



# MOD-GLIDER PRO

## INSTALLATION



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# FLOOR FLATNESS REQUIREMENT

- 0.25" maximum variation over the entire footprint of the system or shimming may be required
- 0.5" maximum variation over the entire footprint with shimming
- Footprint of system includes the area in which screens will extend.
- 0.188 Maximum variation over any 2' span
- It is recommended that floor flatness meets Ff25 or greater: No more than a single 0.25" defect over 10'.
- Modular Art Rack Systems must be installed on solid surfaces that are capable of withstanding system loads.

## SHIM KITS

Shim Kits should be purchased and used when floor conditions are between .025" and 0.5" out of level.

All shims are 1/16" thick.

Shim Kits contain shims for corner posts, slide assembly and horizontal front left to right support.

Each Shim Kit contains 24 shims of each variety—72 shims total

One kit per system

Part Number : ARSMODSHIMKIT

# SYSTEM LAYOUT



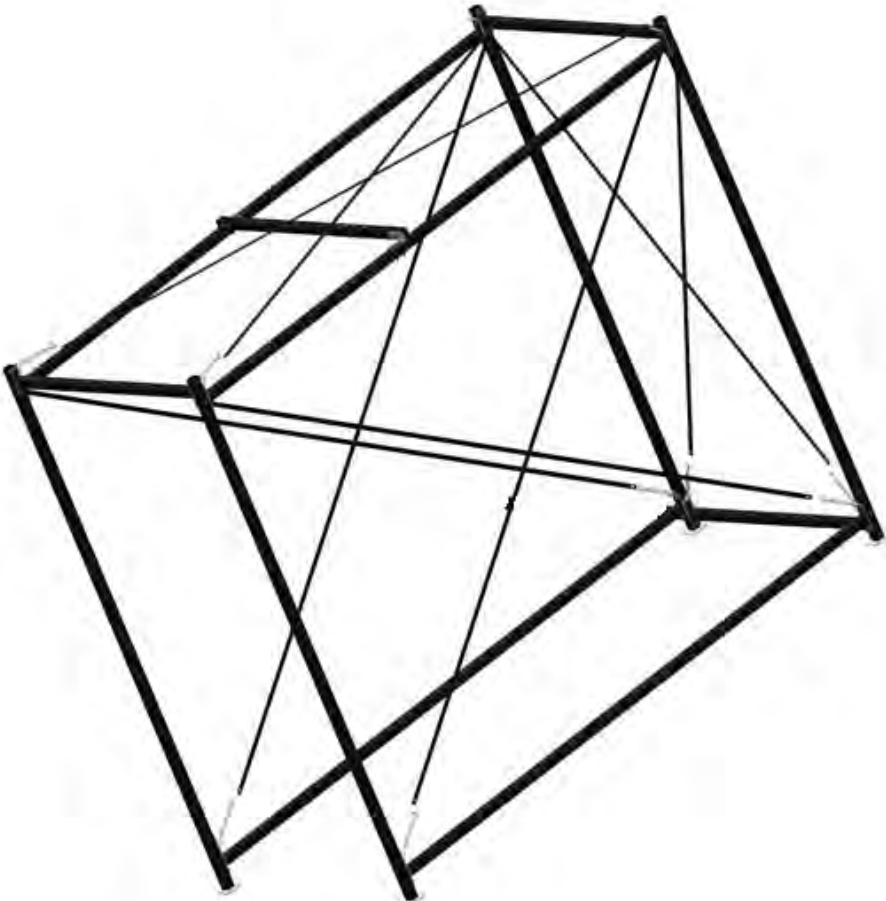
## System layout considerations

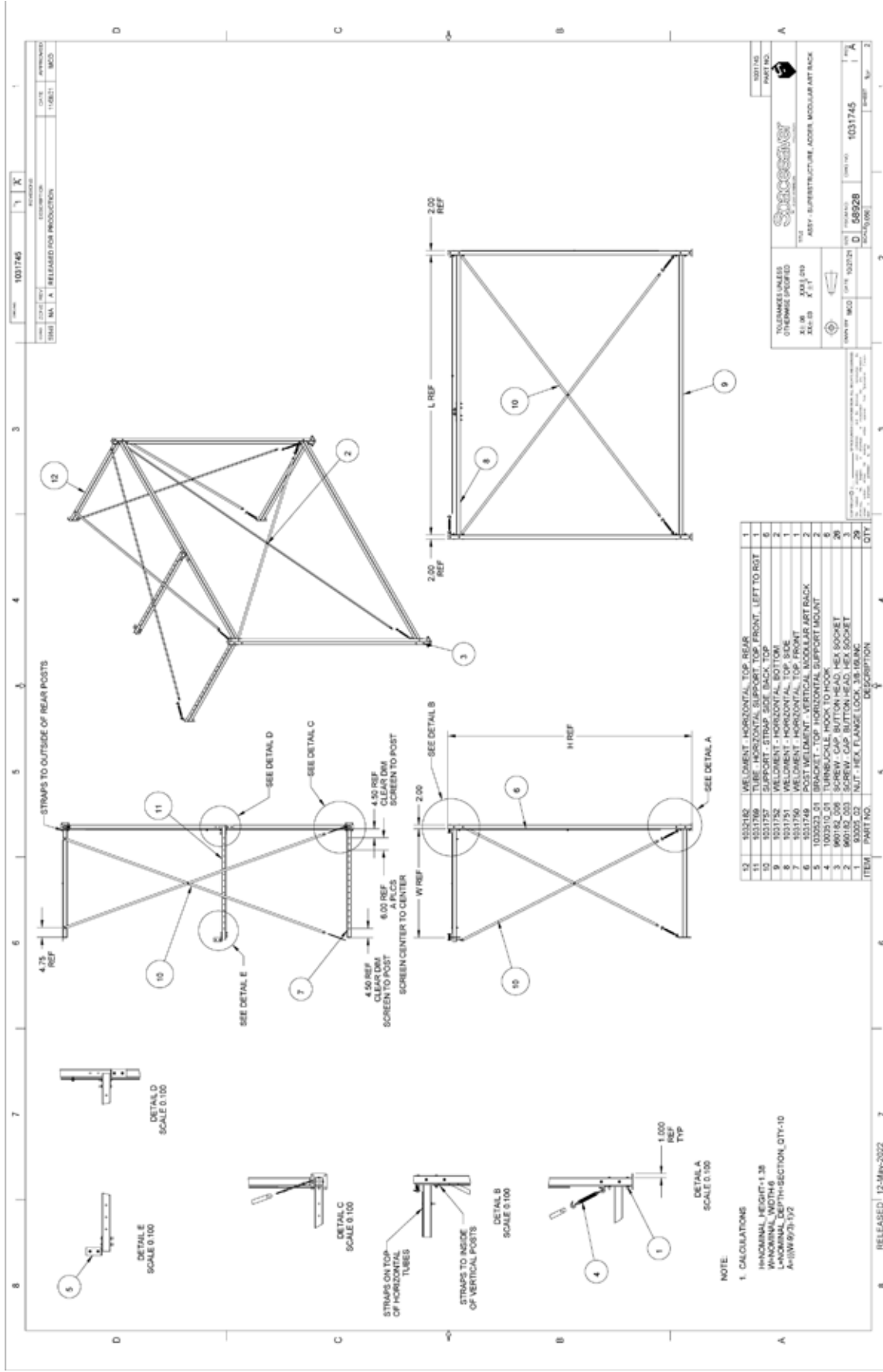
- Floor level conditions
- Consider footprint of where system will be built as well as area where screens will pull out
- Consider pinch points between extended screens and other obstacles
- Each super structure must be square and plumb.

## Layout and construction of Super Structure

- Use appropriate layout methods to assure you will have a square structure
- Assemble structure in it's final installation location
- Two or more people will be required to build structure

# Super Structure





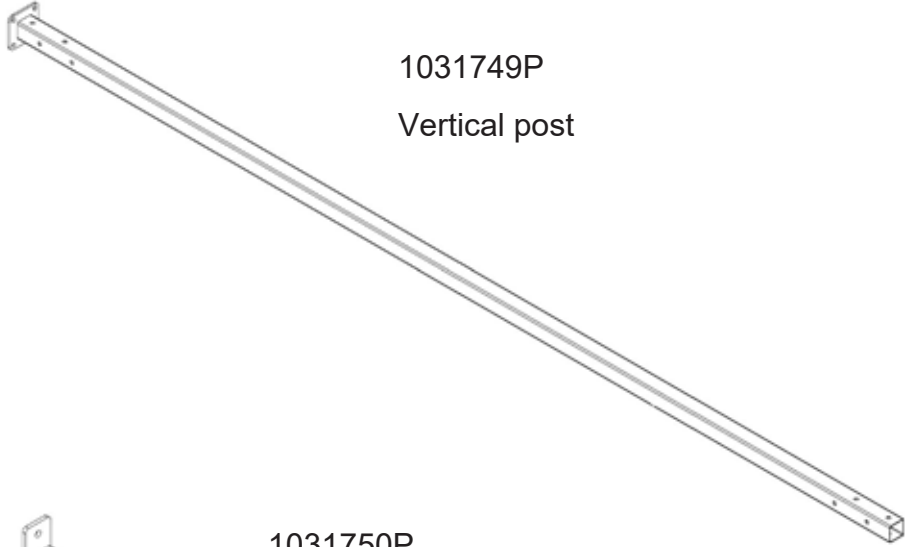
ITEM	PART NO.	DESCRIPTION	QTY
13	1031740	WELDMENT - HORIZONTAL, TOP REAR	1
14	1031700	TUBE - HORIZONTAL, SUPPORT, TOP FRONT, LEFT TO RIGHT	6
15	1031707	SUPPORT - STRAP, SIDE, BACK, TOP	2
9	1031752	WELDMENT - HORIZONTAL, BOTTOM	1
6	1031751	WELDMENT - HORIZONTAL, TOP, SIDE	1
8	1031746	WELDMENT - HORIZONTAL, TOP, FRONT	2
4	1031740	TUBE - HORIZONTAL, SUPPORT, LEFT BACK	2
5	103203_01	BRACKET - TOP, HORIZONTAL, SUPPORT MOUNT	2
4	1002910_01	TURNSLOLE, HOOK TO HOOK	6
3	960192_008	SCREW - CAP, BUTTON-HEAD, HEX SOCKET	26
2	960192_003	SCREW - CAP, BUTTON-HEAD, HEX SOCKET	26
3	1002910_02	NUT - HEX FLANGE LOCKWASHER	6
1	1031745	ASST. SUPERSTRUCTURE, ADJER. MODULAR ART RACK	1

NOTE:  
 1. CALCULATIONS  
 MINOMIAL HEIGHT-1.28  
 MINOMIAL WIDTH-6  
 MINOMIAL DEPTH-10  
 MINOMIAL DIA. TYP-SECTION\_QTY-10  
 A=10/M/9/21-5/2

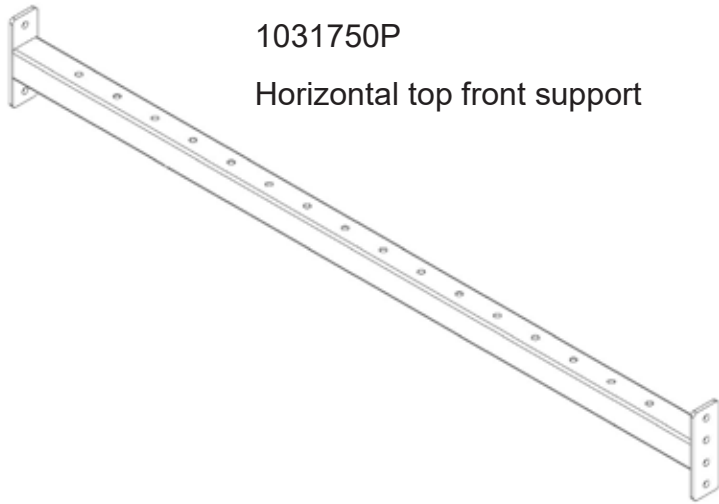
# COMPONENTS

<b>STARTER</b>		
Component Part	Description	Qty per Assembly
93005.02	NUT-HEX, FLANGE LOCKING	42
960182.003	SCREW-CAP,BUTTON HEAD,HEX SOCKET .375-16 X .75	4
960182.006	SCREW-CAP,BUTTON HEAD,HEX SOCKET .375-16 X 3.00	38
1003510.01	TURNBUCKLE, HOOK TO HOOK	8
1030523.01P	BRACKET - TOP HORIZONTAL SUPPORT MOUNT	2
1031749P	VERTICAL POST, SUPER STRUCTURE	4
1031750P	HORIZONTAL, TOP, FRONT, SUPER STRUCTURE	1
1031751P	HORIZONTAL, TOP, SIDE SUPPORT	2
1031752P	SIDE BOTTOM SUPPORTS	2
1031752P	REAR BOTTOM SUPPORT	1
1031757P	SIDE DIAGONAL BRACES	4
1031757P	TOP DIAGONAL BRACES	2
1031757P	REAR DIAGONAL BRACES	2
1031769P	TOP, FRONT,HORIZONTAL SUPPORT, LEFT TO RIGHT	1
1032182P	WELDMENT - HORIZONTAL, TOP, REAR, SUPER STRUCTURE, PAINTED	1

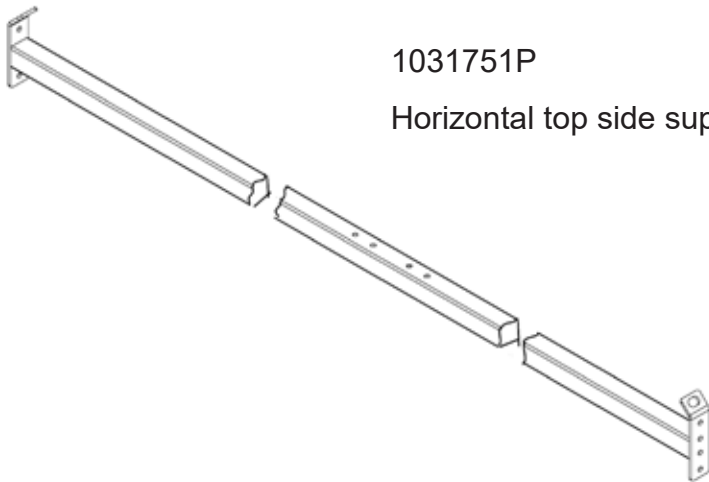
<b>ADDER</b>		
Component Part	Description	Qty per Assembly
93005.02	NUT-HEX, FLANGE LOCKING	27
960182.003	SCREW-CAP,BUTTON HEAD,HEX SOCKET .375-16 X .75	3
960182.006	SCREW-CAP,BUTTON HEAD,HEX SOCKET .375-16 X 3.00	24
1003510.01	TURNBUCKLE, HOOK TO HOOK	6
1030523.01P	BRACKET - TOP HORIZONTAL SUPPORT MOUNT	2
1031749P	VERTICAL POST, SUPER STRUCTURE	2
1031750P	HORIZONTAL, TOP, FRONT, SUPER STRUCTURE	1
1031751P	HORIZONTAL, TOP, SIDE SUPPORT	1
1031752P	SIDE BOTTOM SUPPORTS	1
1031752P	REAR BOTTOM SUPPORT	1
1031757P	SIDE DIAGONAL BRACES	2
1031757P	TOP DIAGONAL BRACES	2
1031757P	REAR DIAGONAL BRACES	2
1031769P	TOP, FRONT,HORIZONTAL SUPPORT, LEFT TO RIGHT	1
1032182P	WELDMENT - HORIZONTAL, TOP, REAR, SUPER STRUCTURE, PAINTED	1



1031749P  
Vertical post

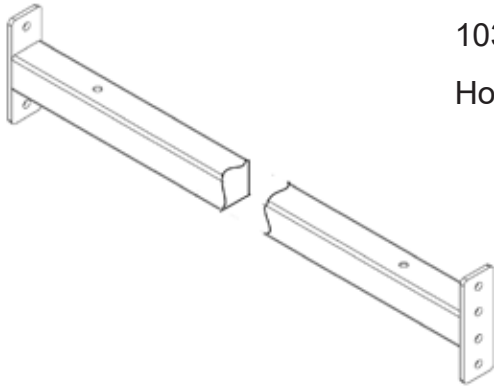


1031750P  
Horizontal top front support

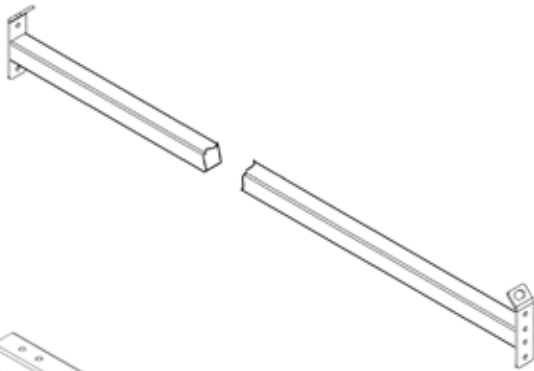


1031751P  
Horizontal top side support

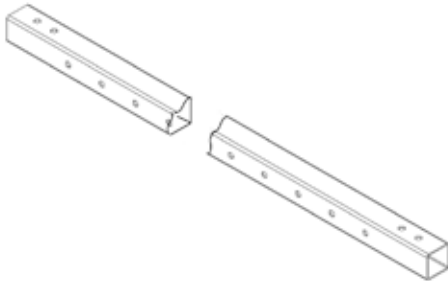




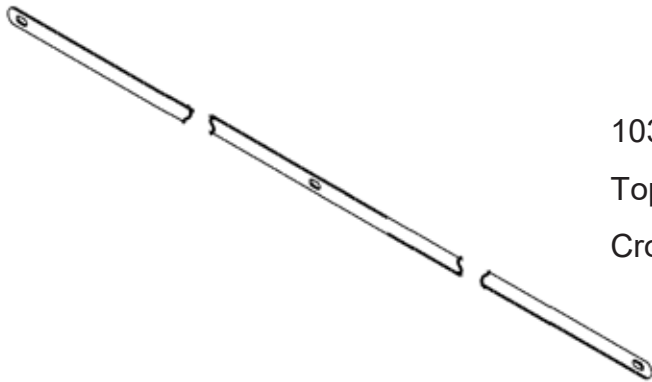
1032182P  
Horizontal rear top support



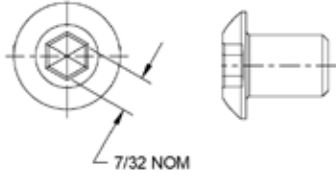
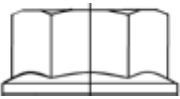
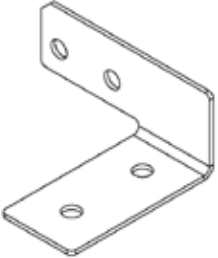

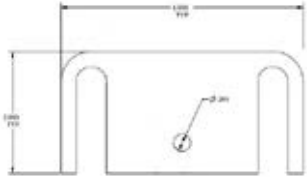


1031752P  
Horizontal bottom side support  
Horizontal rear bottom support



1031769P  
Horizontal Front, Left to Right Support



1031757P  
Top, side or rear  
Cross brace

		
960182.003—.75 long	93005.02	1030523.01P
960182.006—3" long	3/8" Flange Locking Nut	Horizontal Support Mount
3/8" Button Head Cap Screw		
		
	Optional	Optional
1003510.01	1033057.01P	1033058.01P
Turnbuckle	Base Shim	Support Tube Shim
		
	Optional	
	103394.001P	
	Top Slide Shim	



*960182.006 Cap screw*

*93005.02 Flange locking nut*

Lay out two vertical posts, and the top and bottom rear horizontal weldments.

Note to horizontal weldments will bolt into the upper and lower set of holes in the posts.

The bottom horizontal member will have the tab pointing up.

Using 3/8 x 3" cap screws and flange nuts attach the members together.

Use both bolts in the bottom horizontal member and only the top bolt in the top horizontal member.

Do not tighten any hardware at this time.

Stand the back frame and bolt on the lower horizontal members using the upper set of holes. Tabs will be pointing up. Finger tighten at this time.



Stand front vertical posts and bolt in lower side members. Bolt into the upper set of holes.

Do not tighten at this time



Bolt in upper side support members.

Do not tighten hardware.

Note the holes in the tube will be forward of center.





Bolt in front horizontal member (Optional add the Top slide module before bolting in support. See next section Top Guides for details).

Tabs up

Use only top bolt at this time

Finger tighten

If installing Adder Structures, build those now. You will use common vertical posts and hardware for the adders.



Bolt in the Front, left to right support, (Optional add the Top slide module before bolting in support. See next section Top Guides for details).

The left side of the support will have the bracket to the rear of the tube and use the rear holes. The right side will have the bracket to the front of the tube and use the front holes

Finger tighten hardware





Bolt upper end of the left, right and rear cross braces.

The end with the round hole will be bolted. The end with the obround hole will hook to the turnbuckle.

Use the hardware left out during the assembly of the structure.

Do not tighten at this time.

The top cross braces will be bolted to the back top support and pass over the front left to right support.

*1003510.01 Turnbuckle*



Use turnbuckles to attach the cross braces to the bottom side supports and the top front support



Bolt mid holes of cross braces.

Do not tighten at this time.

3/8 x .75" cap screw and flange locking nut

Tighten all hardware except cross braces mid blots at this time.

*960182.003 Cap screw*

*93005.02 Flange Locking Nut*

*1003510.01 Turnbuckle*



Verify the structure is square and front posts are properly spaced.

Anchor a minimum of two places each foot.

Minimum Anchor:

Tension 1,490

Shear 1605

Example: Hilti HK-EZ 3/8 x 2- 1/8"

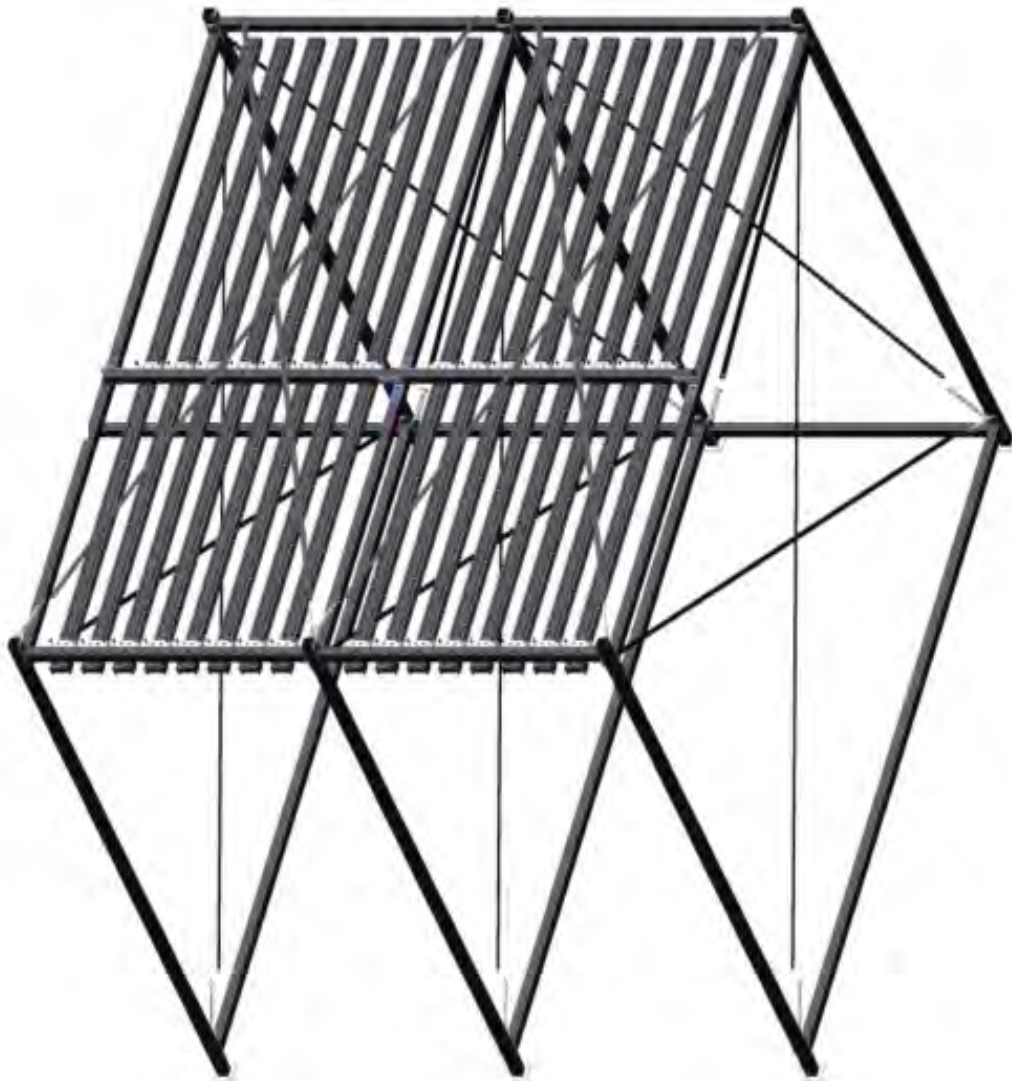
Anchors are not provided. Anchoring requirements will be determined by site conditions, local code or other requirements.



Adjust cross braces to plumb all vertical posts.

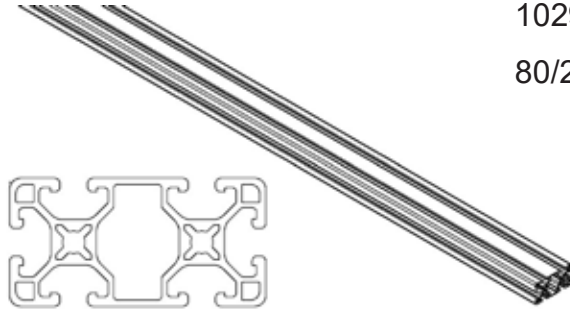
Tighten Cross brace hardware.



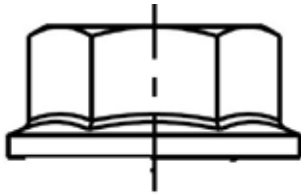


<b>TOP GUIDE TRACK</b>		
Part Number	Description	Qty per Assembly
93005.02	NUT-HEX, FLANGE LOCKING	4
1023600.02	NUT - 80/20, DROP IN, SPRING LOADED BALL, 1/4-20	4
1029242	EXTRUSION - 8020 TSLOT RAIL, 1.5X3.0 ULS, CONFIGURED	1
1031113.01	ASSEMBLY - SLIDE MODULE, TOP, MOD ART RACK	2
1032335.01P	PLATE - STOP PLATE, MOD ART RACK, PAINTED	2
1033038.01	BUMPER - SILICONE, 1/2 ROD, MOD ART RACK	4
960182.007	SCREW-CAP,BUTTON HEAD,HEX SOCKET .375-16 X 2.75	4
1030214.01	SUPPORT - PLASTIC SLIDE, UHMW, MOD ART RACK	2
96111.04	SCREW-MACHINE,TRUSS HEAD,CROSS RECESSED,.250-20UNC,ZP,.63 lg	4
1033012.01	SCREW - 5/16-18X.75 HEX HD, TRILOBULAR THREAD FORMING, W/	4

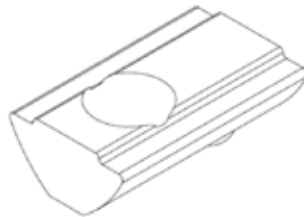
NOTE: Some components are part of the Top guide assembly but won't be used until later when you are installing screens into the Mod-Glider assembly.



1029242  
80/20 top track extrusion



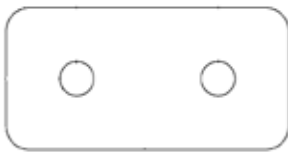
93005.02  
Flange Locking Nut



1023600.02  
8020  
Drop in Nut



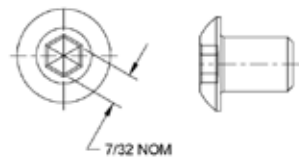
1031113.01  
Top slide Assy.



1032335.01P  
Stop Plate



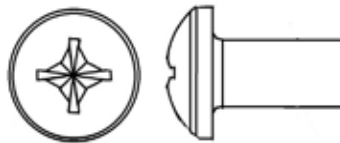
1033038.01  
Bumper



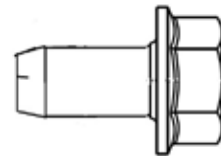
960182.007  
Button Head screw  
2.75"



1030214.01  
Slide Support



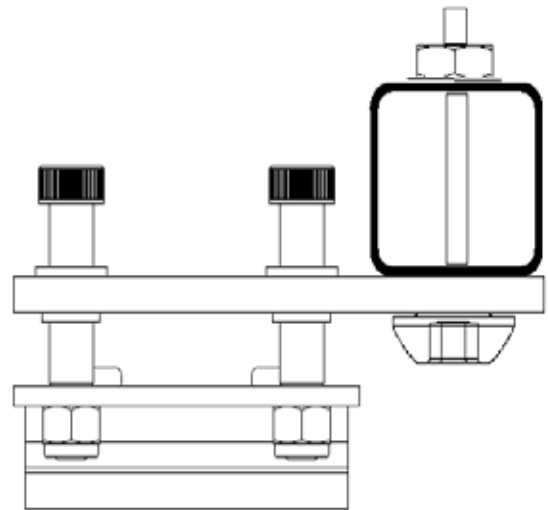
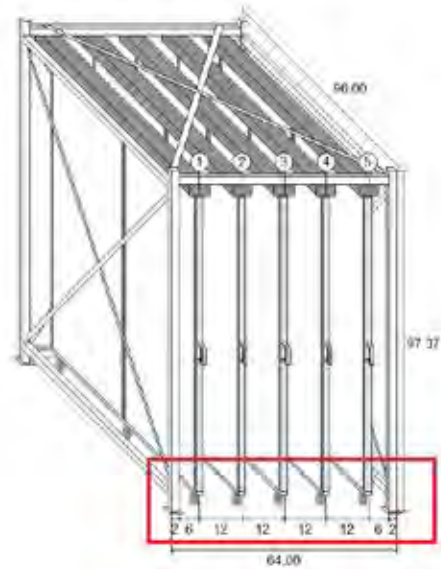
96111.04  
Cross recess screw



1033012.01  
Tri lobe screw

Refer to Configura installation drawings for proper screen spacing.

In this example the screens are 12" on center with 6" to the left and right of the first and last screens.



Attach top slide assemblies to the horizontal front support and horizontal left to right support.

The slides must point toward the rear of the art rack superstructure.

Use a square to align the top slides on the left to right support and tighten hardware. Leave the hardware loose on the front support.

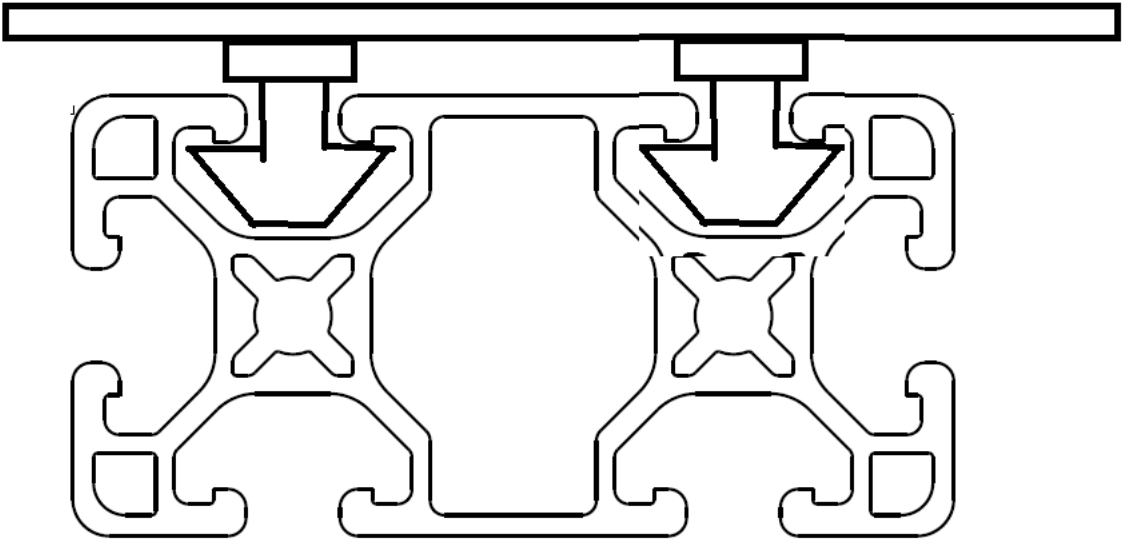
*1031113.01 Slide assembly*

*960182.007 Cap screw*

*93005.02 Flange nut*



Slide 80/20 top track onto top slides.  
Push top track in and out a couple times to help align top slides. Tighten the hardware holding the top slide assembly to the horizontal front support.



Put two bumpers into the rear end of the 80/20 top track.

A small amount of non-off gassing lubricant will help getting the bumpers to slid into the track.

Push in until flush with the end of track.

*1033038.01 Bumper*



Use a screwdriver help get the bumpers into the 80/20.

Push up to crush the bumper to prevent snagging on the corners of the 80/20.

**NOTE:**

If you will have access to the rear of the screens (either from the side or rear of structure) leave the to bottom bumper and stop plate off until after the front bumpers and stop plate is installed.

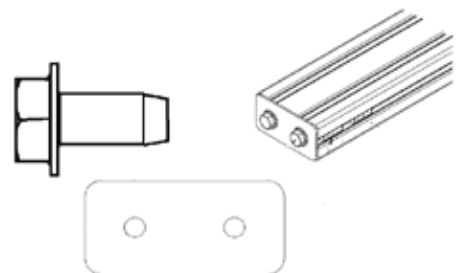
This will give you more “travel” making the front bumper installation easier.

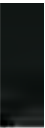


Attach stop plate to the rear end of top track.

*1033012.01 Screw*

*1032335.01P Stop plate*





Insert two drop in nuts into each side of the front of the 80/20 track.



Screw plastic support to side of track.

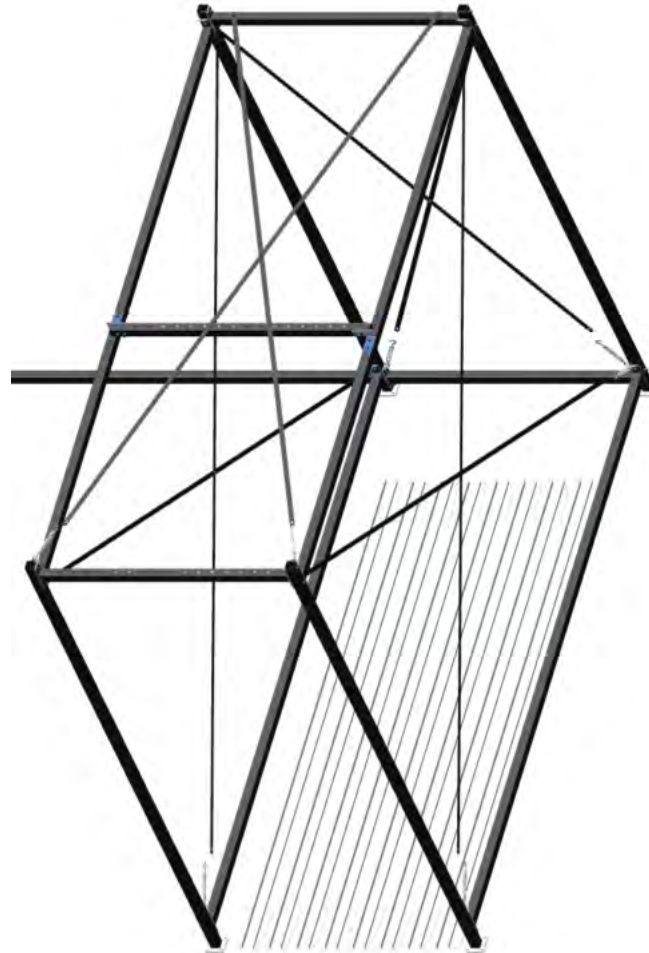
This progress image only shows track support on one side. Add plastic support to opposite side of 80/20 track.



*1023600.02 Drop in nuts*

*960182.007 Cap screw*

*1030214.01 Support*

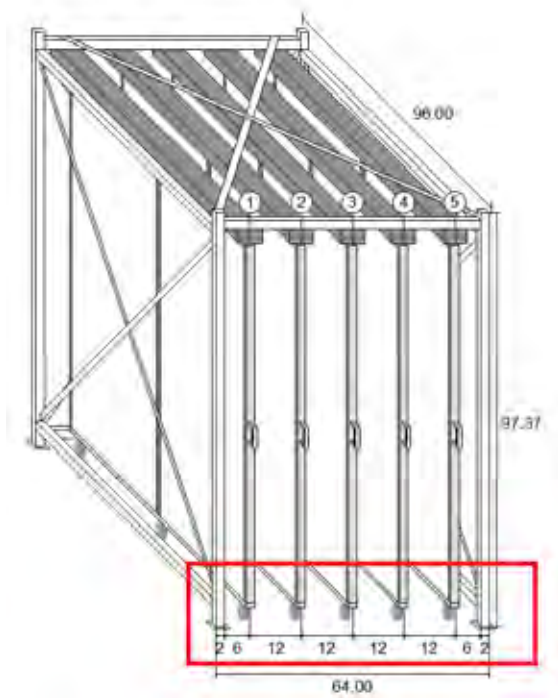


1031915P—Single sided floor guide -  
2 per module



1031907P- Double sided, center floor guide  
Quantity determined by number of screens





Lay out floor guides according to the layout provided in Configura.

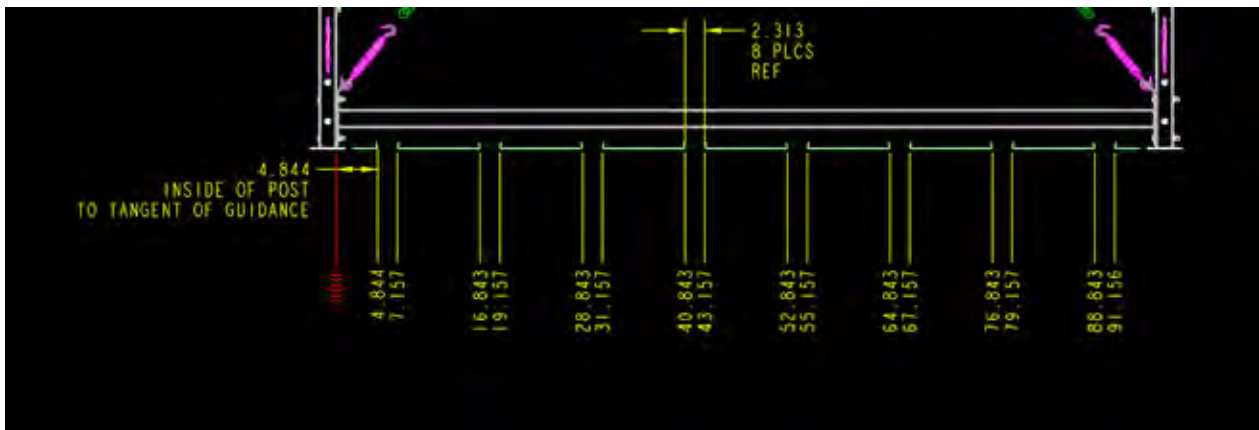
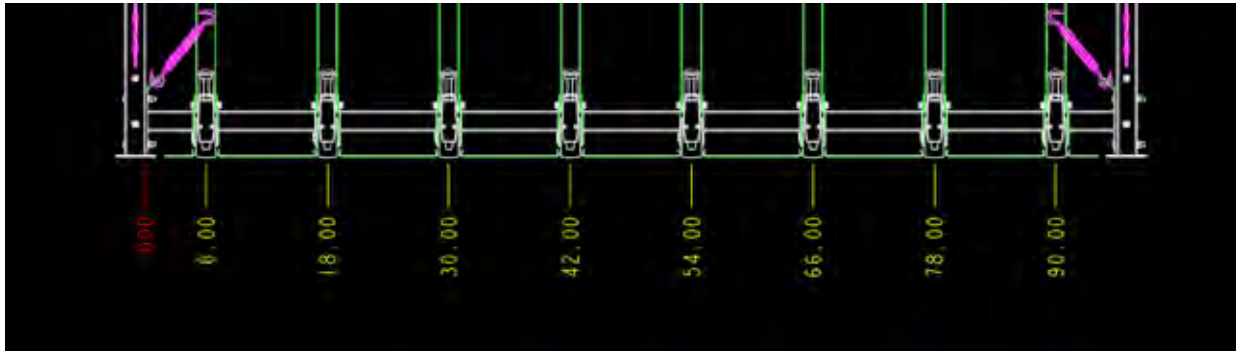
The front edge of the guide will align with the front edge of posts.

Use a single sided guide on the left and right and double sided center guides for the balance.

Mark center of first art rack and measure  $1\frac{5}{32}$ " back for the inside edge of the single sided guide.

Space each track  $2\frac{5}{16}$ " apart.

See example below.

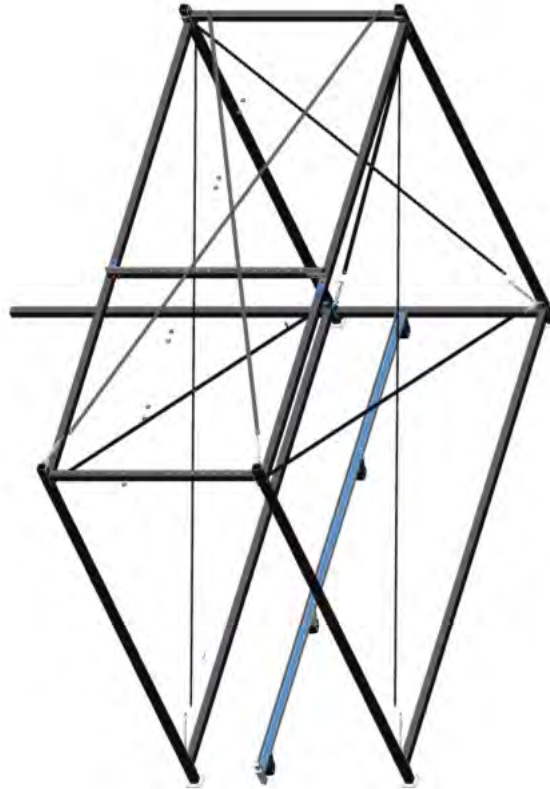


This example depicts 12" centers between each art rack screen.

Anchor to floor at each hole location.

Anchors are not provided and must be determined by local conditions, requirements or code.

# WHEEL BASE

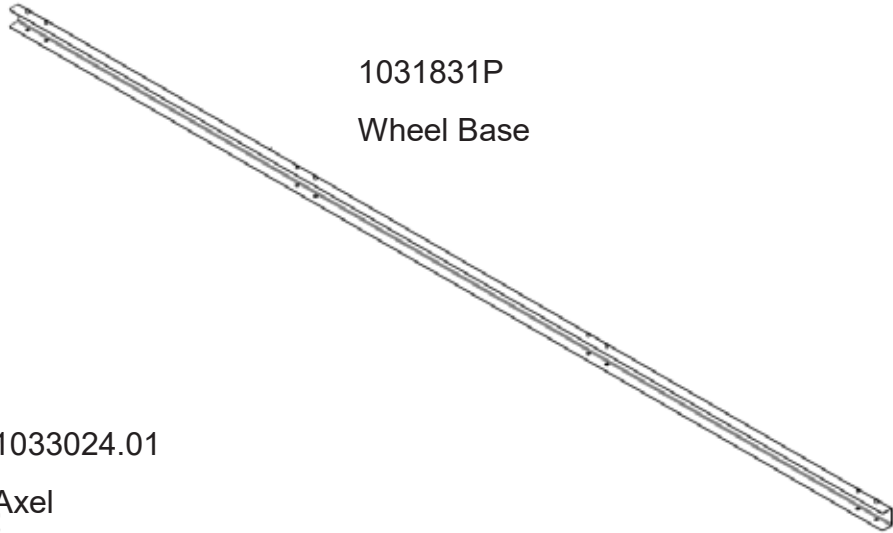


Part Number	Description
93005.06	NUT-HEX, FLANGE LOCKING 5/16-18UNC-2B
1030795.01P	BRACKET - CASTER, MOD ART RACK, PAINTED
1030796.01P	BRACKET - CASTER, SLOTTED, MOD ART RACK,
1031831P	ASSEMBLY - BOTTOM WHEEL BASE, FRAME,
1031866.01	CASTER - NYLON WHEEL, 4 X 2, PREC BRGS NY-
1033024.01	AXLE - CASTER AXLE, 1/2 - 13 x 3.5 PLAIN AXLE

Quantities will depend on size of pull out screens

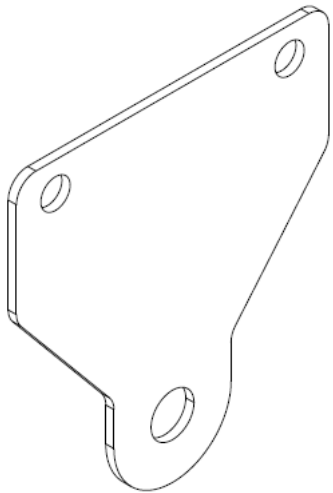
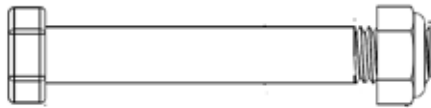


1031866.01  
Caster

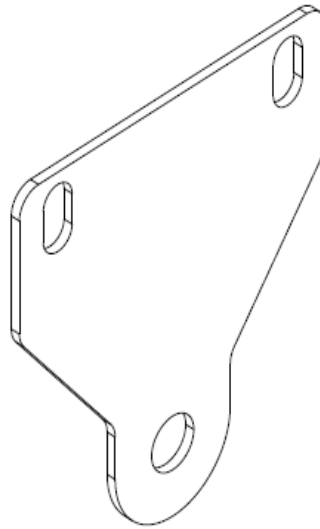


1031831P  
Wheel Base

1033024.01  
Axel

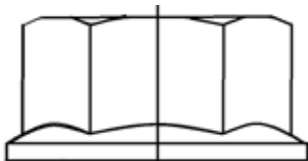


1030795.01P  
Outside

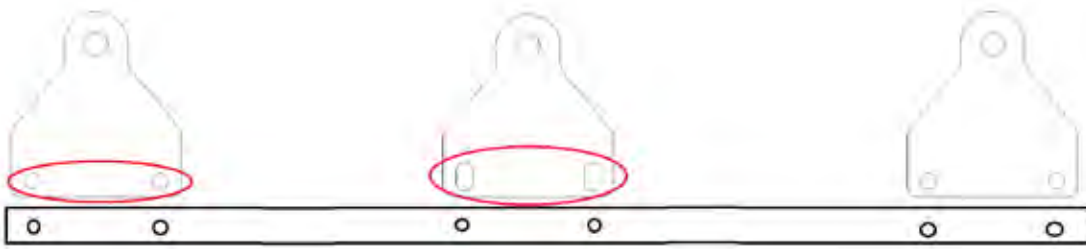


1030796.01P  
Inside—Slotted

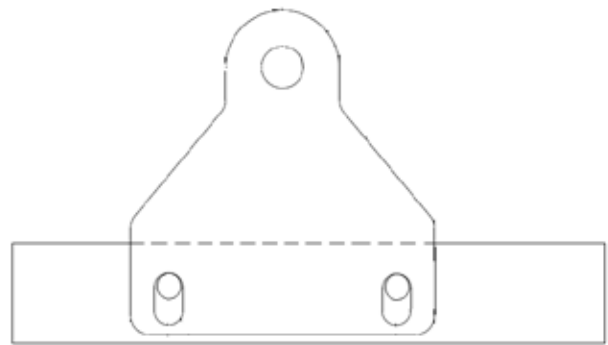
Wheel Brackets



93005.06  
Flange Locking Nut



93005.06 flange locking nuts



With wheel base upside down, attach wheel brackets. The outside (front and rear) brackets will have round mounting holes. The inside (middle if required) brackets will have obround mounting holes.

Allow the inside brackets to settle to the top of the obround hole.



Attach casters with axels and locking nuts provided.

Keep all axels pointed in the same direction to assure smooth operation.

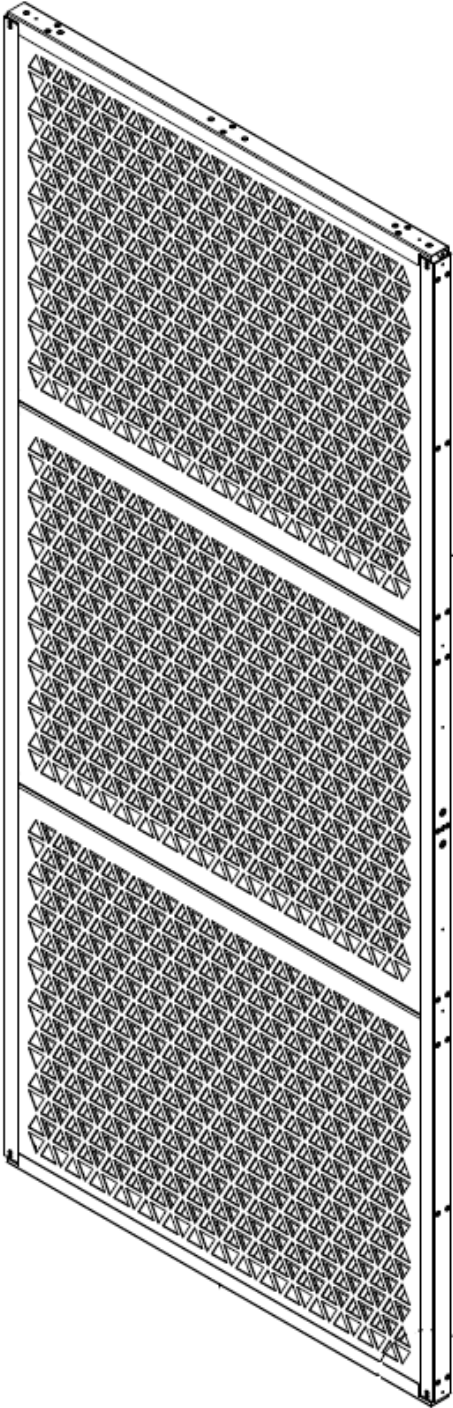
1033024.01 Axel



Place wheel assembly on floor in front of structure.

Place blocking under wheel section to stabilize it while building screens.

# PUNCHED PANEL SCREEN ASSEMBLY





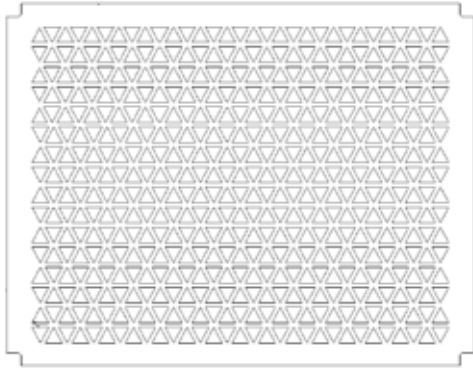
PART NUMBER	DESCRIPTION
4023775.01	1/4—20 x 3/4 cap screw
95006.01	1 1/4—20 x 3/4 flange washer head screw
1004528.01	5/32 blind rivet
1031140P	Punched Panel
1031870P	Horizontal Frame
1031871P	Vertical Frame
1031880	Panel Spacer
1032882.01	Alignment Pin

Quantity determined by size of pull out screens.

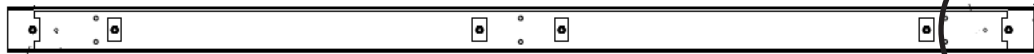
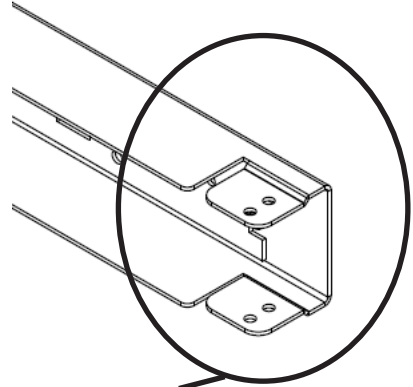
**NOTE:**

Hardware update 3/2023. Images may show old hardware.

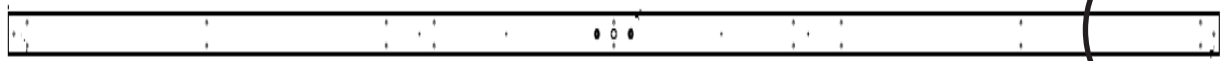




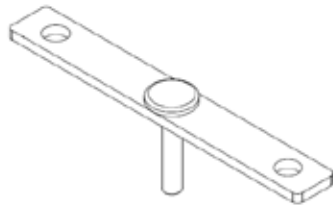
Punched Screen Panel



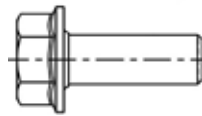
Horizontal Post



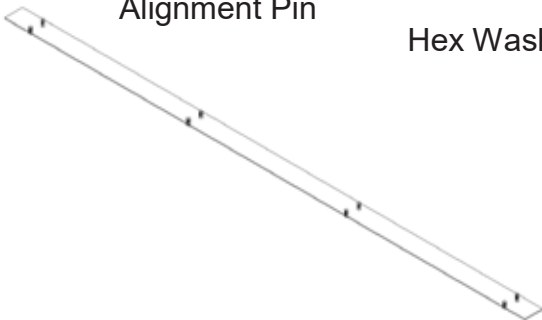
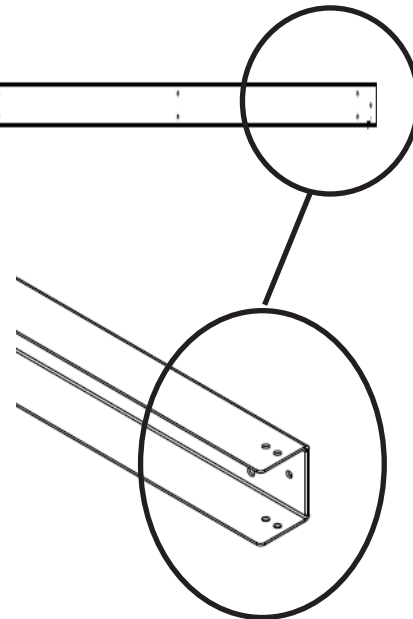
Vertical Post



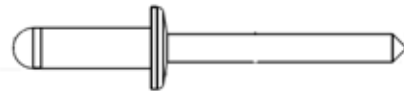
1302882.01  
Alignment Pin



95006.01  
Hex Washer Head Screw



Screen Spacer



1004528.01  
Blind Rivet



Lay one horizontal and one vertical frame on a table or work surface.

Rivet corner together with four rivets. Two top and two bottom rivets.

*1004528.01– Rivet*

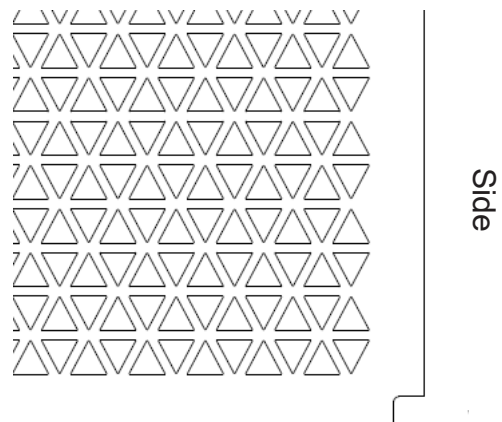


Lay one screen panel into the corner of the frame. Screen face will be down with flanges up.

Pay attention to punch pattern to assure correct orientation.

Making sure screen panel is tight to frame, rivet the side and bottom.

Lay second screen panel on top of first screen panel and rivet into place. This panel will ve flange down, finish side up.



Top or bottom



Place screen support onto front horizontal support and clamp into place. The bracket opening should be directly under the 80/20 track.

NOTE:

Clamps and Track side supports are not shown for clarity.



Set screen assembly into wheel assembly.



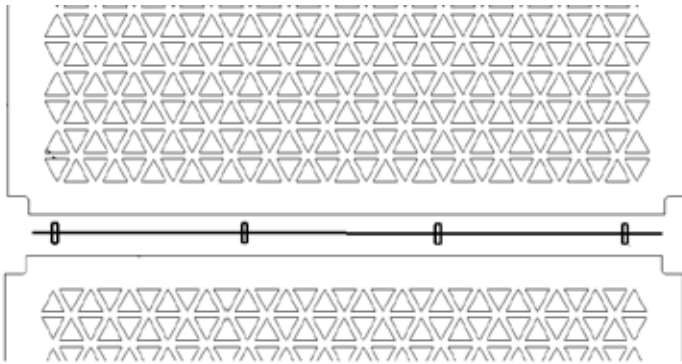
Clamp horizontal post to screen support.



Lay a spacer across the top of the two screen panels.

The pins will engage the holes in the panel and help align the screen panel on top of it.

Use caution when putting the spacer in place. The pins are press fit and can be knocked out if not properly aligned.



Set the next screen on top of the lower screens, making sure to engage the pins in the spacer.



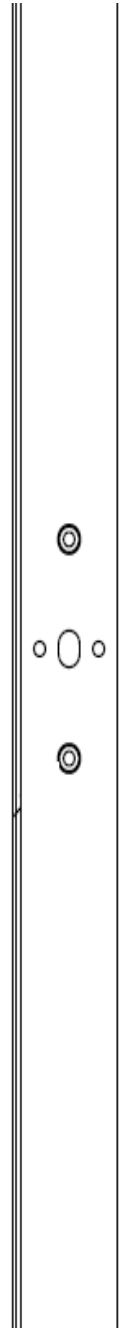
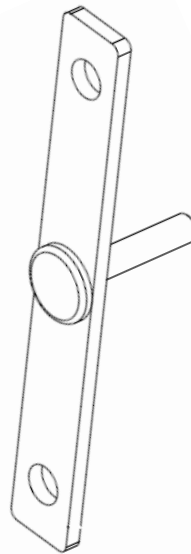
Rivet the screen panel to the vertical frame.  
Continue to add screen panels until you reach full height.



Place top horizontal frame over the top of the panel screens and rivet into place.



Add front vertical frame and rivet into place



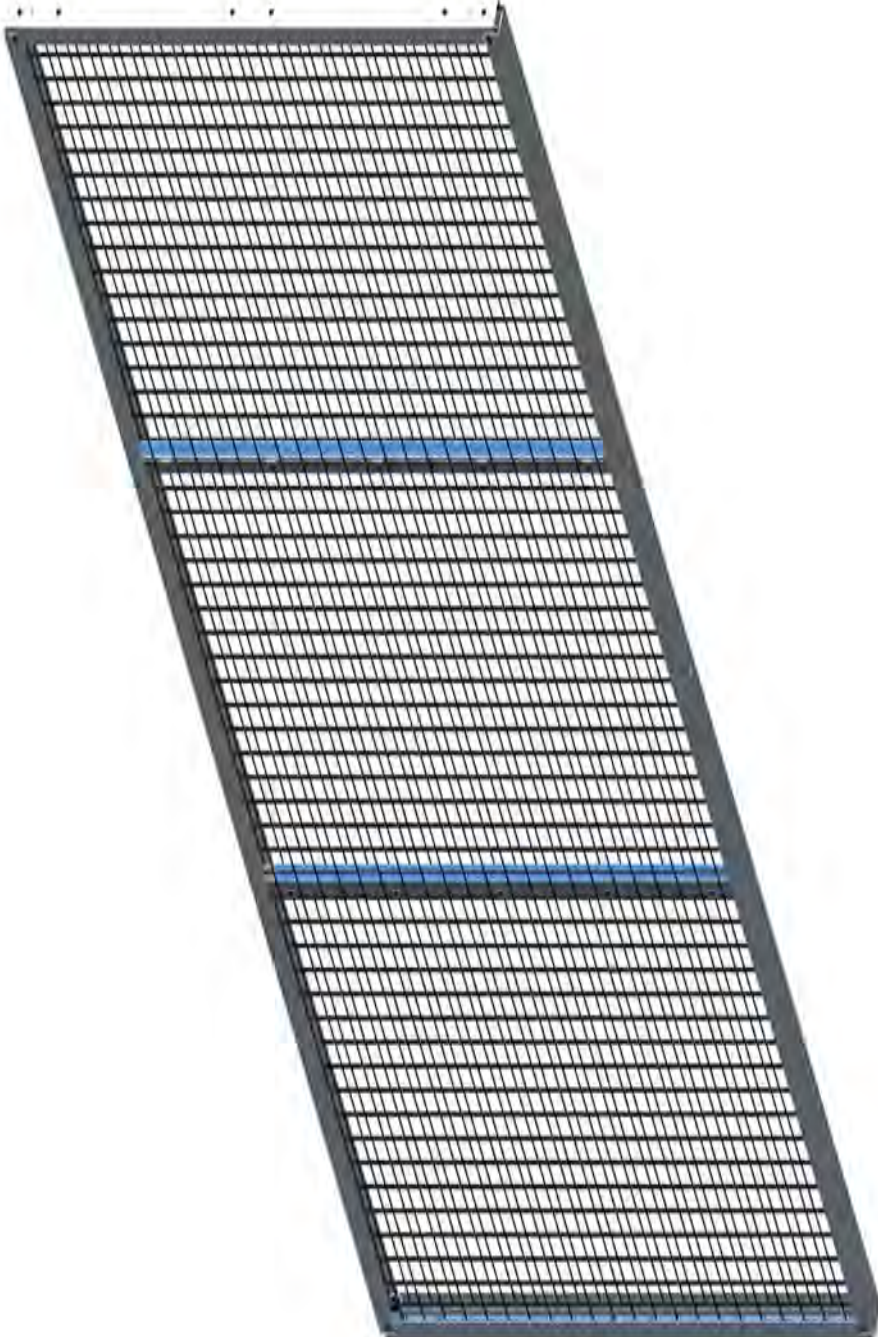
When adding additional panels, the alignment pin must be installed before building the panel.

In the middle of the rear vertical post of each additional screen, you'll add the pin.

Slip pin over knurled nuts and attach with two 95006.01 1/4 -20 x 3/4 flange washer head screws.

When sliding screens together, the protruding pin will interface with the previous panel.

# WELDED WIRE SCREENS





Hang support bracket on front horizontal support.

Align opening in bracket directly under 80/20 track

Clamp into place.

NOTE:

Track side supports are not show for clarity.



TEAM LIFT

Screens are very heavy.

Set screen panel into bottom track.



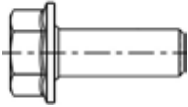



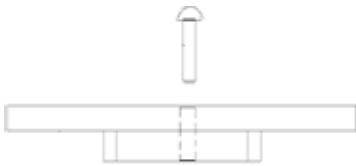
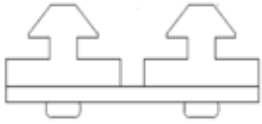
# SCREEN CONNECTIONS

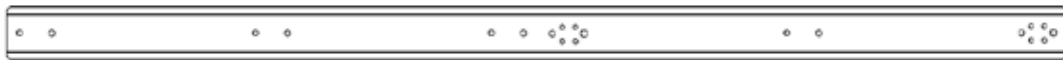
PART NUMBER	DESCRIPTION	RESERVED FROM TOP GUIDE ASSY
1023775.01 95006.01	1/4 — 20 x 3/4 cap screw 1/4-20 x 3/4 flange washer head screw	
1031760P	Dust cover	
1031836.01	Washer	
1023600.02	80/20 spring nut	X
1029552.01P	Guide Spacer Plate	
1030214.01	Track Support	X
1031114.01	Bottom Slide Assy	
1032335.01P	Stop Plate	X
1033012.01	Tri lobe screw	X
1033038.01	Silicone bumper	X
1033079.01	Shoulder Bolt	

Quantities determined by screen size.

NOTE: hardware change 3/2023. Images reflect old hardware in assembly.



		
<p>95006.01</p>	<p>1031836.01</p>	<p>1033079.01</p>
<p>Flange washer head screw</p>	<p>Washer</p>	<p>Shoulder Bolt</p>
		
<p>1029552.01P</p>	<p>1030100.01</p>	<p>1031114.01</p>
<p>Guide Spacer</p>	<p>Alignment Pin</p>	<p>Bottom Guide Assy</p>



1031760P

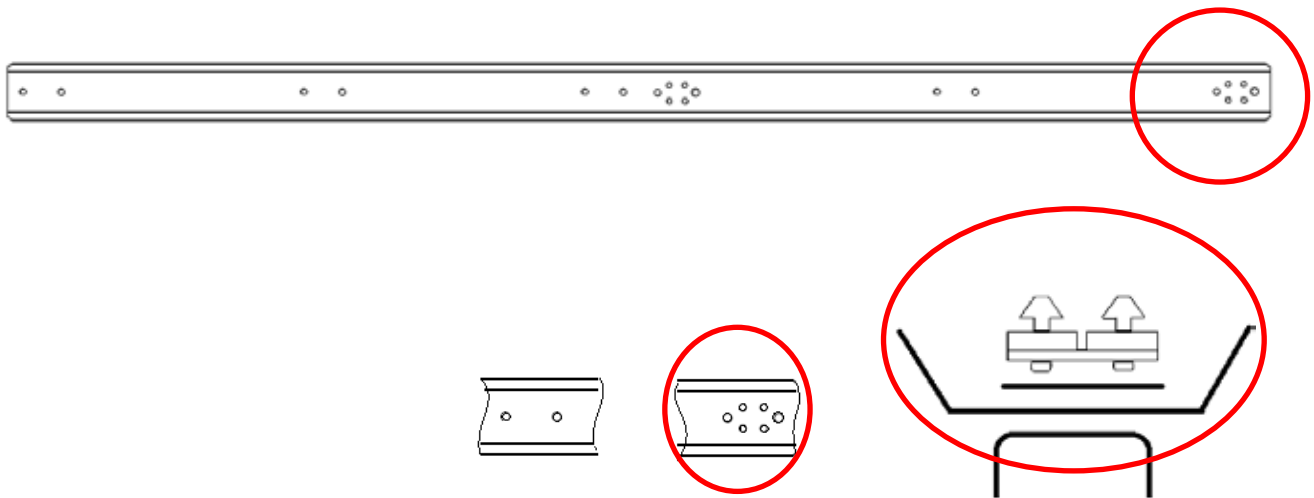
Dust Cover



Always clamp screen panels to bracket for safety.

The six bolt pattern in the dust cover will go toward the rear of the art rack and accept the lower top guide bracket assembly.

The two hole pattern will just be bolted to the tops of the screens.

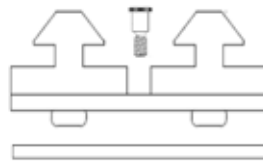




Place dust cover on top of screen.

The six bolt hole pattern goes toward the rear.

If you have two or more screens deep, you will need a helper to hold the dust cover until it is securely attached to the screen and 80/20 top guide.



Attach bottom top guide and dust cover to screen. The guide requires a spacer between the bottom plate and the dust cover.

Attach with two shoulder bolts.

1033079.01 Shoulder Bolt

If using a power tool, make sure you have it on the lowest torque setting so you don't spin out the Riv-nuts.

Put two cap screws with washers thru the dust cover into the screen.

95006.01 Flange washer head screw

1031836.01 Washer

Don't tighten these screws until the next screen is installed.

Note:

Screen support bracket removed for clarity.



Slide 80/20 forward to engage with lower top guide.

You may need to have a helper lift the back of the 80/20 to assist alignment on larger installations.

After the guide is engaged, the support bracket can be removed.



Align art screen with the back of the wheel assembly.



Attach screens to wheel assembly in 6 places with cap screws and washers.

*95006.01 Hex washer head screw*

*1031836.01 Washer*

NOTE:

Art Rack is laying on a table to show clarity.



Place additional art screen panels.

Make sure panels are tight together. A clamp is helpful.

Bolt through the dust cover to attach

Tighten any hardware left loose on the last screen.

After the second bottom top guide is installed , glide the 80/20 over the guide.

Bolt screens to wheel assembly.

Repeat until all screens are placed.

You will have additional lower guides at each six hole pattern in the dust cover.

Remove blocking from under wheel assembly and push screens in. Hold 80/20 top track to make sure it doesn't push back when pushing screen in.

The front of the art rack will have a brake attached. See section regarding brakes for additional hardware requirements before installing front wheel assembly hardware.



Add two bumpers to the front of the 80/20 track. *1033038.01—Bumper*

Opposite the bumpers, slide two 80/20 spring nuts into the side of the 80/20 track. *1023600.02—Spring Nut*

Attach the 80/20 track support with two machine screws

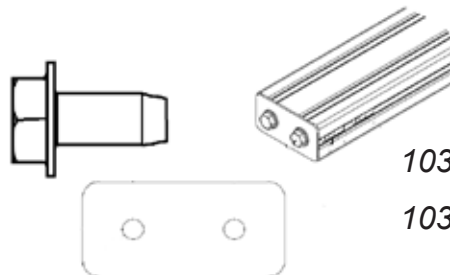
*1030214.01- Track Support*

*96111.04—Machine Screws*

Attach stop plate



If bottom rear bumper was left out, install at this time.



*1032335.01P—Stop Plate*

*1033012.01—Screw*

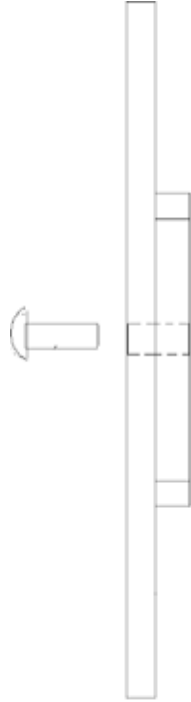


Align and bolt center of screens together.

Recommend using a flex socket or wobble extension.

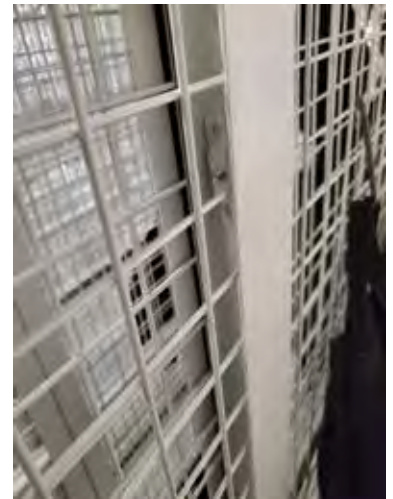
*95006.01—Hex washer head screw*

*1030100.01—Alignment Pin, Welded Wire Screens*



Punched screens

Welded wire screen







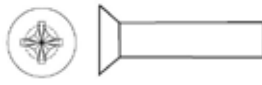
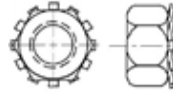




# FINISHING TOUCHES

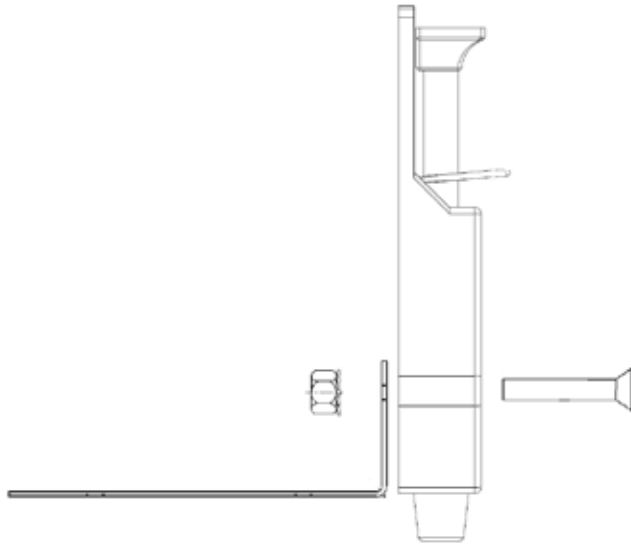


PART NUMBER	DESCRIPTION	QTY
96117.05	TEK SCREW,PAN HEAD,#10,TYP3,ZP,1.50"LONG	3
390038.001	HANDLE - ALUMINUM	1
1024259.01	FOOT BRAKE	1
1030798.01P	BRAKE MOUNTING BRACKET	1
96023.02	SCREW-MACHINE,FLAT HEAD, #8-32	2
93015.04	NUT-HEX, EXT, TOOTH KEPS, #8-32UNC	2
103882.01	ALIGNMENT PIN—PUNCHED SCREEN	
1030100.01	ALIGNMENT PIN—WELDED WIRE	
<del>4023775.04</del>	<del>1/4 -20 x 3/4 CAP SCREW</del>	
95006.01	1/4 -20 x3/4 HEX WASHER HEAD SCREW	
1031836.01	Washer	

Some quantities will be determined by screen size.

NOTE: Hardware changes 3/2023. assembly images may show old hardware.

			
1024259.01	390038.001	96023.02	93015.04
FOOT BRAKE	HANDLE	MACHINE SCREW	KEPS NUT
			
96117.05	1030798.01P	1031836.01	95006.01
TEK SCREW	BRAKE MOUNTING BRACKET	WASHER	1/4—20 X 3/4 HEX WASHER HEAD SCREW



Bolt brake to brake bracket  
96023.02—*Machine Screw*  
93015.04—*Keps Nut*



Attach brake bracket to bottom of wheel assembly using hardware that attached the screens to the wheel assembly.

95006.01 *Hex washer head screw*  
1031836.01—*Washer*



Shown with wheel removed to provide details.



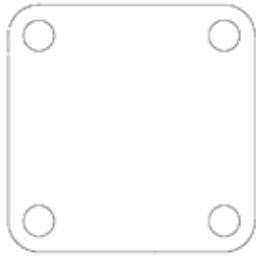
Plumb brake and Tek screw top

96117.05—TEK SCREW



Tek screw handle to front horizontal post using pilot holes.

Bottom of handle will be 42" above floor.



**Verify all end stops are installed into the 80/20 top track prior to extending the screens.**

Check all screens for smooth movement. If you experience any binding due to floor flatness, shims can be added to the corner posts, top glides or the left to right support.

Adding shims to the corner posts can cause the screens to hit the bottom of the structure when pushed in. If you see interference, add an extra half bumper to the front 80/20 stops.

If you screens don't pull out or push in strait:

Loosen wheel brackets on the wheel base assembly and extend and retract the screens a couple times.

Retighten the hardware.

Verify strait travel.

Adjust middle wheels so they provide support, but also so the end wheels are always in contact with the floor, but never raise the out-bound wheels.

There may be times that the mid wheels are not making contact.

This adjustment might take several attempts to get correct, depending on the flatness of floor.