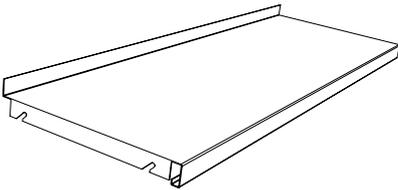
2 Varianta screws on each end of shelf



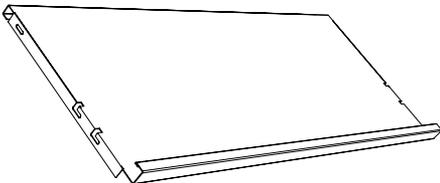
STEP 5 - Installing Shelves

Slip shouldered pins into aligned holes in side panels and install shelves (4 pins per shelf)

- Pins in bottom line holes will hold the bottom shelf just above the toe



Standard 31 Series Shelf



31 Series Magazine Shelf

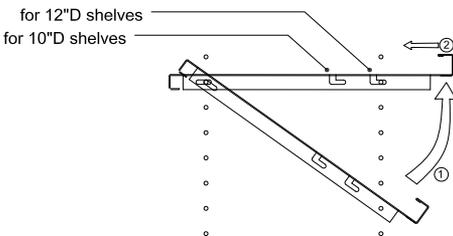
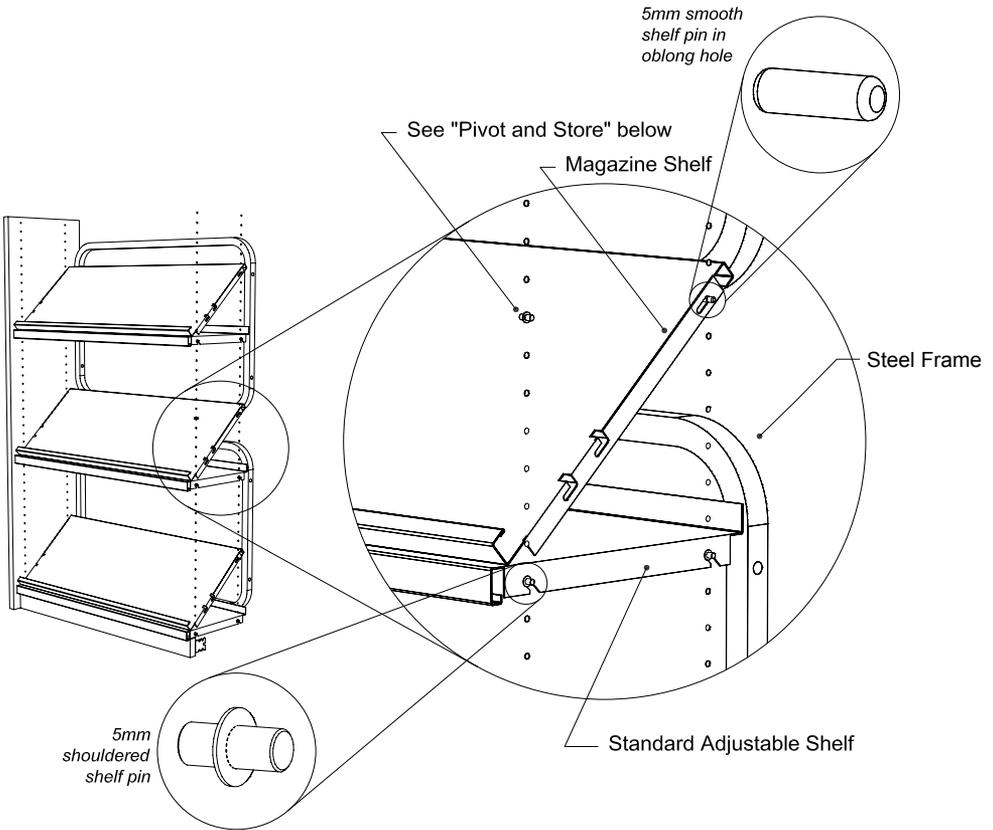


31 Series Magazine Shelf

Installing magazine display shelf

Install standard adjustable shelf as usual and then rest magazine shelf on top of it.

Lift rear of shelf to desired tilt angle and slip smooth 5 mm shelf pins through the pivot slots in the rear of each side flange.



Pivot and Store Feature

To use the pivot and store feature, just place two shelf pins in the two line holes opposite the smooth shelf pins that act as pivots for the magazine shelf.

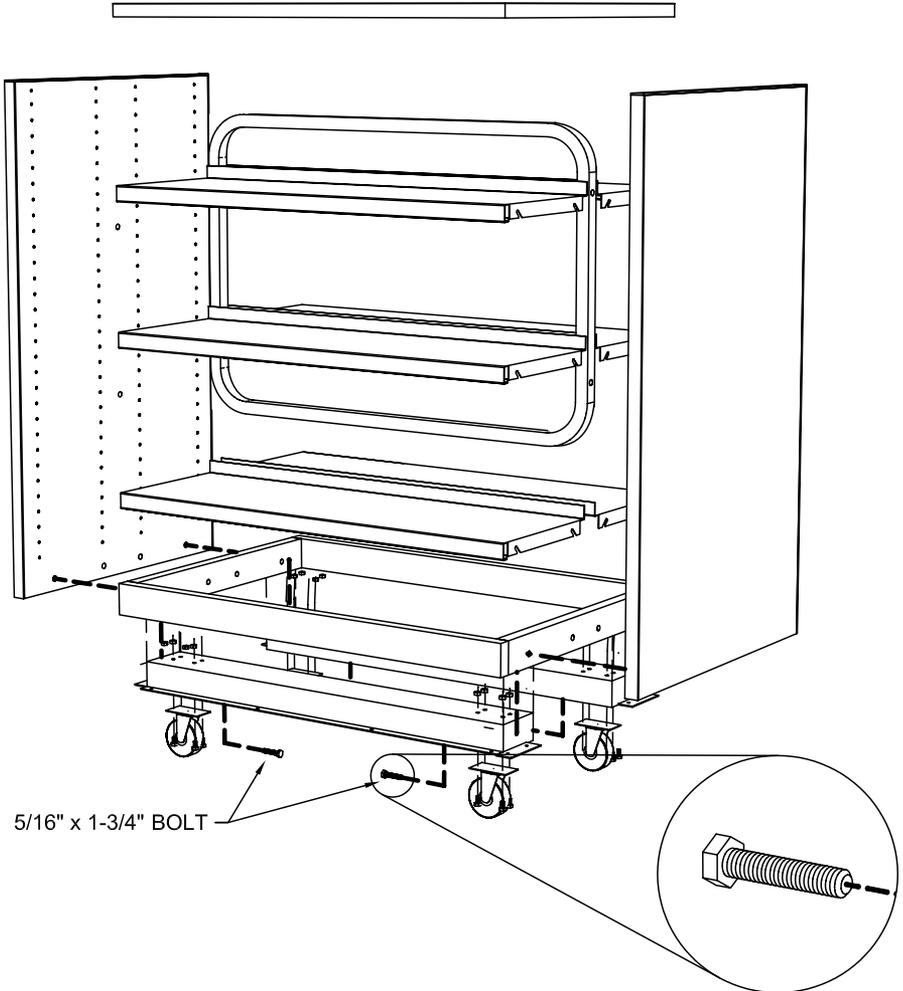
- (1) Swing the shelf up so the additional shelf pins slip through one of the "L" shaped slots in the side flanges
- (2) Push the shelf back to hold in place



Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

31 Series Mobile Shelving

- Mobile 31 Series shelving is assembled in the same manner as standard, non-mobile 31 Series shelving with the exception of the toes.
- Individual toes and brackets are replaced by a toe frame, shipped assembled with casters and metal caster support frames.
- To assemble, simply bolt through the metal caster frame and toe frame into the threaded inserts at the bottom of the side panels using the $\frac{5}{16}$ " x $1 - \frac{3}{4}$ " bolts provided.



Carrel - Panel End

Bookmark

Metro

Checkmate

Twist

Heritage

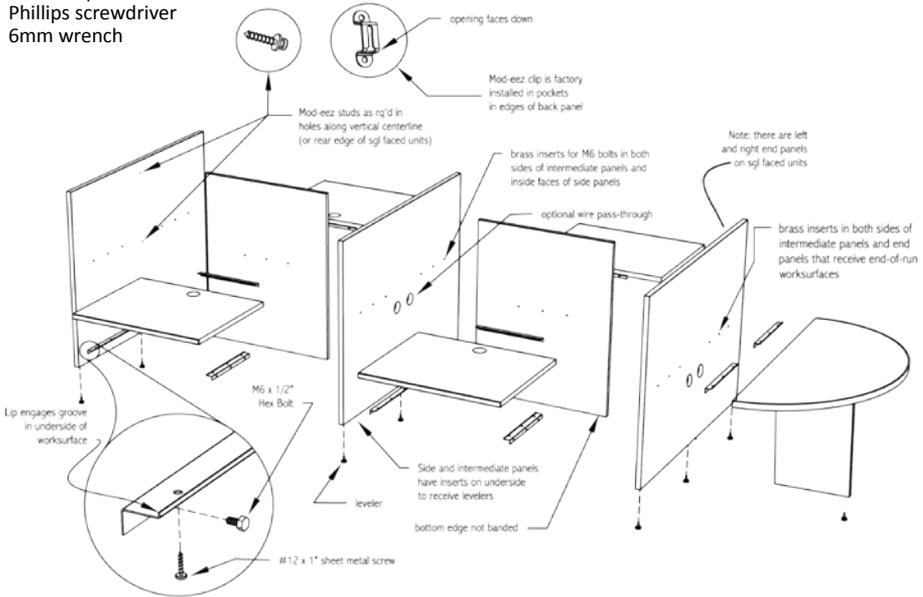
Malibu



Assemble units only as described in this guide.
All screws, nuts & bolts and other fasteners must
be tightened securely and checked regularly.
Failure to do so could cause instability and injury.

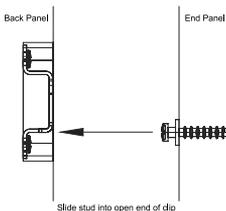
Panel End Carrel

Tools Required:
Phillips screwdriver
6mm wrench



STEP 1 - Attaching levelers

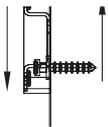
Screw levelers into the 8mm banded bottom edge of all end and intermediate panels. Actually level carrels last, once assembled.



STEP 2 - Attaching end and intermediate panels to back panels

Screw Mod-eez studs into holes in vertical center line of double end/intermediate panels or back edge of single end/intermediate panels.

Slide Mod-eez studs into factory installed Mod-eez clips on either end of back panels.

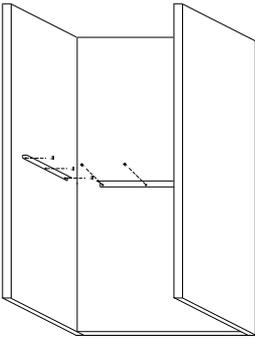


lap back panel with clip down
panel with stud up) to engage



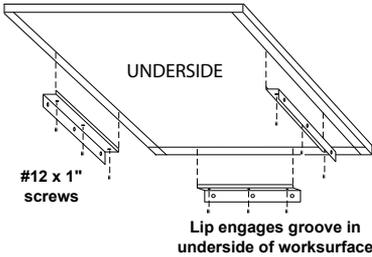
Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

Panel End Carrel



STEP 3 - Attaching Angle Brackets

Screw M6 x 1/2" bolts through "Z" bracket into brass inserts in end/intermediate panels finger tight only for now.

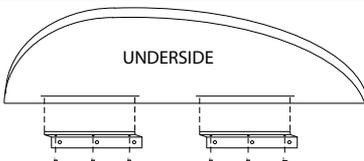


STEP 4 - Attaching Worksurfaces

Position the worksurface onto the "Z" brackets. Make sure the short end of the "Z" bracket sits in the groove. Screw angle brackets to the underside of the worksurface using #12 x 1" screws. Tighten bolts from Step 3.

STEP 5 - Leveling Carrels

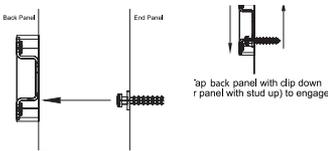
Adjust levelers up or down depending on need in order to level carrels.



RADIUS CARREL WORKSURFACE

STEP 1 - Attach angle brackets

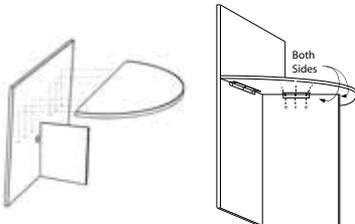
Attach angle brackets by screwing M6 x 1/2" bolts through "Z" bracket into brass inserts in end panel finger tight only for now.



STEP 2 - Attach panel leg to end panel

Screw Mod-eez studs into holes in verticle center line of double end panels.

Slide Mod-eez studs into factory installed Mod-eez clips on end of panel leg.



STEP 3 - Attach Radius Worksurface

Position worksurface onto angle brackets. Screw angle brackets to the underside of the worksurface using #12 x 1" screws. Tighten bolts from Step 1.

STEP 4 - Connect Radius Worksurface to Panel Leg

Screw the 2 "Z" brackets to both the panel leg and the under side of the worksurface on both sides of panel leg.



Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

Carrel - Hex

Bookmark

Definitions

Metro

Transit

Checkmate

Twist

Lexington

Charleston

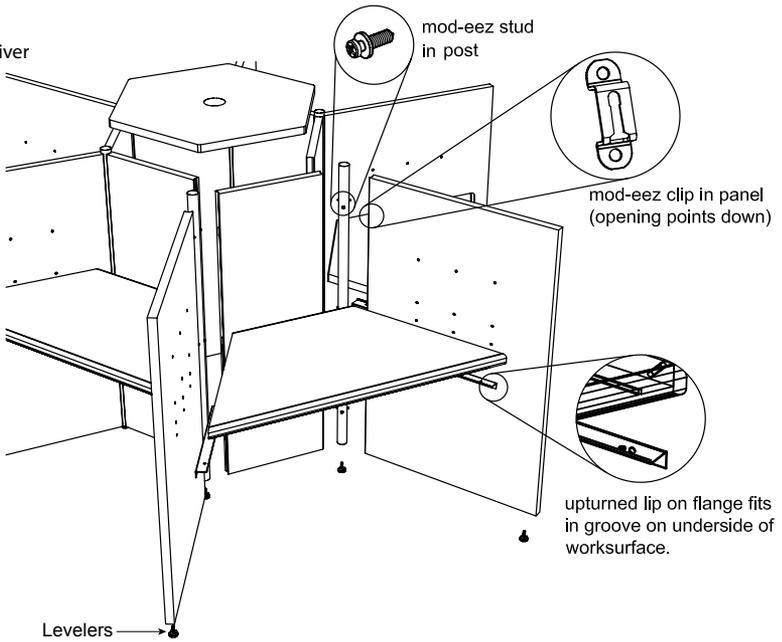
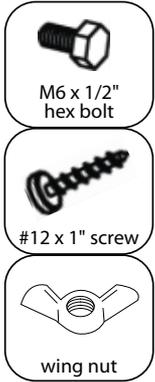
Heritage

Malibu



Hex Carrel

Tools Required:
Phillips head screwdriver
6mm wrench



STEP 1 - Prepping Posts

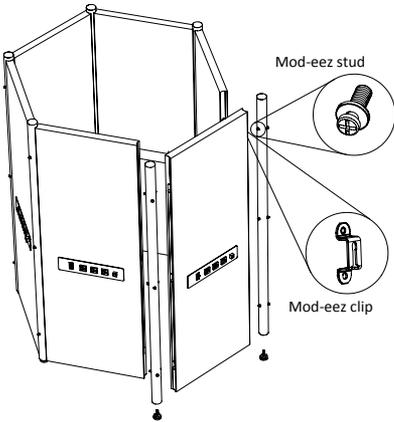
Screw levelers into bottom of posts and Mod-eez studs into pre-drilled holes in each post.

STEP 2 - Assembling central hub

Attach panels to posts. Open end of each Mod-eez clip faces down. Slip studs on posts into clips on panels and tap down on panel to secure.

- The joint is mechanical and may be disassembled.

Attach all but the last panel and proceed to step 3.

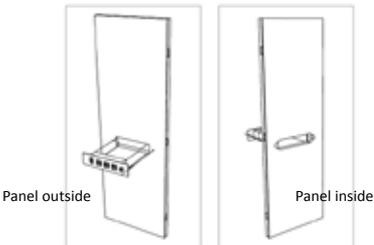


STEP 3 - Installing power/data units

Slide power/data units into panel and secure from the inside of each panel using wing nuts.

- One panel has an access panel that is secured with two screws

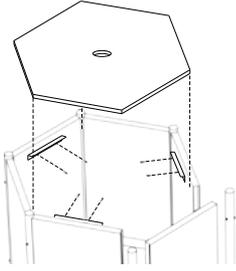
Attach the last panel.



CAUTION

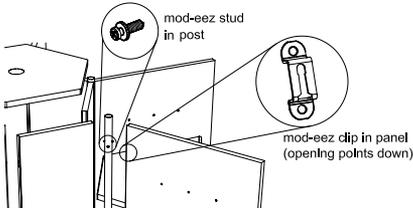
Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

Hex Carrel



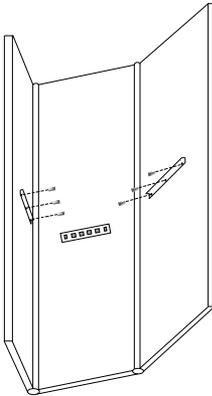
STEP 4: Attaching hub top

Screw "Z" brackets on three alternating hub panels. Hexagonal hub top sits on these small "Z" brackets mounted at top of hub panels. Place the hub top.



STEP 5 - Attaching side panels

Assemble wing panels to hub by securing Mod-eez clips to remaining exposed studs on posts. Then level using adjustable glides.

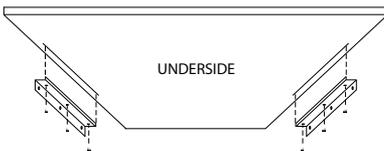


STEP 6 - Attaching angle brackets

Screw M6 x $\frac{1}{2}$ " bolts through "Z" bracket into side panels. There should be a space for wires between the back edge of the worksurface and the central hub.

- Do not tighten bolts yet.

#12 x 1" screw Lip engages groove in underside of worksurface



STEP 7 - Attaching worksurfaces

Position worksurface onto "Z" brackets. Make sure the short end of the "Z" bracket sits in the groove. Screw angle brackets to the underside of the worksurface using #12 x 1" screws.

Attach all six work surfaces. Make sure all six are aligned evenly.

- Now tighten bolts.

STEP 8 - Leveling Carrels

Adjust levels up or down depending on need in order to level carrels.

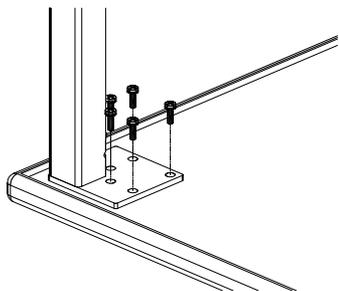
Wood Tables



Assemble units only as described in this guide.
All screws, nuts & bolts and other fasteners must
be tightened securely and checked regularly.
Failure to do so could cause instability and injury.

Wood Table Leg, Apron & Support Keel

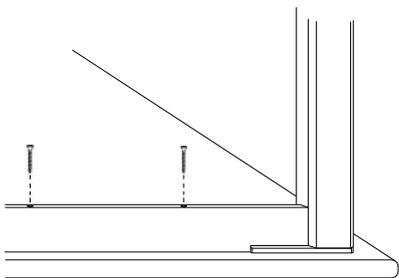
Tools Required:
Phillips head screwdriver
 $\frac{5}{16}$ wrench



Attaching steel mounting plate and leg to table top
Attach leg plates (with attached legs) to table using the $\frac{5}{16}$ -18 x 1" bolts. **If installing optional aprons**, do not completely tighten bolts and see Step 2. **If no apron is being installed**, tighten bolts now.

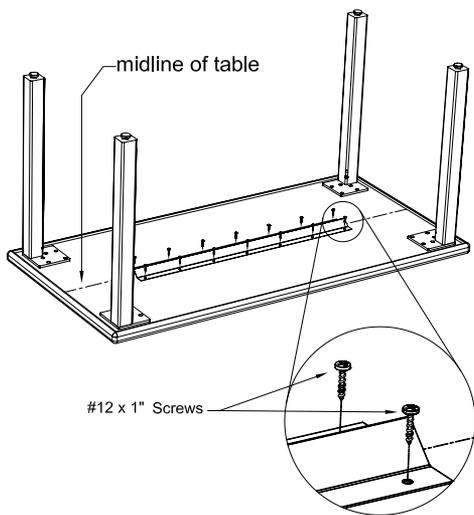
Attaching optional aprons

Align apron between the legs on the table. The holes in the leg plate are oversized to allow you to position the leg and apron. Position the face of the apron just behind the leg edge radius and attach with the #8 x 1 - $\frac{1}{4}$ " screws. Finish tightening bolts from Step 1.



Attaching table support keel

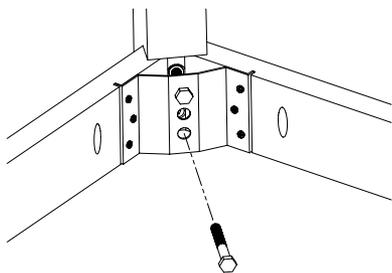
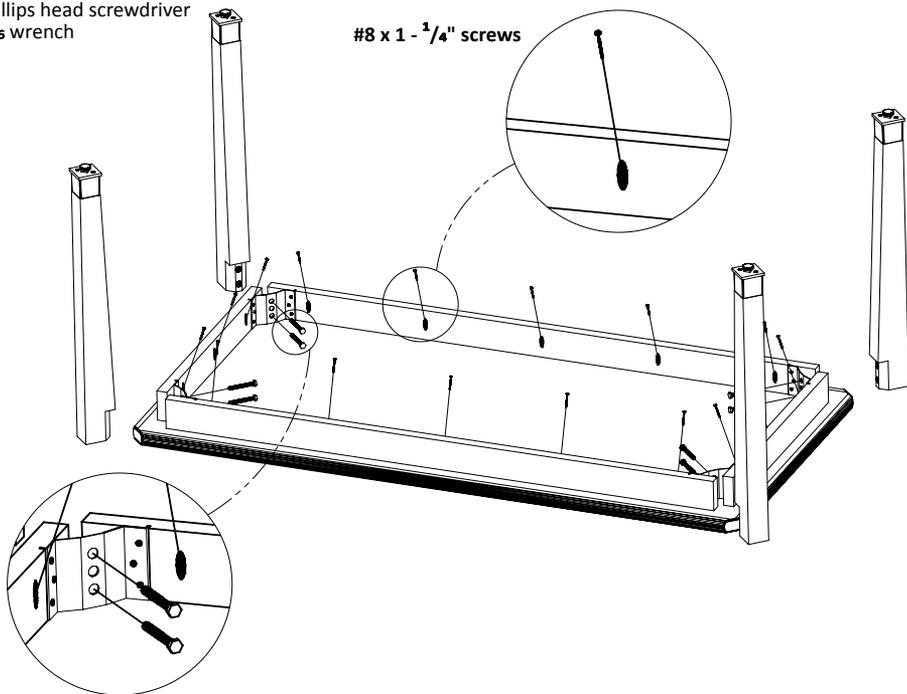
Center keel along midline and equal distance from each end. Attach using #12 x 1" screws.



Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

Charleston Table

Tools Required:
Phillips head screwdriver
 $\frac{5}{16}$ wrench



Step 1 - Attaching the legs to apron

- For each leg, fit leg into outside corner of apron with predrilled hole facing inward and attach leg to corner bracket on apron using $\frac{5}{16}$ -18 x 2 - $\frac{1}{2}$ " bolt.

Step 2 - Attaching apron and leg assembly to table top

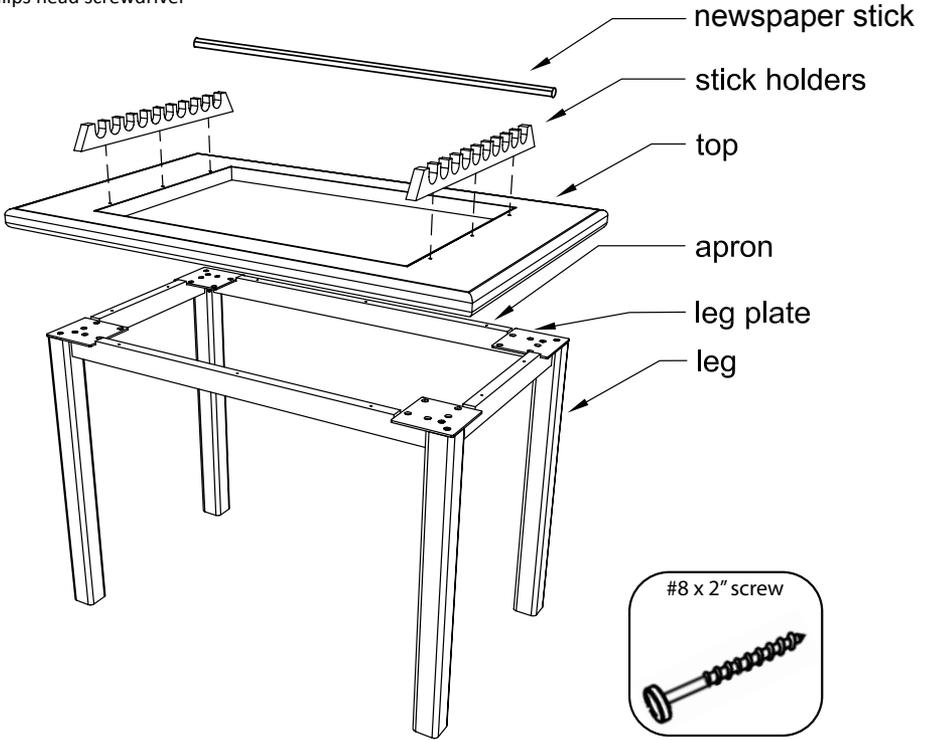
- Place top upside down on clean, padded surface.
- Center apron and leg assembly onto underside of top.
- Attach using #8 x 1 - $\frac{1}{4}$ " screws in predrilled holes.



Assemble units only as described in this guide.
All screws, nuts & bolts and other fasteners must
be tightened securely and checked regularly.
Failure to do so could cause instability and injury.

Newspaper Rack

Tools Required:
Phillips head screwdriver



STEP 1- Assembling table

Assemble legs, leg plates and aprons to underside of top. See "Bookmark Table Leg & Apron Assembly Instructions"

STEP 2- Aligning and attaching stick holders

Attach stick holders to either side of opening on top as shown, using #8 x 2" screws, by screwing through top from below.

- Use a $\frac{3}{16}$ " drill if clearance holes shown in top are not pre-bored.
- After mounting the first holder, use a newspaper stick to aid in aligning the second holder on the opposite side of the opening.

Steel Frame Tables

SST Tables

Vector Tables

Floating Vector Tables

Z Tables

WCT Tables

Definitions

Checkmate

Twist

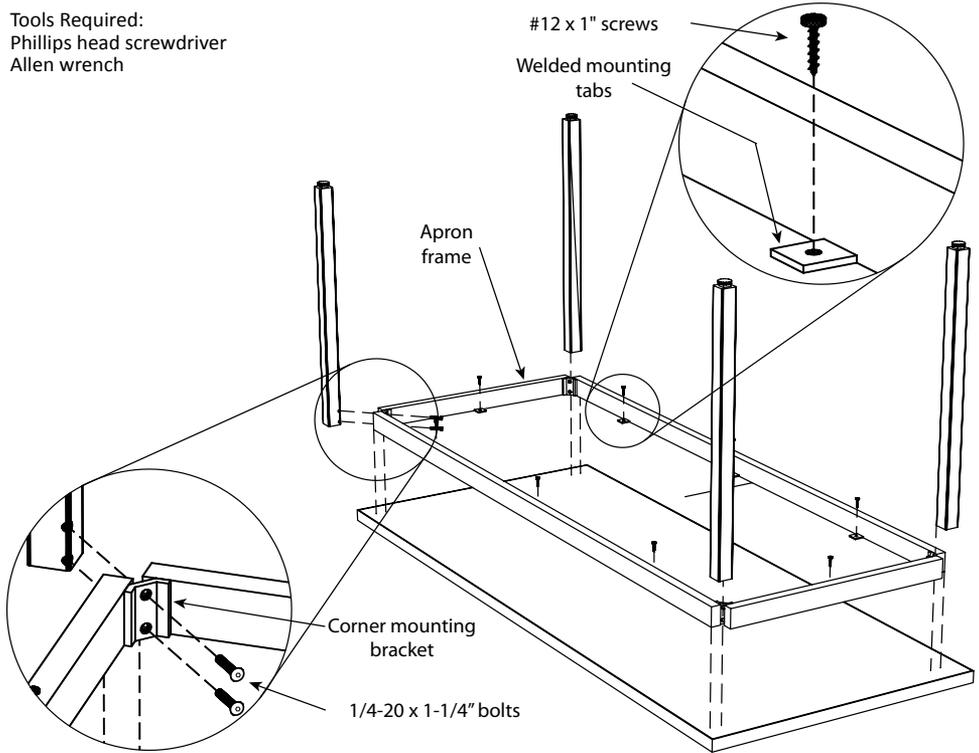
Malibu



Assemble units only as described in this guide.
All screws, nuts & bolts and other fasteners must
be tightened securely and checked regularly.
Failure to do so could cause instability and injury.

SST Table

Tools Required:
Phillips head screwdriver
Allen wrench



STEP 1 - Attaching legs to apron

Attach each leg by bolting through a corner mounting bracket into welded threaded insert in leg with (2) $\frac{1}{4}$ -20 x $1\frac{1}{4}$ " bolts.

NOTE: For Epoxy Tops, skip to Step 4.

STEP 2 - Preparing top for assembly

Place top upside down on clean, padded surface. Center length and width of welded apron frame on underside of top. Drill $\frac{5}{32}$ " pilot holes into top through welded mounting tabs.

STEP 3 - Attaching apron frame to table top

Secure apron frame to table top with #12 x 1" screws through welded mounting tabs.

STEP 4 - Attaching Epoxy Tops

Liquid Nails® will be used to attach epoxy tops to apron frame.

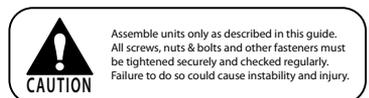
Place top upside down on clean, padded surface.

Apply Liquid Nails® to apron frame per their instructions.

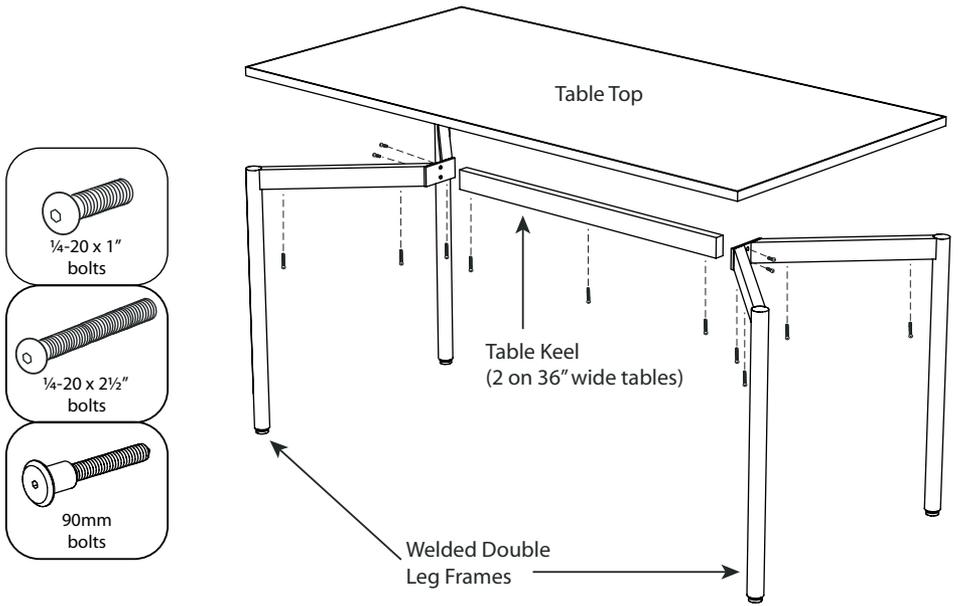
Center length and width of apron frame onto underside of table top.

Scrape off any excess liquid nails while still soft.

Visit www.liquidnails.com for more information.



Vector Table



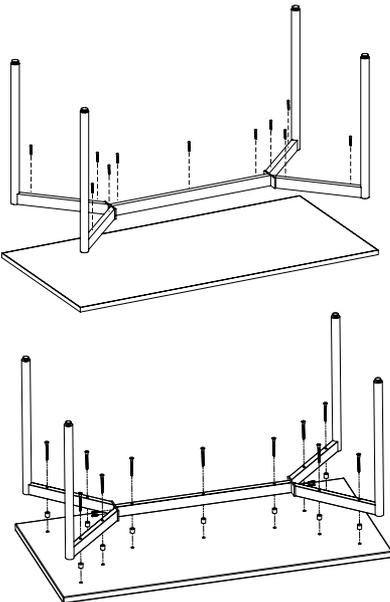
STEP 1 - Attaching table tops to legs and keel

Lay table top upside down on a level clean padded surface.

Align leg frames and keel to predrilled holes in underside of worksurface and attach using 1/4 - 20 x 2 - 1/2" bolts. Finger tight only for now.

For Floating Vector Tables:

Follow same instructions from Step 1, but spacers will be aligned with the holes in between the leg frames and keel and the worksurface. Attach using 90mm (approx. 3 - 1/2") bolts. Finger tight only for now.



STEP 2: Attaching leg frames to keel

Screw each of the two welded double leg frames to table keel using the 1/4 - 20 x 1" bolts.

Tighten bolts from Step 1.

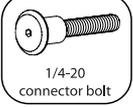
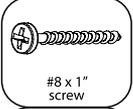


Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

Z Table

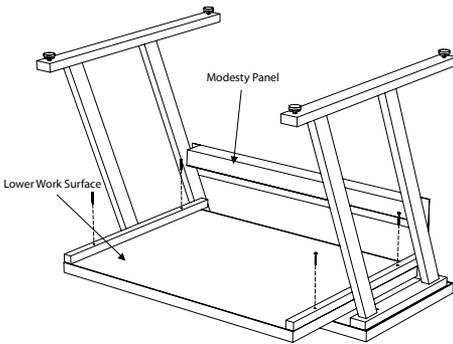
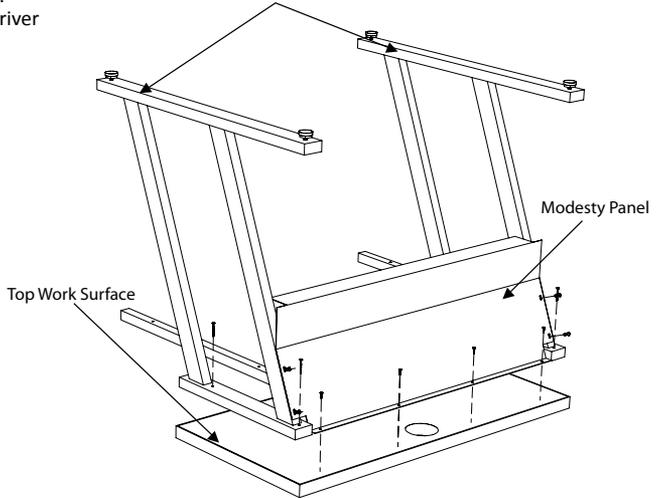
ATTENTION: UNITS ARE ASSEMBLED UPSIDE DOWN

Parts Included:



Tools Required:
Phillips screwdriver
Allen wrench

RH and LH Steel Frames



STEP 1 - Attaching modesty panel

Align modesty panel to pilot holes in underside of longer and narrower top work surface and attach using #8 X 1" screws. Top work surface is longer and narrower in dual surface Z tables.

STEP 2 - Attaching frames to upper table top

All Units: Slide RH and LH steel frames into alignment with oblong holes on each end of modesty panel and connect panel to frame using (4) 10-32 X 5/8" screws.
All dual surface and under 60" single surface units: Align top rails of frames with underside of top work surface and attach using (2) #8 X 2" screws on each side.

For units 60" and longer see step 3, for shorter units proceed to step 4

STEP 3 - Attaching work surface support bar

Dual surface units: Attach the 1" x 1" work surface support bar between the steel frames by bolting through each 1" x 1" frame member into the ends of the support bar using 1 - 3/4" (45mm) 1/4-20 connector bolts.

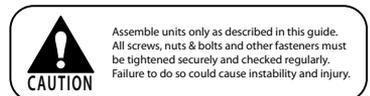
Single surface units: Attach the 1" x 1" lower work surface support bar by bolting through each 1" x 2" frame member into the ends of the support bar using 2 - 3/4" (70mm) 1/4-20 connector bolts. Align frames with edges of work surface and attach using (2) #8 x 2" screws through each 1" x 2" frame member.

STEP 4 - Attaching lower table top

Align shorter and wider lower work surface to rails along steel frames. **NOTE: You will need to aid/hold the table top to the frames.** Attach using (2) #8 x 2" screws per side. If support bar was installed, attach lower work surface to bar using #8 x 2" screws.

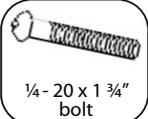
STEP 5 - Completing assembly

Flip table over and install plastic grommets.



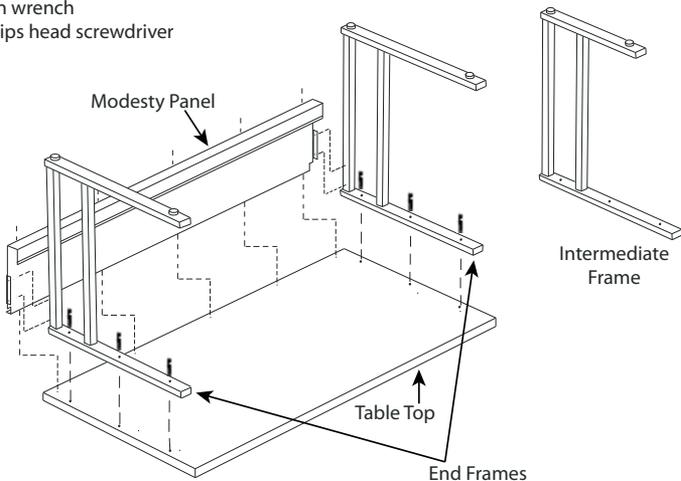
WCT, Steel Frame

Parts Included:



Tools Required:

Allen wrench
Phillips head screwdriver



STEP 1: Attaching frames to table top

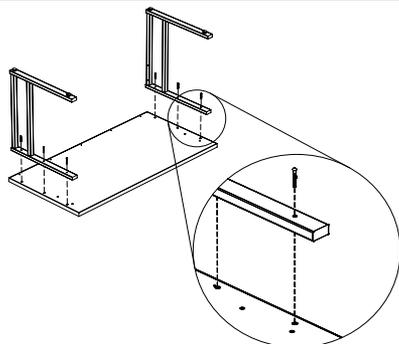
Assemble end or intermediate steel frames to underside of top using 1/4 - 20 x 1 3/4" bolts.

- Tighten finger tight only at this point.

NOTE:

Intermediate frames may mount either at ends or midspan, depending on configuration.

- Underside of top will have appropriate threaded inserts.
- Modesty panels will fit between each pair of support frames, end or intermediate.
- Assembly sequence is unchanged



STEP 2: Attaching modesty panel to leg frames

Attach modesty/wire management panel to end or intermediate steel frames using connector bolt and nut.

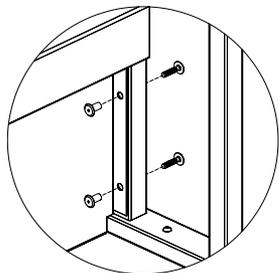
- Flange faces out, wire management trough faces in.

STEP 3: Securing modesty panel to top

Attach modesty panel to underside of top using #8 x 1" screws through flange of modesty panel.

STEP 4: Completing assembly

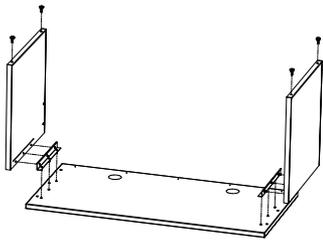
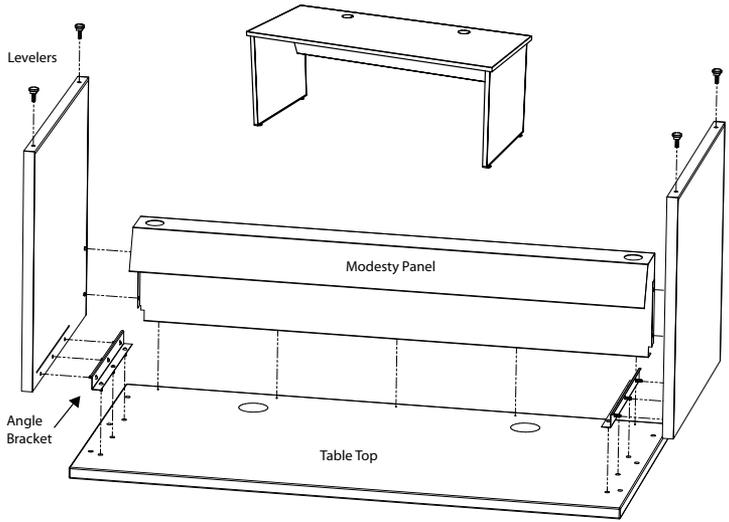
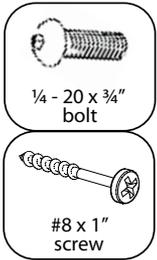
Finally, tighten buttonhead bolts attaching end/intermediate frames to top.



Assemble units only as described in this guide. All screws, nuts & bolts and other fasteners must be tightened securely and checked regularly. Failure to do so could cause instability and injury.

WCT, Panel End

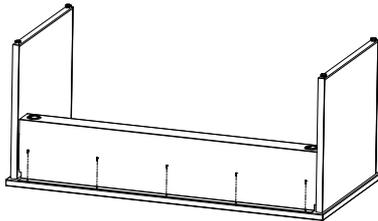
Tools Required:
Phillips head screwdriver
Allen wrench



STEP 1 - Attaching panel ends to top

Screw panel ends to table top using (4) 1/4 - 20 x 3/4" bolt through each of 2 angle mounting brackets.

- Finger tight for now.
- Screw in levelers.



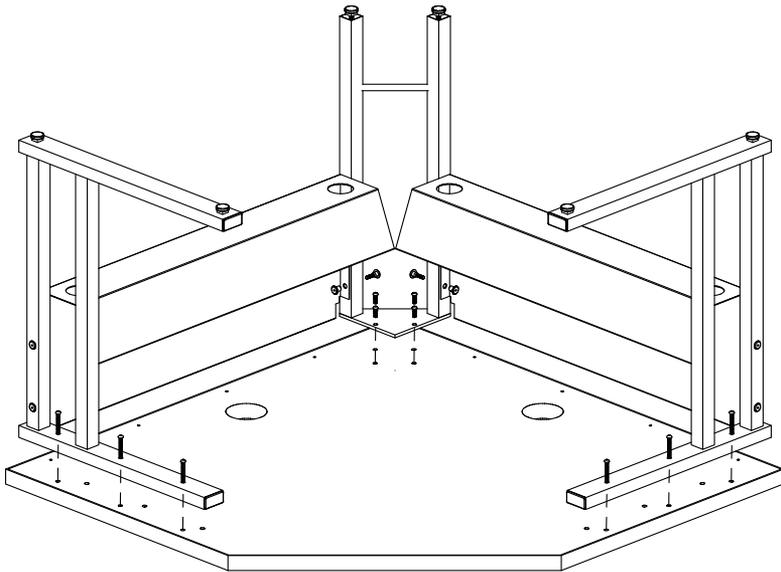
STEP 2 - Attaching modesty panel

- Screw modesty panel to panel ends using (4) 1/4 - 20 x 3/4" bolt.
- Screw modesty panel to underside of table top using (5) #8 x 1" screws.

STEP 3: Completing Assembly

Tighten all (8) 1/4 - 20 x 3/4" bolts.

Corner WCT, Leg Base Frame Assembly



Step 1: Attach the Corner Leg/End Leg to table top

Fasten WCT Corner Leg to underside of top using $\frac{1}{4}$ - 20 x $\frac{3}{4}$ " BH Bolt into threaded insert. Fasten WCT end frame Leg to underside of top using $\frac{1}{4}$ - 20 x 1 - $\frac{3}{4}$ " BH Bolt into threaded insert.

- Tighten finger tight only at this point

Step 2: Attach Modesty to leg frames

- Secure Modesty to end frame and corner leg using connector bolt and nut.
- Flange faces out, wire management trough faces in.

Step 3: Securing Modesty panel to top

- Attach Modesty panel to underside of top using #8 x 1" screws through flange of modesty panel.

Step 4: Completing assembly

- Finally, tighten BH Bolts attaching end/corner frames to top.



Assemble units only as described in this guide.
All screws, nuts & bolts and other fasteners must
be tightened securely and checked regularly.
Failure to do so could cause instability and injury.

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