



## Assembly Guide IWB100\_IWB102\_2014\_D

Check out our other products online at  
[www.copernicused.com](http://www.copernicused.com)

For assistance, please contact us:

**1-800-267-8494**

Email [info@copernicused.com](mailto:info@copernicused.com)

Have your packing slip ready for reference

## WARNING !

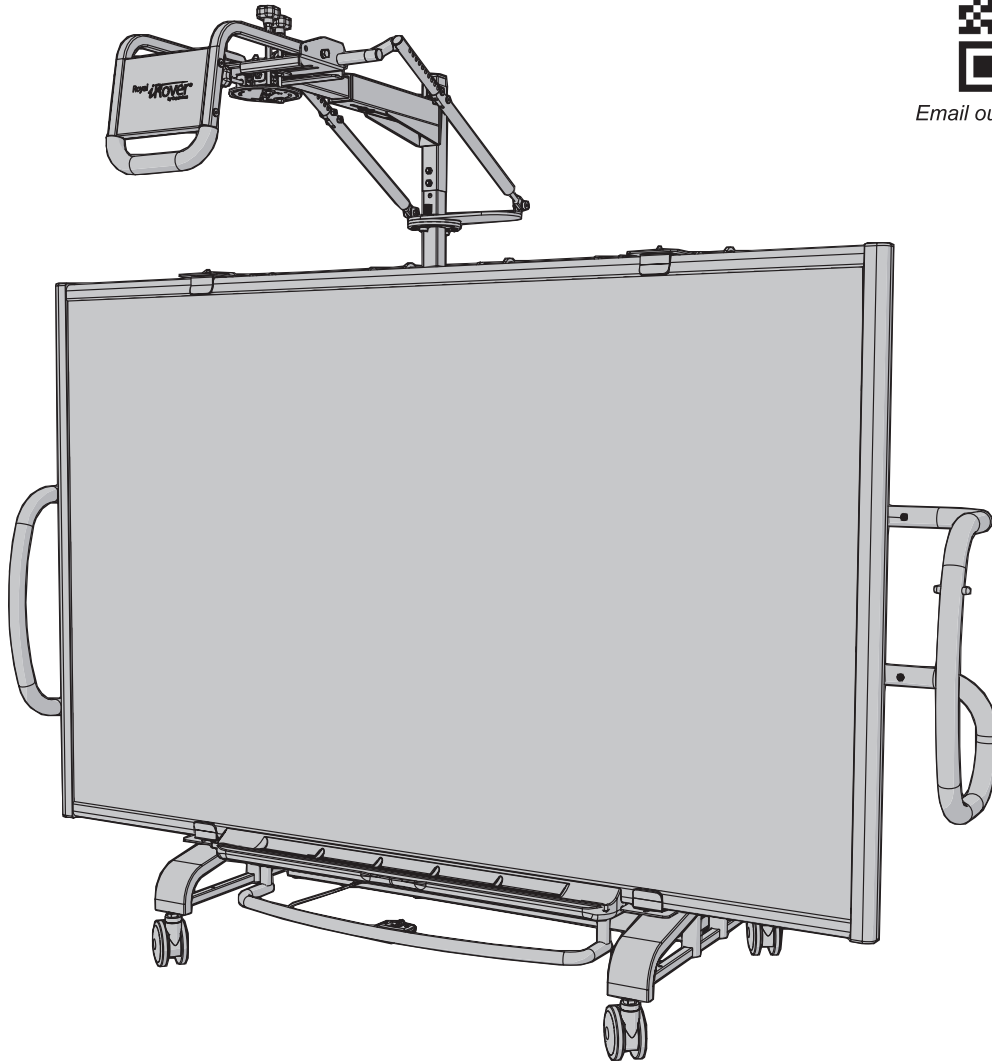
- This product is meant to be assembled by an adult.
- In its unassembled state, small parts present a hazard.
- To be used under direct supervision of an adult.

"If you ever need to change the Board or Projector on your iRover2, please contact us so we can assist you."

**Need Support?  
Have a Question?**



Email our Customer Support



*Projector Arm may not be exactly as shown, depending on your model.*



**Please Recycle**



## Assembly Guide

### IWB100\_IWB102\_2014\_D

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Dear Educator,

Thank you for purchasing one of our products. I hope the assembly of your iRover<sup>2</sup> went well.

If you have any questions, or concerns, or ideas for how we can improve, please call us at 1-800-267-8494, where someone will be happy to help.

Enjoy using your new product, and happy teaching,

Jim Phillips  
President

We do not inherit the earth  
from our ancestors, we  
borrow it from our children.

NORTH AMERICAN  
PROVERB

Change is the end result of  
all true learning.

LEO BUSCAGLIA

What you leave behind is  
not what is engraved in  
stone monuments, but  
what is woven into the lives  
of others.

PERICLES

Education is the most  
powerful weapon which you  
can use to change the world.

NELSON MANDELA

**5**  
**Year**  
Warranty  
Frame

## Validate Your Warranty

To validate your 5 year warranty, submit the ON-LINE form at [www.copernicused.com](http://www.copernicused.com)  
**Enter a drawing to win a Copernicus Product for your classroom at the same time!**







# Warning! Hazard Risks!

Please read the warnings below for important safety information regarding your product. Failure to read these warnings or to follow the instructions below could result in personal injury or damage to your product that could void your warranty.



Small Parts

In its unassembled state, this product contains parts that can be hazardous to small children. This product should be assembled by an adult.



Adult Supervision

This product is to be used under the supervision of an adult.



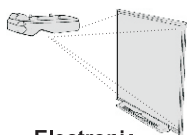
Indoor Use Only

This product is intended for indoor use only. To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The internal components are not sealed from the environment.



Powerbar Specifications

Read your powerbar's electrical specifications. Only plug in devices that are approved for use with this powerbar. Connect the supplied power bar directly to a wall outlet. **Do not connect to another power bar or use an extension cord.** Unplug when not in use.



Electronic Equipment

Read the electrical specifications of any electronic equipment you are using with your Copernicus products. Failure to read these specifications and follow their instructions could result in damage to your equipment or personal injury.



Cable Trip Hazard

Ensure that any cables extending across the floor to your product are properly bundled and marked to avoid tripping or falling which may lead to personal injury.



Electrical Shock

Do not install or use the electrical components of this unit during a lightning storm.



Climb Hazard

Do not climb on, hang from or suspend objects from any components of your product unless otherwise specified.





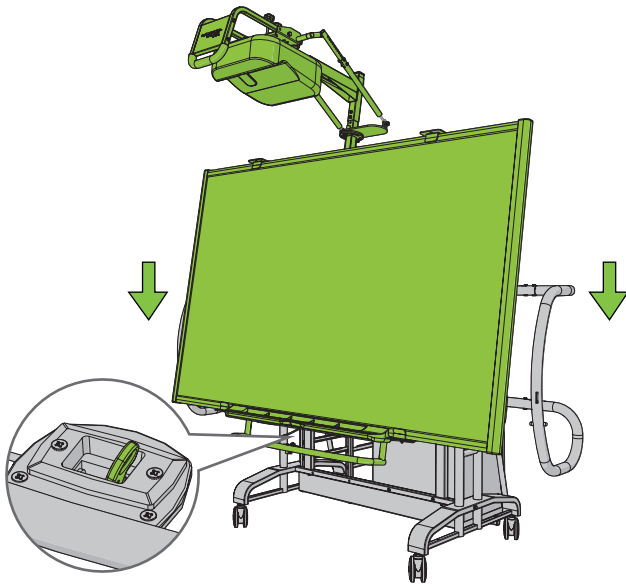
# Moving Your iRover<sup>2</sup>



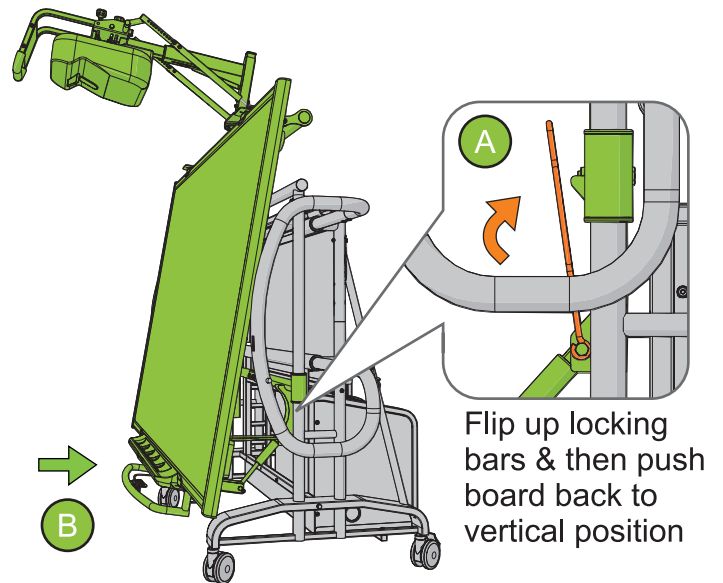
## Always move your iRover<sup>2</sup> with two people.

When moving your iRover2 or when not in use, ensure that the projector arm is turned to the side, the unit is sitting in the lowest height, and the board is vertical and not tilted, to avoid the risk of tipping.

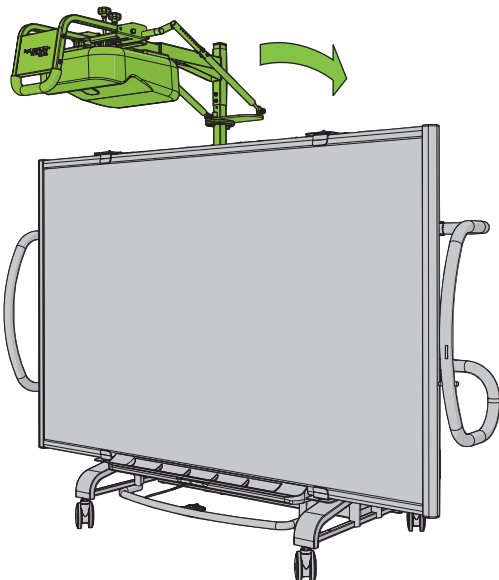
### 1) Lower Board All the Way



### 2) Remove tilt by pushing board inward

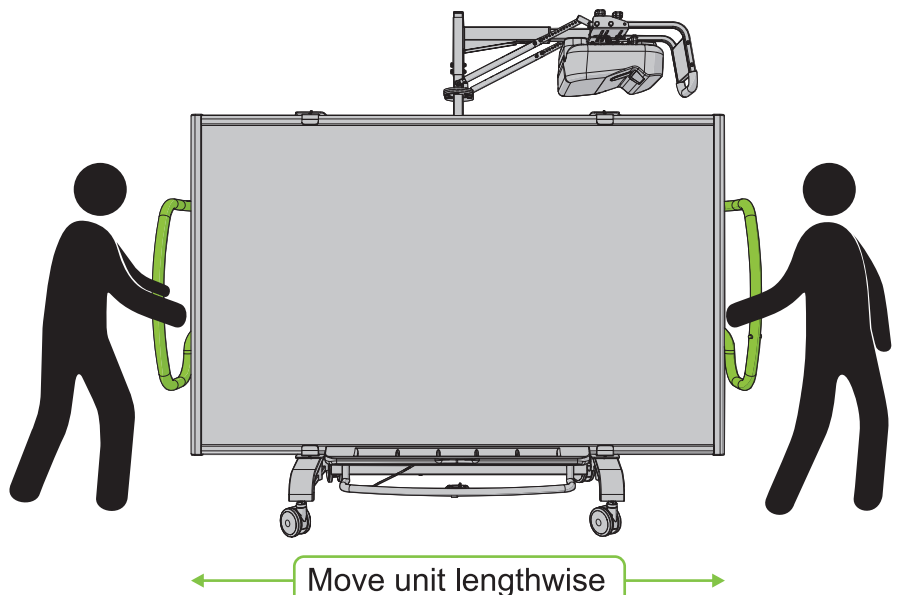


### 3) Turn PA to side



### 4) Always move unit with two people

*\*Don't forget to unlock your casters*



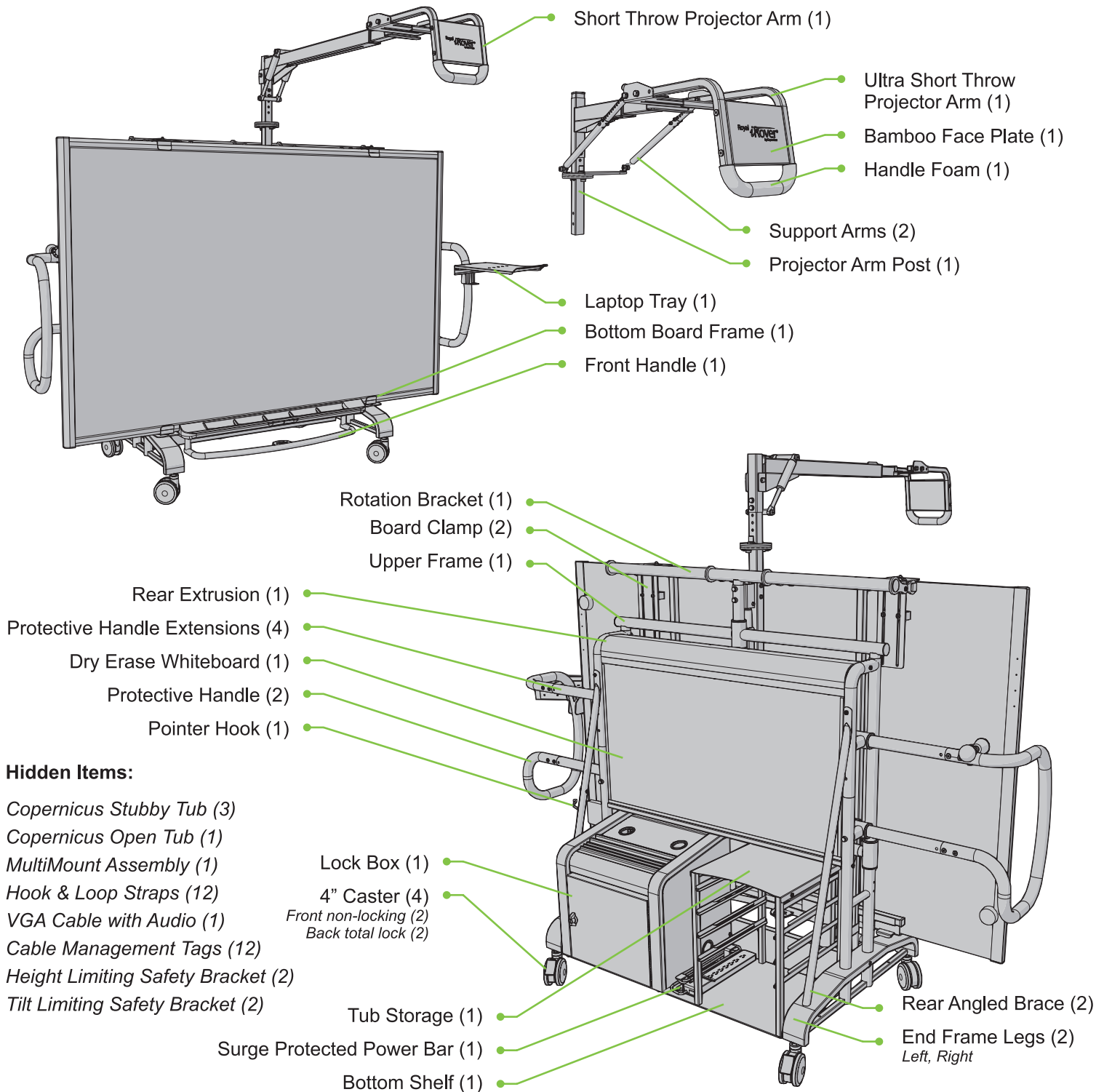


## WARNING

Please note that in its unassembled state, this product contains parts that can be hazardous to small children. This product should be assembled by an adult.

### Projector & Interactive Board not included.

Parts may vary depending on your model.



#### Hidden Items:

Copernicus Stubby Tub (3)  
Copernicus Open Tub (1)  
MultiMount Assembly (1)  
Hook & Loop Straps (12)  
VGA Cable with Audio (1)  
Cable Management Tags (12)  
Height Limiting Safety Bracket (2)  
Tilt Limiting Safety Bracket (2)



## Before beginning, you should have:

Additional tools required:



OR

7mm,  
10mm,  
13mm (2),  
17mm (2)

+

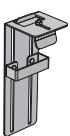


+

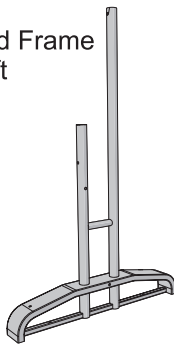
Screwdriver  
⊕ Phillips #2

### Contents - IWB-0

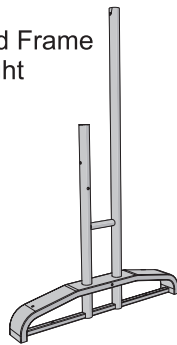
Board  
Clamp  
2x



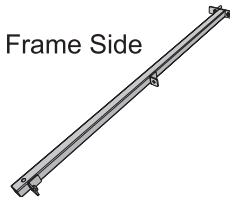
End Frame  
Left  
1x



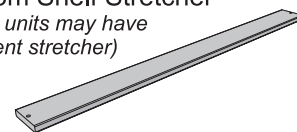
End Frame  
Right  
1x



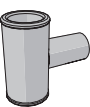
Board Frame Side  
2x



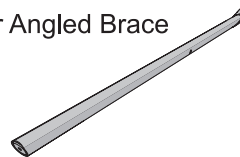
Bottom Shelf Stretcher  
(base units may have  
different stretcher)  
1x



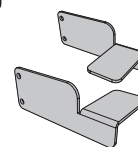
Slide Frame  
Handle  
1x



Rear Angled Brace  
2x



Height Limiting  
Safety Bracket  
(left and right)  
2x



Slide Frame  
1x



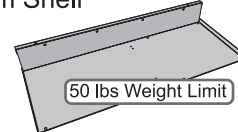
Hook & Loop Straps  
(saved from your  
packaging in this box)  
12x



4" Caster  
(2 non-locking,  
2 locking)  
4x

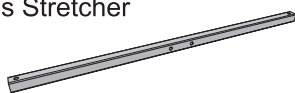


Bottom Shelf  
1x

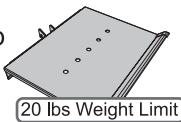


50 lbs Weight Limit

Cross Stretcher  
2x



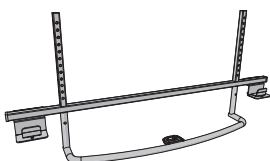
Laptop  
Tray  
1x



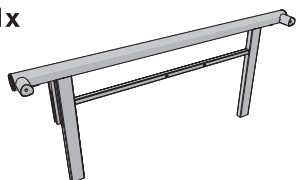
20 lbs Weight Limit

### Contents - IWB-1 or IWB-2

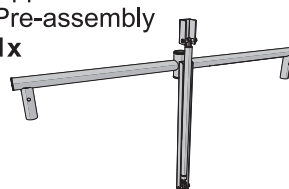
Board Frame Mount  
1x



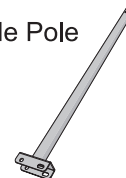
Protective Handle Holder  
1x



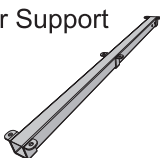
Upper Frame  
Pre-assembly  
1x



Center Slide Pole  
1x



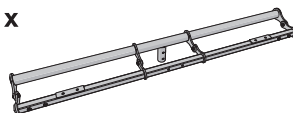
Center Support  
1x



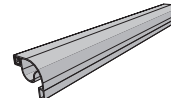
Tilt Brace  
2x



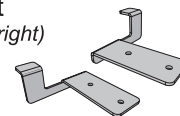
Rotation Bracket  
1x



Rear Extrusion  
1x

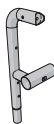


Tilt Limiting Safety  
Bracket  
(left and right)  
2x

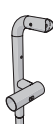


### Contents - IWB-3

Back Support  
Left  
1x



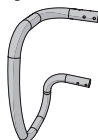
Back Support  
Right  
1x



Protective Handle  
Extensions  
4x



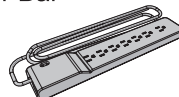
Protective  
Handle Left  
1x



Protective  
Handle Right  
1x

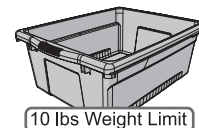


Power Bar  
1x



### Contents - IWB-CB

Open Tub  
1x  
(CC4068)



10 lbs Weight Limit

Stubby Tub  
3x  
(CC4074)



5 lbs Weight Limit

... box hardware on following page

**Before beginning, you should have:**

In IWB-0

Hardware  
Actual Size

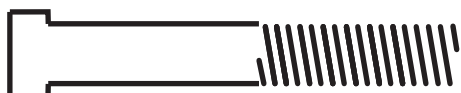
(A) Partially threaded M8 x 100mm bolt  
2x



(B) Partially threaded M8 x 60mm bolt  
2x



(C) Partially threaded M8 x 55mm bolt  
10x



(D) Partially threaded M10 x 55mm bolt  
2x



(LL) Partially threaded M8 x 50mm bolt  
2x



(E) Partially threaded M8 x 40mm bolt  
4x



(F) Partially threaded M8 x 35mm bolt  
10x



(J) M5 x 60mm bolt  
1x



(G) M6 x 50mm bolt  
6x



(Y) M6 x 40mm bolt  
2x



(H) M6 x 30mm bolt  
10x



(i) M6 x 25mm bolt  
1x



(X) M6 x 15mm bolt  
6x



(K) M4 lock nut  
4x



(XX) M5 Lock Nut  
1x



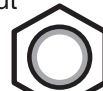
(Z) M6 lock nut  
9x



(L) M6 nut  
4x



(M) M8 lock nut  
16x



(N) M10 lock nut  
2x



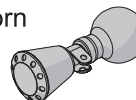
(O) M6 barrel nut  
11x



Allen Key 4mm  
2x  
(Not to Scale)  
(43281)



Attention horn  
1x



Caster wrench  
1x



(P) 12mm spacer  
4x



(Q) M6 lock washer  
17x



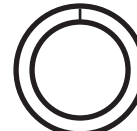
(R) M8 flat washer  
12x



(S) M8 lock washer  
14x



(T) M12 lock washer  
4x



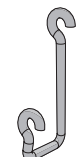
(U) M6 internal tooth lock washer  
2x



(V) Contour washer  
6x



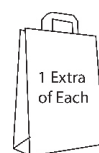
Pointer hook  
1x



Cable hook  
2x



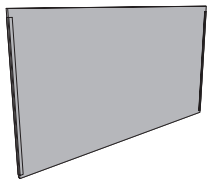
Bag of extra hardware  
1x  
(432091)



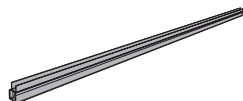
**Before beginning, you should have:**

## Contents - IWB-8

Whiteboard  
1x

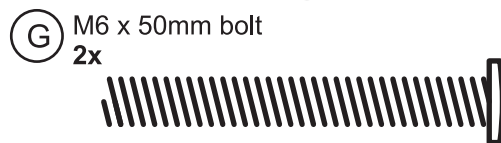
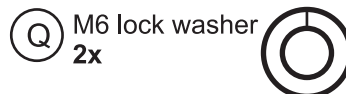


Whiteboard Bottom Channel  
1x



In IWB-8

Hardware  
Actual Size



## Contents - IWB-9

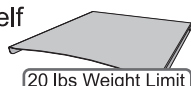
Tub Frame  
Left  
1x



Tub Frame  
Right  
2x



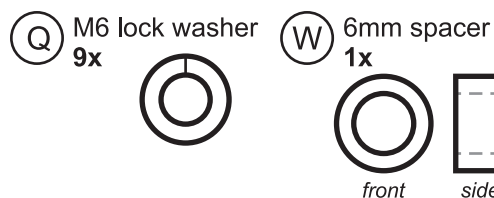
Tub Frame Top Shelf  
1x



20 lbs Weight Limit

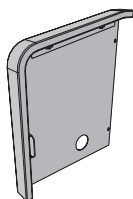
In IWB-9

Hardware  
Actual Size

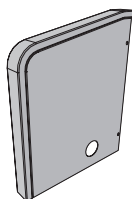


## Contents - IWB-7

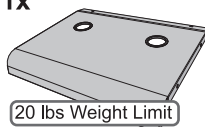
Lock Box Side Panel  
Left  
1x



Lock Box Side Panel  
Right  
1x

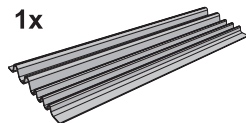


Lock Box Top  
1x

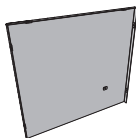


20 lbs Weight Limit

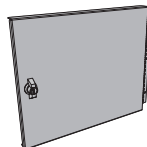
Lock Box Top  
Divider  
1x



Lock Box Back  
1x

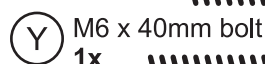
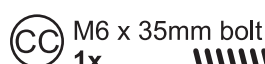
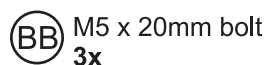
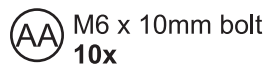
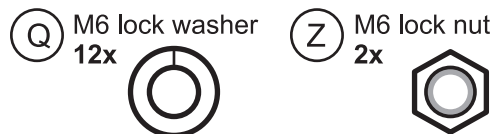


Lock Box Door  
1x



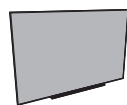
In IWB-7

Hardware  
Actual Size

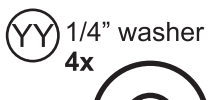
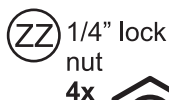


## Contents - 32126A

Copernicus 77"  
whiteboard  
1x

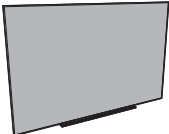


Whiteboard  
bracket  
4x

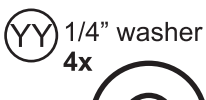
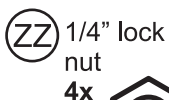


## Contents - 32128A

Copernicus 87"  
whiteboard  
1x



Whiteboard  
bracket  
4x





**Before beginning, you should have:**

## Contents - IWB-4

Ultra Short Throw Projector  
Arm  
1x

Brace Spacer  
(comes attached to  
Inner Brace)  
1x

Outer Brace  
2x

Inner Brace  
2x

MultiMount  
1x

Spider Arm  
Long  
1x

Spider Arm  
Medium  
2x

Spider Arm  
Short  
4x

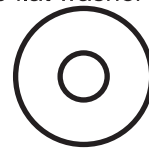
VGA Cable  
1x

Ultra Short Throw  
Projector Post  
1x

## In IWB-4

## Hardware Actual Size

DD M6 flat washer  
2x



R M8 flat washer  
6x



Q M6 lock washer  
4x



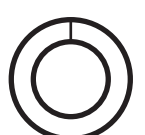
S M8 lock washer  
6x



L M6 nut  
4x



GG M10 lock washer  
2x



EE M6 nut coarse  
thread  
2x



HH Knob  
2x  
(Not to Scale)  
(42104)



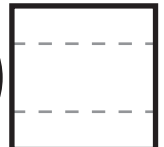
FF M6 lock nut  
2x



M M8 lock nut  
2x



ii 19mm  
spacer  
2x



front

side

MM M4 lock  
washer  
4x



RR M4 x 10mm bolt  
4x



NN Flat  
washer  
8x



SS M4 x 16mm bolt  
4x



OO 1/4"  
spacer  
4x



TT M4 x 20mm bolt  
4x



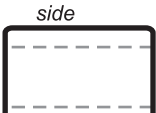
PP 1/2"  
spacer  
4x



WW M4 x 25mm bolt  
4x



QQ 3/4"  
spacer  
4x



UU M4 x 30mm bolt  
4x



VV 10-24 x 0.5" Bolt  
4x



H M6 x 30mm bolt  
4x



JJ M10 shoulder bolt - M8 x 11mm thread  
2x



KK M8 x 40mm bolt  
4x



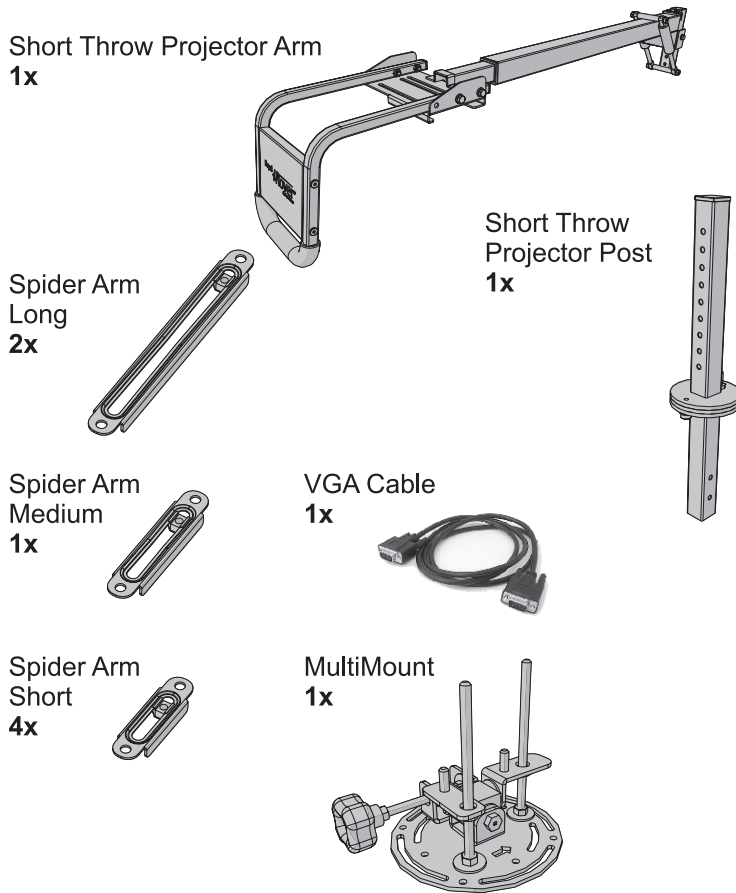
LL Partially threaded M8 x 50mm bolt  
2x





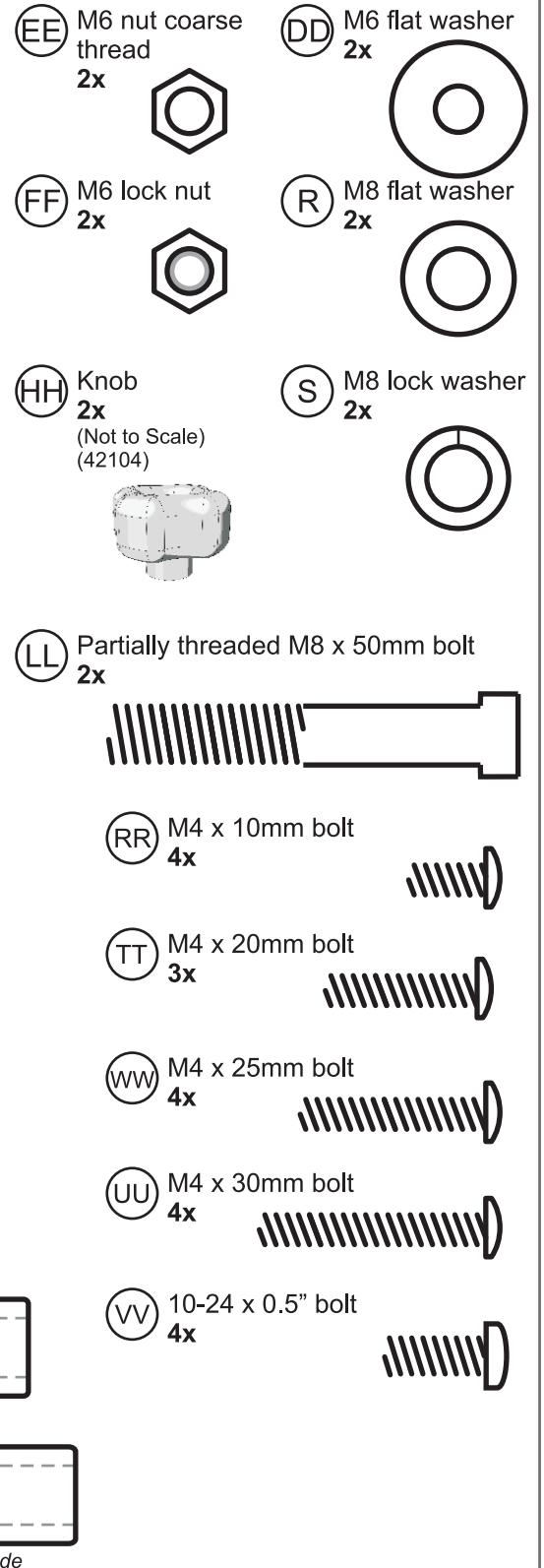
**Before beginning, you should have:**

## Contents - IWB-5



In IWB-5

## Hardware Actual Size



# Tips for Assembly

## Watch for These Helpful Symbols

This symbol denotes a 2- or 3- Person Task. For safety, please ensure that there are the suggested number of people working on steps displaying this symbol.



2-Person Task



3-Person Task

Watch for this symbol throughout the Assembly Guide. Wherever you see it, pay close attention. The symbol denotes a step needing extra attention to ensure it is done correctly.



The star symbol highlights an advisory note.



## Before You Begin

- Lay out and identify all of the included parts.
- The hardware has been packed according to step.
- Read the assembly guide over once to familiarize yourself with them.



Please note that in its unassembled state, this product contains parts that can be hazardous to small children. This product should be assembled by an adult.

## As You Assemble the Unit

- Follow the steps in sequence.
- Before beginning each step, find the part(s) that you need for that step.
- Pay attention to the labels on the parts; they are there to help direct you at certain stages.
- The title of each step states what you will be doing. Review the text and the pictures as you build the unit.



# Customer Service - FAQ's ??

### For missing parts and other issues regarding the frame:

- The height adjust system is not working.
- The projector mount cannot be rotated.
- I lost the key to my lock box.

Please call Copernicus Customer Service, where we will be happy to help.  
1-800-267-8494. Monday - Friday 8:30am - 4:30 pm EST.

OR

Email our Tech Support Service at [vanessa@copernicused.com](mailto:vanessa@copernicused.com)

## Need Tech Support? Have a Question?



Email our Tech Support Service

### My projector isn't working, who should I call?

Please call the reseller that you bought the product from first (reseller information can be found on your packing slip).

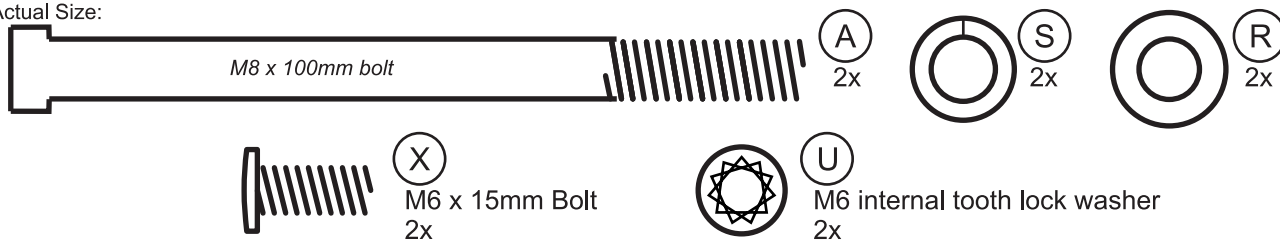
### My interactive board isn't working, who should I call?

Please call the reseller that you bought the product from first (reseller information can be found on your packing slip).

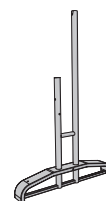
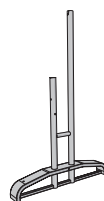
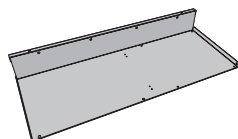


1

Actual Size:

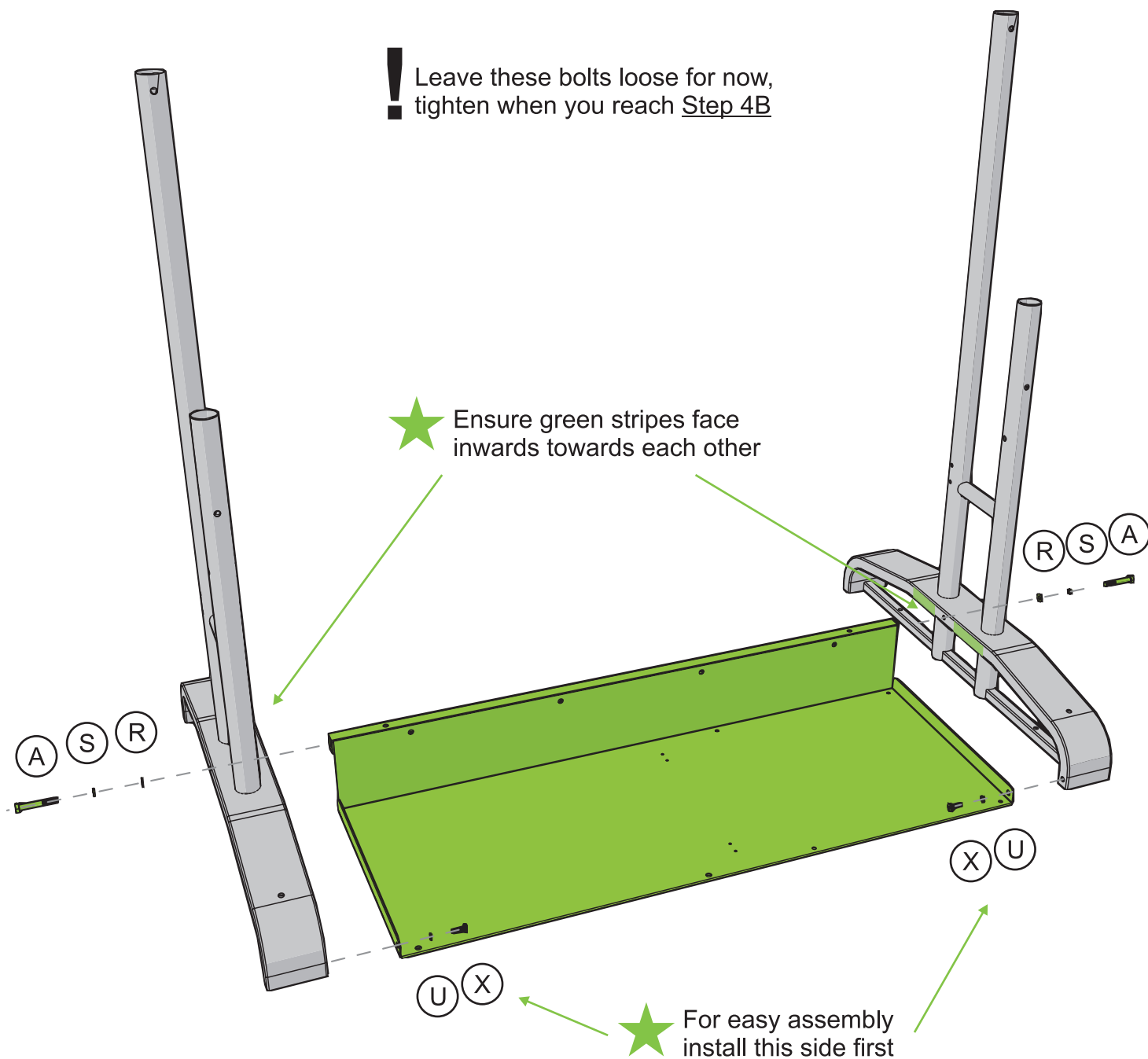


You will need: (Not to Scale)



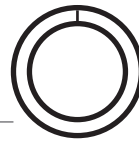
## Attach End Frames to the Bottom Shelf

! Leave these bolts loose for now, tighten when you reach Step 4B



2

Actual Size:

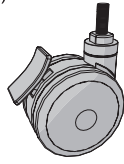
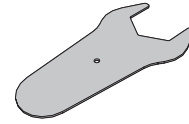


T

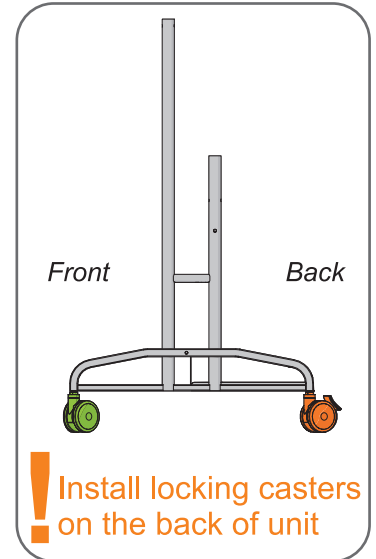
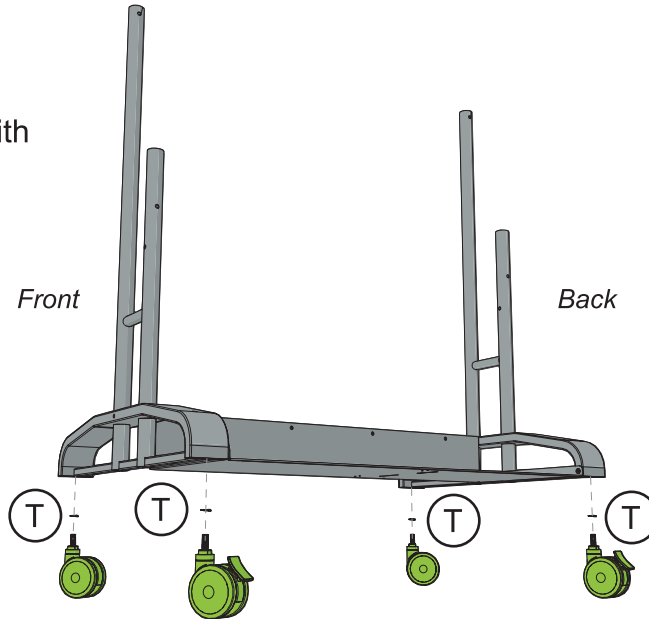
M12 Lock Washer  
4x

2-Person Task

You will need: (Not to Scale)

4" Caster  
(2 non-locking, 2 total lock)  
4xCaster Wrench  
1x

## Install Casters

Tighten casters with  
supplied wrenchDo not lock  
casters prior to  
tighteningInstall locking casters  
on the back of unit

3

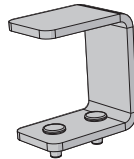
Actual Size:



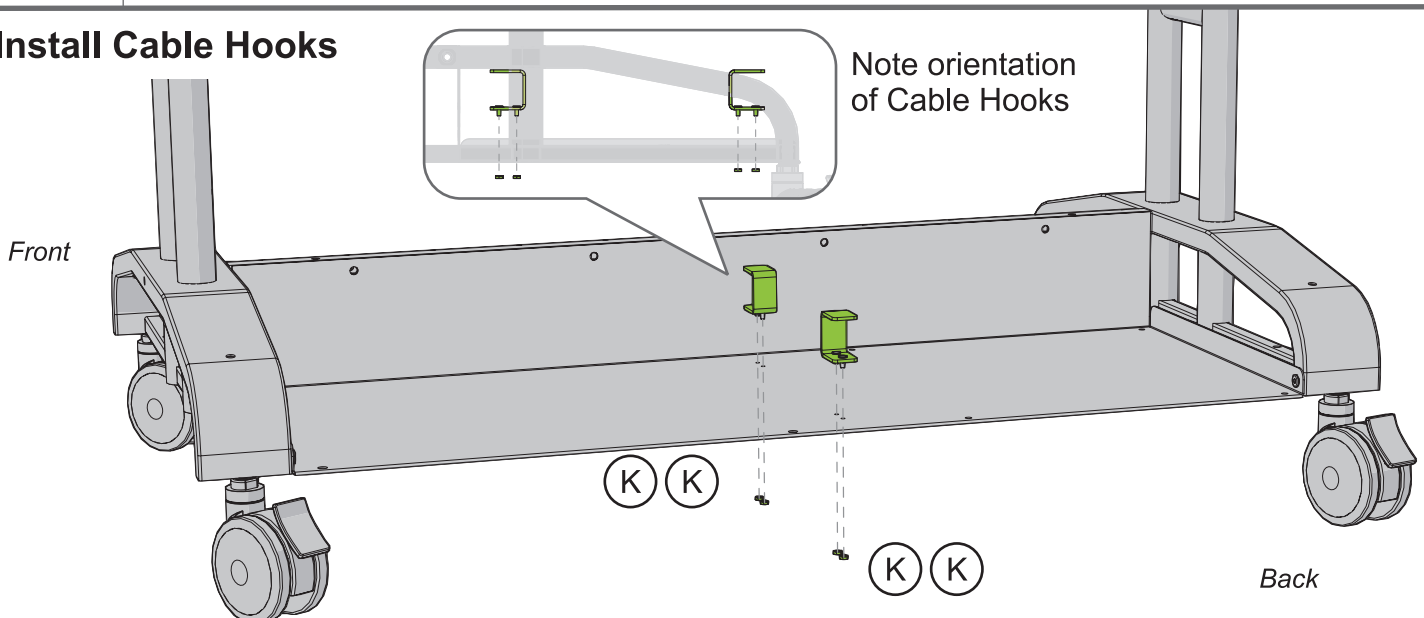
K

M4 Lock Nut  
4x

You will need: (Not to Scale)

Cable Hook  
2x

## Install Cable Hooks

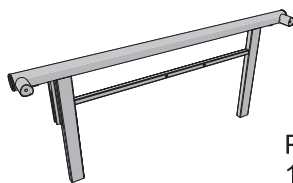
Note orientation  
of Cable Hooks

4A

Actual Size:

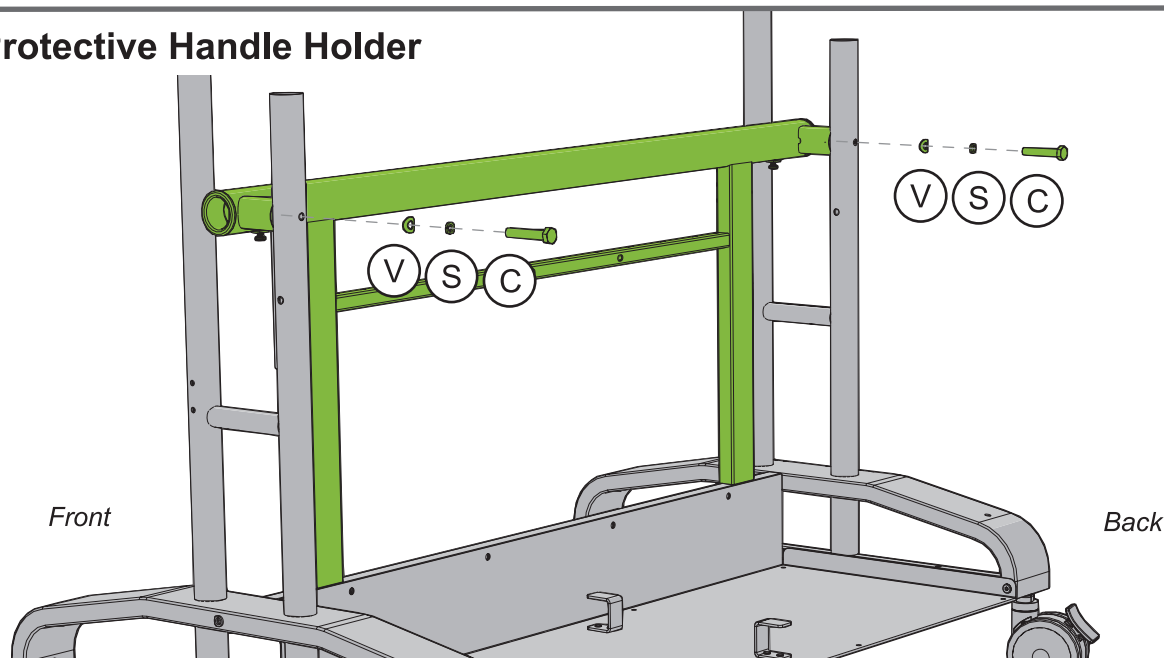


You will need: (Not to Scale)



Protective Handle Holder  
1x

## Install Protective Handle Holder



4B

Actual Size:

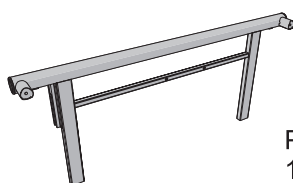


L  
M6 Nut  
2x



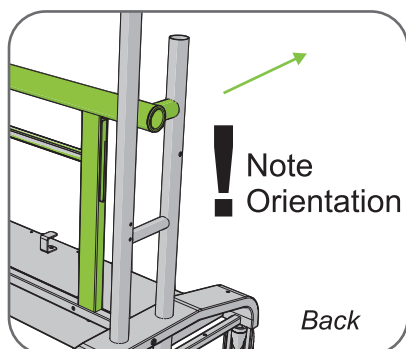
Q  
M6 Lock Washer  
2x

You will need: (Not to Scale)

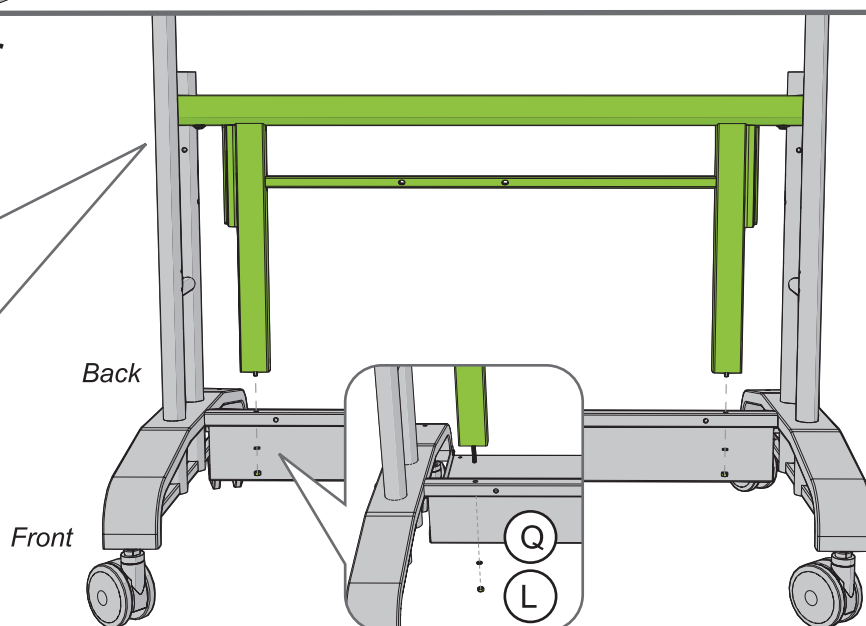


Protective Handle Holder  
1x

## Install Protective Handle Holder



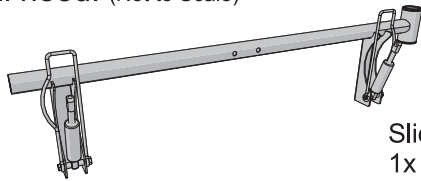
! Tighten all bolts on the  
unit right now



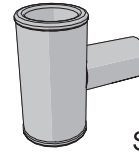
5

Actual Size:

You will need: (Not to Scale)

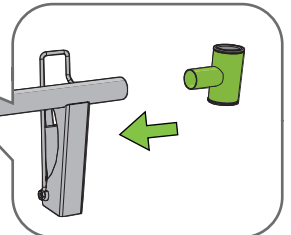
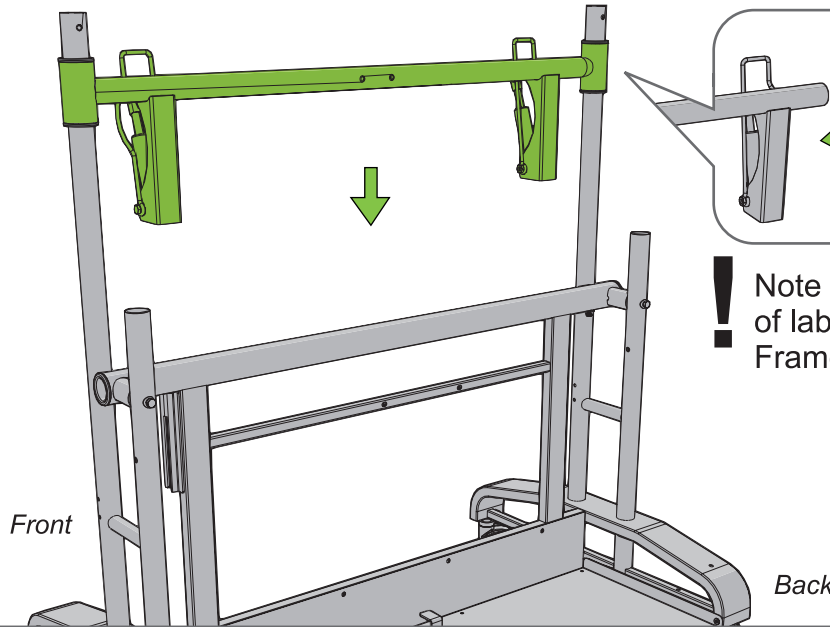
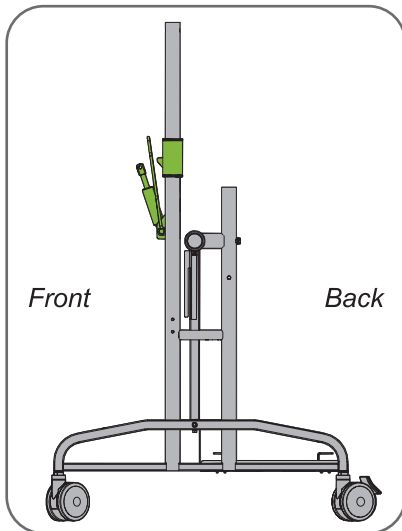


Slide Frame  
1x



Slide Frame Handle  
1x

## Install Slide Frame



! Note orientation of label on Slide Frame Handle

6

Actual Size:

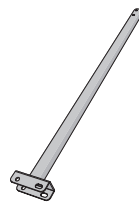


(D) M10 x 55mm bolt  
2x



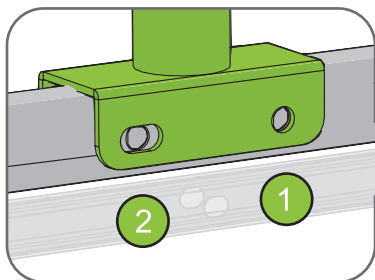
(N) M10 Lock Nut  
2x

You will need: (Not to Scale)



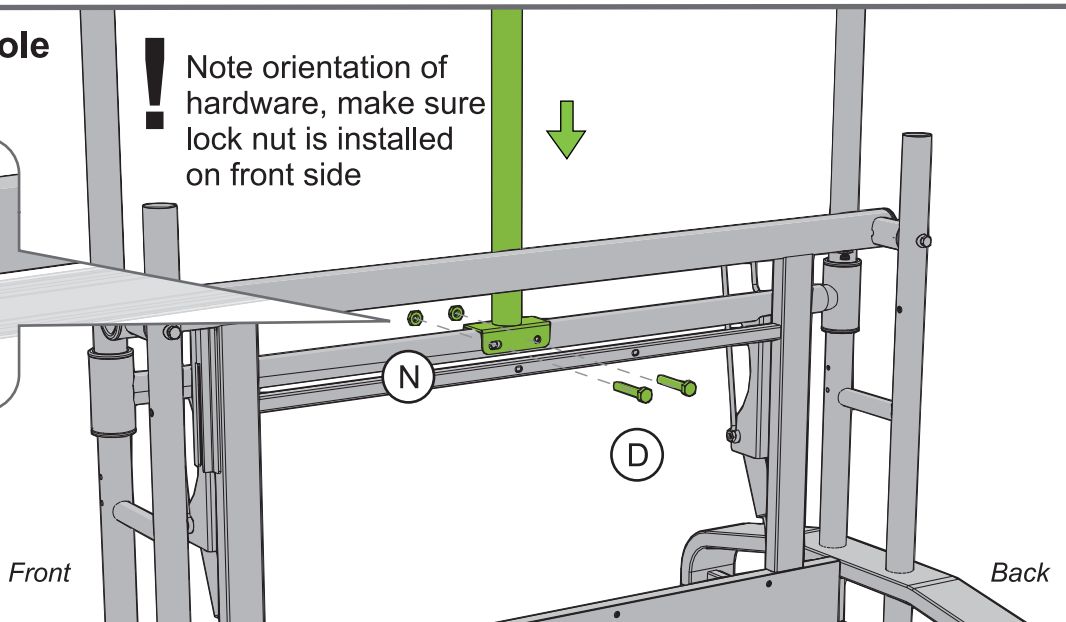
Center Slide Pole  
1x

## Install Center Slide Pole



For easy assembly start with hole 1, then use hole 2

! Note orientation of hardware, make sure lock nut is installed on front side



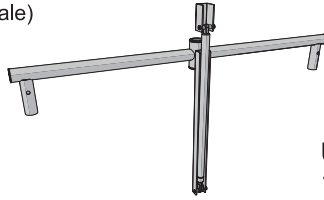
7

Actual Size:

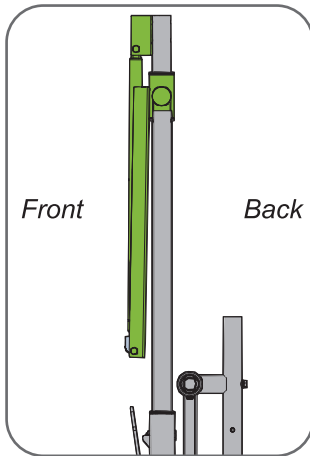


2-Person Task

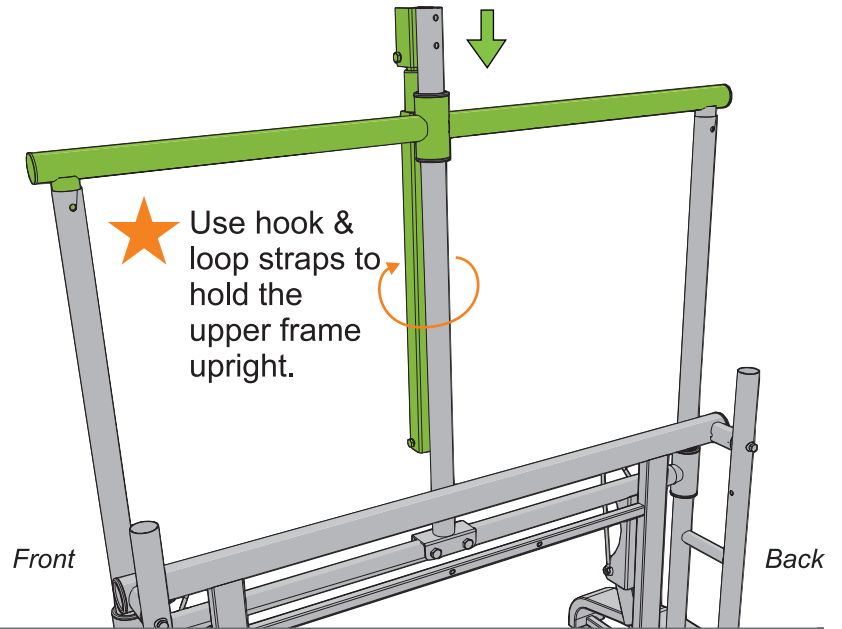
You will need: (Not to Scale)

Upper Frame Assembly  
1x

## Install Upper Frame



Watch orientation of shock

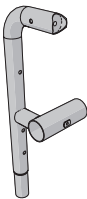
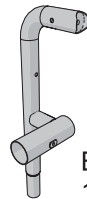


8

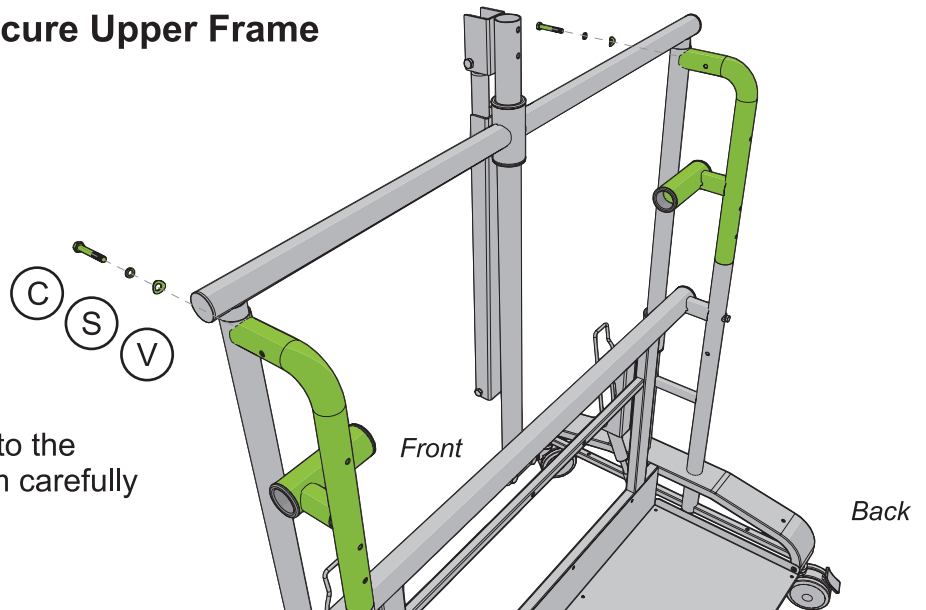
Actual Size:



You will need: (Not to Scale)

Back Support Left  
1xBack Support Right  
1x

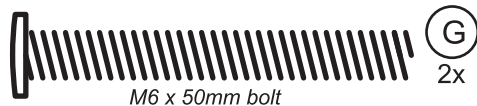
## Install Back Supports & Secure Upper Frame

There is a Left and Right to the  
Back Support, watch them carefully



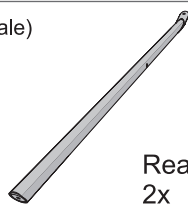
9

Actual Size:

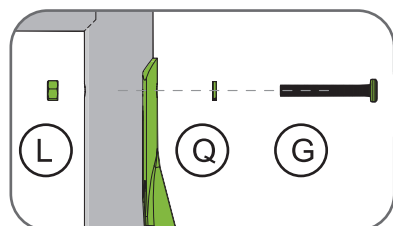


2-Person Task

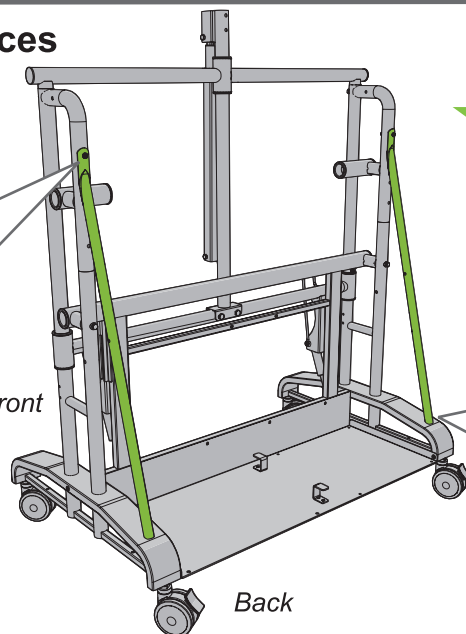
You will need: (Not to Scale)

Rear Angled Brace  
2x

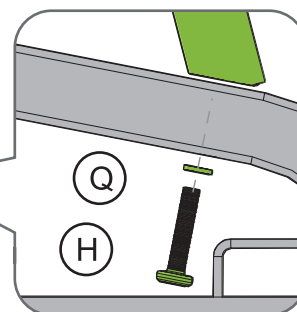
## Install Angled Support Braces



Front



Back

Secure bottom of brace first,  
for ease of assembly

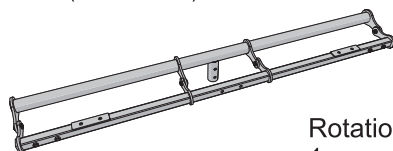
10

Actual Size:

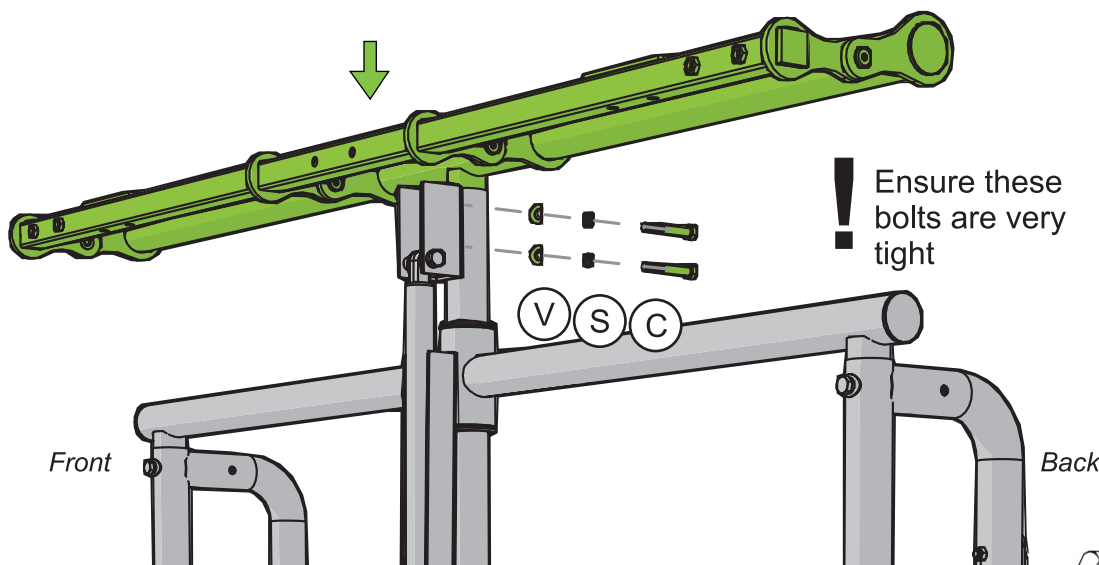
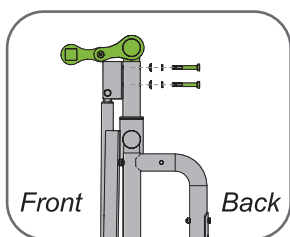


2-Person Task

You will need: (Not to Scale)

Rotation Bracket  
1x

## Attach Rotation Bracket to Main Frame

Note orientation  
of Rotation BracketEnsure these  
bolts are very  
tight

11

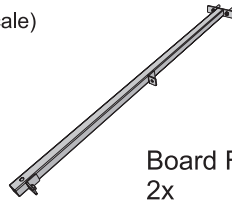
Actual Size:



(M)

M8 Lock Nut  
4x

You will need: (Not to Scale)



Board Frame Side  
2x

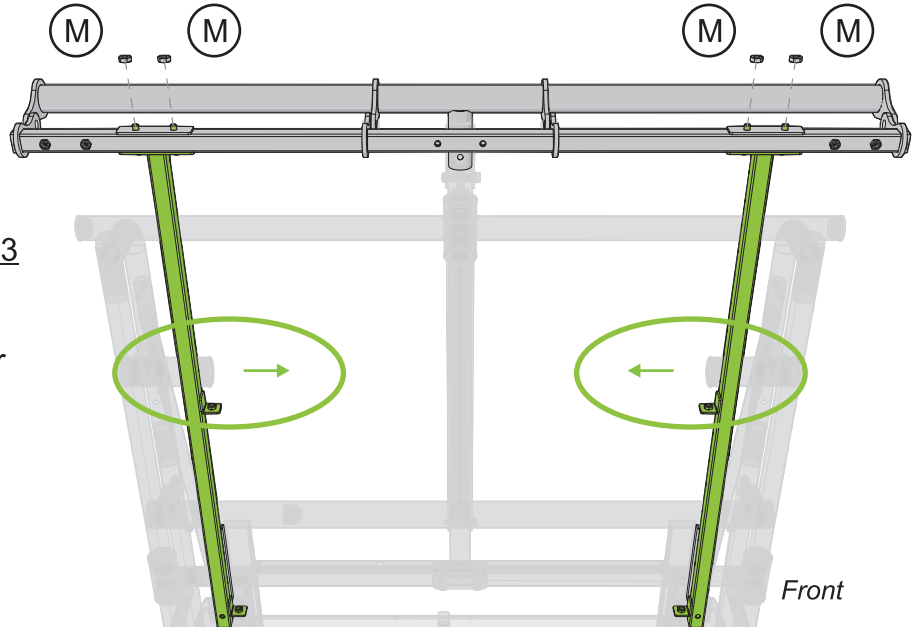
## Install Side of Board Mounting Frame



Leave bolts loose for now, tighten when you reach [Step 13](#)



Make sure tabs face inward for installing stretchers next



12

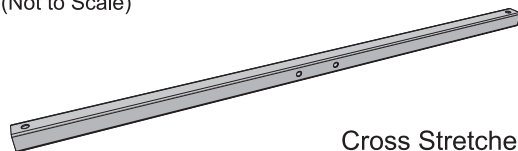
Actual Size:



(F)

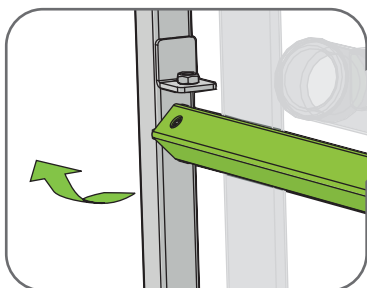
M8 x 35mm  
4x

You will need: (Not to Scale)



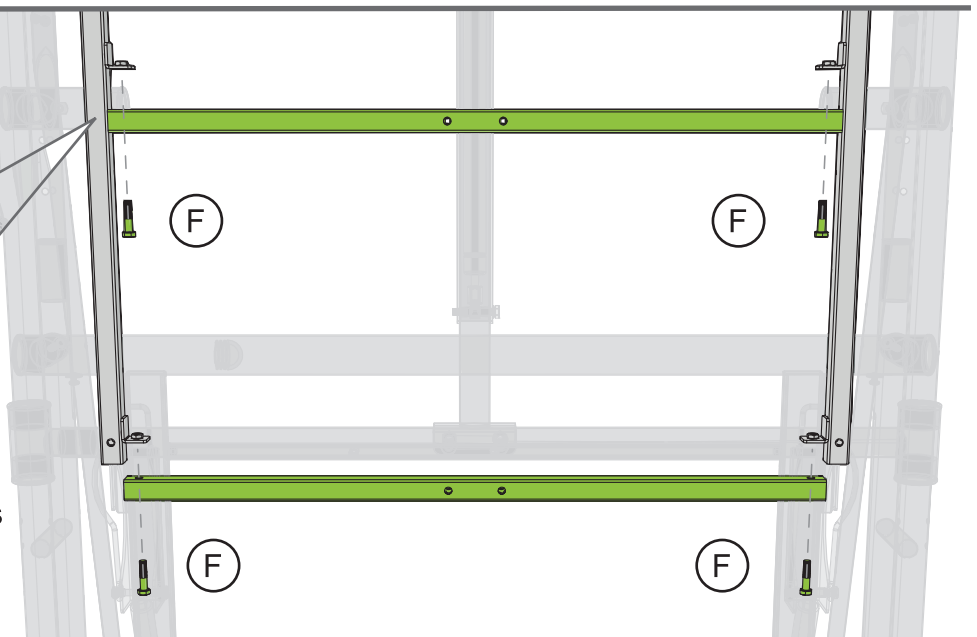
Cross Stretcher  
2x

## Attach Cross Stretchers



If you have difficulty installing the Cross Stretchers try flipping them around

Front



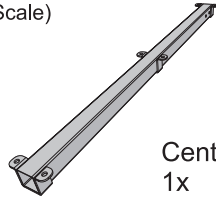


(F)  
M8 x 35mm  
6x



(M)  
M8 Lock Nut  
6x

You will need: (Not to Scale)

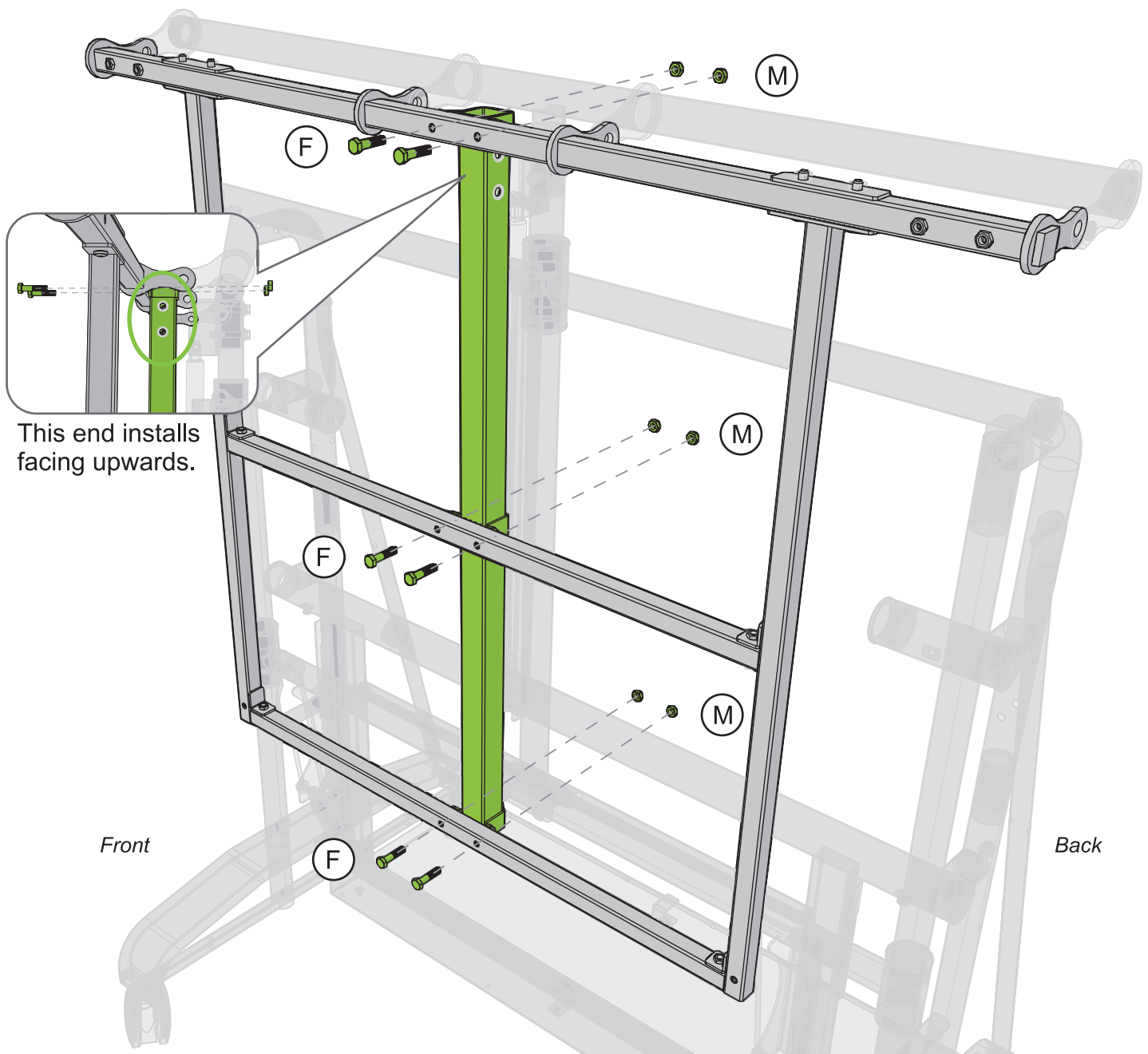


Center Support  
1x

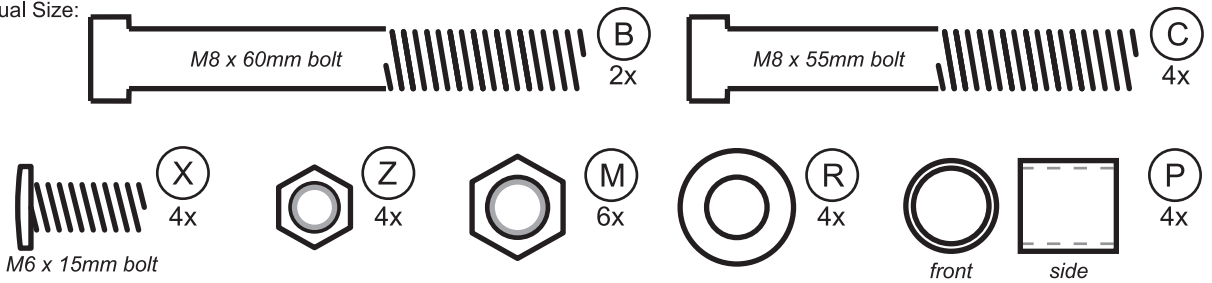
## Install Center Support

**!** Watch orientation, make sure you install behind the stretchers

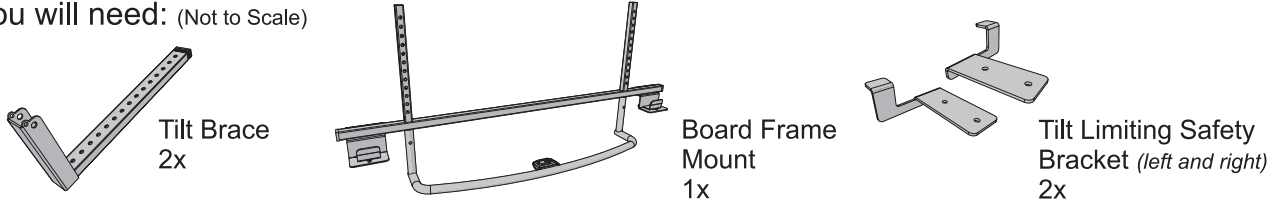
**★** Install bolts & leave loose until all bolts are started. Then tighten all bolts.



Actual Size:



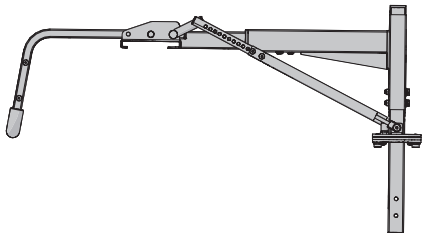
You will need: (Not to Scale)



## 1 Determine Board Frame Mount Position

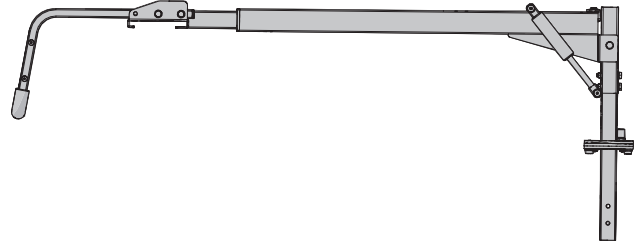
**!** Before moving forward we need to know the following:

What **PROJECTOR** we are using,  
What **BOARD** we are using.



(Ultra Short Throw Projector Arm)

OR

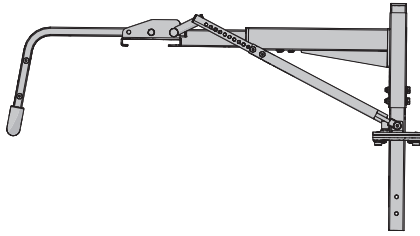


(Short Throw Projector Arm)

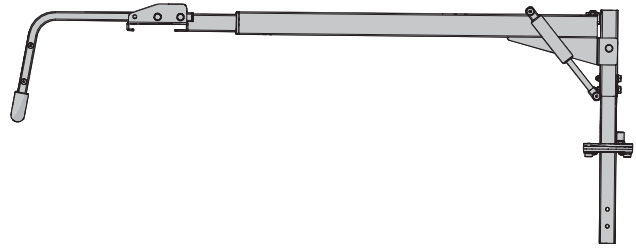
Once you know your projector & board combination turn to  
the next page for setup details →



... continued



Ultra Short Throw Projector Arm



Short Throw Projector Arm

Projector	Model	Board ("SB" = Smart)	Board Frame
BenQ	MX850U-ST	SB 660	i
	MX850U-ST	SB 680	A
	MX850U-ST	SB 880	A
	MX850U-ST	SBM 680	A
	MX850U-ST	Promethean 378	A
	MW851U-ST	SB 680	A
	MW851U-ST	SB 880	A
	MW851U-ST	SB 685	A
	MW851U-ST	SB 885	A
	MW851U-ST	SBM 685	A
	MW843U-ST	SBM 685	A
Epson	470 / 480 / 570 / 580	SB 660	i
	470 / 480 / 570 / 580	SB 680	A
	470 / 480 / 570 / 580	SB 880	A
	470 / 480 / 570 / 580	SBM 680	A
	470 / 480 / 570 / 580	Promethean 378	A
	470 / 480 / 570 / 580	Promethean ABT 78	A
	470i / 480i	Copernicus 77" WB	C
	475W / 485W / 575W / 585W	SB 660	i
	475W / 485W / 575W / 585W	SB 680	A
	475W / 485W / 575W / 585W	SBM 680	A
	475W / 485W / 575W / 585W	SB 685	A
	475W / 485W / 575W / 585W	SB 885	A
	475W / 485W / 575W / 585W	SBM 685	A
	475W / 485W / 575W / 585W	Promethean ABT 88	A
	475Wi / 485Wi / 575Wi / 585Wi	Copernicus 87" WB	C
	475Wi / 485Wi / 575Wi / 585Wi	Egan 90" WB	B
	*595Wi	Copernicus 87" WB	C
Hitachi	CP-A220N	SB 660	i
	CP-A220N	SB 680	A
	CP-A220N	SB 880	A
	CP-A220N	SBM 680	A
	CP-A220N	Promethean 378	A
	CP-A220N	Promethean ABT 78	A
	CP-A301N	SB 660	i
	CP-A301N	SB 680	A
	CP-A301N	SB 880	A
	CP-A301N	Promethean 378	A
	CP-AW252N	SB 685	A
	CP-AW252N	SB 885	A
	CP-AW252N	SBM 685	A
	CP-AX2503/CP-AX3503	SB 680	A
	CP-AX2503/CP-AX3503	SBM 680	A
	CP-AX2503/CP-AX3503	Promethean ABT 78	A
	CP-AW2503	SB 685	A
	CP-AW2503	SB 885	A
	CP-AW2503	SBM 685	A
	CP-AW2503	Promethean ABT 88	A
NEC	UM330X	SB 660	i
	UM330X	SB 680	A
	UM330X	SBM 680	A
	UM330X	SB 880	A
	UM330X	Promethean 378	A
	UM330W	SB 685	A
	UM330W	SBM 685	A
	UM330W	SB 885	A
	UM330W	MimioBoard ME-87	B
	UM330W	SB 680	A
Smart	UF75W	SB 680	A
	UF75W	SB 880	A
	UF75W	SBM 680	A
	UF75W	SB 685	A
	UF75W	SB 885	A
	UF75W	SBM 685	A
	LightRaise 40Wi	Copernicus 77" WB	C
	LightRaise 40Wi	Copernicus 87" WB	C
	UF70W	SB 685	A
	UF70W	SB 885	A
	UF70W	SBM 685	A
	UF70	SB 680	A
	UF70	SB 880	A
	UF70	SBM 680	A

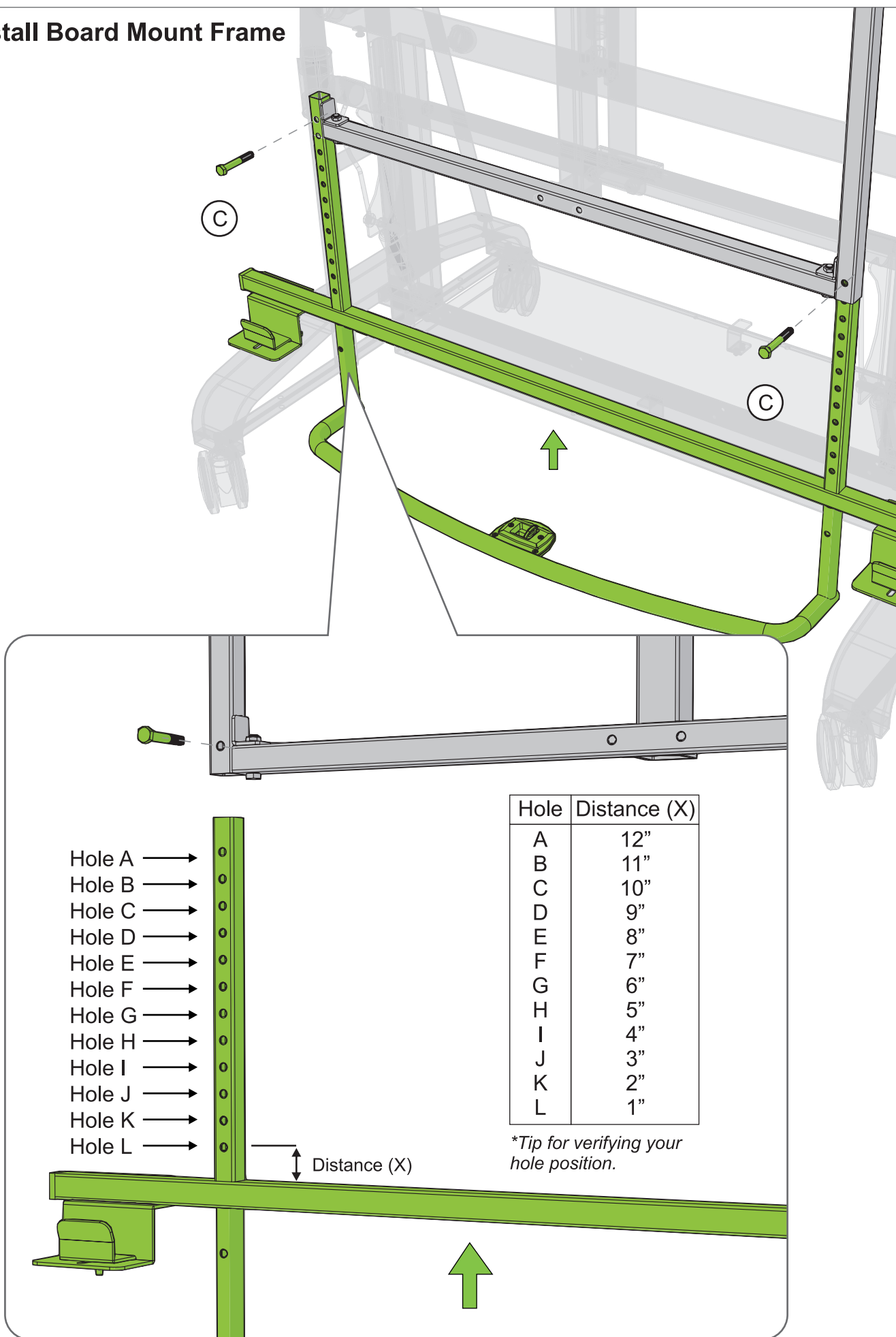
Projector	Model	Board ("SB" = Smart)	Board Frame
BenQ	MX816ST	SB 660	L
	MX816ST	SB 680	C
	MX816ST	SB 880	B
	MX816ST	SBM 680	C
	MX816ST	Promethean 378	B
	MW817ST	SB 685	E
	MW817ST	SB 885	D
	MW824ST	SB 685	E
	MW824ST	SB 885	D
	MW824ST	SBM 685	E
Epson	420	SB 660	J
	420	SB 680	D
	420	SB 880	C
	420	SBM 680	D
	420	Promethean 378	C
	435W	SB 660	J
	435W	SB 680	C
	435W	SB 685	C
	435W	SB 885	B
	435W	SBM 685	C
Mitsubishi	EW331U-ST	SB 660	L
	EW331U-ST	SB 680	E
	EW331U-ST	SB 880	D
	EW331U-ST	Promethean 378	D
	EW331U-ST	SB 685	E
	EW331U-ST	SB 885	D
	EW331U-ST	SB 885	D
NEC	M300XS	SB 660	L
	M300XS	SB 680	E
	M300XS	SB 880	D
	M300XS	SBM 680	E
	M300XS	Promethean 378	D
	M300WS	SB 685	B
	M300WS	SBM 685	B
	M300WS	SB 885	A
	M332XS	SBM 680	C
	M352WS	SBM 685	C
Optoma	M352WS	Promethean ABT 88	B
	W306ST	SB 680	B
	W306ST	SB 880	A
	W306ST	SBM 680	A
	W306ST	Promethean 378	A
	W306ST	SB 685	A
	W306ST	SB 885	A

Don't see your projector & board combination here?  
Check P.71 for a complete list of projectors.

\*Epson 595Wi projector must be ordered with bracket (IWB-BK595) in order to mount touch module for finger touch interactivity.

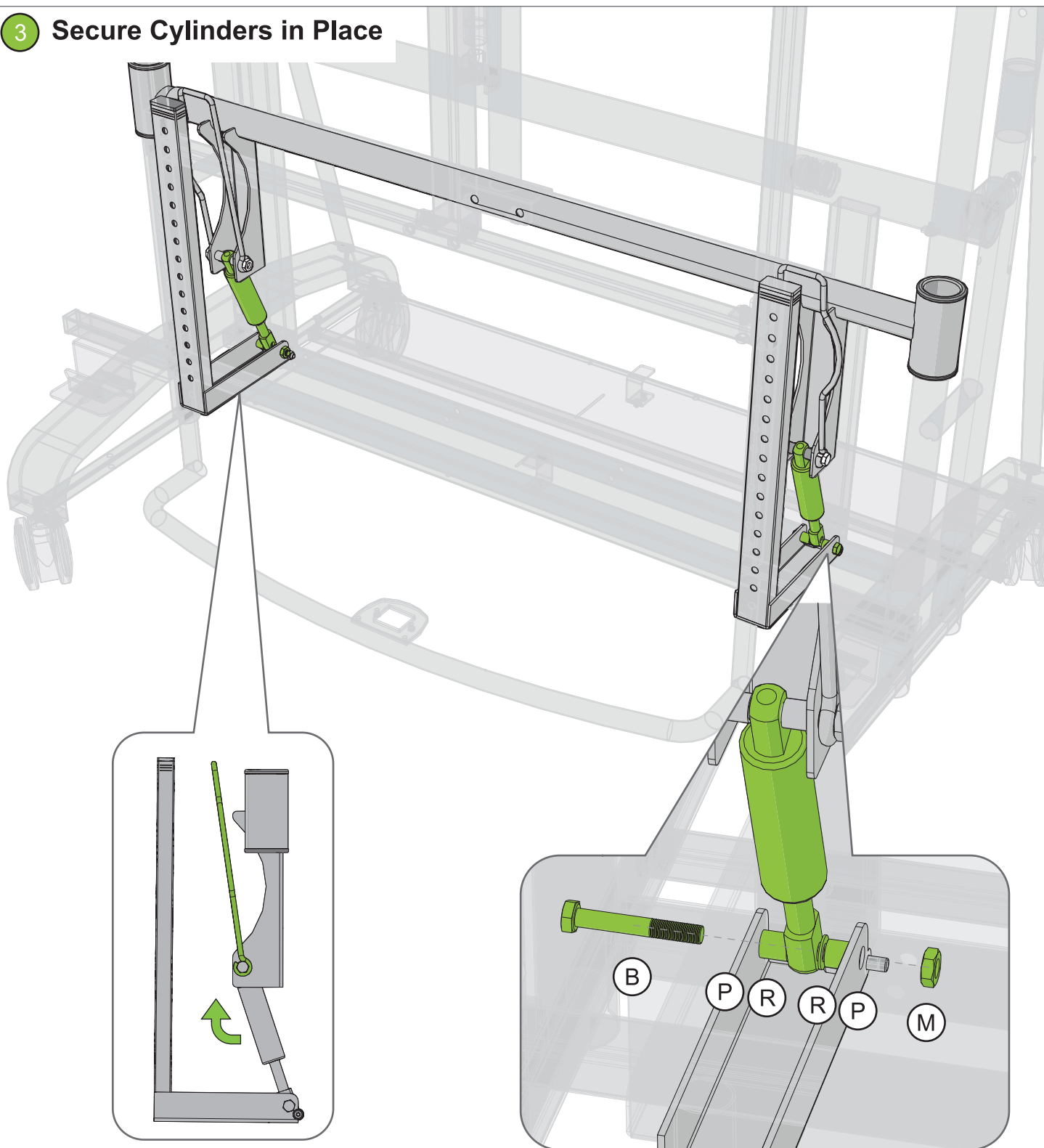


## 2 Install Board Mount Frame





### 3 Secure Cylinders in Place



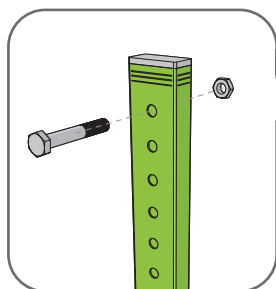
! Make sure fold down  
braces are folded up  
upon assembly

! Tighten bolts

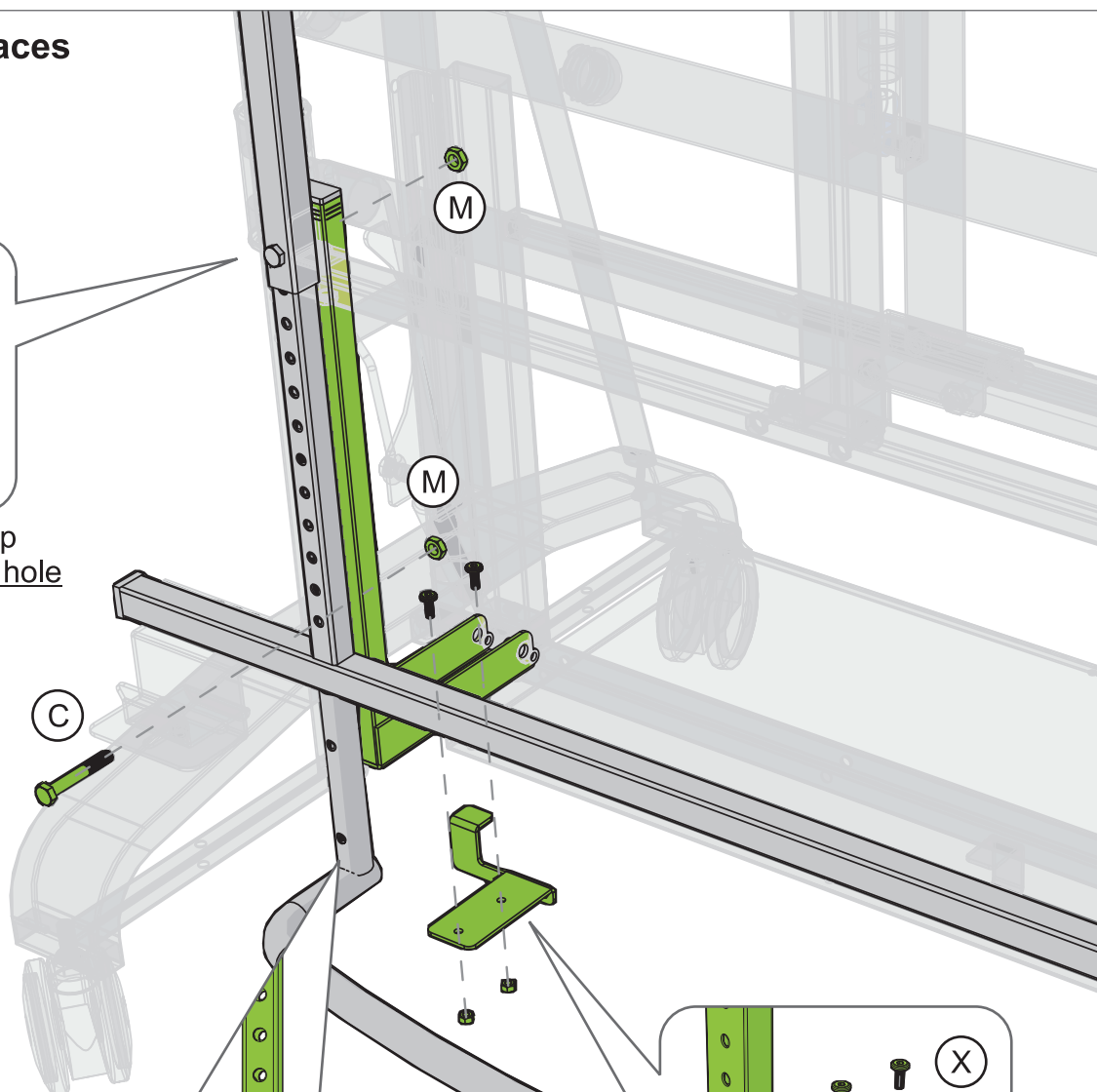




## 4 Attach Tilt Braces

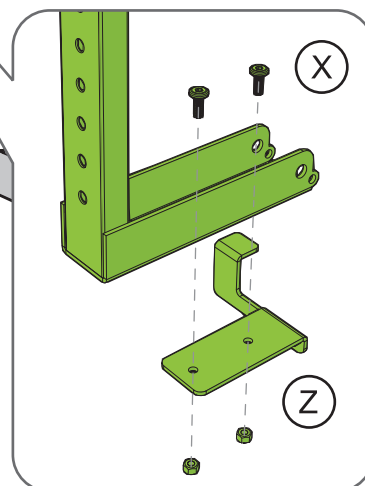
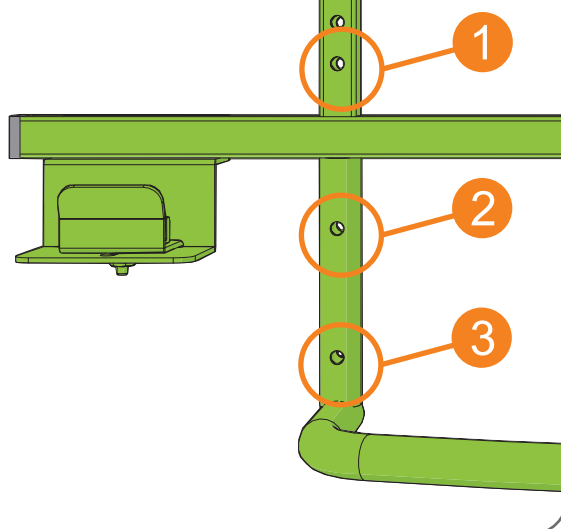


Always install top bolt through top hole



### Board Frame

A	-	1
B	-	1
C	-	1
D	-	1
E	-	1
F	-	2
G	-	2
H	-	2
I	-	3
J	-	3
K	-	3
L	-	3



Note the brackets - tabs face outwards on both sides

Pay attention to which hole to use! This will affect your ability to tilt the unit



15

Actual Size:

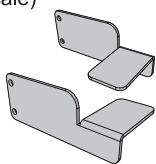


M6 x 50mm  
4x



M6 Lock Nut  
4x

You will need: (Not to Scale)

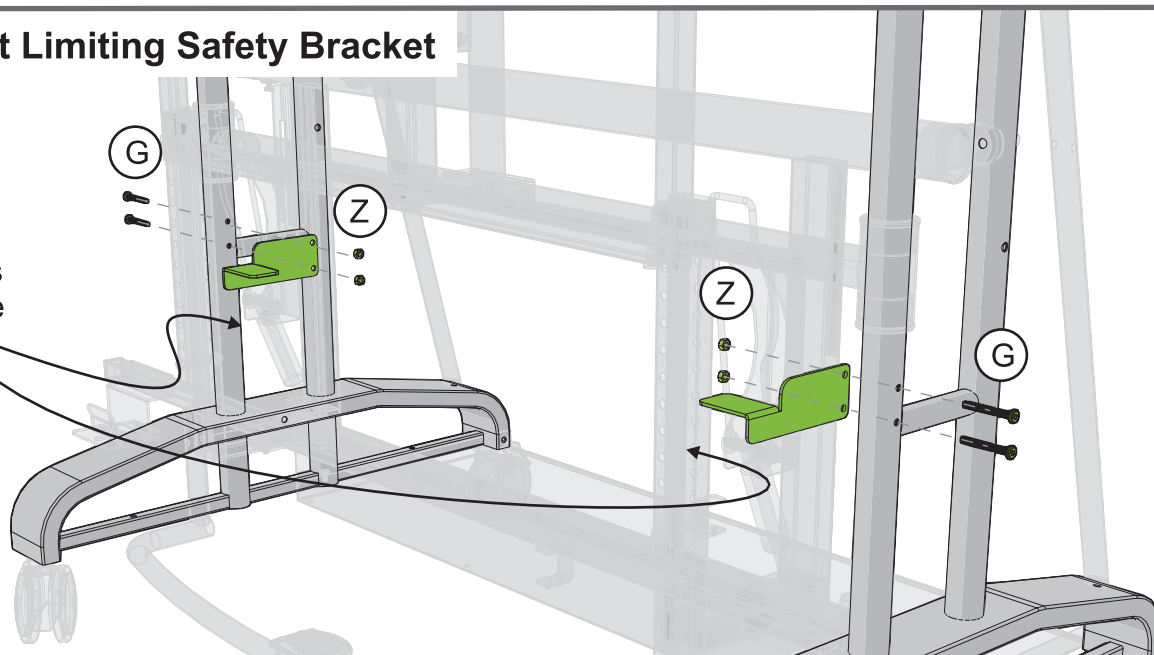


Height Limiting Safety  
Bracket (left and right)  
2x

## Install Height Limiting Safety Bracket



Note tabs  
must face  
inward



16

Actual Size:



M6 x 50mm  
2x

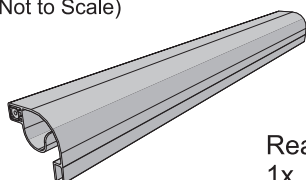


M6 Lock Washer  
2x



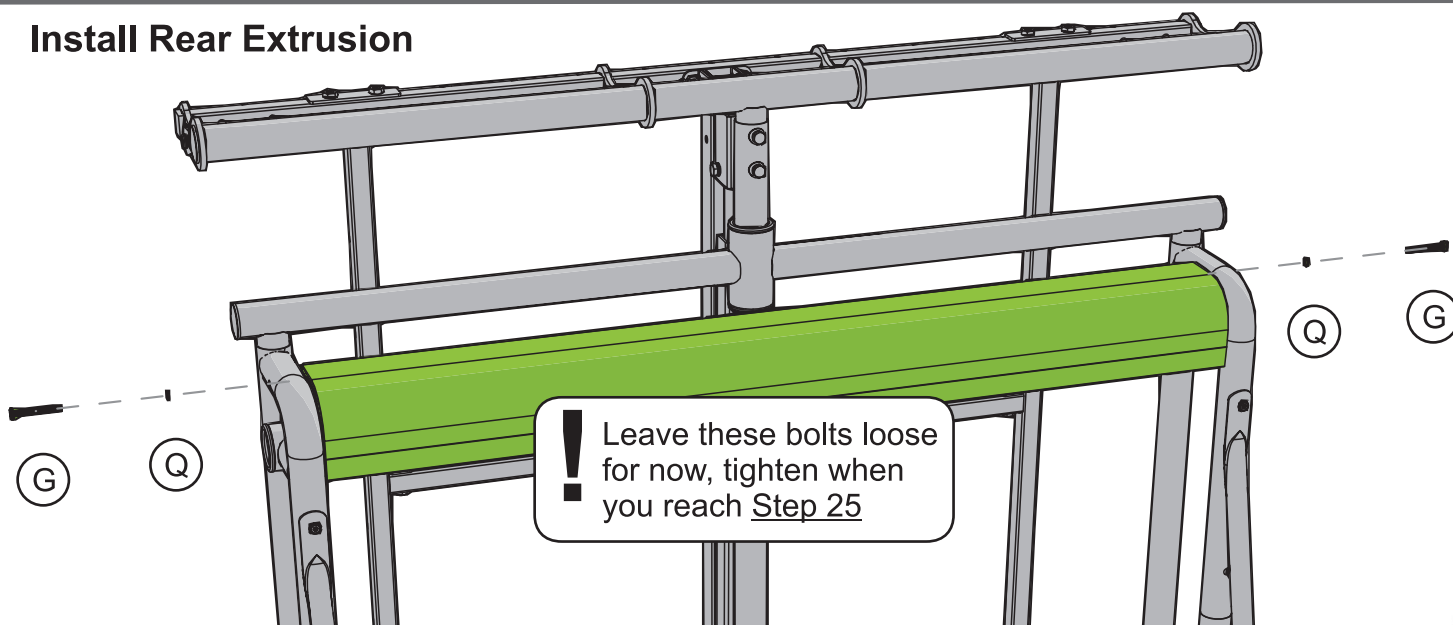
2-Person Task

You will need: (Not to Scale)



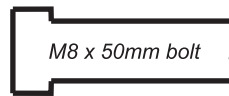
Rear Extrusion  
1x

## Install Rear Extrusion



17

Actual Size:



LL  
2x

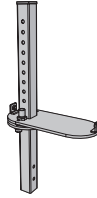


R  
2x



S  
2x

You will need: (Not to Scale)

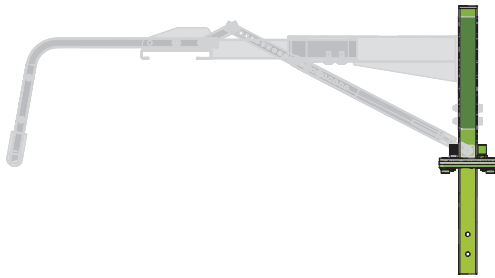


Ultra Short Throw  
Projector Arm Post  
1x



Short Throw  
Projector Arm Post  
1x

## Select Your Projector Support Arm



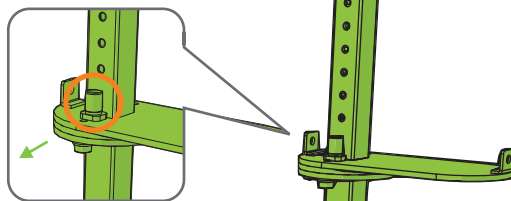
OR



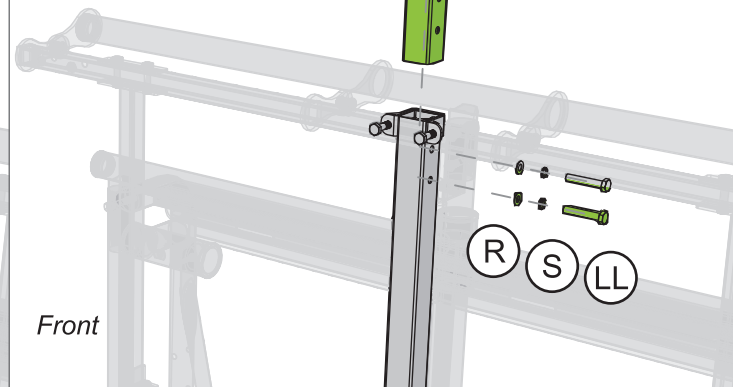
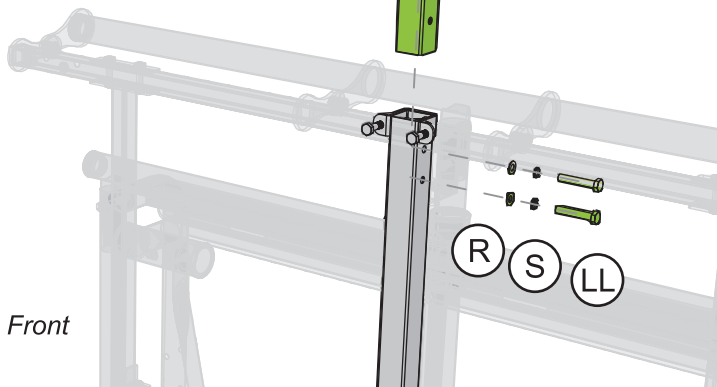
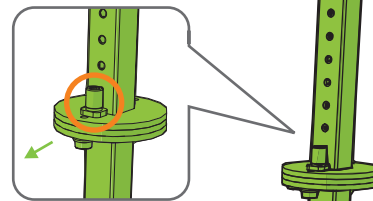
### Ultra Short Throw Projector Arm

### Short Throw Projector Arm





! Note the ball  
plunger faces  
front of unit



! Note the ball  
plunger faces  
front of unit

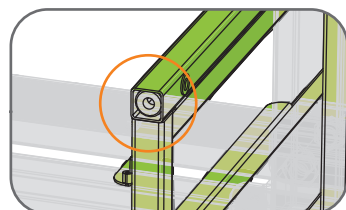


- ! Follow Steps 18-20 if you are installing a Tub Frame.**  
**■ If you are not, skip ahead to Step 21.**

<b>18</b>	Actual Size:	 <span>(X) M6 x 15mm 4x</span>	 <span>(Q) M6 Lock washer 4x</span>
	You will need: (Not to Scale)	 <span>Tub Frame Left 1x</span>	 <span>Tub Frame Right 1x</span>

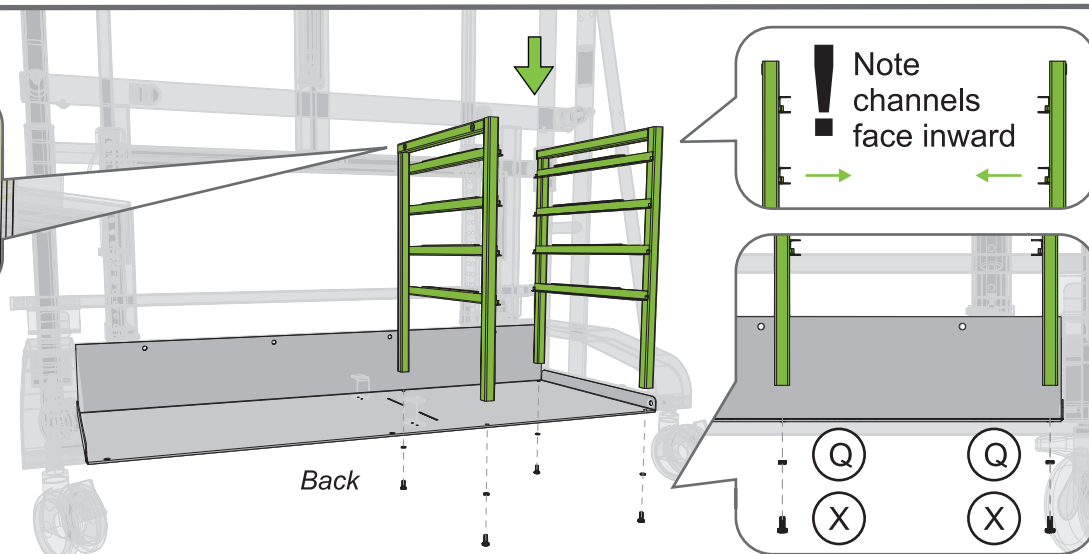
**! For Premium unit only.**  
Skip this step if assembling Base Version.



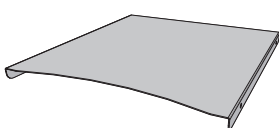
## Build Tub Frame



**!** Make sure this side faces middle of frame

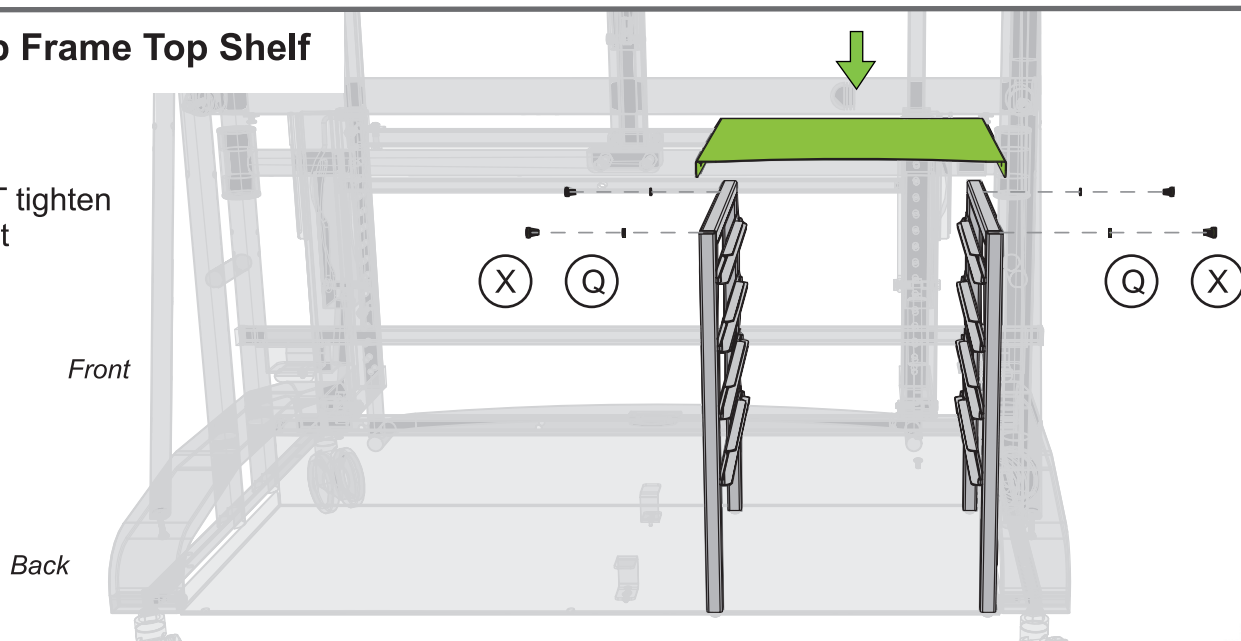
★ Do NOT tighten bolts yet



<b>19</b>	Actual Size:	 <span>(X) M6 x 15mm 4x</span>	 <span>(Q) M6 Lock washer 4x</span>
	You will need: (Not to Scale)	 <span>Tub Frame Top Shelf 1x</span>	

## Attach Tub Frame Top Shelf

★ Do NOT tighten bolts yet

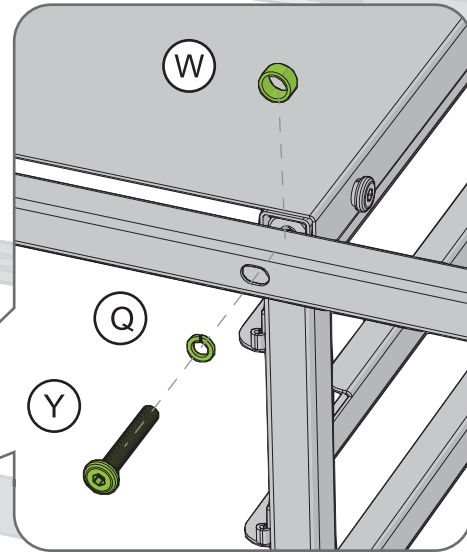




You will need: (Not to Scale)

## Secure Tub Frame to Main Frame & Install Tub

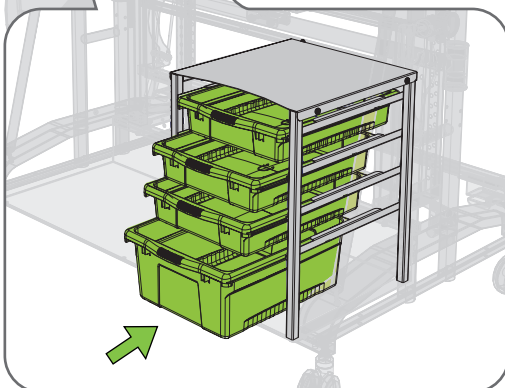
! Pay attention to where spacer is installed



Back



Now tighten all bolts



How to install your tubs

Front



**! Follow Steps 21-24 if you are installing a Lock Box.**  
**■ If you are not, skip ahead to Step 25.**

**21**

Actual Size:

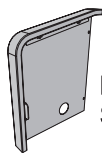


(AA)  
M6 x 10mm  
4x

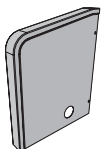


(Q)  
M6 Lock washer  
4x

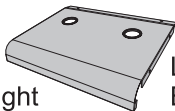
You will need: (Not to Scale)



Lock Box  
Side Panel Left  
1x



Lock Box  
Side Panel Right  
1x



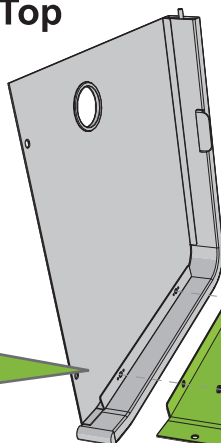
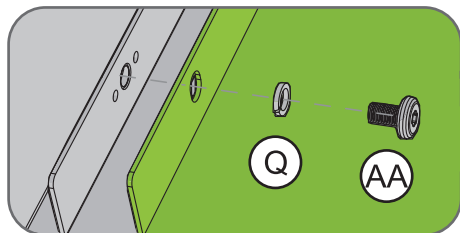
Lock  
Box Top  
1x

**! For Premium unit only.**  
Skip this step if assembling Base Version.

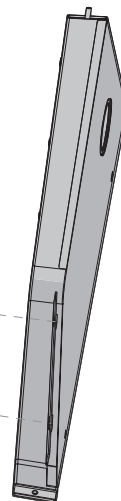
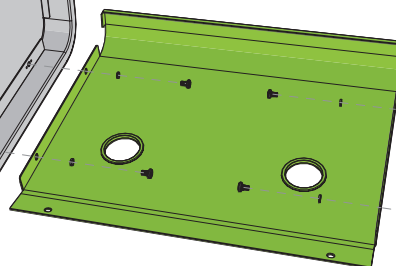
## Attach Lock Box Sides to Lock Box Top



For easy assembly  
assemble upside down  
(for this step only)



Tighten all bolts



**22**

Actual Size:

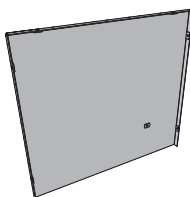


(AA)  
M6 x 10mm  
6x



(Q)  
M6 Lock washer  
6x

You will need: (Not to Scale)

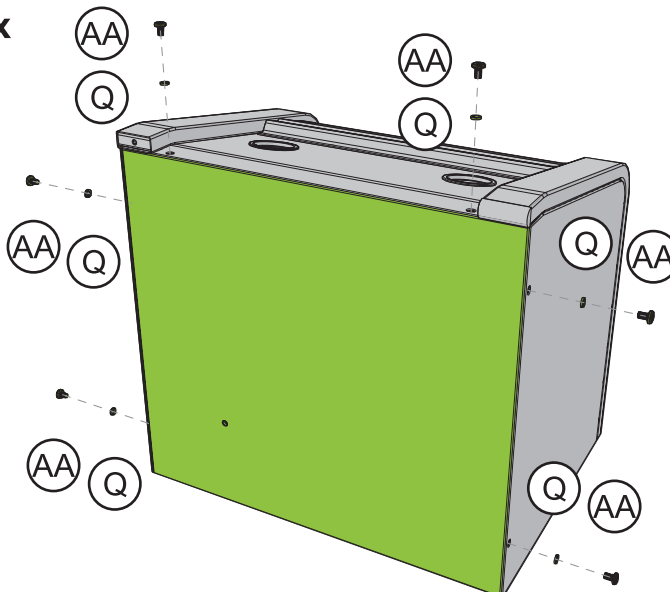


Lock Box Back  
1x

## Attach the Back of the Lock Box



Tighten all bolts





23

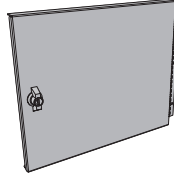
Actual Size:



BB

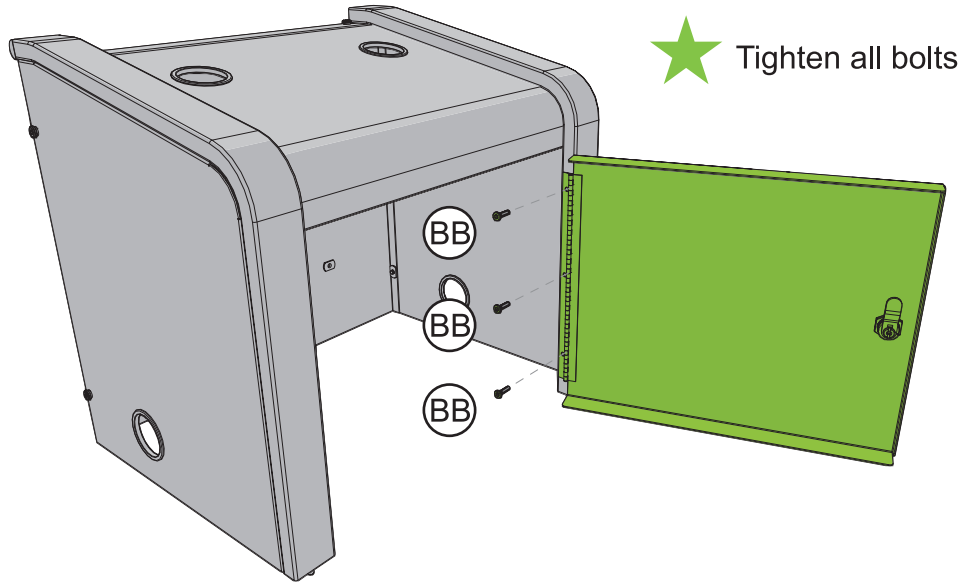
M5 x 20mm  
3x

You will need: (Not to Scale)



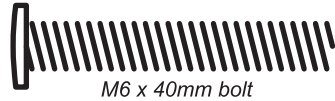
Lock Box Door  
1x

## Attach Lock Box Door



24

Actual Size:



M6 x 40mm bolt

Y  
1x



M6 x 35mm bolt

CC  
1x



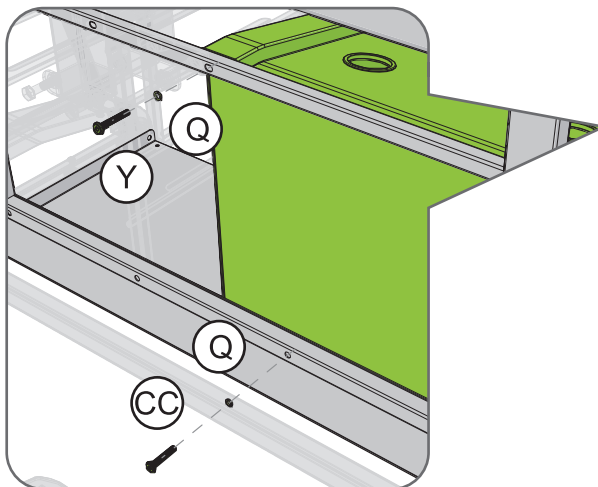
Z  
2x

You will need: (Not to Scale)

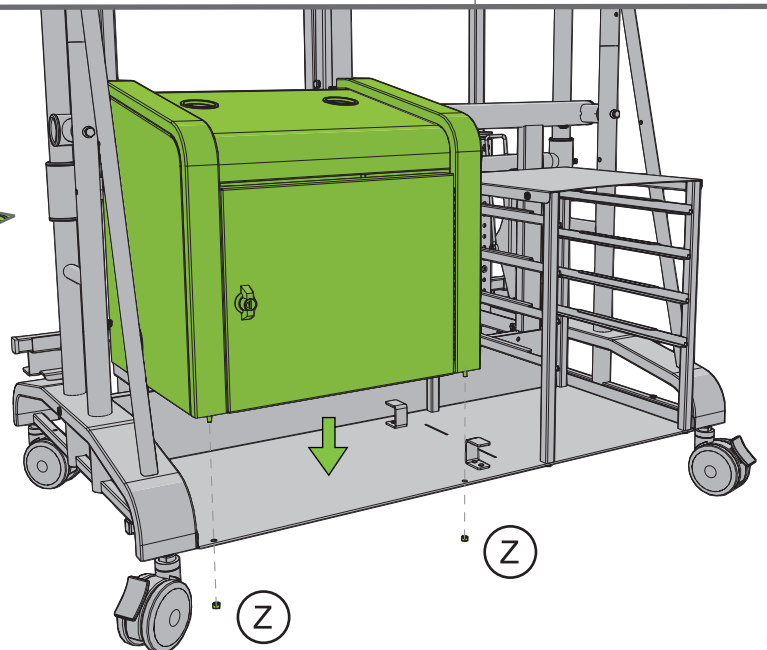


Q  
2x

## Attach Lock Box to Main Frame



 Tighten all bolts





**! Follow Step 25 if you are installing a Rear Whiteboard.**  
**■ If you are not, skip ahead to Step 26.**

**25**

Actual Size:

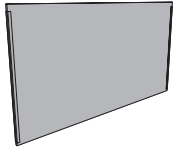


**G**  
M6 x 50mm  
2x

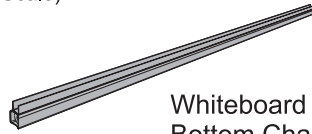


**Q**  
M6 Lock washer  
2x

You will need: (Not to Scale)



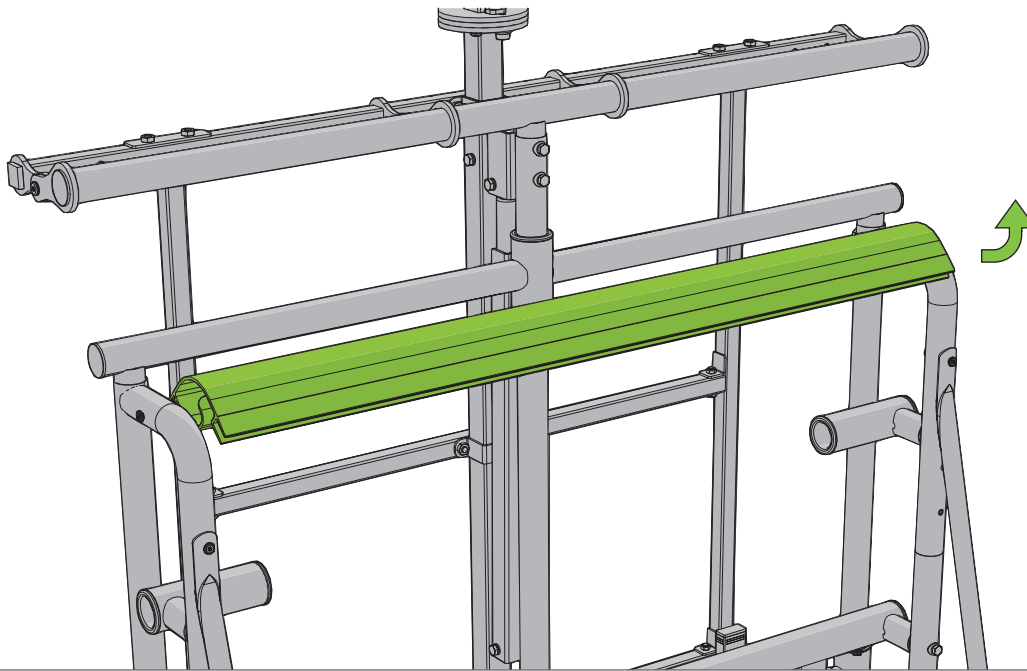
Whiteboard  
1x



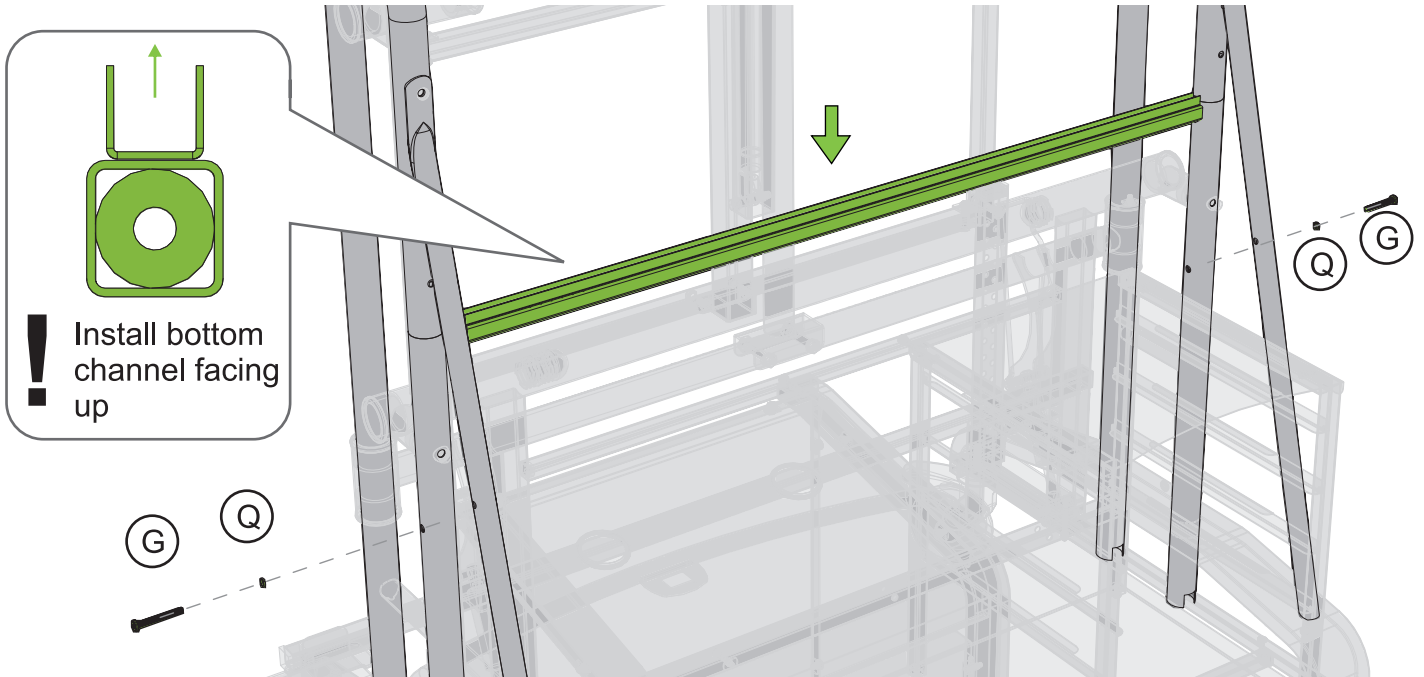
Whiteboard  
Bottom Channel  
1x

**! For Premium unit only.**  
**Skip this step if assembling Base Version.**

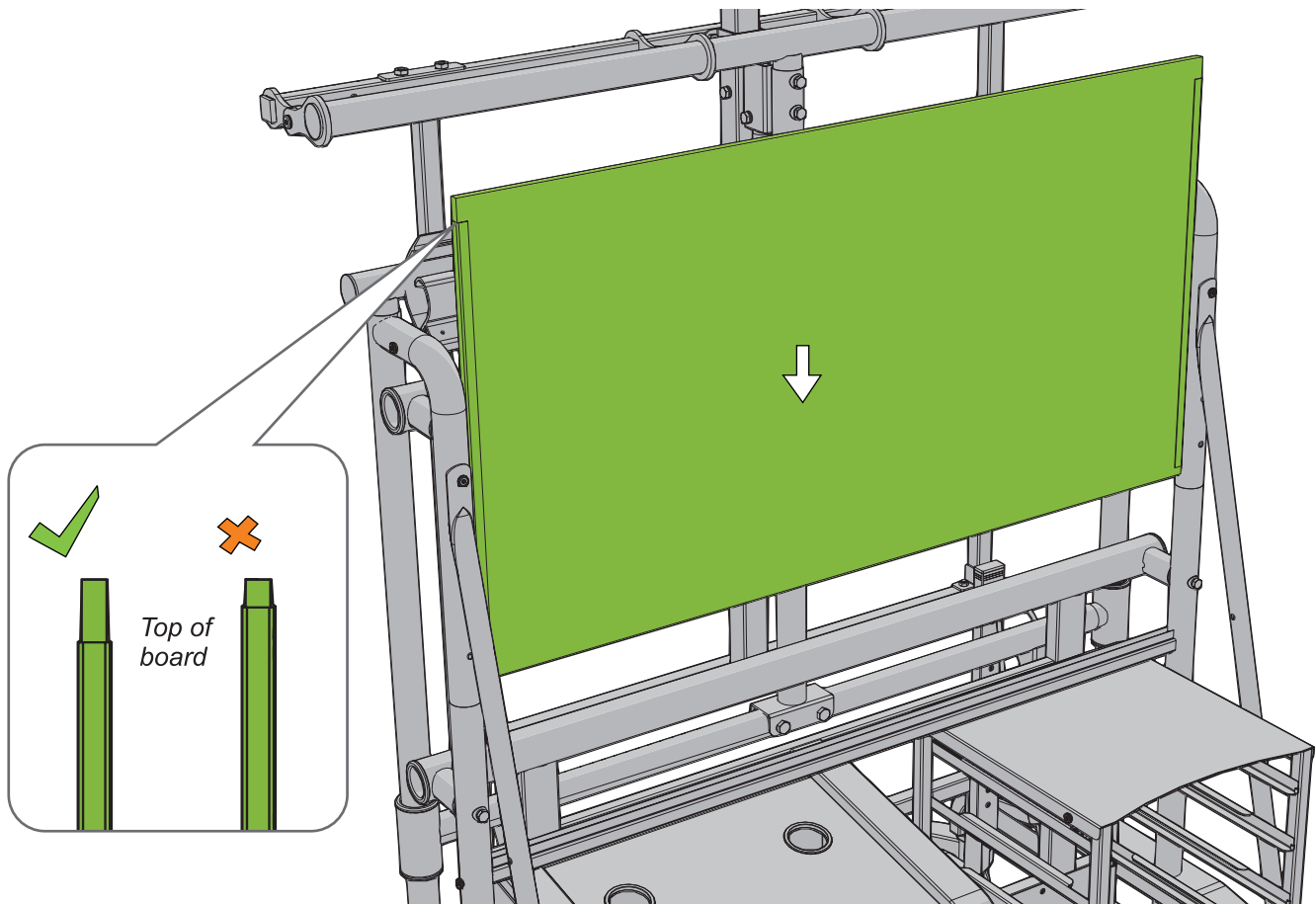
**1 Rotate Rear Extrusion backwards out of the way**



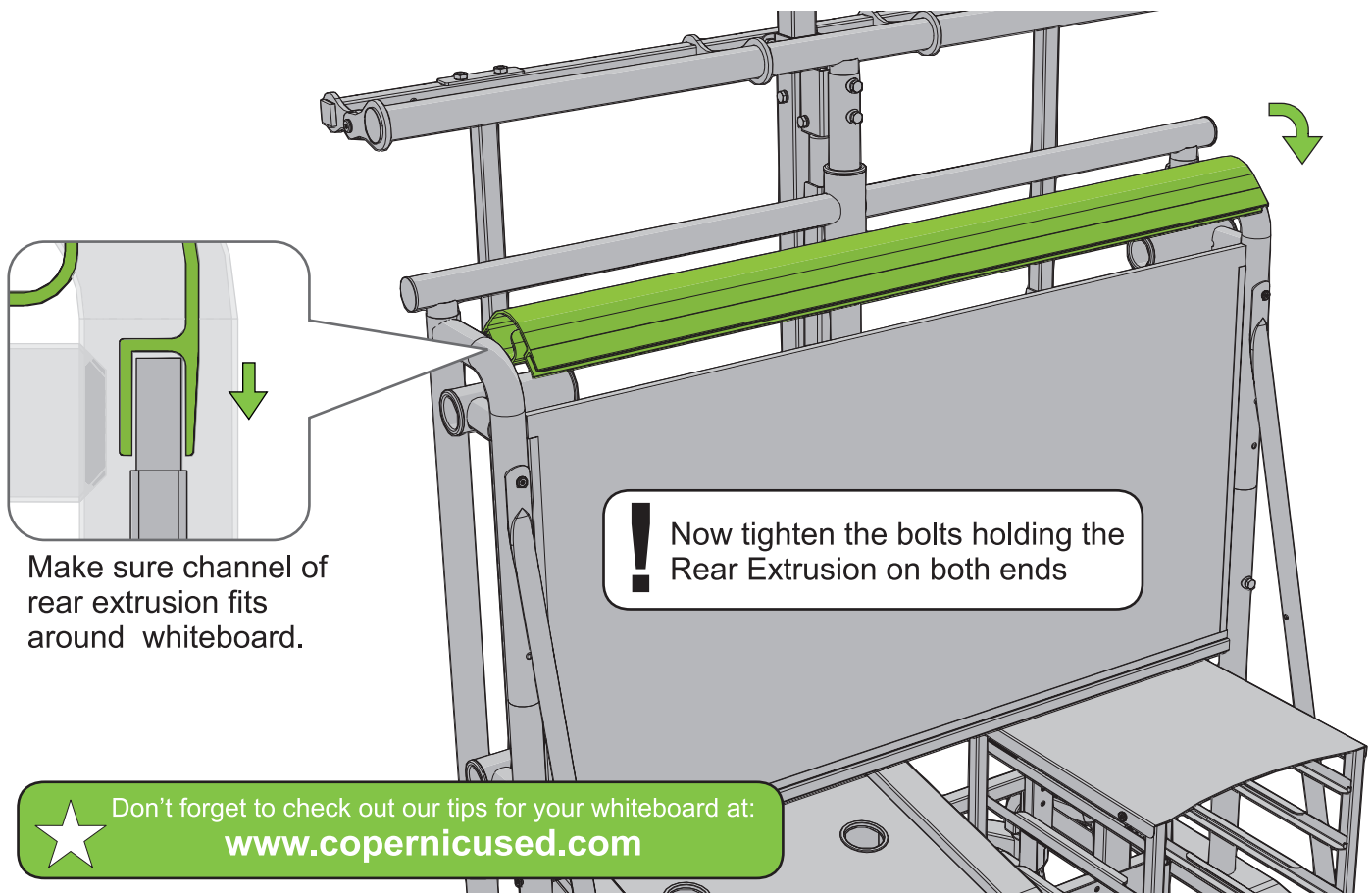
**2 Slide channel down between the frames from above, secure in place**



3 Insert whiteboard in place from above, note which end goes up



4 Rotate Rear Extrusion plastic back into place securing whiteboard



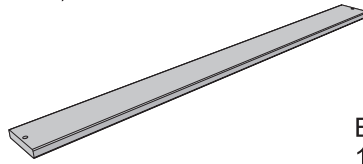
26

Actual Size:

Y  
M6 x 40mm bolt  
2xQ  
M6 Lock Washer  
2xO  
M6 Barrel Nut  
2x

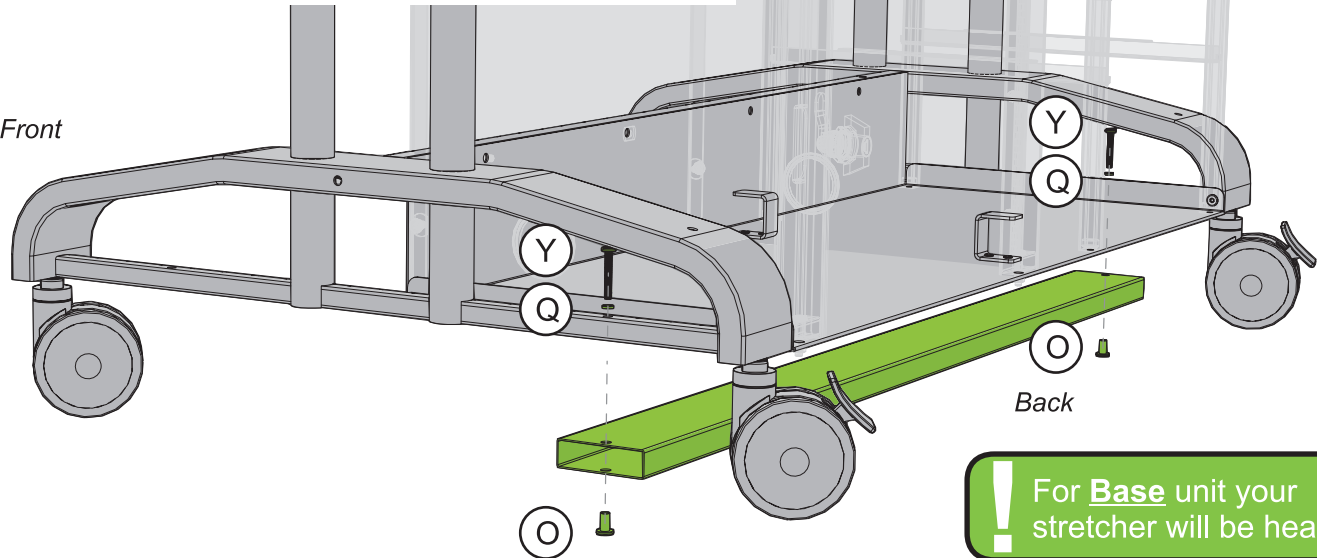
2-Person Task

You will need: (Not to Scale)

Bottom Shelf Stretcher  
1x

## Install Bottom Shelf Stretcher Under Shelf

Front



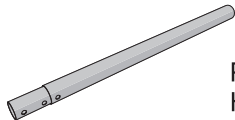
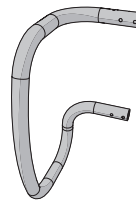
! For **Base** unit your  
stretcher will be heavier

27

Actual Size:

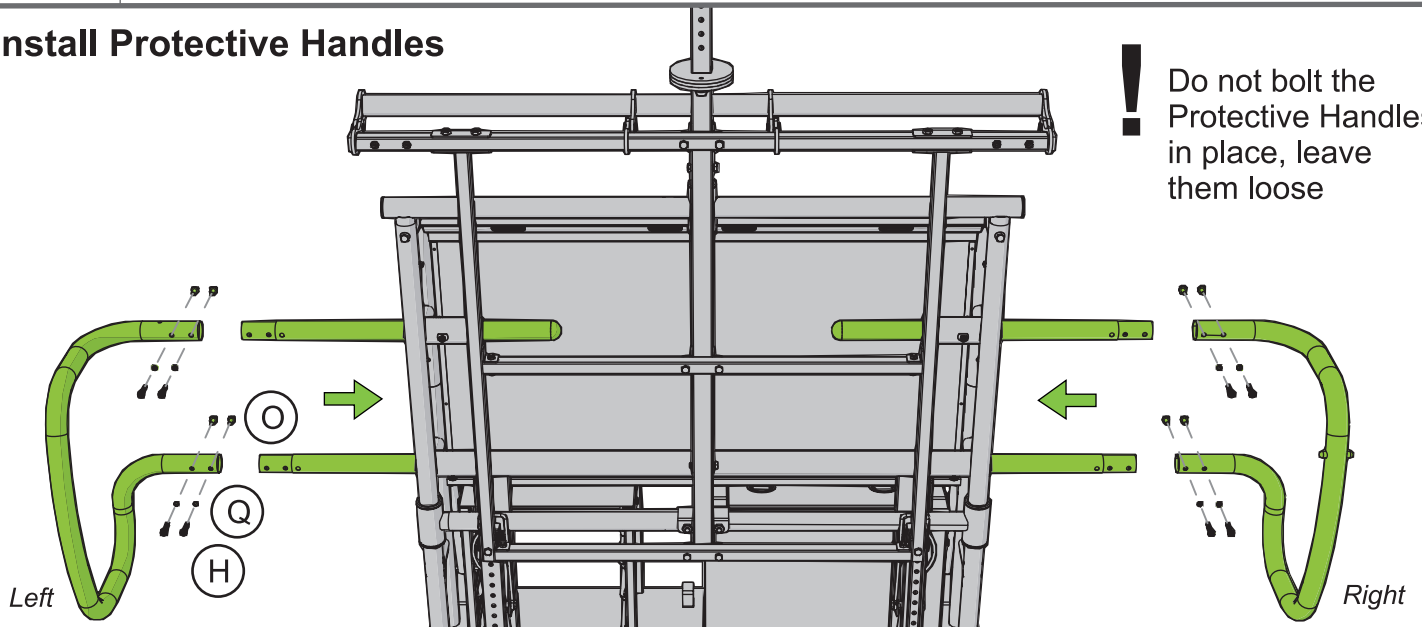
H  
M6 x 30mm  
8xQ  
M6 Lock Washer  
8xO  
M6 Barrel Nut  
8x

You will need: (Not to Scale)

Protective  
Handle Extensions  
4xProtective  
Handle Left  
1xProtective  
Handle Right  
1x

## Install Protective Handles

! Do not bolt the  
Protective Handles  
in place, leave  
them loose



28

Actual Size:



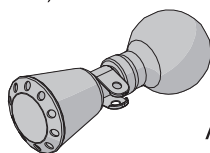
M5 x 60mm bolt

J  
1x



XX  
1x

You will need: (Not to Scale)

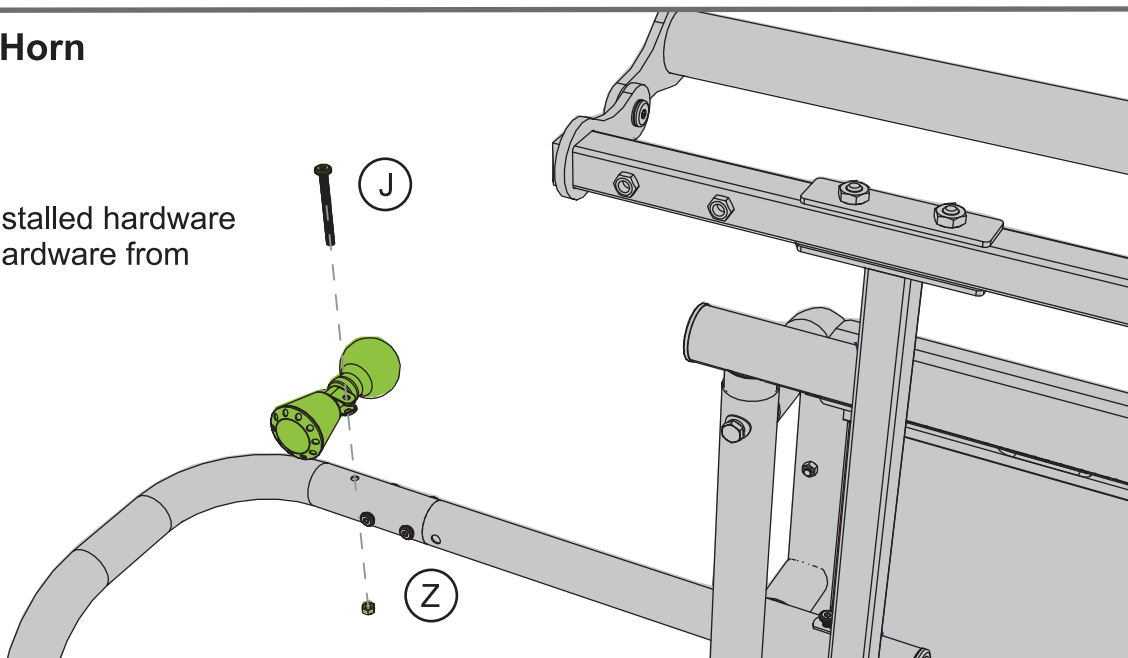


Attention Horn  
1x

## Attach Attention Horn Optional



Replace installed hardware  
with new hardware from  
this step



29

Actual Size:



i  
M6 x 25mm  
1x

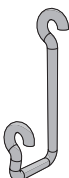


Q  
M6 Lock Washer  
1x



O  
M6 Barrel Nut  
1x

You will need: (Not to Scale)

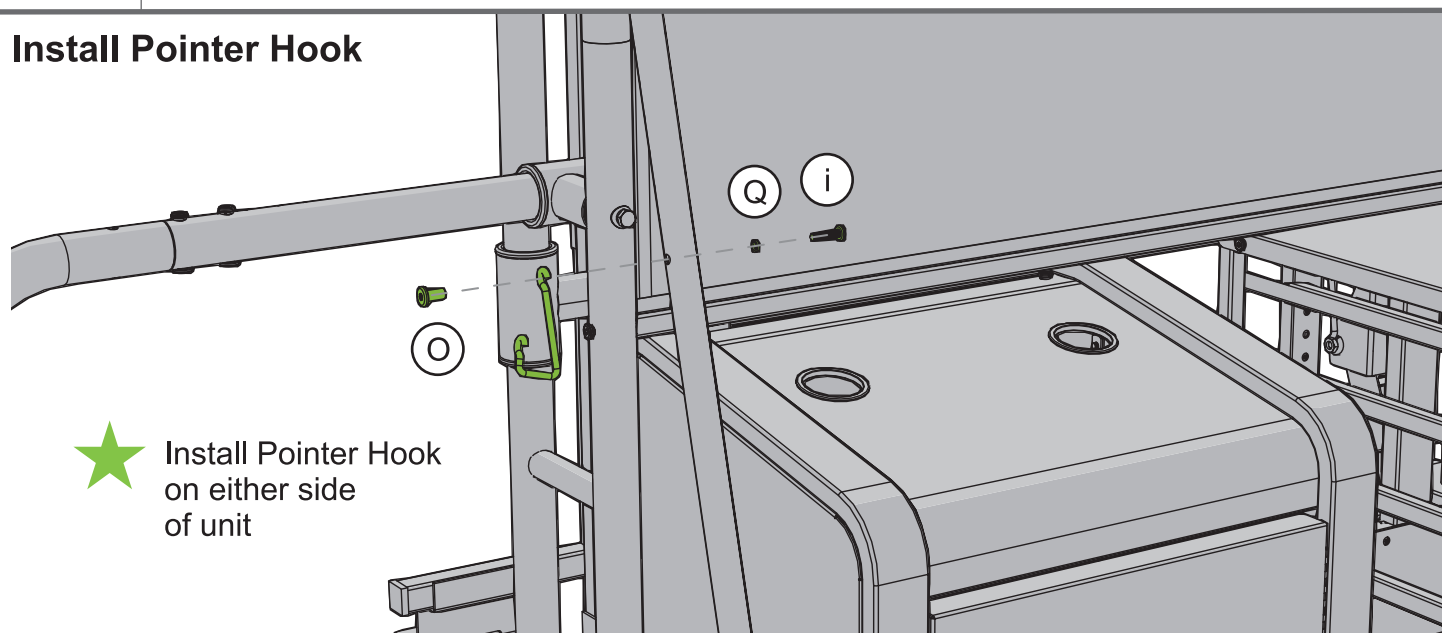


Pointer Hook  
1x

## Install Pointer Hook



Install Pointer Hook  
on either side  
of unit



You will need: (Not to Scale)

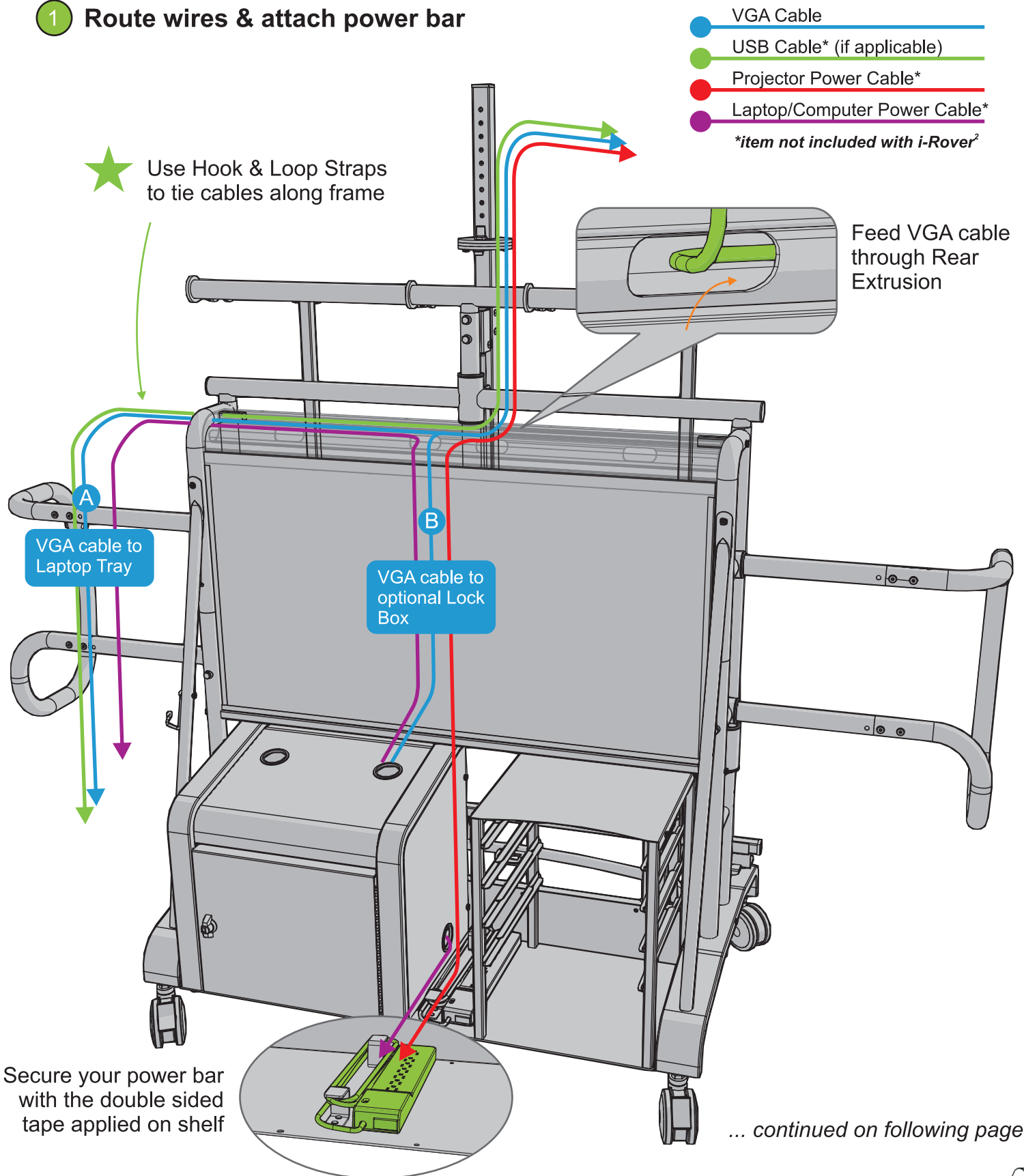


VGA Cable  
1x



Hook & Loop Straps  
(taken from your packaging in this box)  
12x

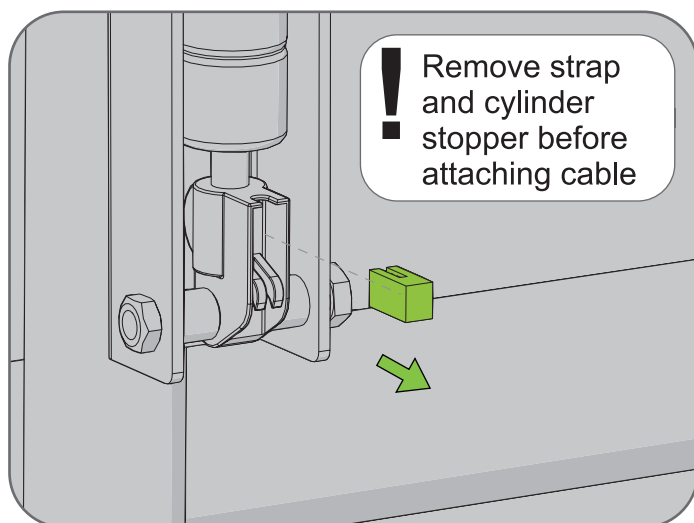
## 1 Route wires & attach power bar



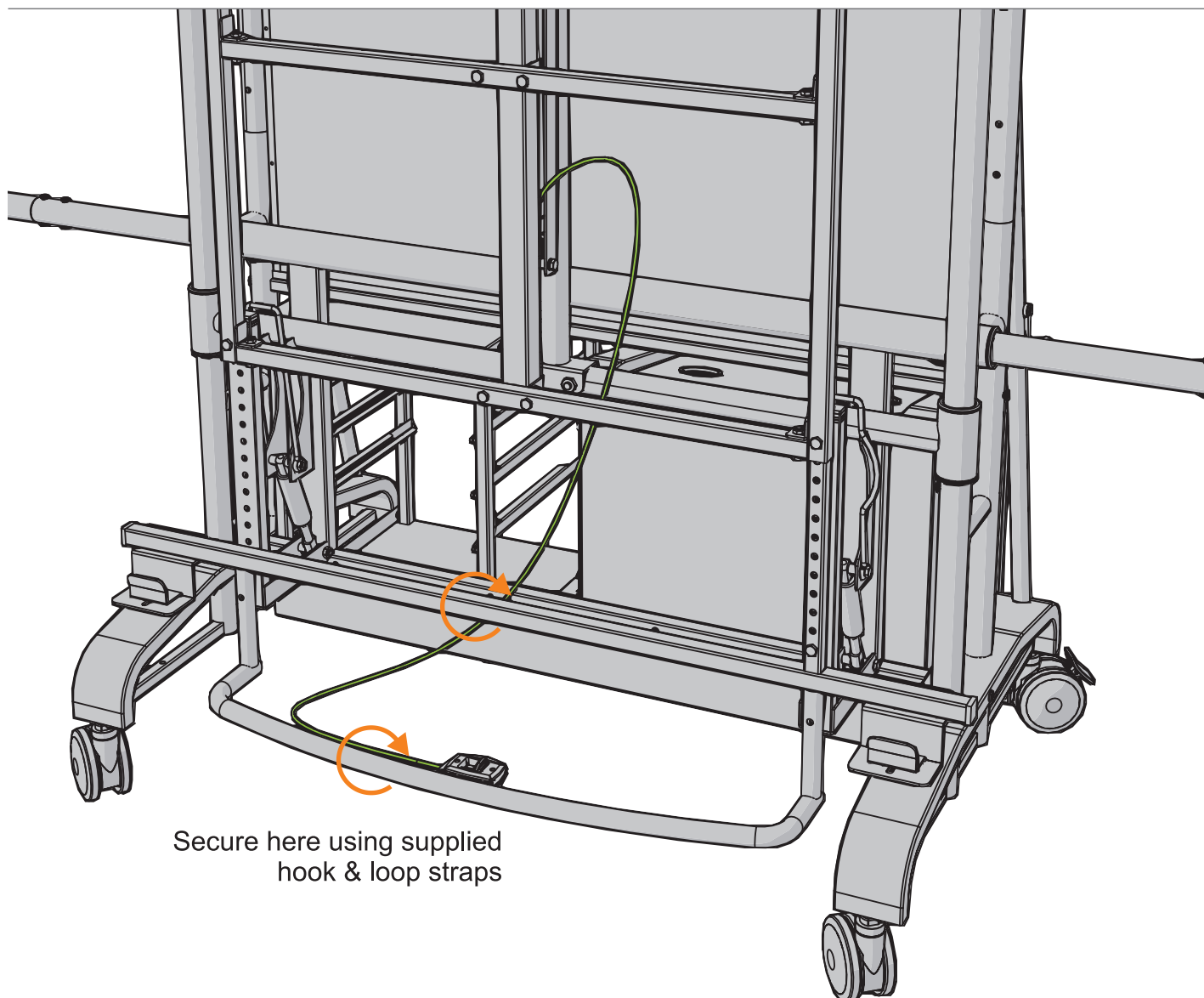
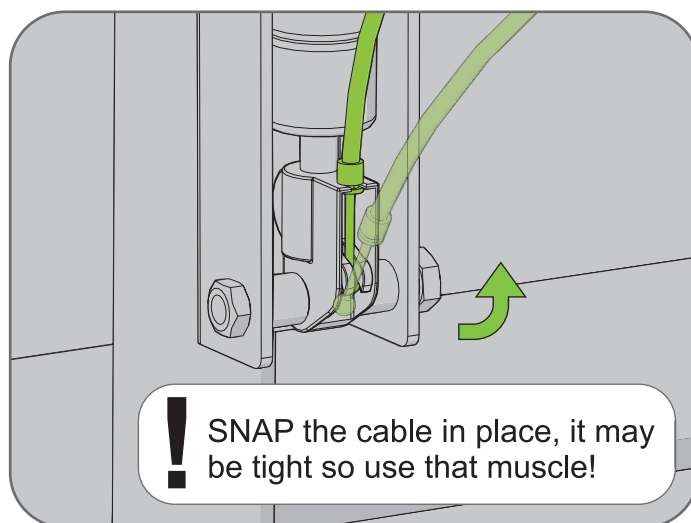


## 2 Hook up height Adjustment

### 1) Attach bottom end of cable first





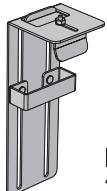


### 2) Lift cable and snap the top end into place



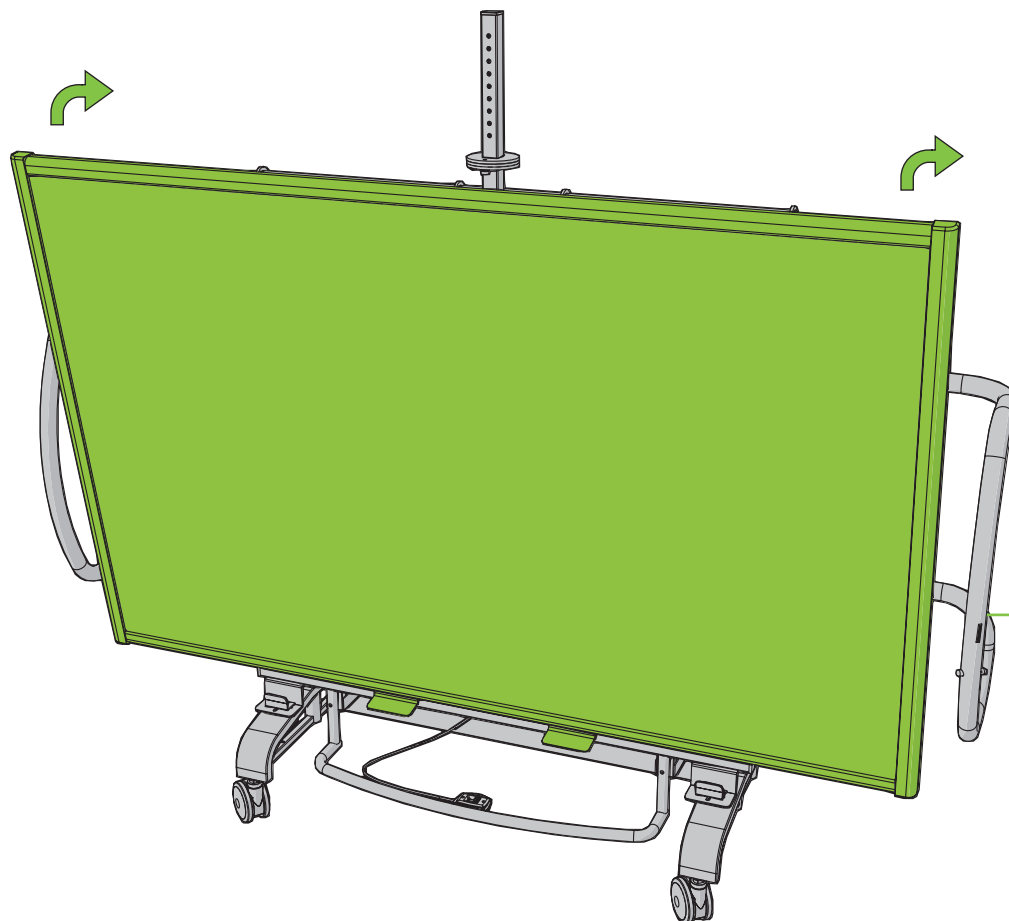


**!** Skip to Step 32 if you are installing an Egan or Copernicus Whiteboard.  
**■** For all other boards continue here.

<div>31</div>	Actual Size:  <div> <div>E</div> M8 x 40mm 4x       </div>	 <div> <div>S</div> M8 Lock Washer 4x       </div>	 <div> <div>R</div> M8 Washer 4x       </div>
	<div>  2-Person Task       </div>	You will need: (Not to Scale)  Board Clamp 2x	

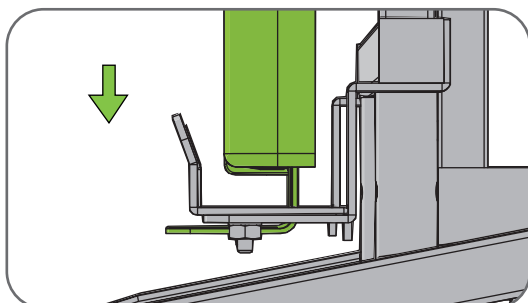
## 1 Attach board to unit

*Shown with Smartboard 680*



**!** You may need to slide your Protective Handles outward to fit around board

**!** If Protective Handles do not slide, see Step 32 on how to loosen

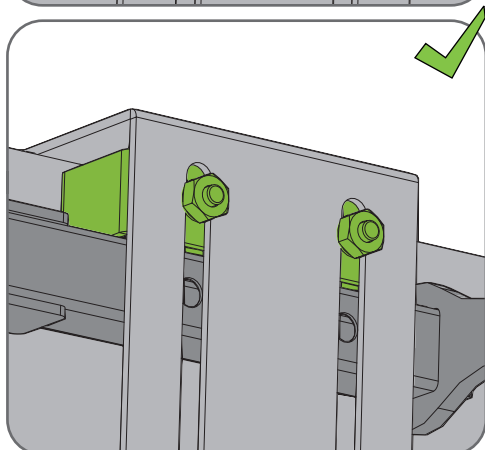
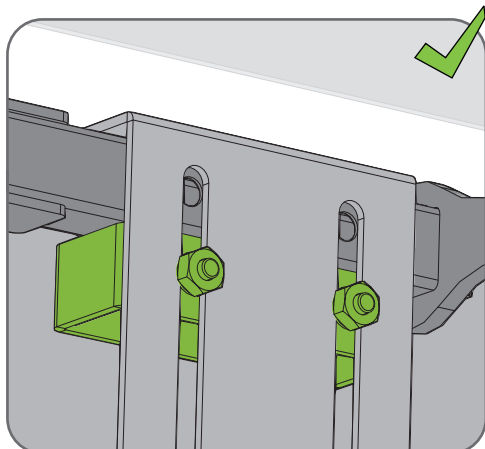


**Set board into bottom board clamps.**

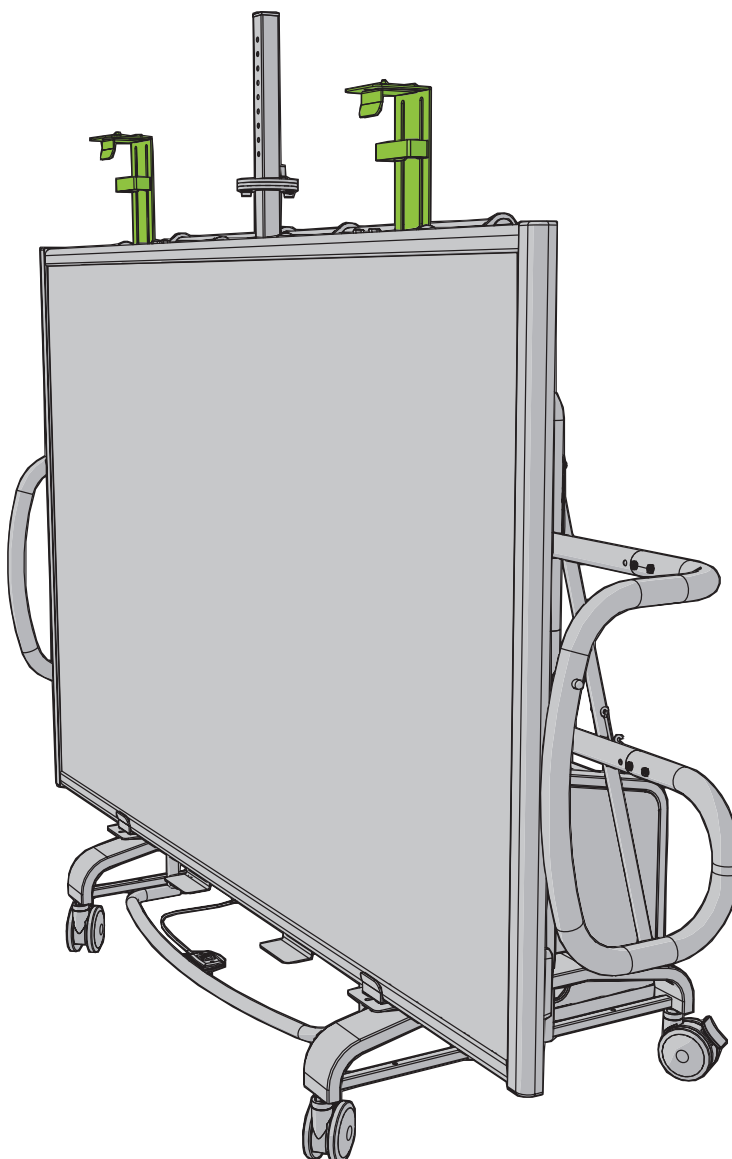
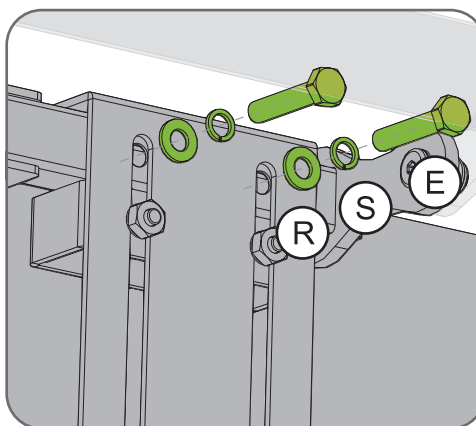
*... continued on following page*

## 2 Attach Top Board Clamp Assembly and secure board support

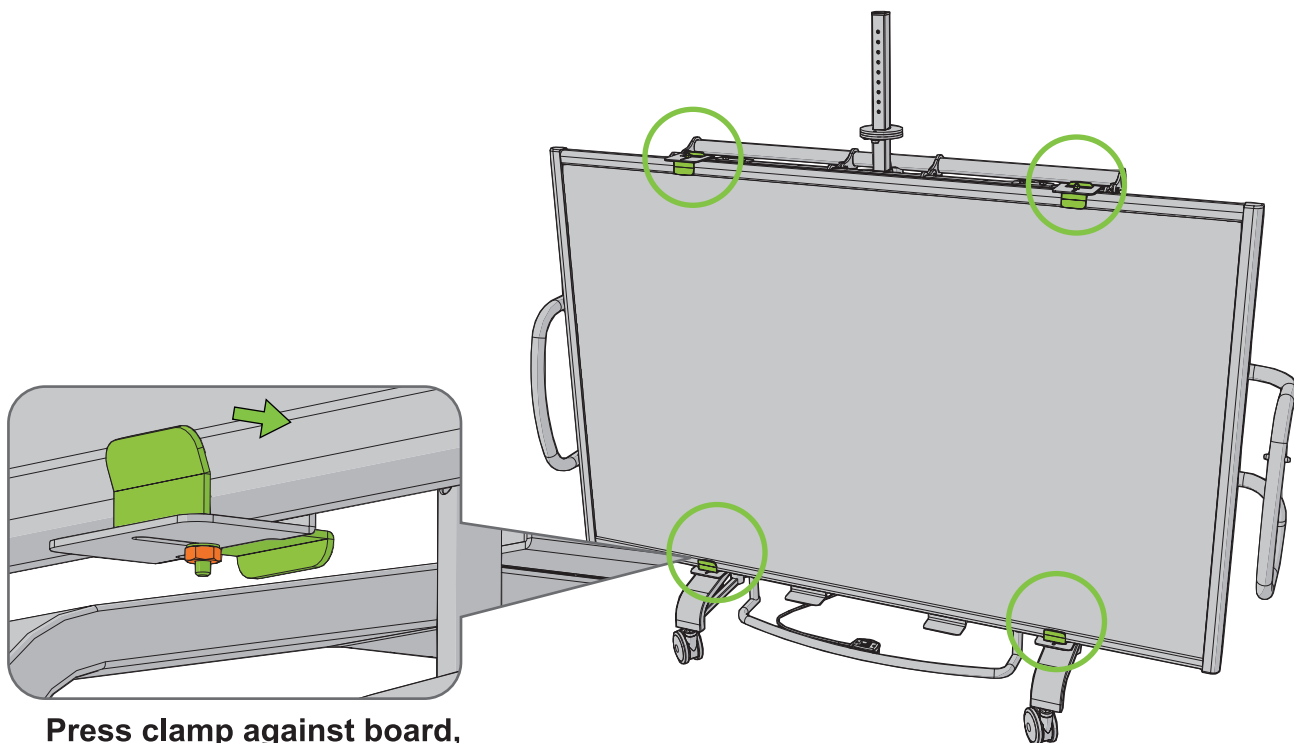
1) Slide the board support bracket as high as you can and tighten



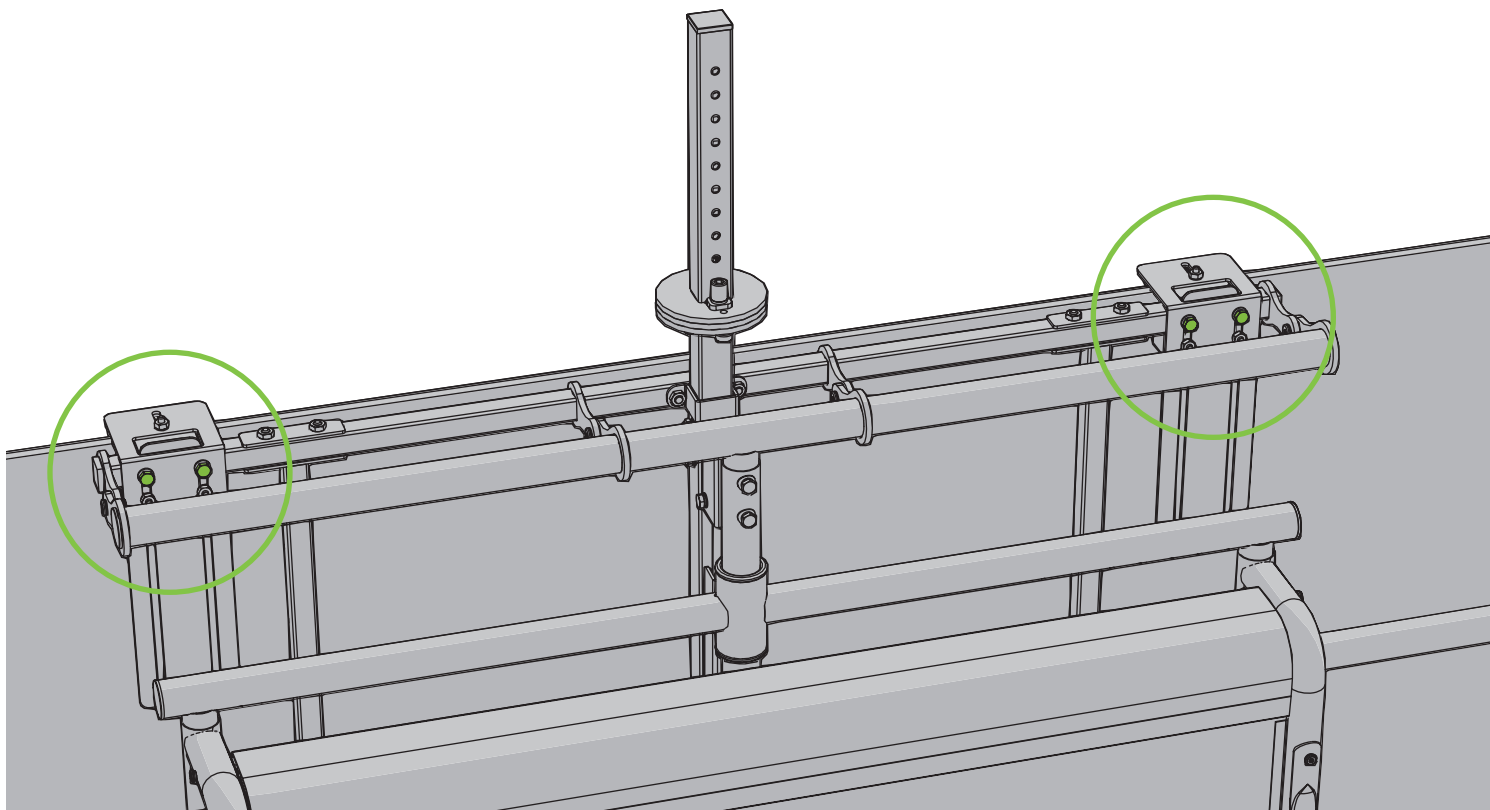
2) Do not tighten bolt "E" until after next step, this will make the following step easier



**3 Tighten all clamps so they pull securely on board**



**4 Tighten Board Clamp Assembly bolts**

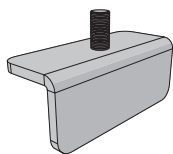


**NOTE: only do this step if you are installing an Egan or Copernicus Whiteboard.**



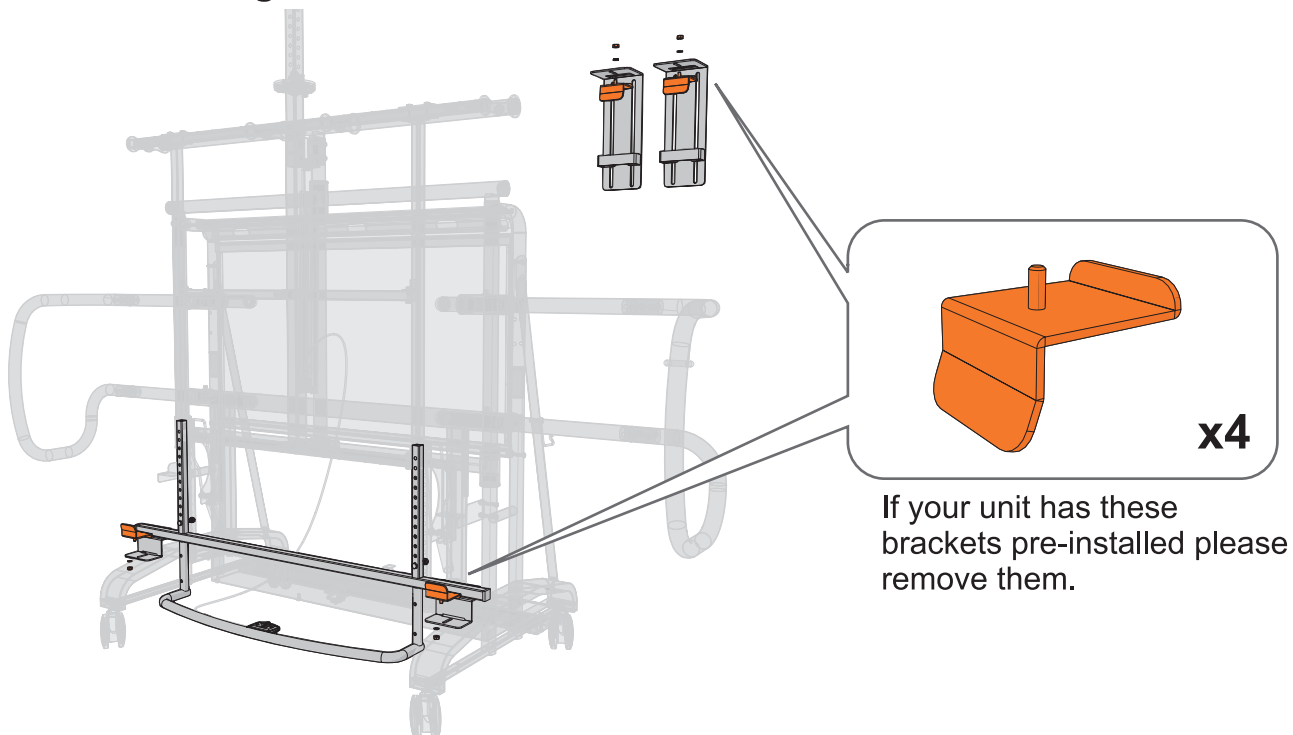
2-Person Task

You will need: (Not to Scale)

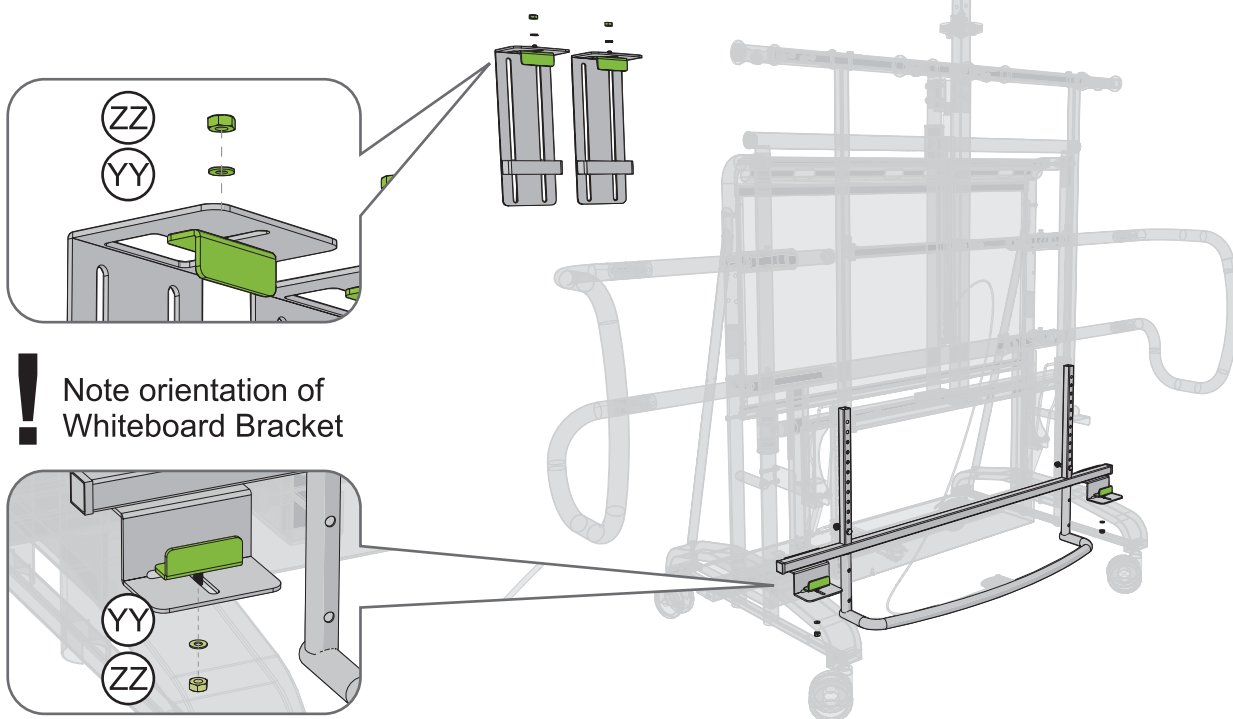


Whiteboard Bracket  
4x

## 1 Remove existing brackets



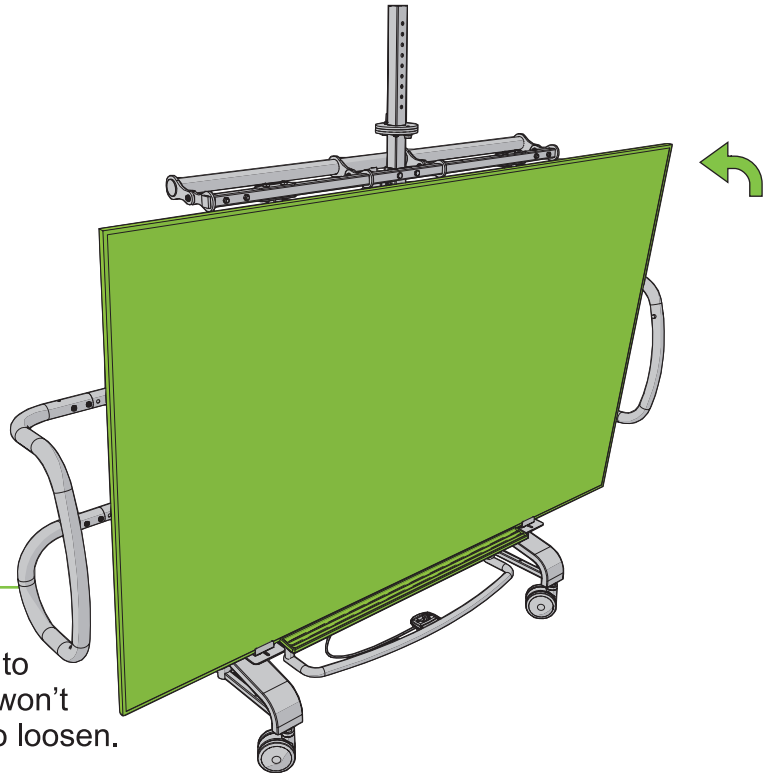
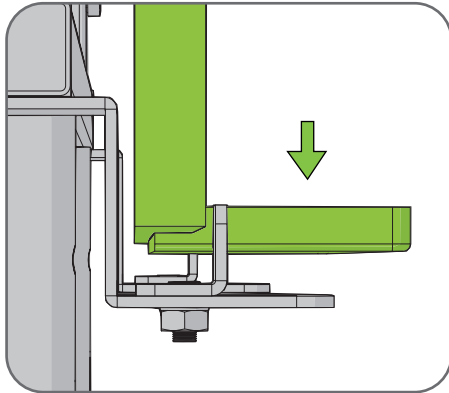
## 2 Install new Whiteboard Brackets



### 3 Attach board to cart



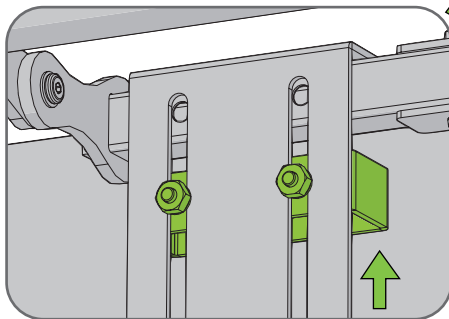
Don't forget to check out our tips for your whiteboard at:  
[www.copernicused.com](http://www.copernicused.com)



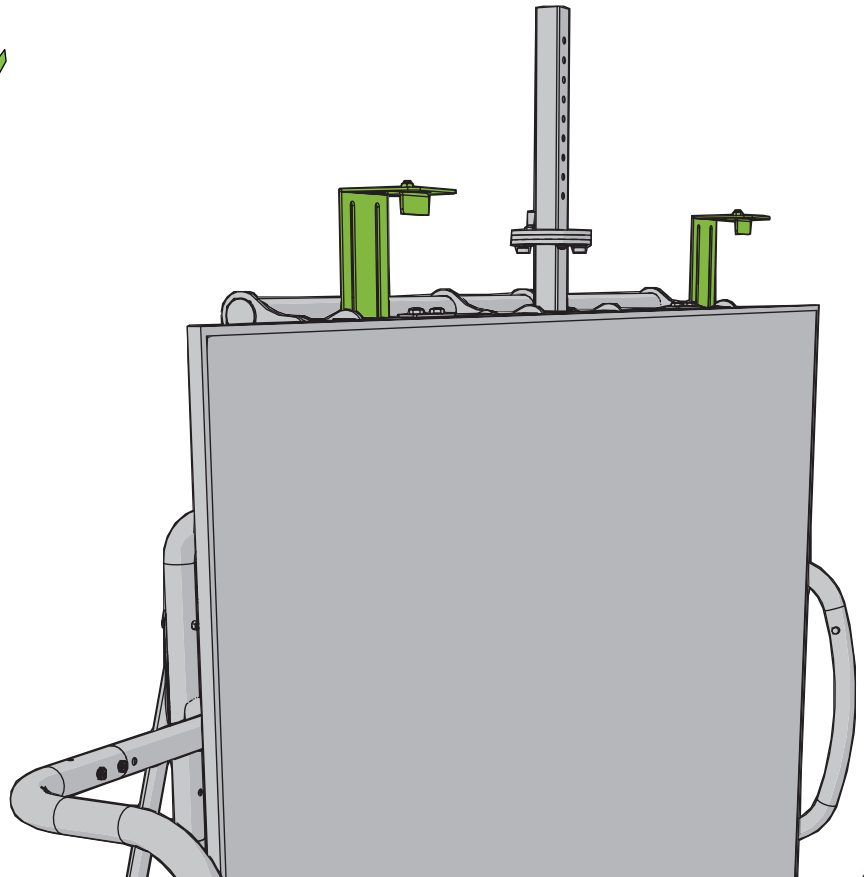
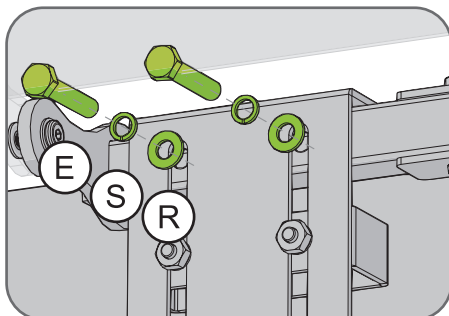
**!** You may need to slide your Protective Handles outward to fit around the board. If they won't move see Step 33 on how to loosen.

### 4 Attach Top Board Clamp Assembly

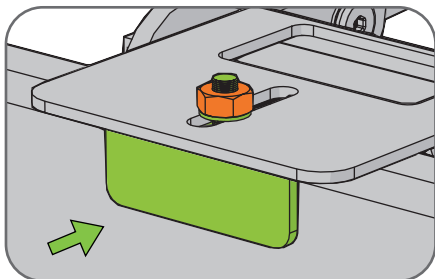
A) Slide the board support shown in green upward.



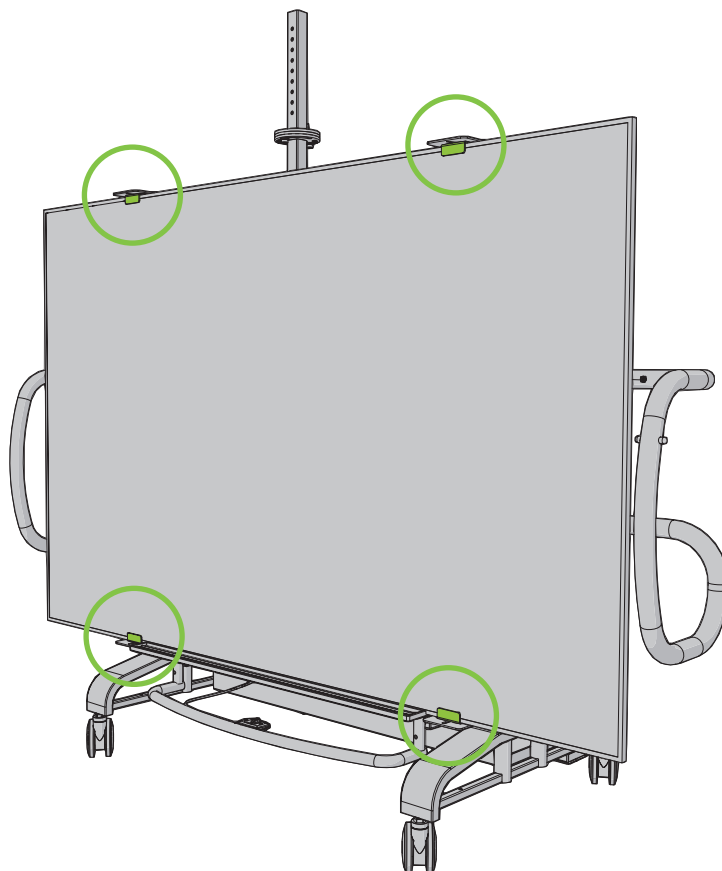
B) Do not fully tighten bolts, leave them loose for next step.



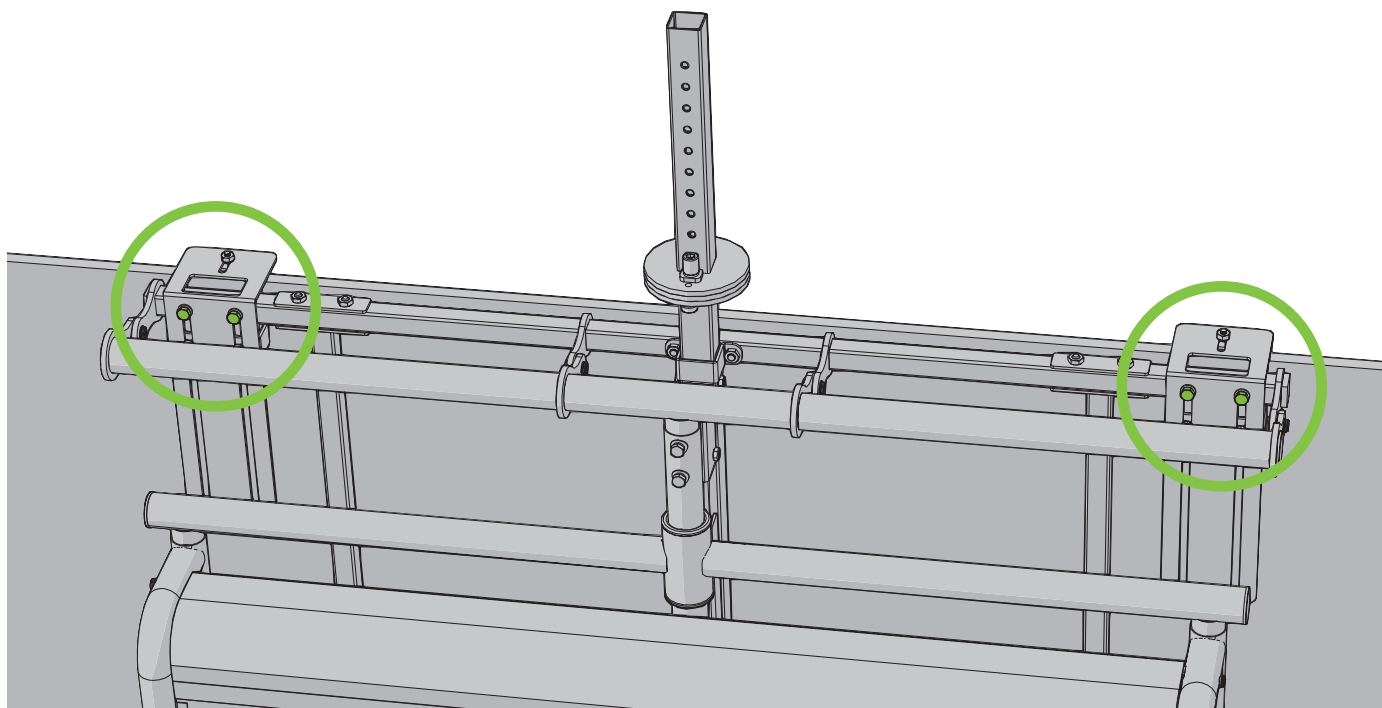
**5 Tighten all clamps so they pull securely on board**



Press bracket against board,  
tighten nut so board does  
not move.



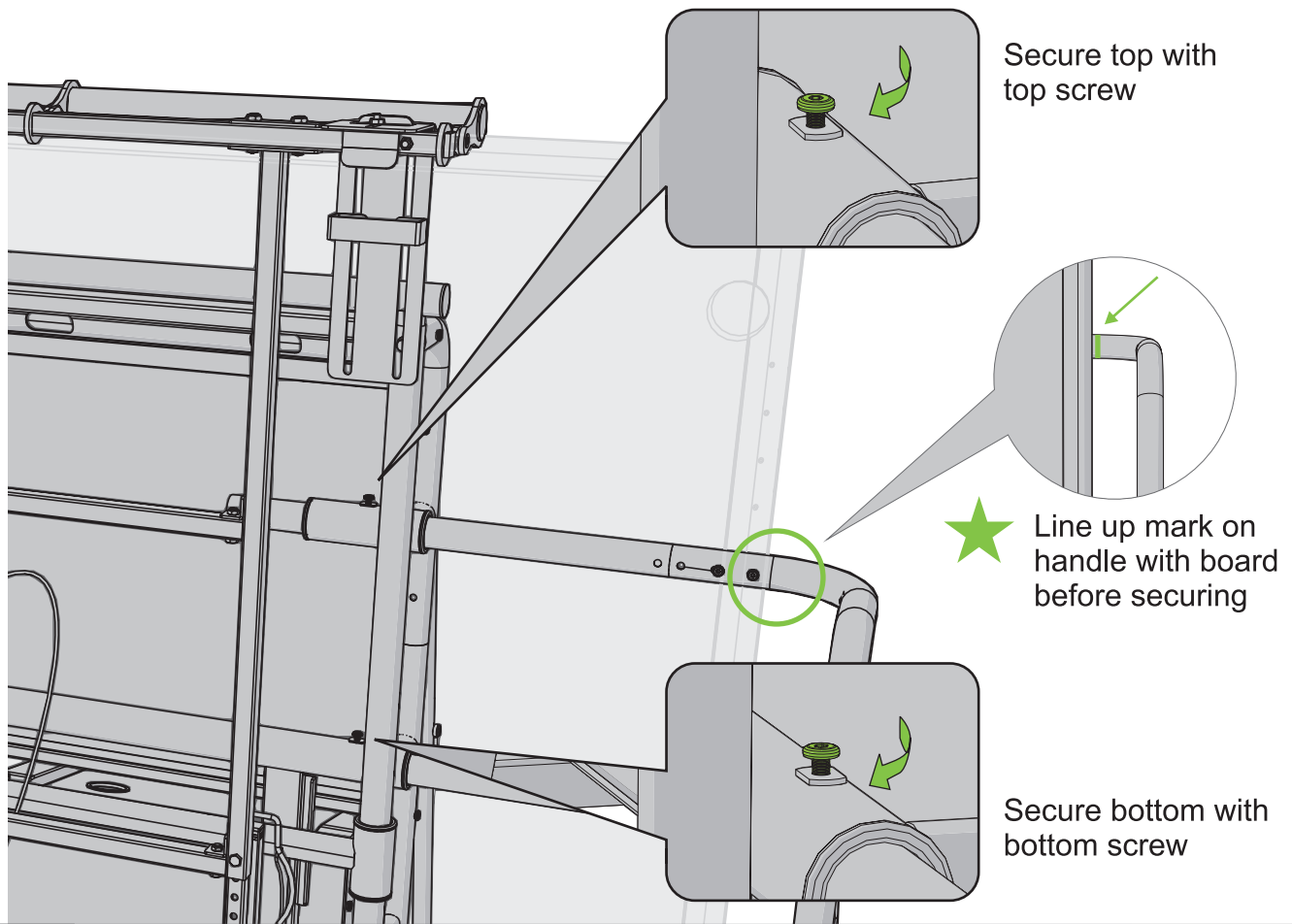
**6 Tighten Board Clamp Assembly bolts**





You will need: (Not to Scale)

## Secure Protective Handles



Actual Size:

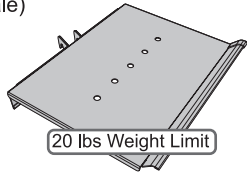
You will need: (Not to Scale)

## Take a Break

**Stop. Take a break. Have a drink or something. You deserve it!**

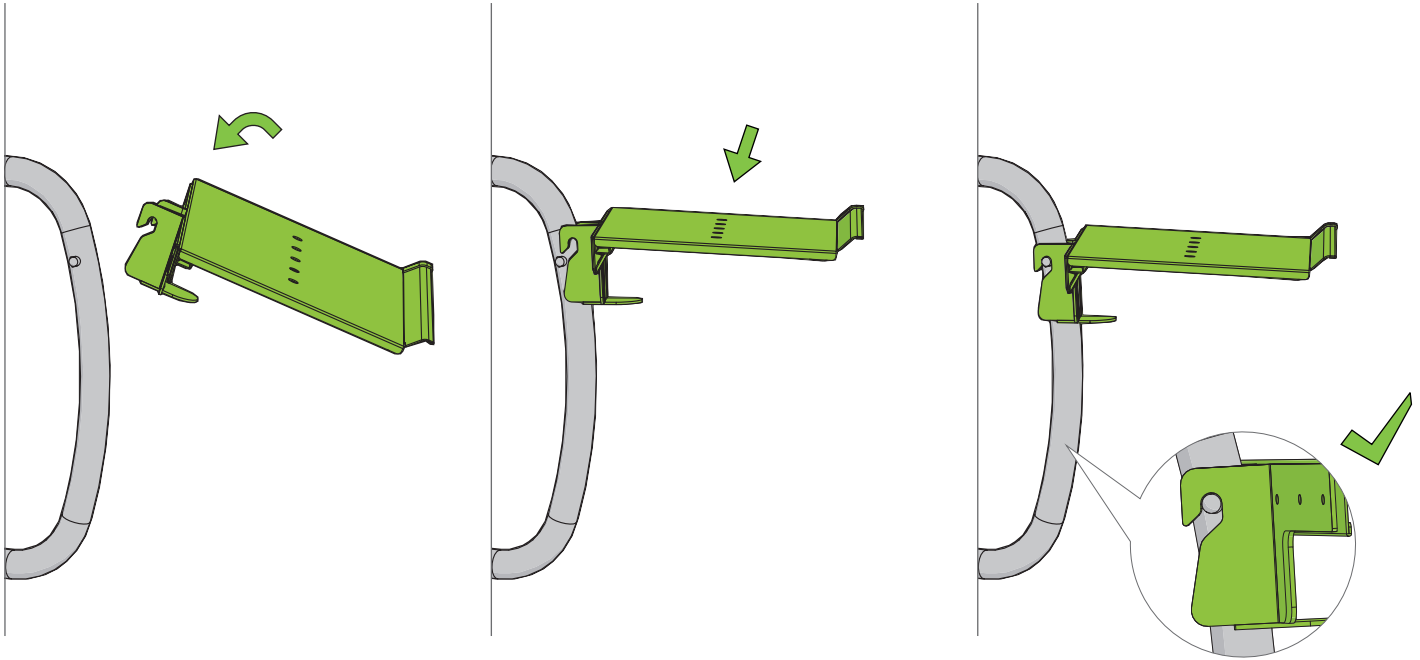


You will need: (Not to Scale)

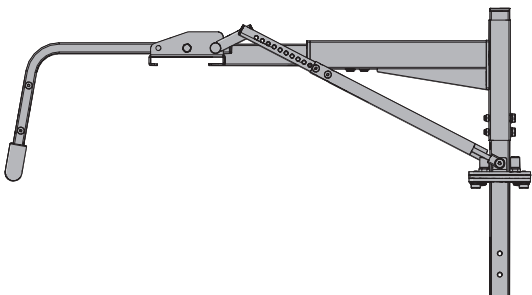
Laptop Tray  
1x

## Attach Laptop Tray

### Optional

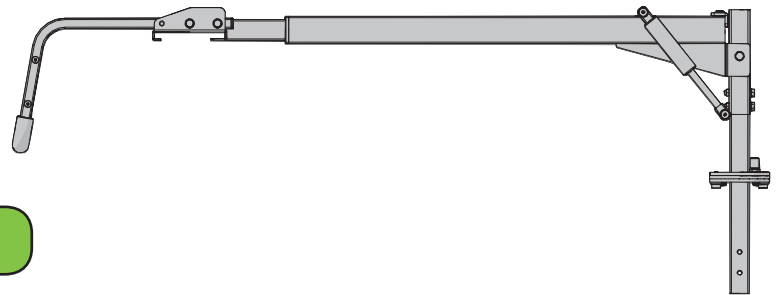


## Choose Projector Arm



**For UST Projector Arm**  
follow steps 35...

OR

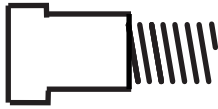


**For ST Projector Arm**  
follow steps 36...



35.1

Actual Size:



JJ

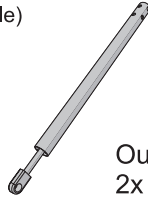
M10 Shoulder Bolt - M8 x 11mm thread  
2x



GG

M10 lock washer  
2x

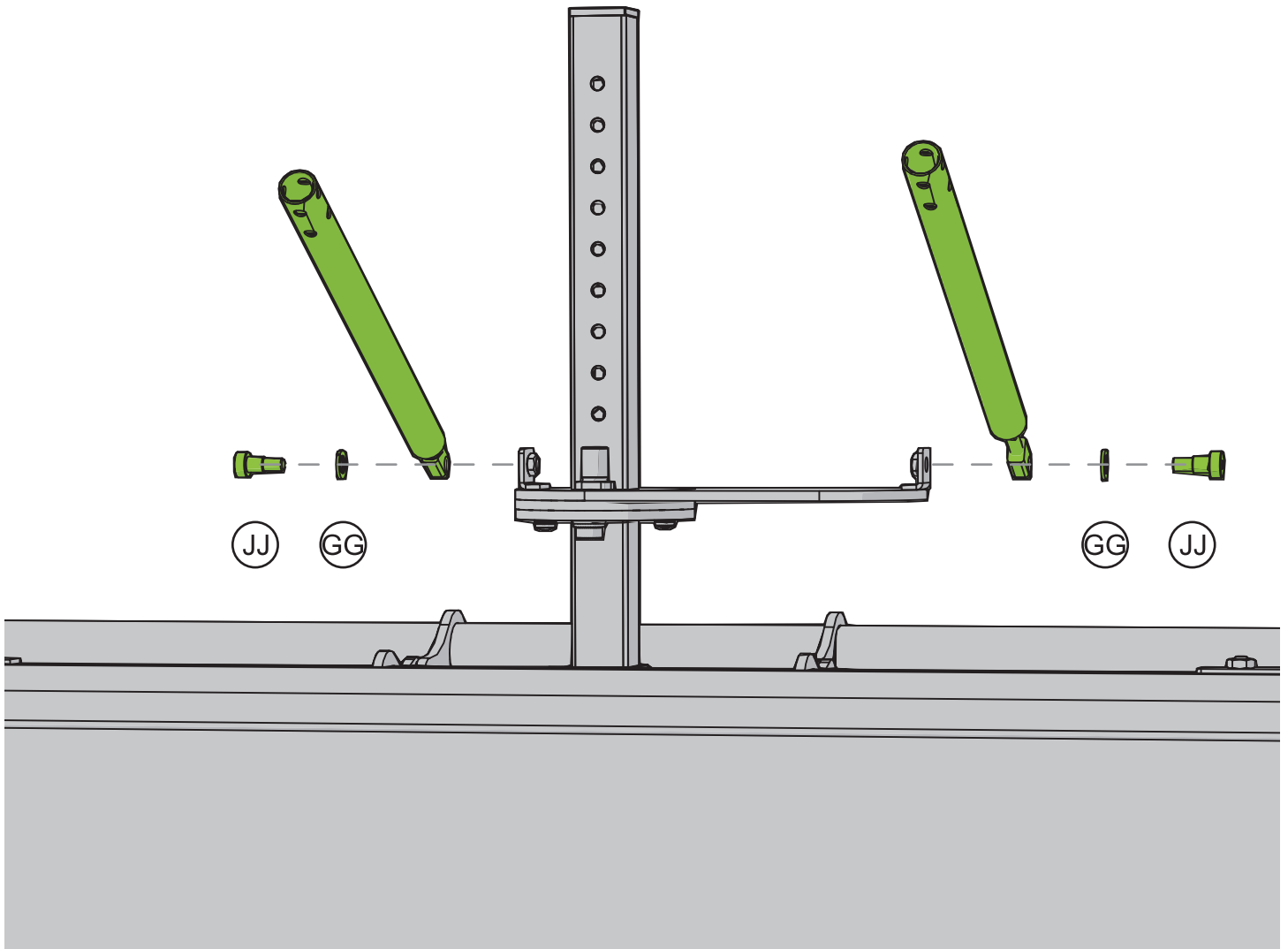
You will need: (Not to Scale)



Outer Brace  
2x

## Attach Outer Brace

**!** Do not fully tighten these bolts,  
you want the braces to move up and down  
a little when aligning your projected image



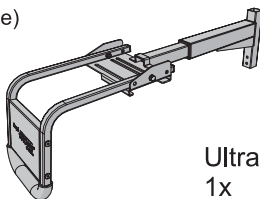
# 35.2

Actual Size:



2-Person Task

You will need: (Not to Scale)

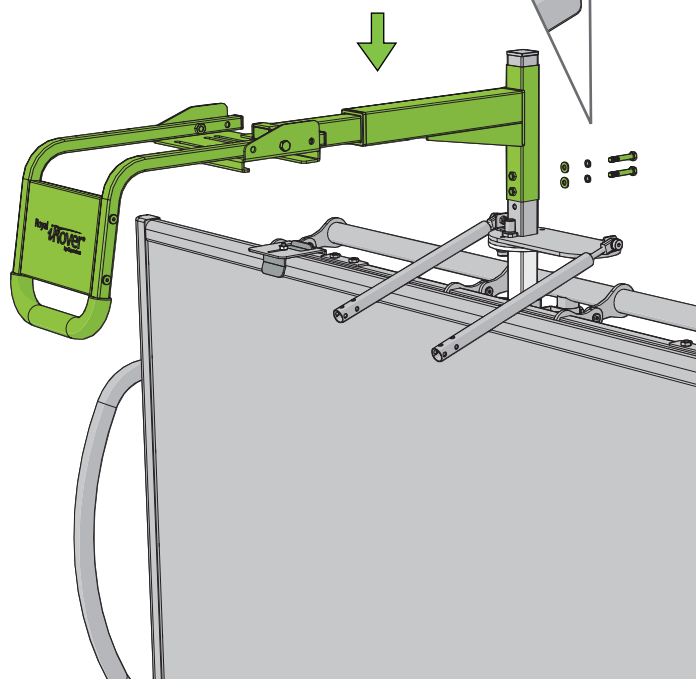
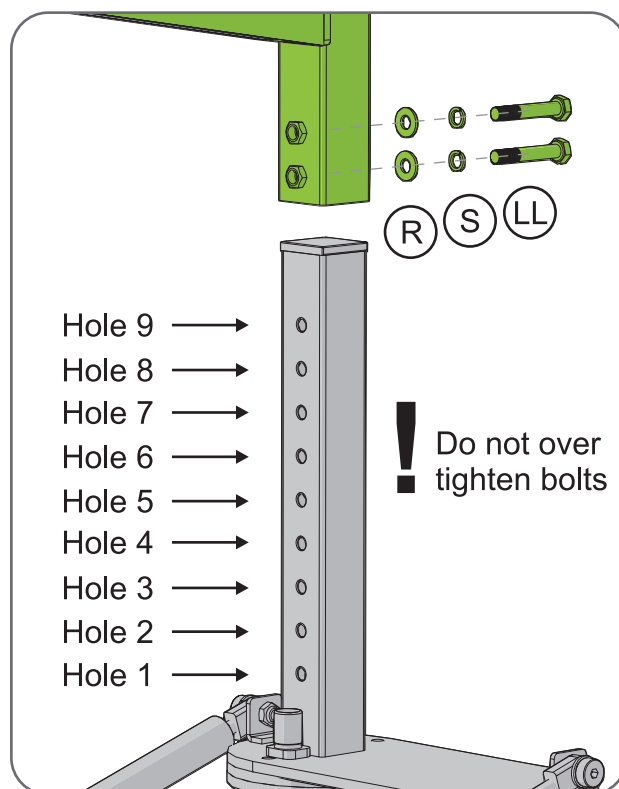


Ultra Short Throw Projector Arm  
1x

## Ultra Short Throw Projector Arm

Projector	Model	Board ("SB" = Smart)	PA Post Holes
BenQ	MX850U-ST	SB 660	4,5
	MX850U-ST	SB 680	7,8
	MX850U-ST	SB 880	8,9
	MX850U-ST	SBM 680	7,8
	MX850U-ST	Promethean 378	8,9
	MW851U-ST	SB 680	5,6
	MW851U-ST	SB 880	6,7
	MW851U-ST	SB 685	5,6
	MW851U-ST	SB 885	6,7
	MW851U-ST	SBM 685	5,6
Epson	MW843U-ST	SBM 685	5,6
	470 / 480 / 570 / 580	SB 660	2,3
	470 / 480 / 570 / 580	SB 680	2,3
	470 / 480 / 570 / 580	SB 880	3,4
	470 / 480 / 570 / 580	SBM680	2,3
	470 / 480 / 570 / 580	Promethean 378	3,4
	470 / 480 / 570 / 580	Promethean ABT 78	3,4
	470i / 480i	Copernicus 77" WB	3,4
	475W / 485W / 575W / 585W	SB 660	2,3
	475W / 485W / 575W / 585W	SB 680	4,5
	475W / 485W / 575W / 585W	SBM 680	4,5
	475W / 485W / 575W / 585W	SB 685	3,4
	475W / 485W / 575W / 585W	SB 885	4,5
	475W / 485W / 575W / 585W	SBM 685	3,4
	475W / 485W / 575W / 585W	Promethean ABT 88	4,5
Hitachi	475Wi / 485Wi / 575Wi / 585Wi	Copernicus 87" WB	5,6
	475Wi / 485Wi / 575Wi / 585Wi	Egan 90" WB	5,6
	*595Wi	Copernicus 87" WB	5,6
	CP-A220N	SB 660	7,8
	CP-A220N	SB 680	4,5
	CP-A220N	SB 880	5,6
	CP-A220N	SBM 680	4,5
	CP-A220N	Promethean 378	5,6
	CP-A220N	Promethean ABT 78	5,6
	CP-A301N	SB 660	7,8
	CP-A301N	SB 680	4,5
	CP-A301N	SB 880	5,6
	CP-A301N	Promethean 378	5,6
	CP-AW252N	SB 685	7,8
	CP-AW252N	SB 885	8,9
NEC	CP-AW252N	SBM 685	7,8
	CP-AX2503/CP-AX3503	SB 680	1,2
	CP-AX2503/CP-AX3503	SBM 680	1,2
	CP-AX2503/CP-AX3503	Promethean ABT 78	2,3
	CP-AW2503	SB 685	8,9
	CP-AW2503	SB 885	8,9
	CP-AW2503	SBM 685	8,9
	CP-AW2503	Promethean ABT 88	8,9
	UM330X	SB 660	4,5
	UM330X	SB 680	2,3
Smart	UM330X	SBM 680	2,3
	UM330X	SB 880	3,4
	UM330X	Promethean 378	3,4
	UM330W	SB 685	4,5
	UM330W	SBM 685	4,5
	UM330W	SB 885	5,6
	UM330W	MimioBoard ME-87	5,6
	UF75W	SB 680	5,6
	UF75W	SB 880	6,7
	UF75W	SBM 680	5,6
	UF75W	SB 685	5,6
	UF75W	SB 885	6,7
	UF75W	SBM 685	5,6
	LightRaise 40Wi	Copernicus 77" WB	7,8
	LightRaise 40Wi	Copernicus 87" WB	7,8
	UF70W	SB 685	5,6
	UF70W	SB 885	6,7
	UF70W	SBM 685	5,6
	UF70	SB 680	7,8
	UF70	SB 880	8,9
	UF70	SBM 680	7,8

## Set Projector Arm Post Height



\*Epson 595Wi projector must be ordered with bracket (IWB-BK595) in order to mount touch module for finger touch interactivity.

# 35.3

Actual Size:



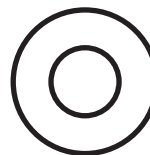
KK  
4x



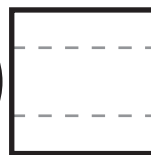
R  
4x



S  
4x



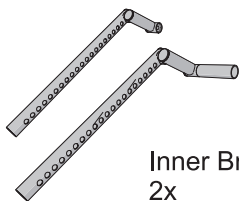
front



side

ii  
2x

You will need: (Not to Scale)

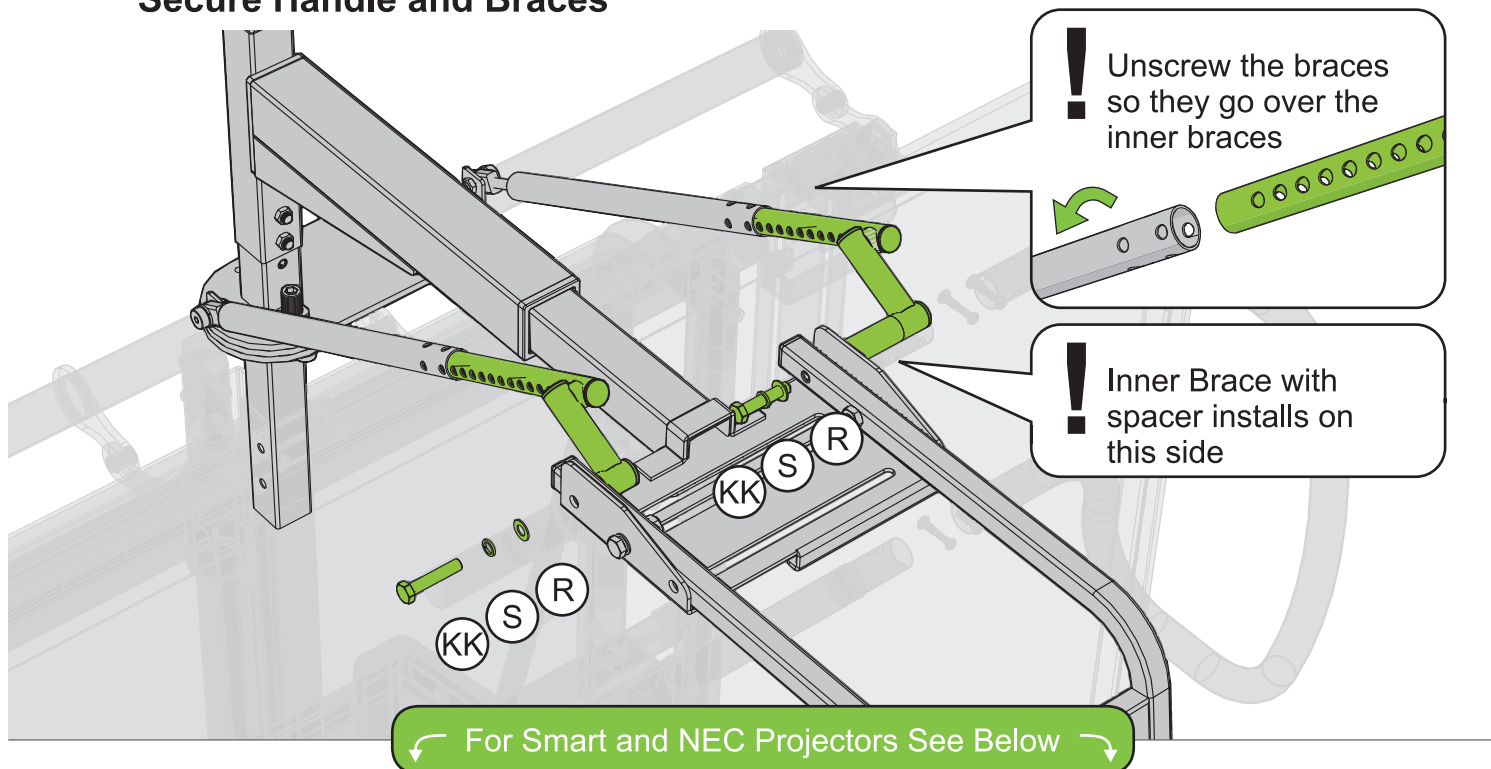


Inner Brace  
2x

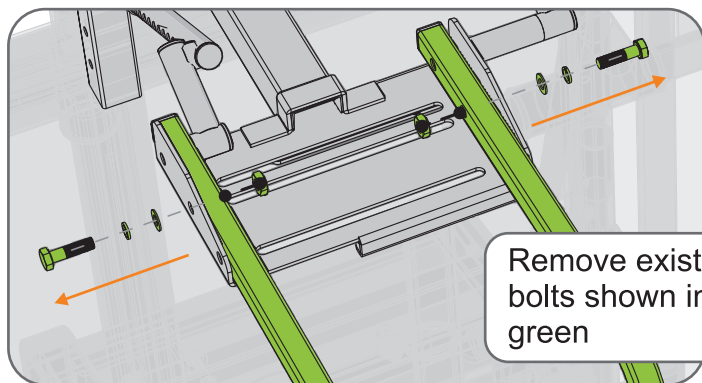


M  
2x

## Secure Handle and Braces



1)

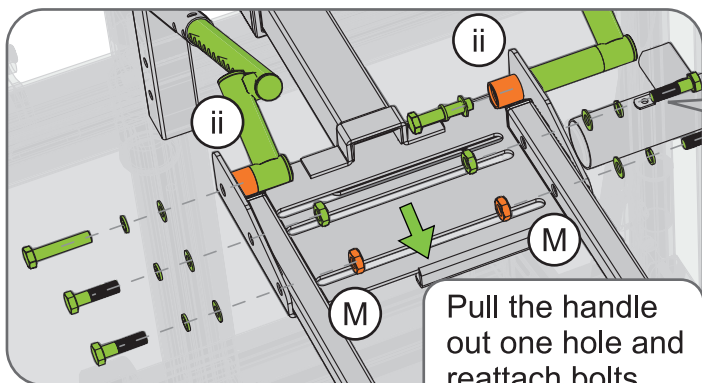


Remove existing  
bolts shown in  
green

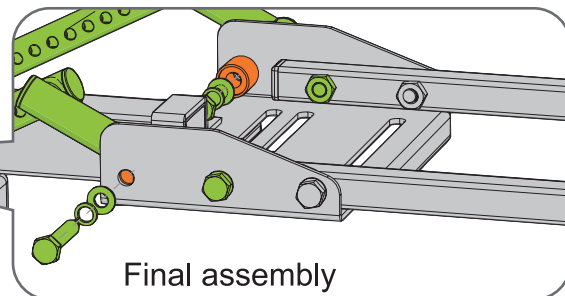
For the following  
projectors install with  
handle pulled out and  
use ii spacers:

Smart	UF75W
	LightRaise 40Wi
	UF70W
	UF70
NEC	UM330X
	UM330W
Sony	VPL-SW536

2)



Pull the handle  
out one hole and  
reattach bolts



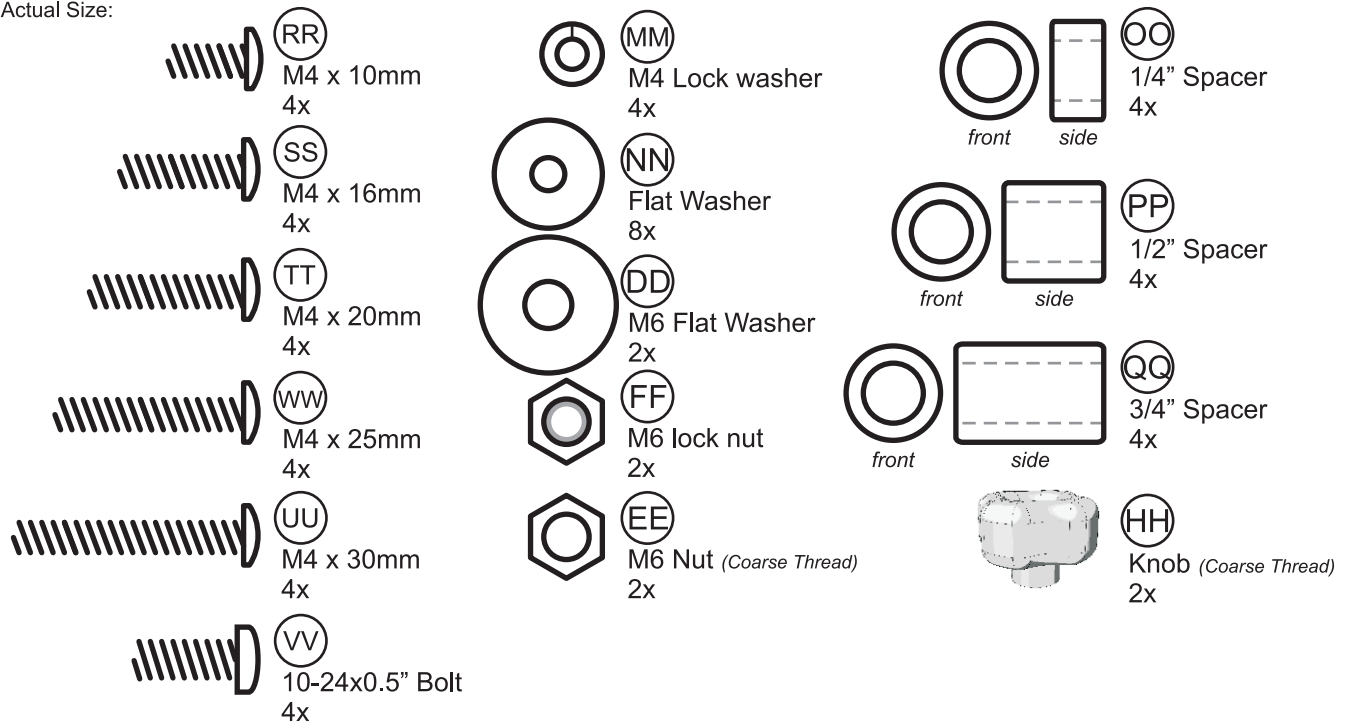
Final assembly



Allow the Inner Braces to move a little,  
this will make aligning your image easier

# 35.4

Actual Size:



You will need: (Not to Scale)



Spider Arm - Short  
4x



Spider Arm - Medium  
2x



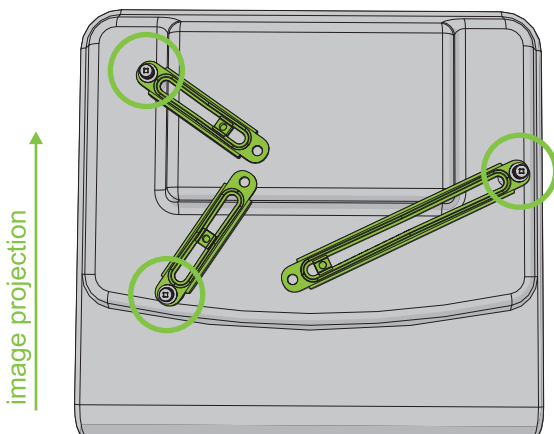
Spider Arm - Long  
1x

## 1 Attach Spider Arms

Be sure not to tighten any bolts yet, we will need the Spider Arms loose when we position our Projector Plate in the next step.

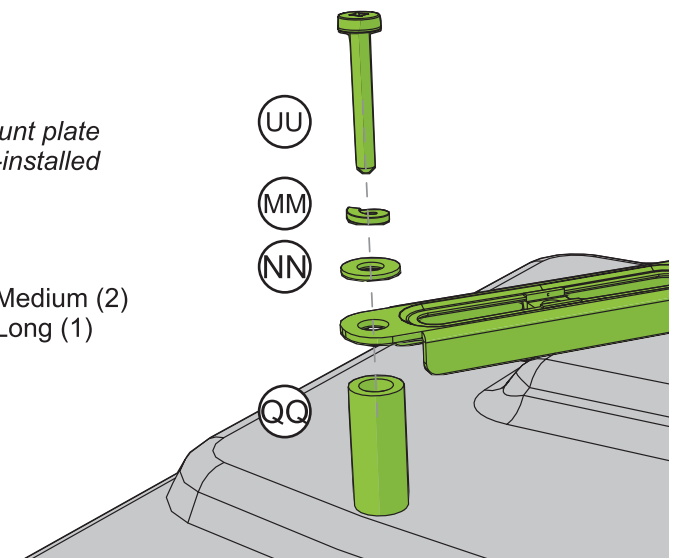
- Make sure to identify the correct projector you are installing.
- More projectors on the following pages.

## Attaching Spider Arms to BenQ MX850UST/MW851UST/MW843UST



**!** If white mount plate comes pre-installed remove it.

Spider Arm - Medium (2)  
Spider Arm - Long (1)

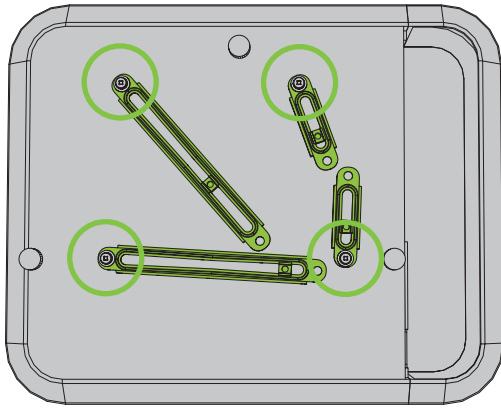


... continued

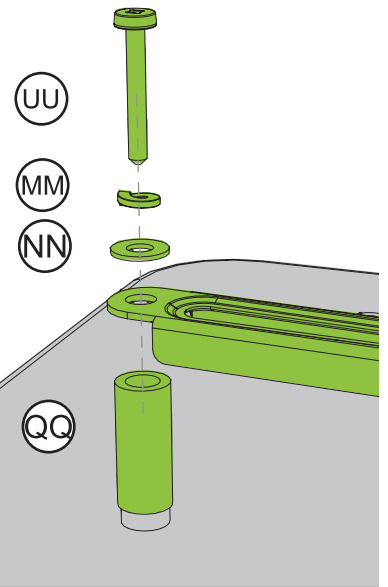


## Attaching Spider Arms to Casio XJ-UT310WN

image projection

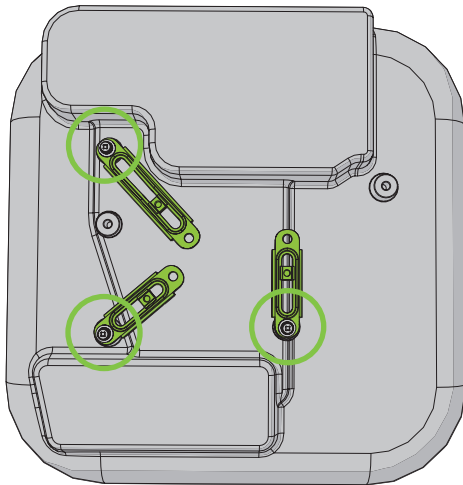


Spider Arm - Short (2)  
Spider Arm - Medium (2)



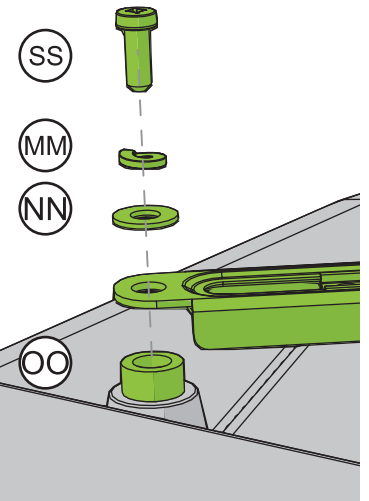
## Attaching Spider Arms to Epson 470/470i/475W/475Wi, 480/480i/485W/485Wi, 570/575W/575Wi, 580/585W/585Wi/595Wi

image projection



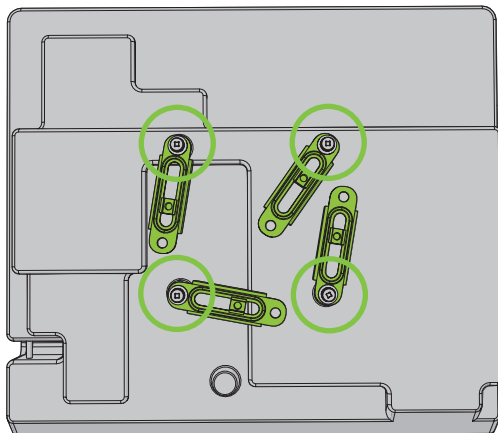
! If white mount plate comes pre-installed remove it.

Spider Arm - Short (2)  
Spider Arm - Medium (1)

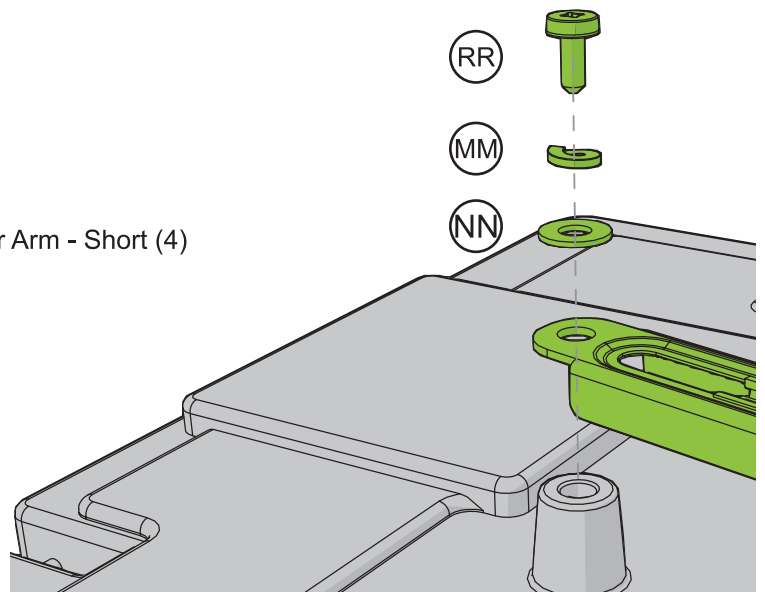


## Attaching Spider Arms to Hitachi CP-A220N, A301N, AW252N

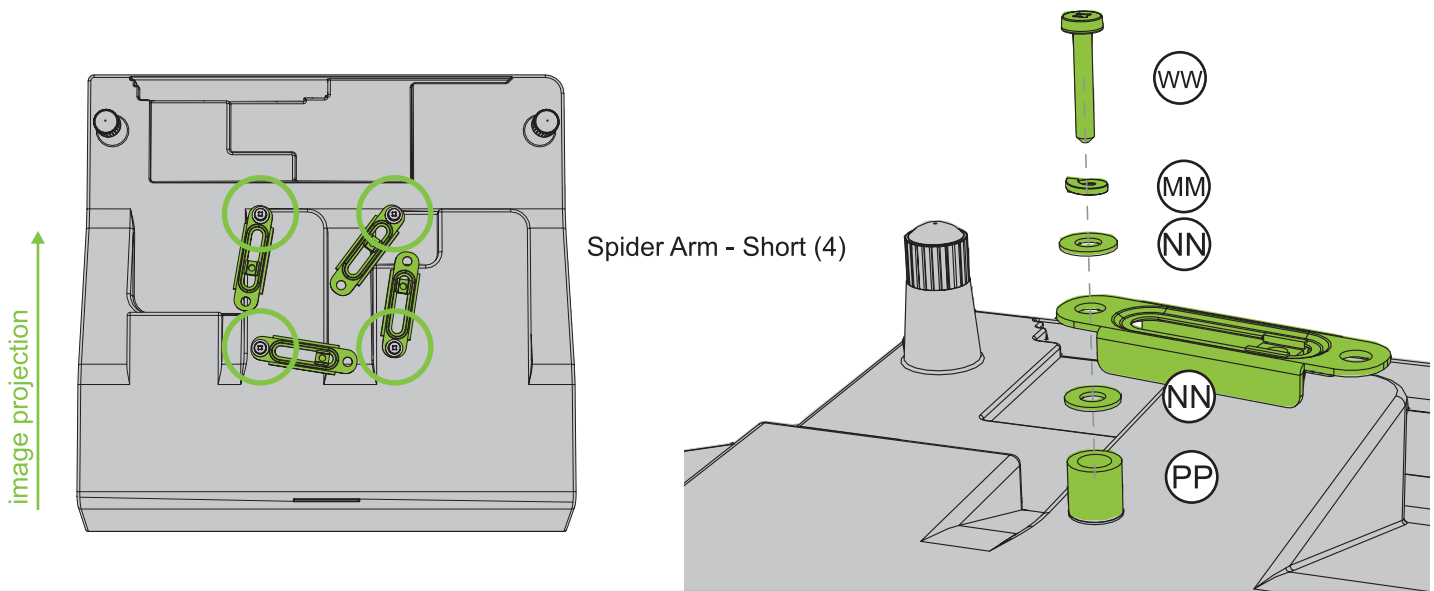
image projection



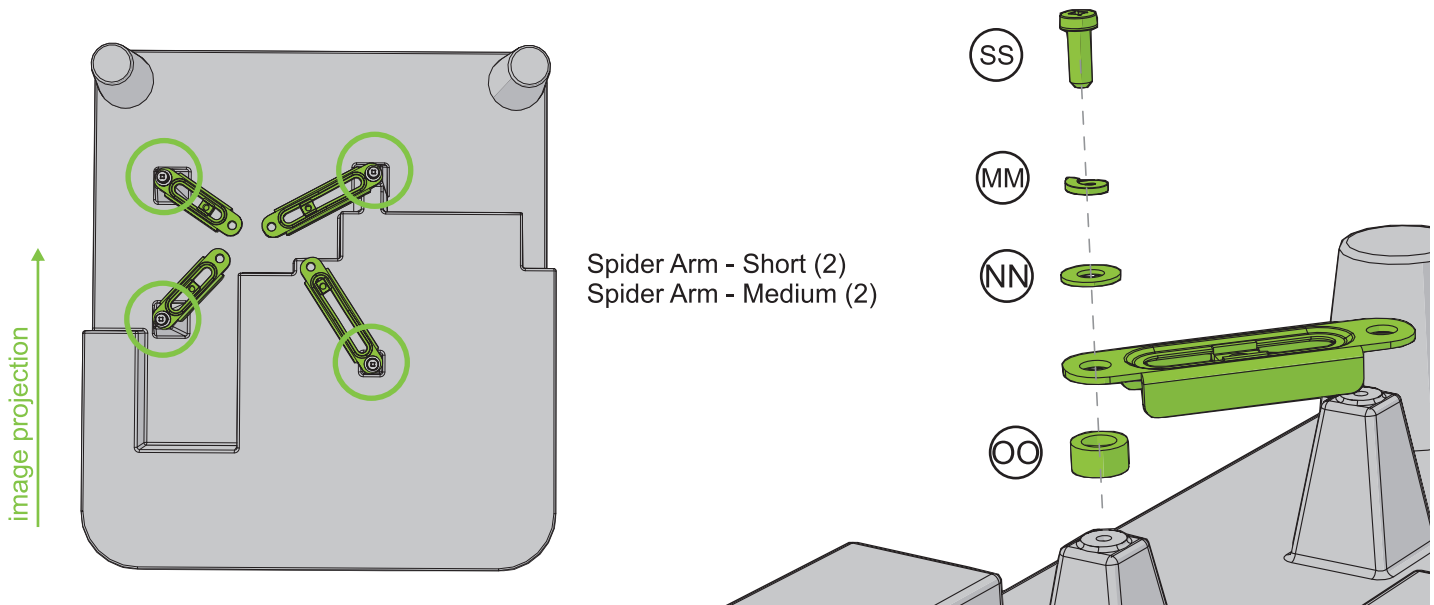
Spider Arm - Short (4)



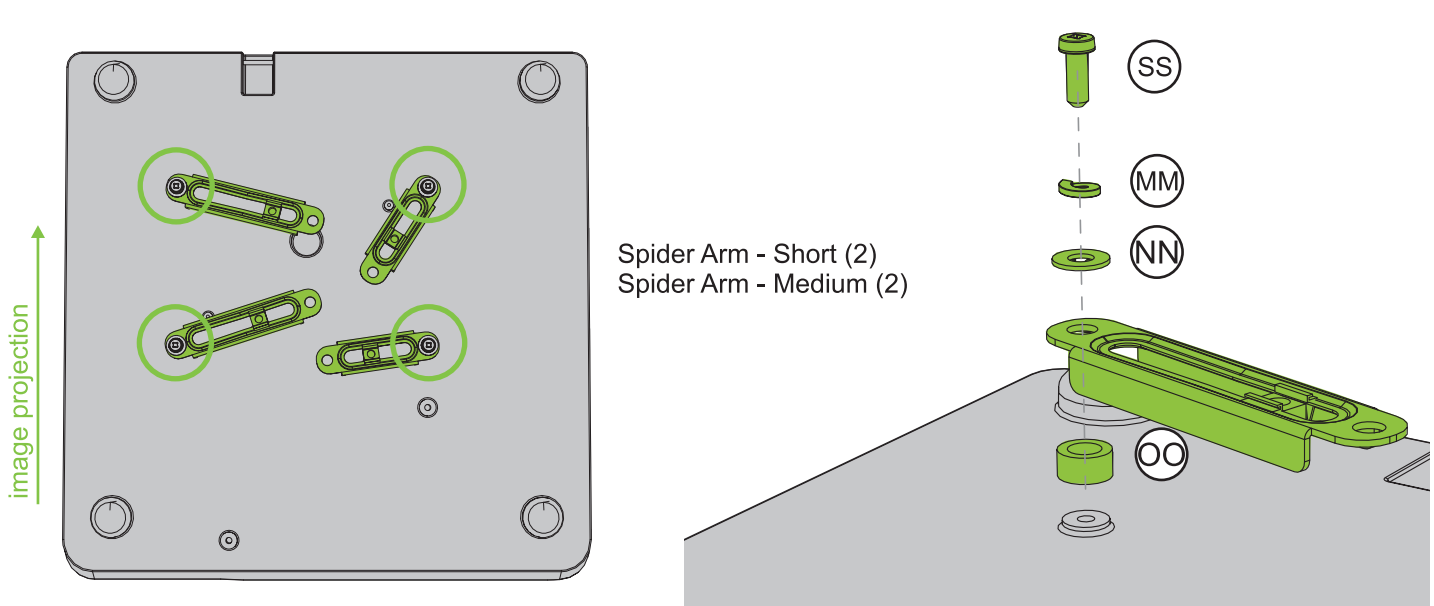
## Attaching Spider Arms to Hitachi CP-AX2503/AX3503/AW2503



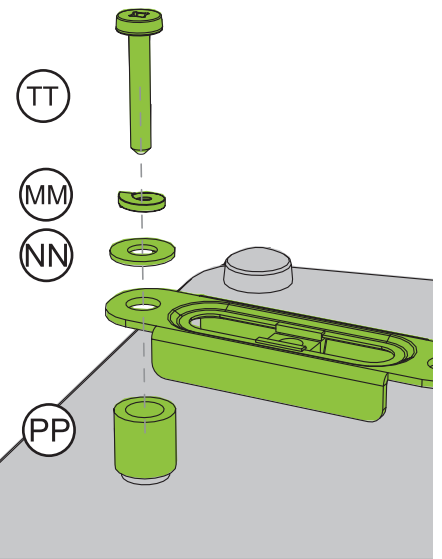
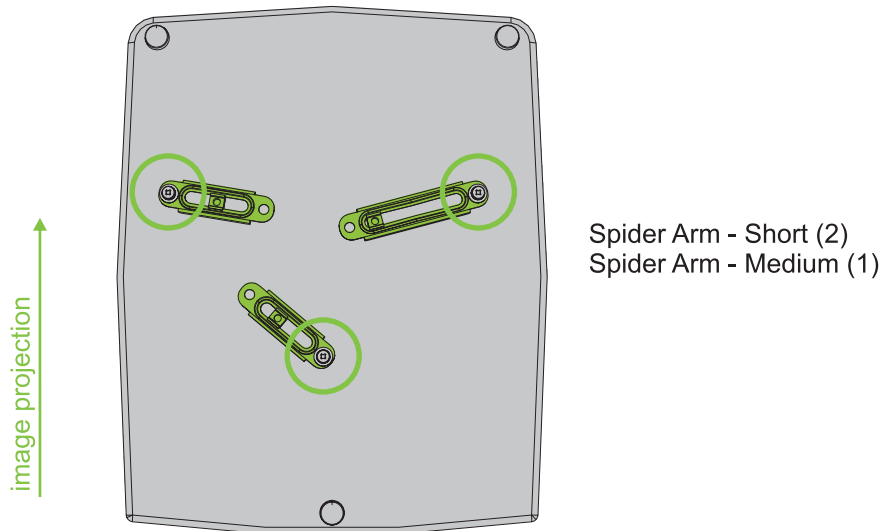
## Attaching Spider Arms to NEC UM330X/UM330W



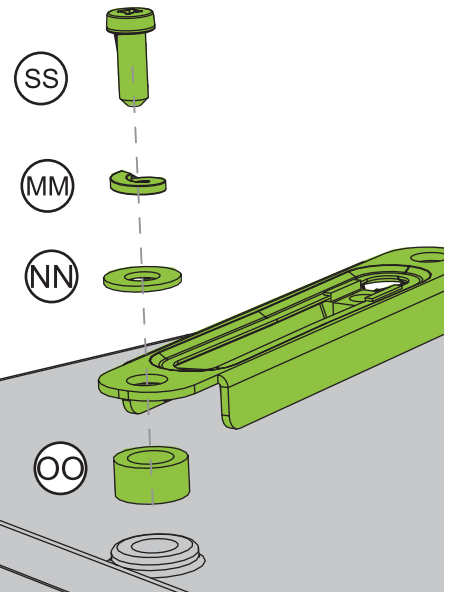
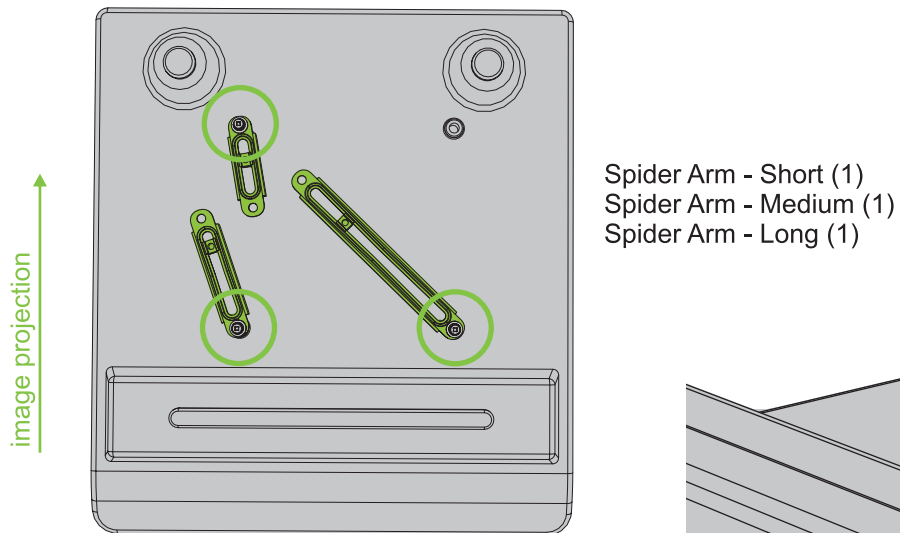
## Attaching Spider Arms to Optoma W307UST



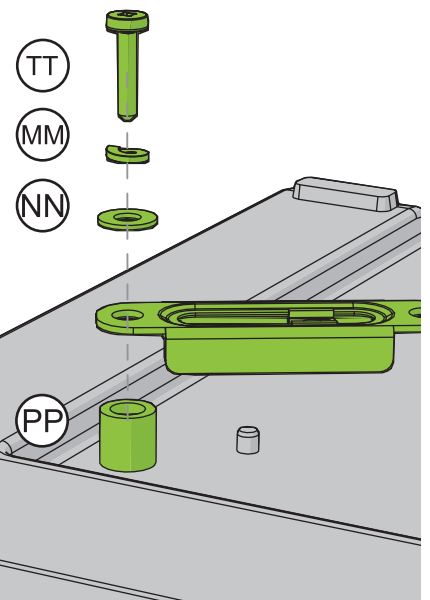
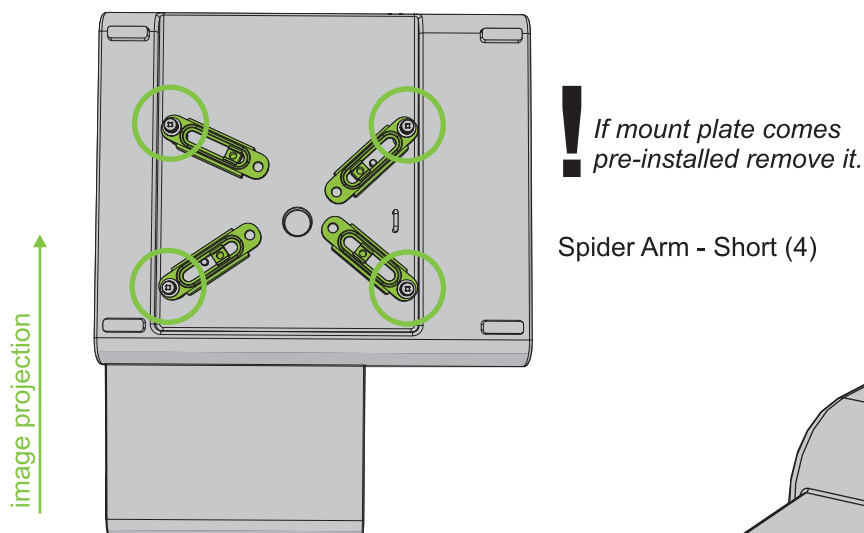
## Attaching Spider Arms to Promethean UST-P1



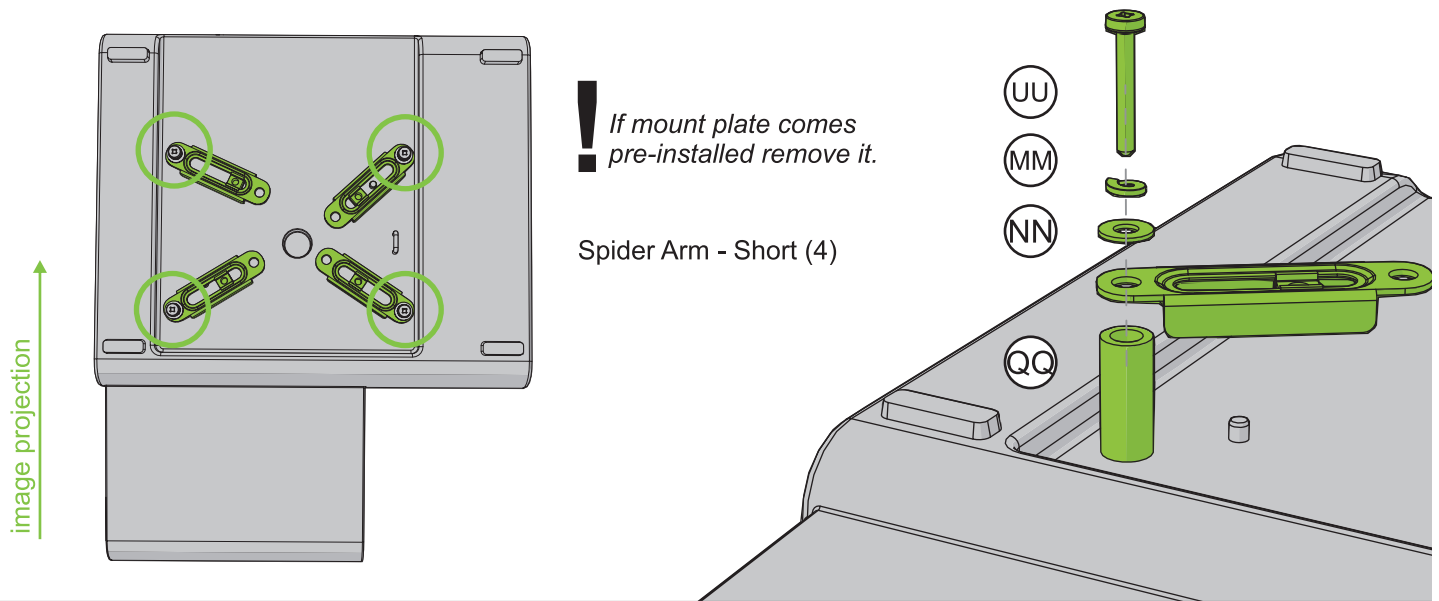
## Attaching Spider Arms to Sony VPL-SW536



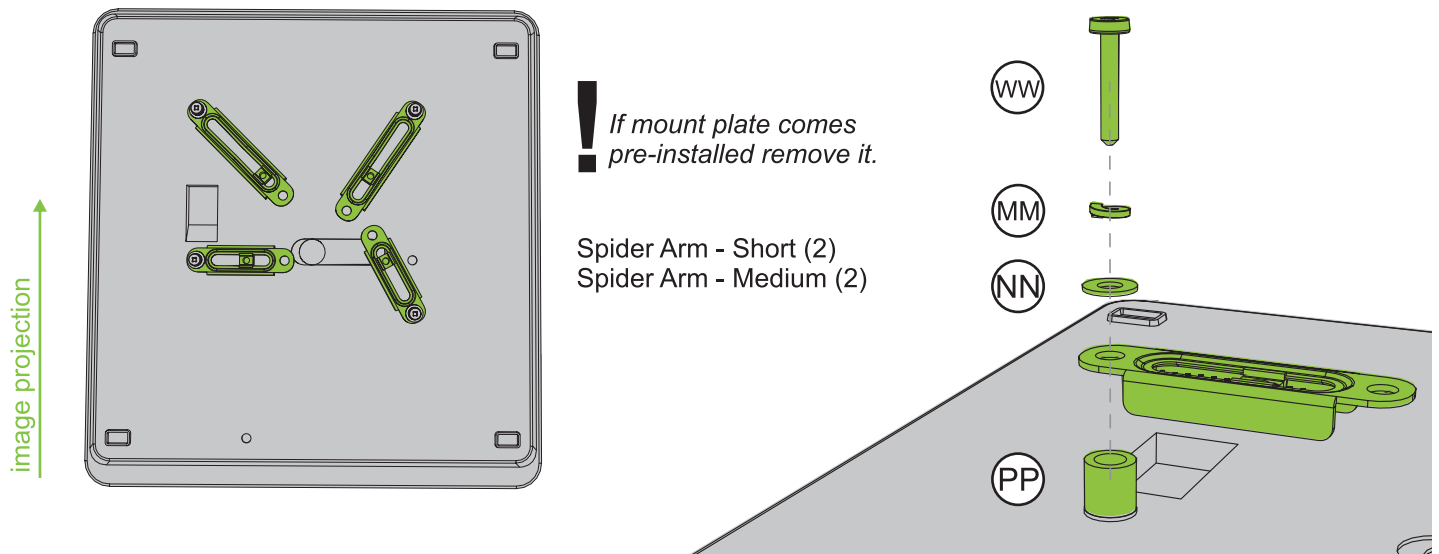
## Attaching Spider Arms to Smart UF75W



## Attaching Spider Arms to Smart LightRaise 40Wi



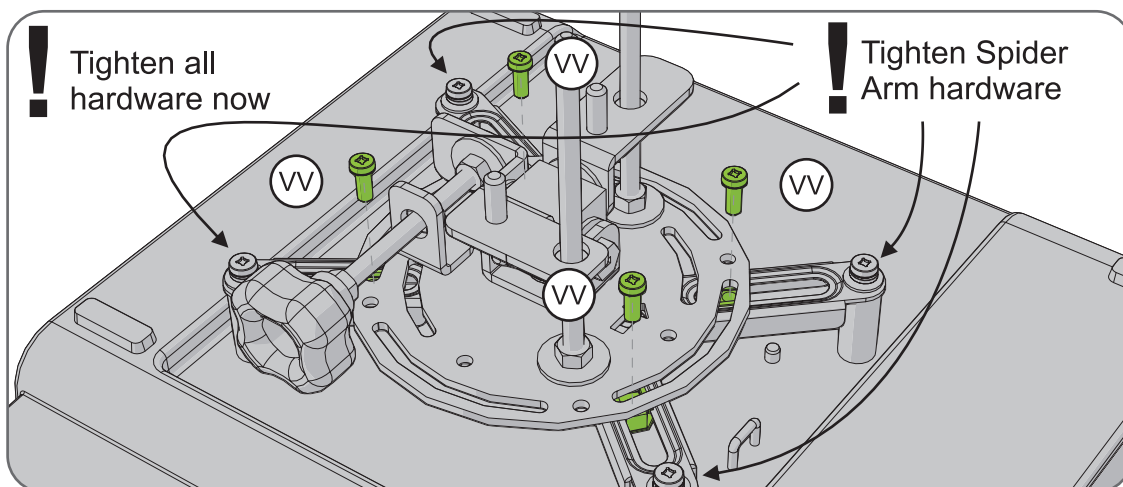
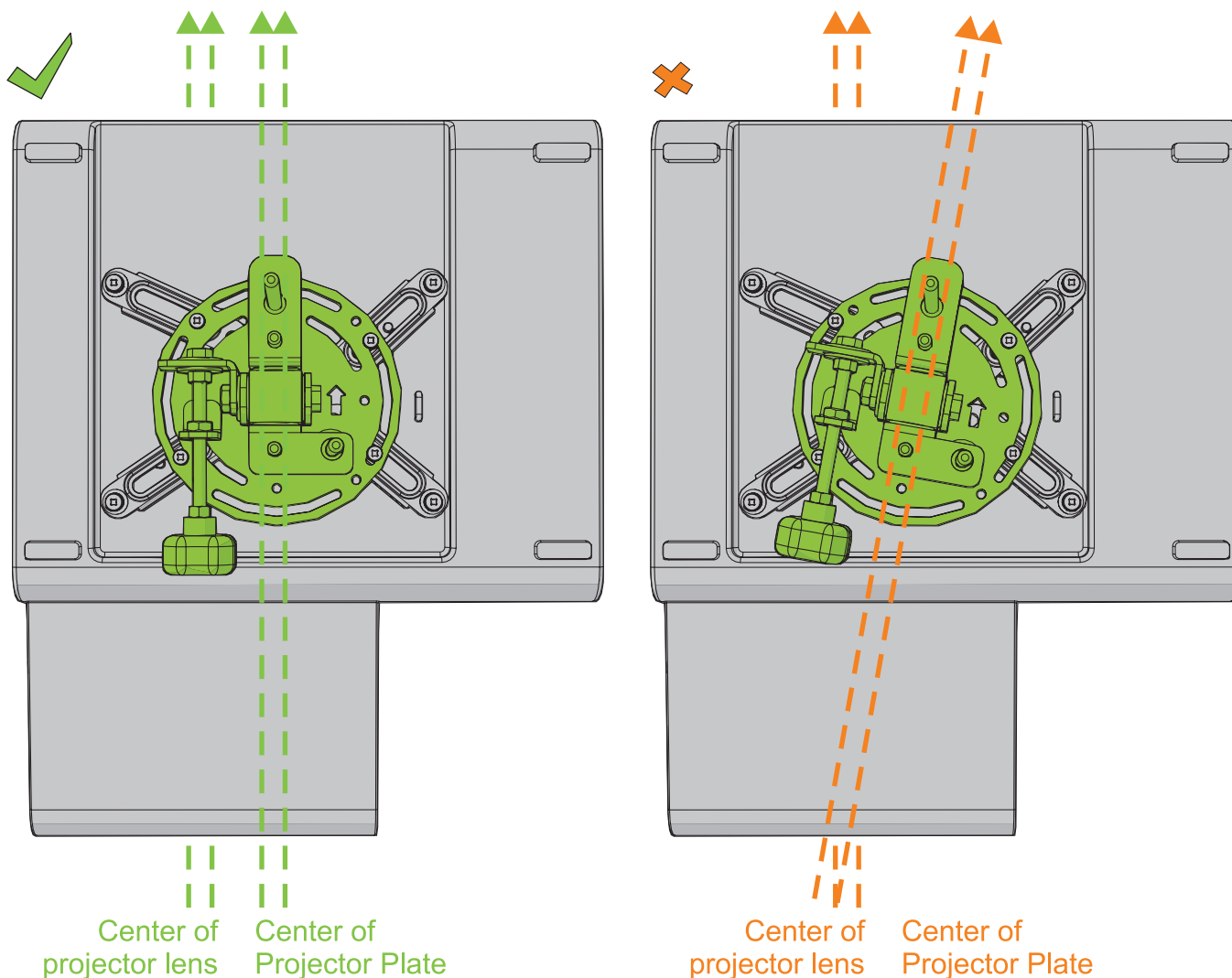
## Attaching Spider Arms to Smart UF70/UF70W



## 2 Attach Projector Plate

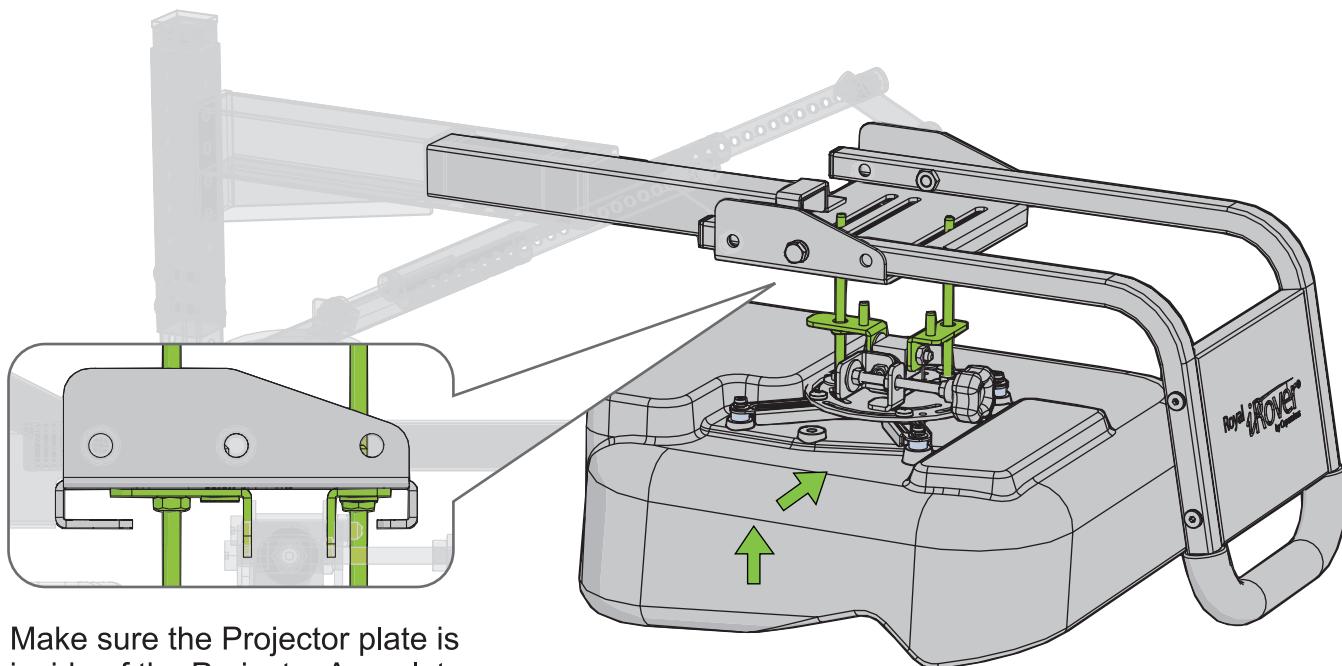
Pay attention to the alignment of the Projector Plate. Correct installation will make aligning your image later on much easier.

**!** MAKE SURE YOUR PROJECTOR PLATE IS PARALLEL WITH YOUR PROJECTOR



### 3 Attach Projector to Projector Arm

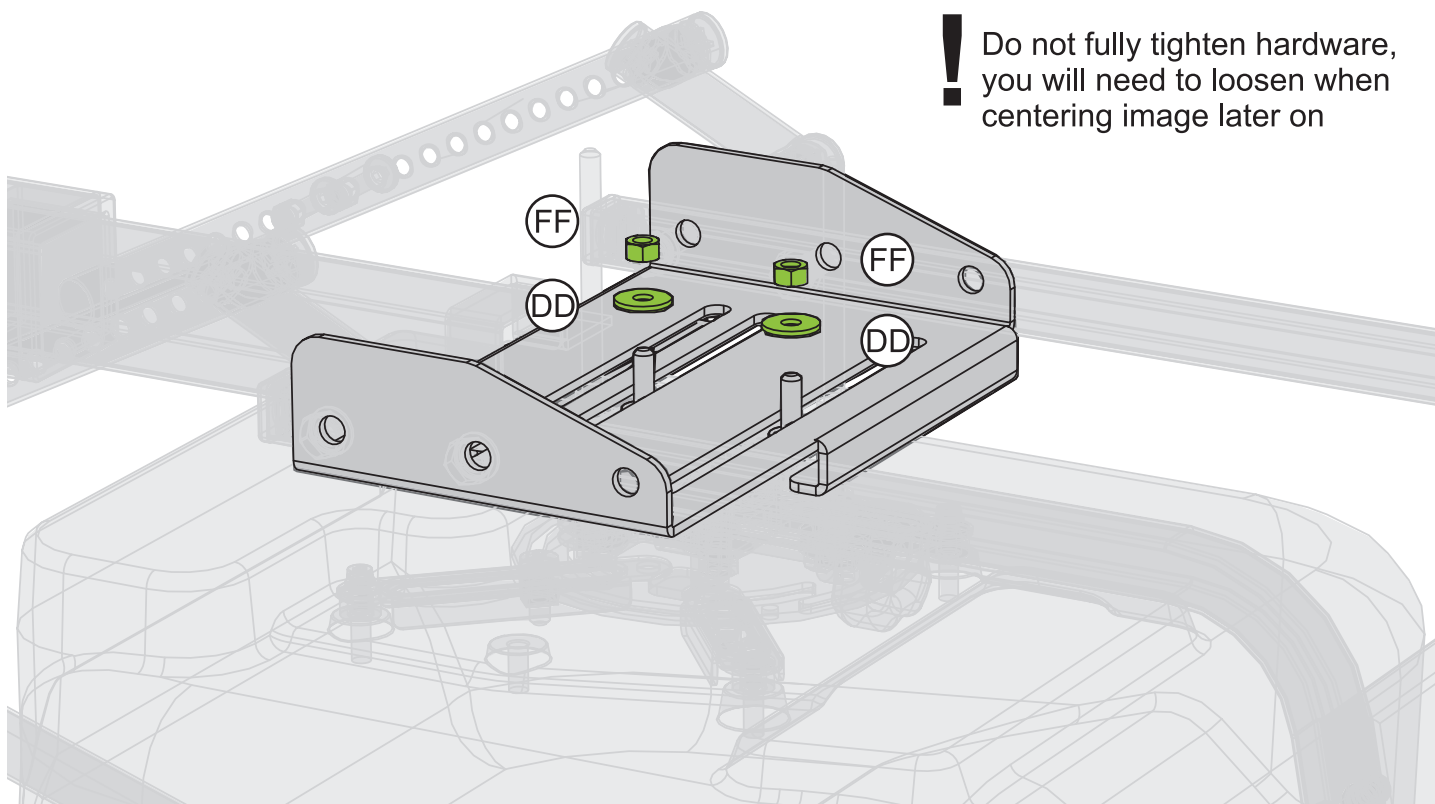
When placing in slots, align the lens of the projector so it lines up with the Projector Arm. This will help your projected image to align with the middle of your board.



**!** Make sure the Projector plate is inside of the Projector Arm plate

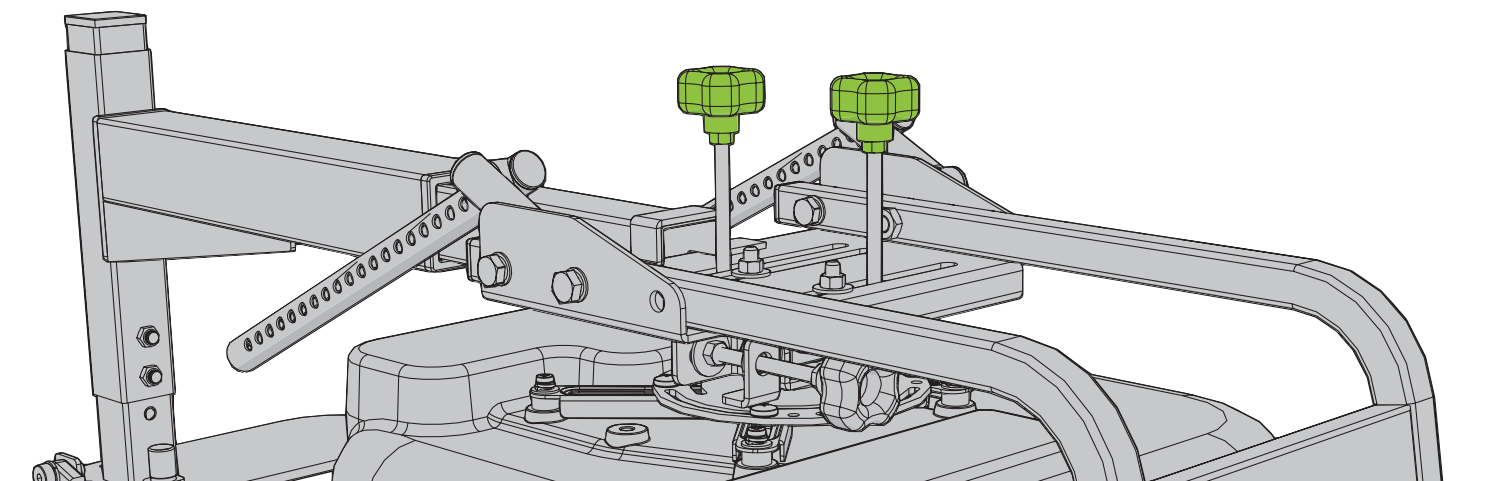
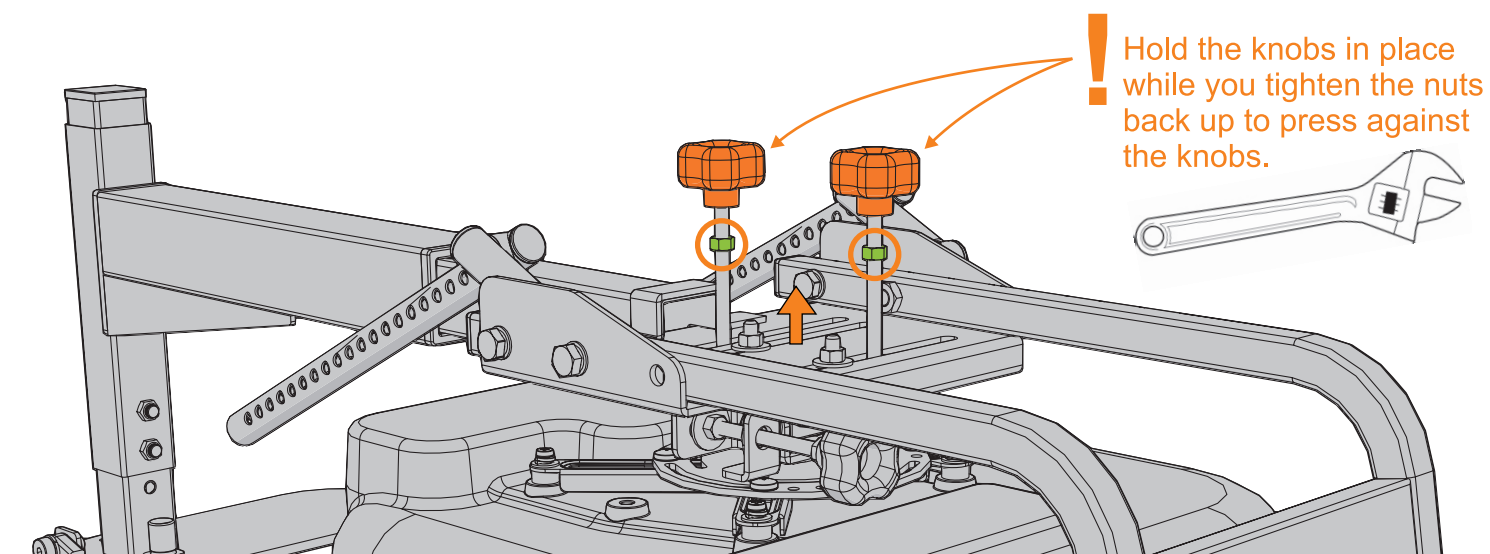
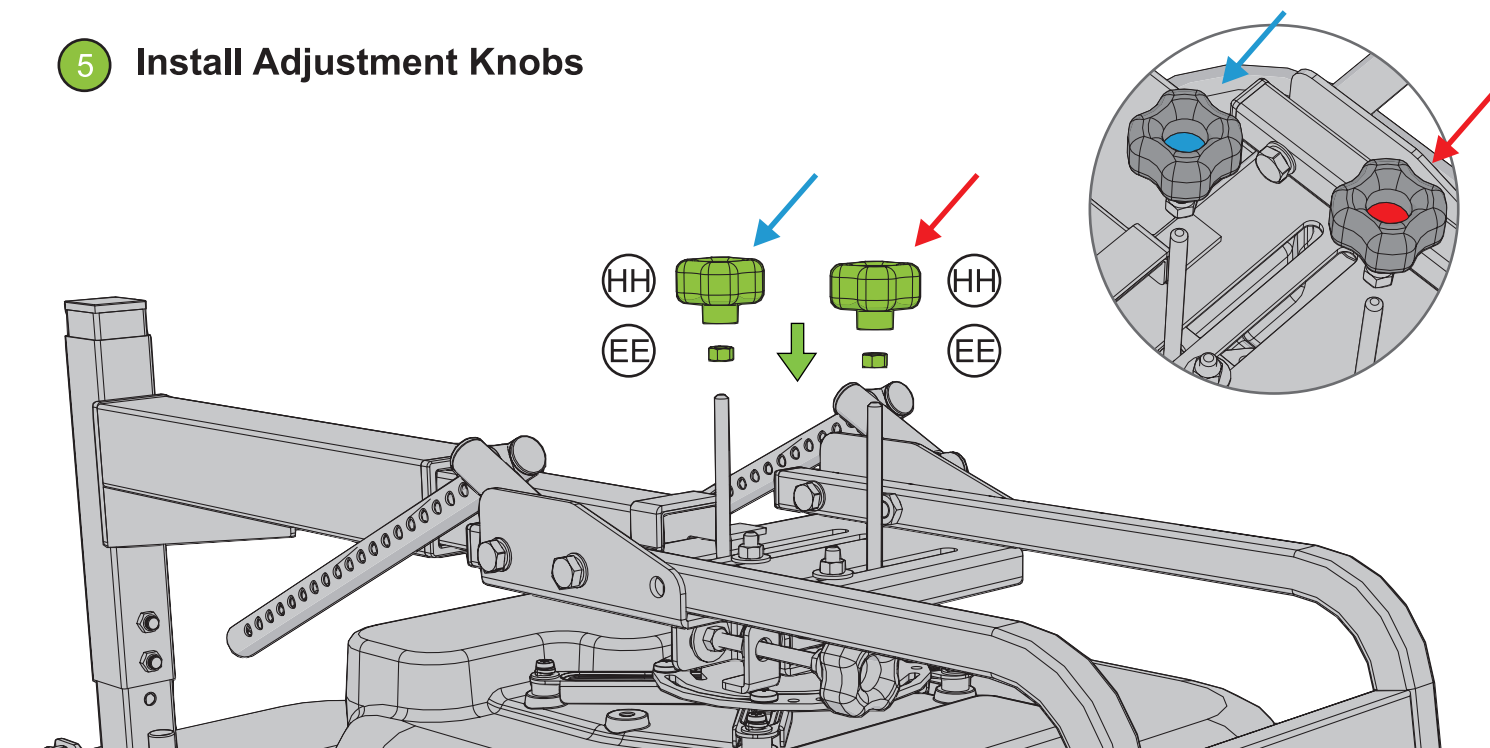
### 4 Secure Projector

**!** Do not fully tighten hardware, you will need to loosen when centering image later on





## 5 Install Adjustment Knobs





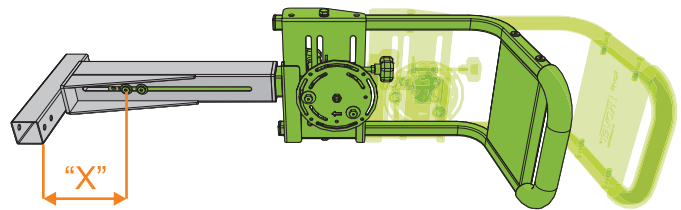
# Align Your Image

## 1 Adjust Size of Image Using Distance "X"

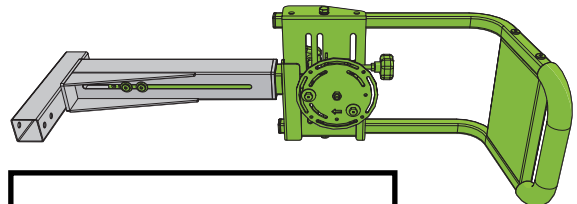
Ultra Short Throw Projector Arm			
Projector	Model	Board ("SB" = Smart)	Distance "X"
BenQ	MX850U-ST	SB 660	128mm
	MX850U-ST	SB 680	237mm
	MX850U-ST	SB 880	233mm
	MX850U-ST	SBM 680	187mm
	MX850U-ST	Promethean 378	252mm
	MW851U-ST	SB 680	221mm
	MW851U-ST	SB 880	207mm
	MW851U-ST	SB 685	221mm
	MW851U-ST	SB 885	207mm
	MW851U-ST	SBM 685	166mm
	MW843U-ST	SBM 685	209mm
Epson	470 / 480 / 570 / 580	SB 660	79mm
	470 / 480 / 570 / 580	SB 680	142mm
	470 / 480 / 570 / 580	SB 880	151mm
	470 / 480 / 570 / 580	SBM680	137mm
	470 / 480 / 570 / 580	Promethean 378	168mm
	470 / 480 / 570 / 580	Promethean ABT 78	125mm
	470i / 480i	Copernicus 77" WB	137mm
	475W / 485W / 575W / 585W	SB 660	90mm
	475W / 485W / 575W / 585W	SB 680	170mm
	475W / 485W / 575W / 585W	SBM 680	165mm
	475W / 485W / 575W / 585W	SB 685	161mm
	475W / 485W / 575W / 585W	SB 885	154mm
	475W / 485W / 575W / 585W	SBM 685	151mm
	475W / 485W / 575W / 585W	Promethean ABT 88	143mm
	475Wi / 485Wi / 575Wi / 585Wi	Copernicus 87" WB	155mm
	475Wi / 485Wi / 575Wi / 585Wi	Egan 90" WB	170mm
	*595Wi	Copernicus 87" WB	155mm
	CP-A220N	SB 660	78mm
	CP-A220N	SB 680	94mm
	CP-A220N	SB 880	90mm
Hitachi	CP-A220N	SBM 680	85mm
	CP-A220N	Promethean 378	121mm
	CP-A220N	Promethean ABT 78	70mm
	CP-A301N	SB 660	75mm
	CP-A301N	SB 680	87mm
	CP-A301N	SB 880	88mm
	CP-A301N	Promethean 378	116mm
	CP-AW252N	SB 685	187mm
	CP-AW252N	SB 885	187mm
	CP-AW252N	SBM 685	175mm
	CP-AX2503/CP-AX3503	SB 680	93mm
	CP-AX2503/CP-AX3503	SBM 680	93mm
	CP-AX2503/CP-AX3503	Promethean ABT 78	93mm
	CP-AW2503	SB 685	203mm
	CP-AW2503	SB 885	216mm
	CP-AW2503	SBM 685	199mm
	CP-AW2503	Promethean ABT 88	185mm
NEC	UM330X	SB 660	98mm
	UM330X	SB 680	131mm
	UM330X	SBM 680	131mm
	UM330X	SB 880	123mm
	UM330X	Promethean 378	146mm
	UM330W	SB 685	238mm
	UM330W	SBM 685	218mm
	UM330W	SB 885	238mm
	UM330W	MimioBoard ME-87	249mm

\*Epson 595Wi projector must be ordered with bracket (IWB-BK595) in order to mount touch module for finger touch interactivity.

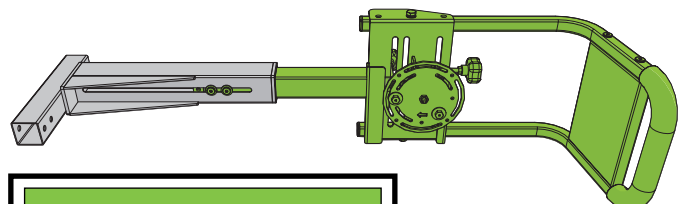
Don't see your projector & board combination here?  
Check p.71 for a complete list of projectors.



Measure from the  
post to the first screw.



Make Image Smaller



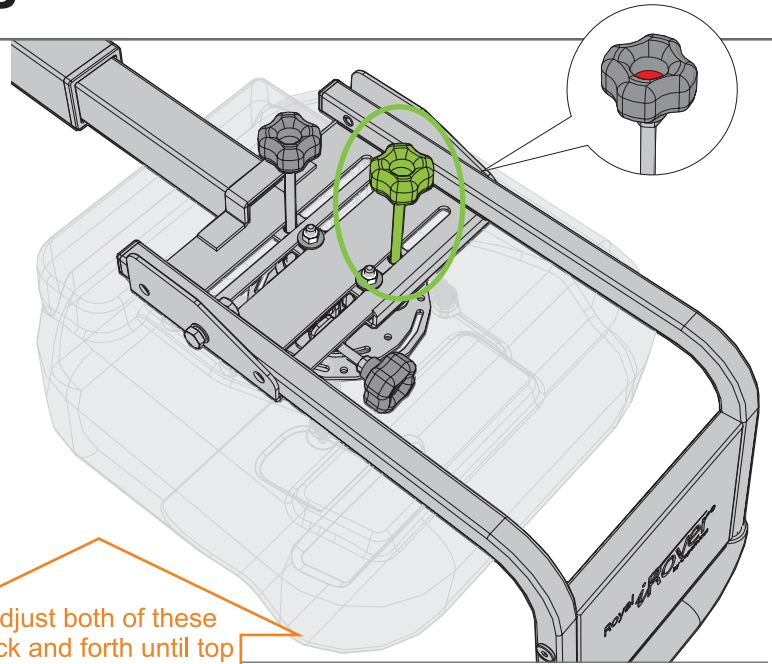
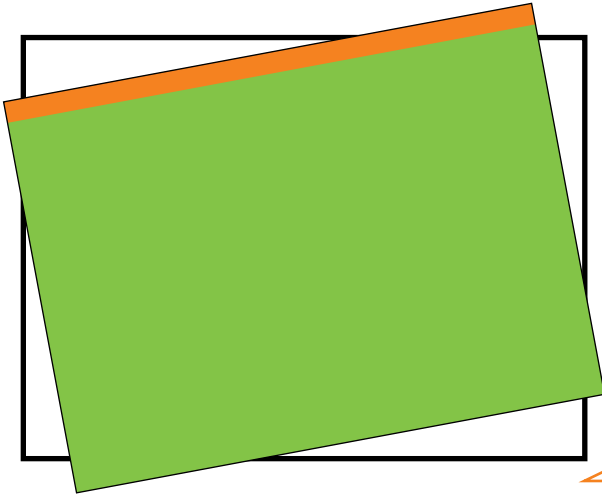
Make Image Larger

... continued on  
next page



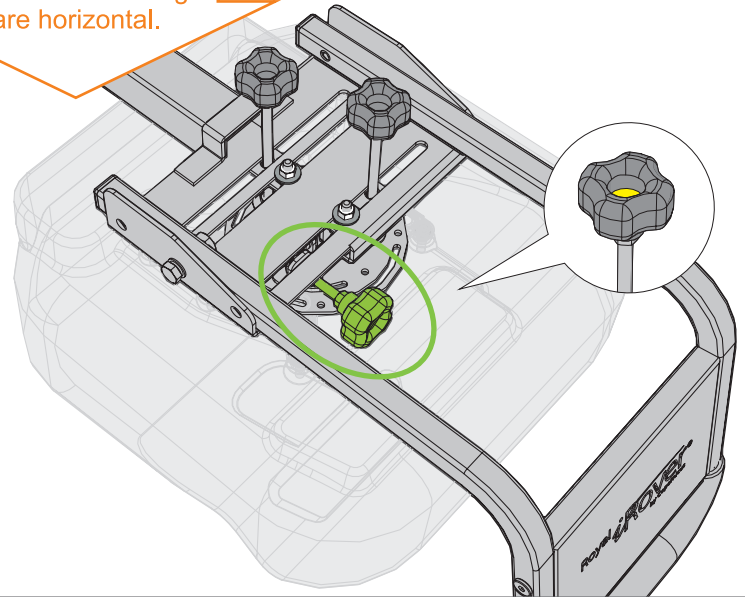
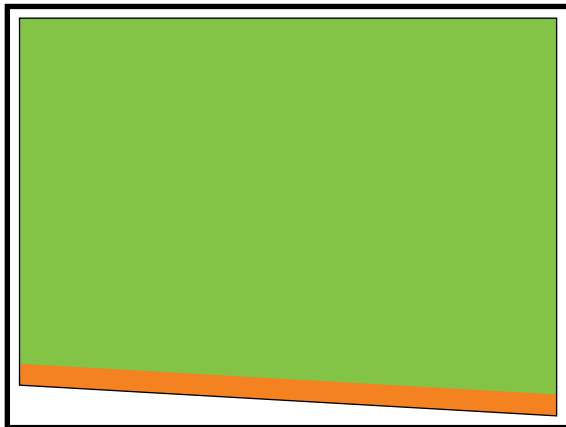
# Align Your Image

## 2 Align Top of Image

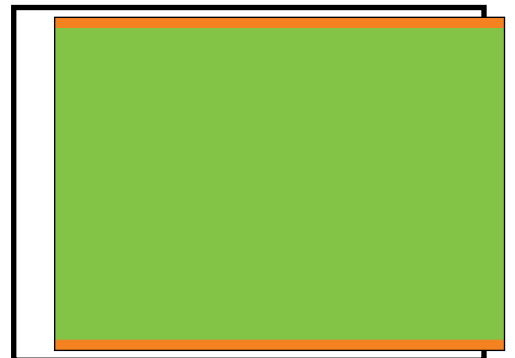
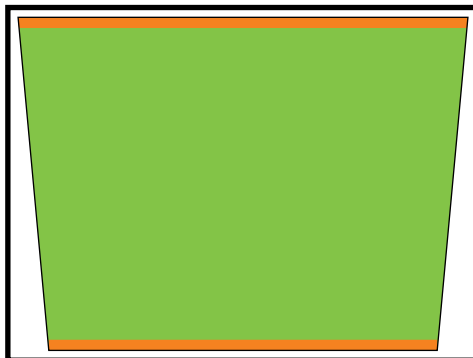
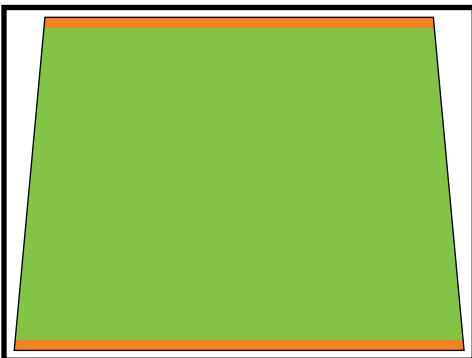


Adjust both of these back and forth until top AND bottom of image are horizontal.

## 3 Align Bottom of Image



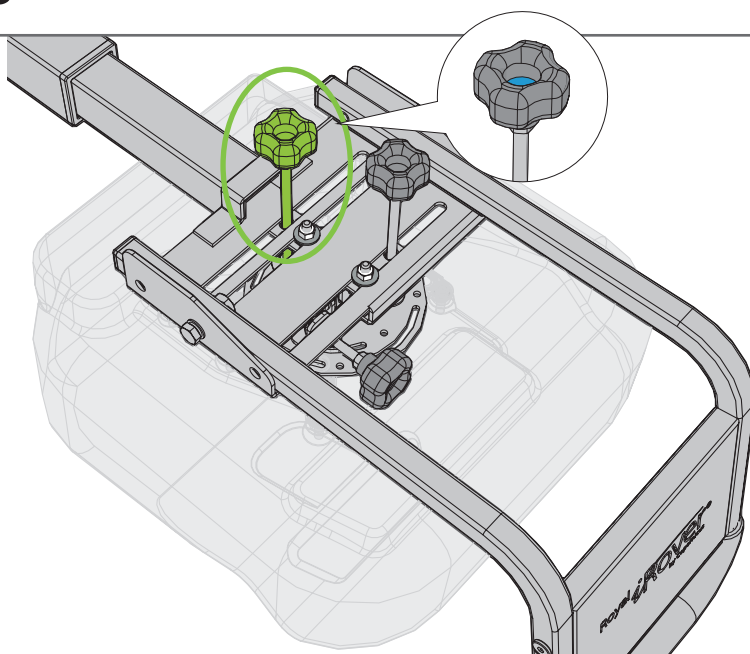
**Our Goal: to align top and bottom of image, only once we achieve this we move onto aligning the sides of the image.**



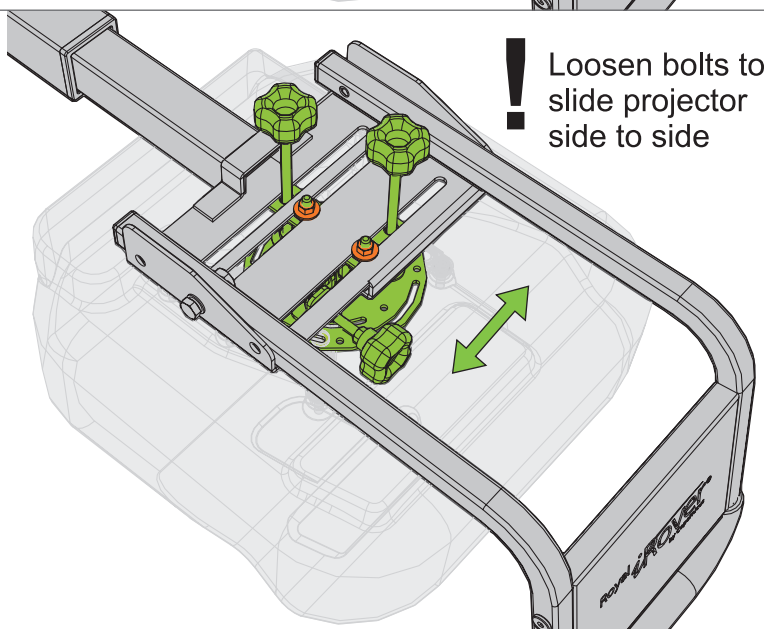
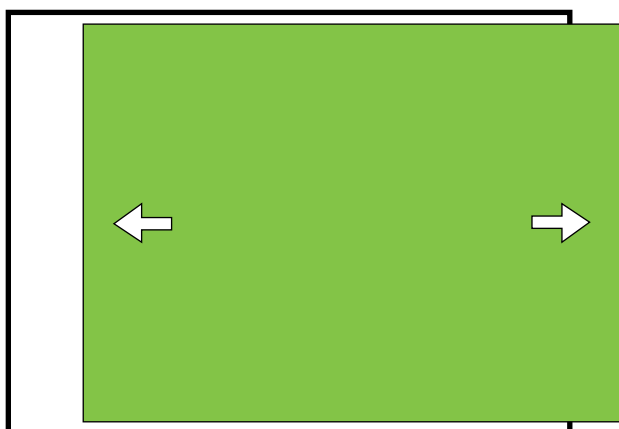


# Align Your Image

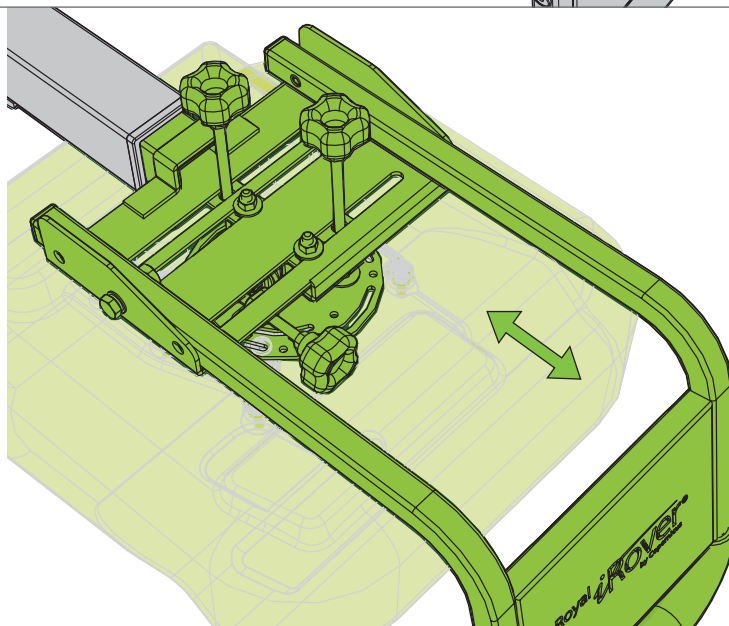
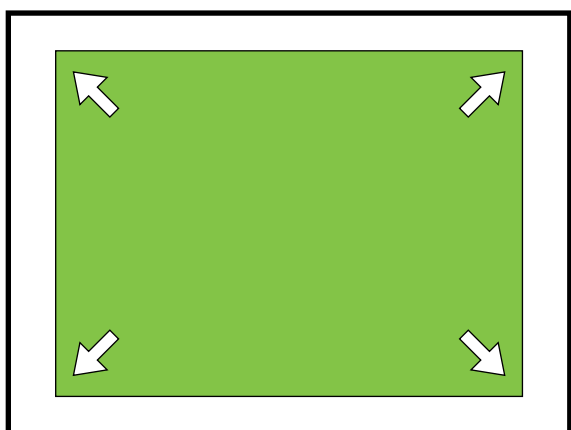
## 4 Align Sides of Image



## 5 Center Image Horizontally



## ... Repeat Step 1 If Necessary





(H)

M6 x 30mm Bolt  
4x

(Q)

M6 Lock Washer  
4x

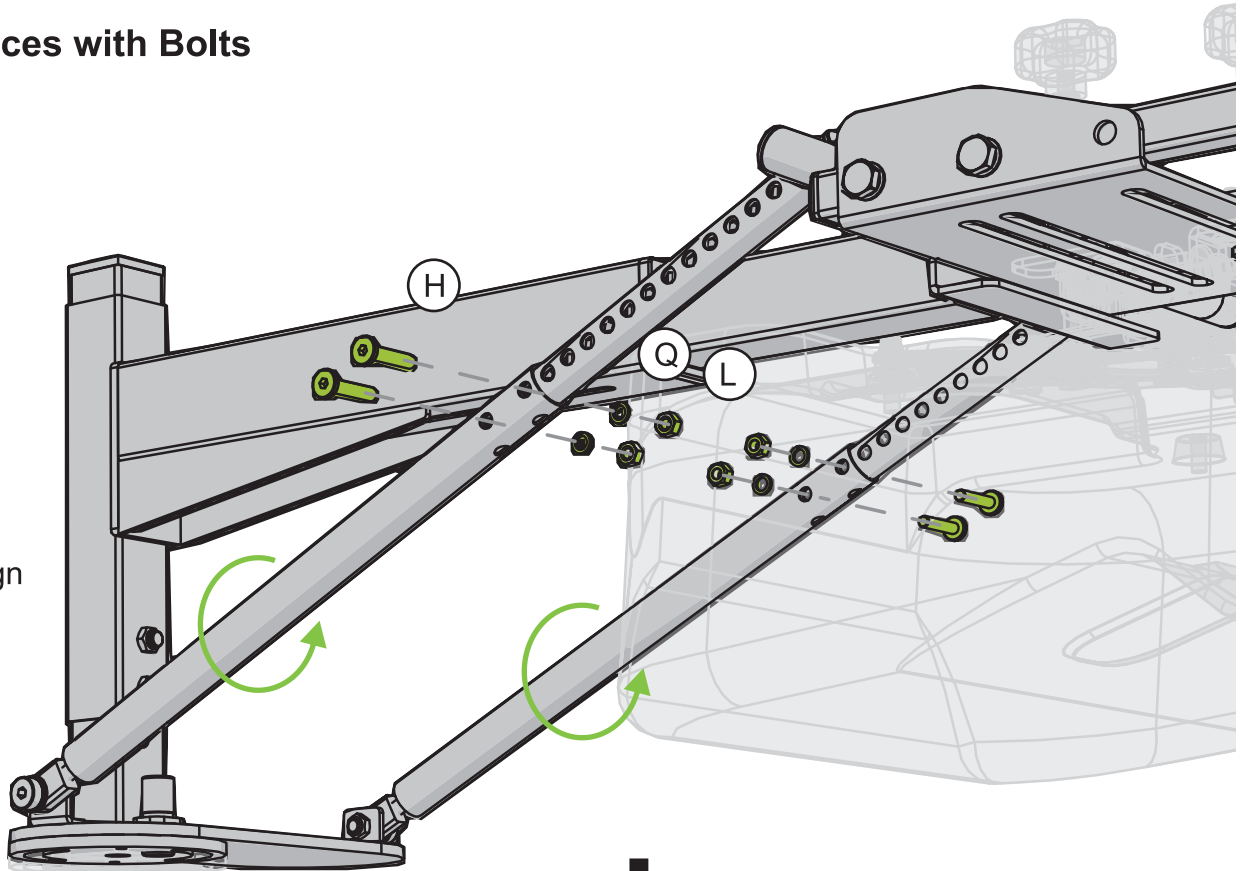
(L)

M6 Nut  
4x

You will need: (Not to Scale)

## Secure Braces with Bolts

! Twist to align  
holes



! Turn Outer Braces to align holes  
with Inner Brace holes and secure







## Follow Steps 36..... if you are installing a ST Projector Arm.

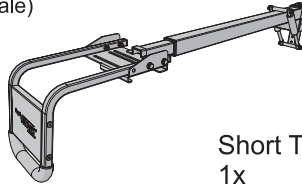
### 36.1

Actual Size:



2-Person Task

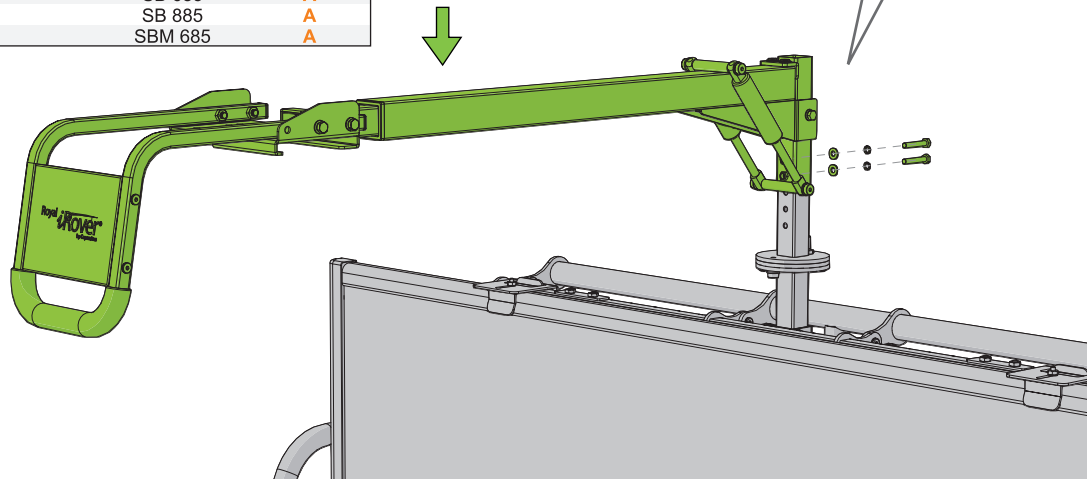
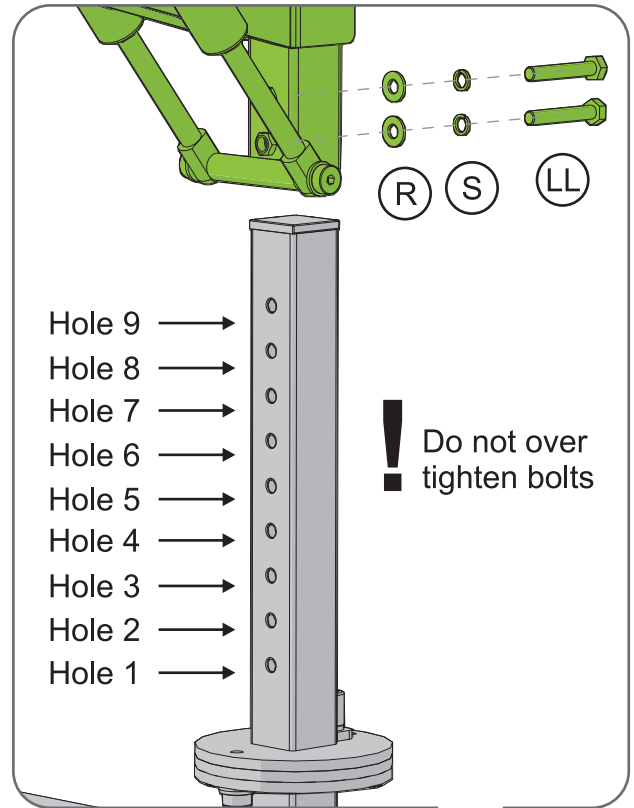
You will need: (Not to Scale)



Short Throw Projector Arm  
1x

### Set Projector Arm Post Height

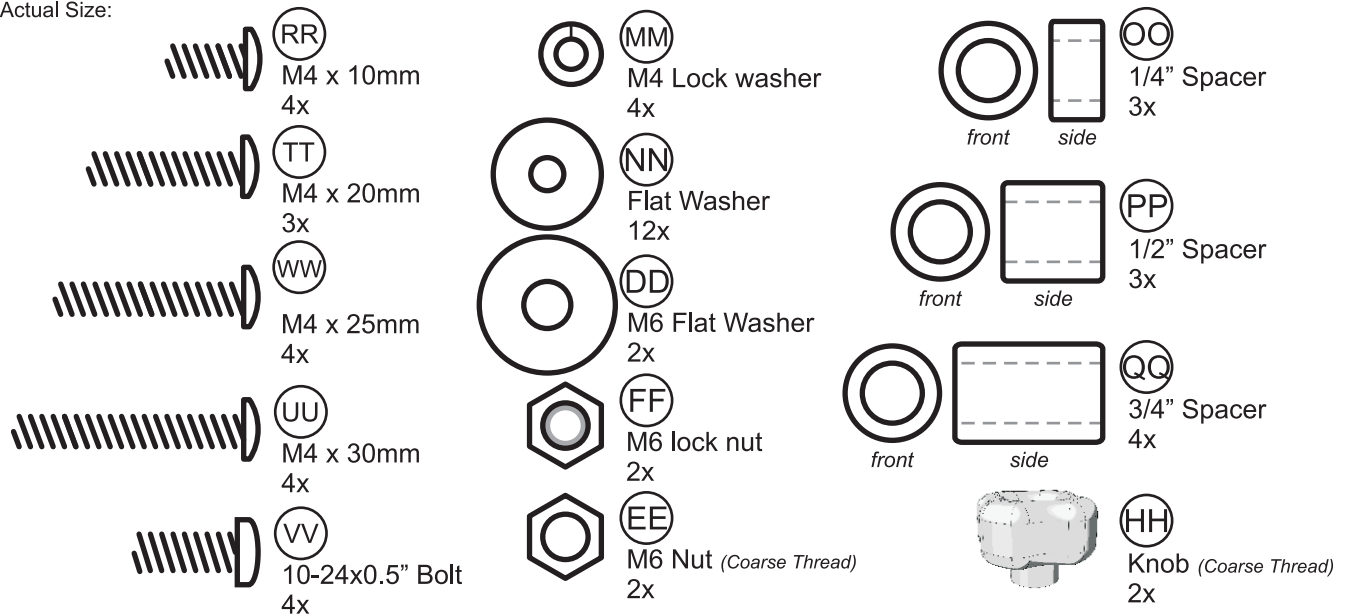
Short Throw Projector Arm			
Projector	Model	Board ("SB" = Smart)	Board Frame
BenQ	MX816ST	SB 660	L
	MX816ST	SB 680	C
	MX816ST	SB 880	B
	MX816ST	SBM 680	C
	MX816ST	Promethean 378	B
	MW817ST	SB 685	E
	MW817ST	SB 885	D
	MW824ST	SB 685	E
	MW824ST	SB 885	D
	MW824ST	SBM 685	E
Epson	420	SB 660	J
	420	SB 680	D
	420	SB 880	C
	420	SBM 680	D
	420	Promethean 378	C
	435W	SB 660	J
	435W	SB 680	C
	435W	SB 685	C
	435W	SB 885	B
	435W	SBM 685	C
Mitsubishi	EW331U-ST	SB 660	L
	EW331U-ST	SB 680	E
	EW331U-ST	SB 880	D
	EW331U-ST	Promethean 378	D
	EW331U-ST	SB 685	E
	EW331U-ST	SB 885	D
NEC	M300XS	SB 660	L
	M300XS	SB 680	E
	M300XS	SB 880	D
	M300XS	SBM 680	E
	M300XS	Promethean 378	D
	M300WS	SB 685	B
	M300WS	SBM 685	B
	M300WS	SB 885	A
	M332XS	SBM 680	C
	M352WS	SBM 685	C
Optoma	M352WS	Promethean ABT 88	B
	W306ST	SB 680	B
	W306ST	SB 880	A
	W306ST	SBM 680	A
	W306ST	Promethean 378	A
	W306ST	SB 685	A
	W306ST	SB 885	A
	W306ST	SBM 685	A





## 36.2

Actual Size:



You will need: (Not to Scale)



Spider Arm - Short  
4x



Spider Arm - Medium  
1x



Spider Arm - Long  
2x

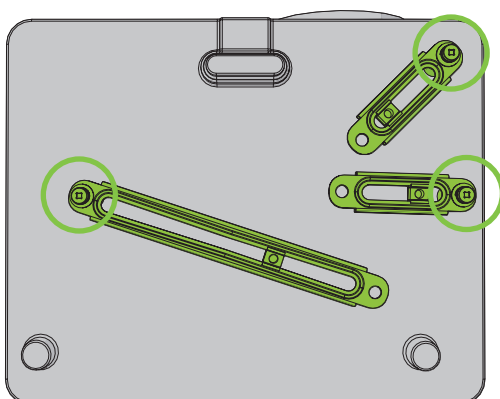
### 1 Attach Spider Arms

Be sure not to tighten any bolts yet, we will need the Spider Arms loose when we position our Projector Plate in the next step.

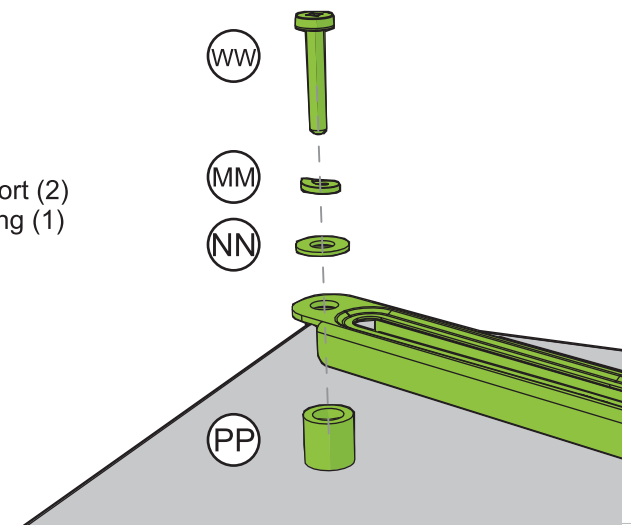
- Make sure to identify the correct projector you are installing.
- More projectors on the following pages.

## Attaching Spider Arms to BenQ MX816ST/MW817ST

image projection



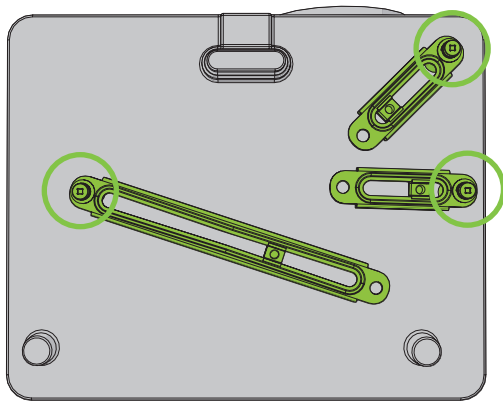
Spider Arm - Short (2)  
Spider Arm - Long (1)



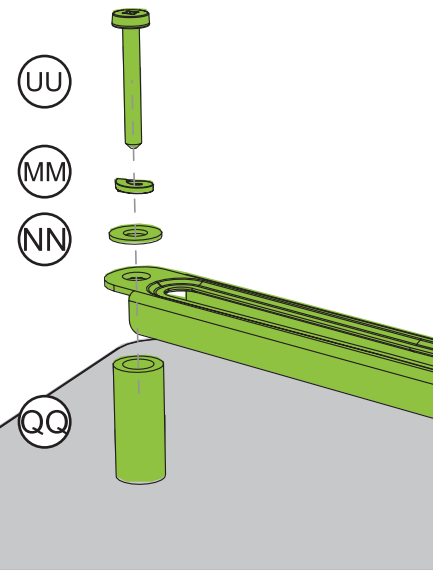
... continued

## Attaching Spider Arms to BenQ MW824ST

image projection

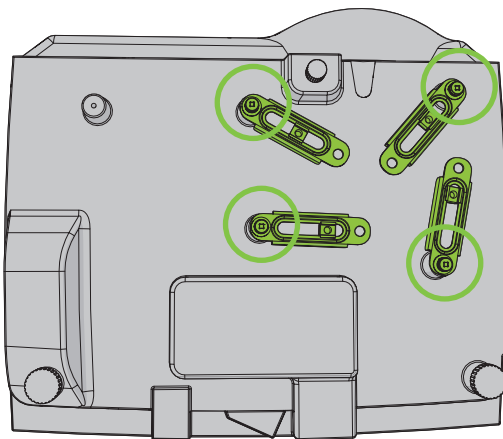


Spider Arm - Short (2)  
Spider Arm - Long (1)

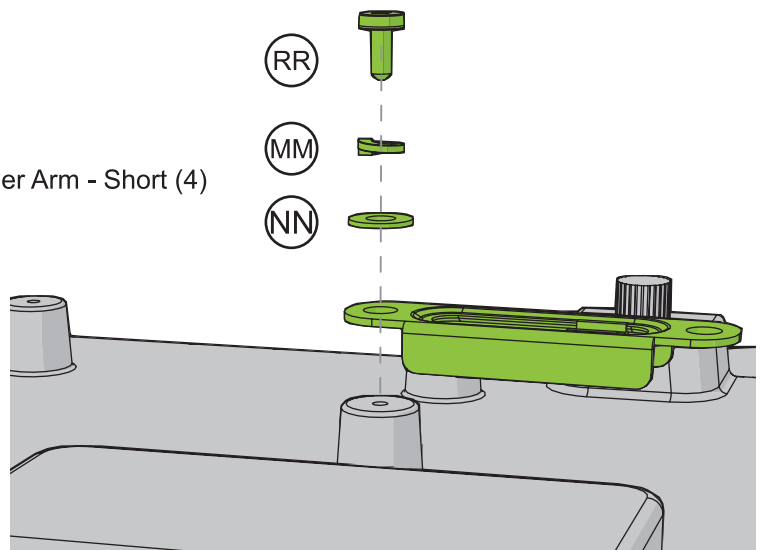


## Attaching Spider Arms to Epson 420/435W

image projection

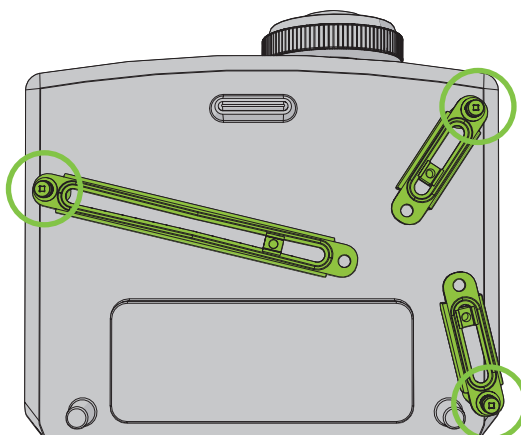


Spider Arm - Short (4)

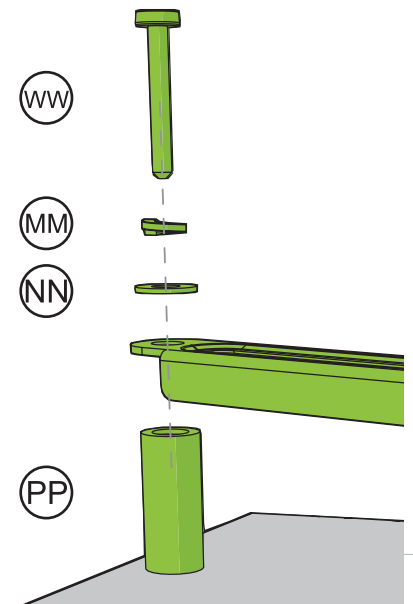


## Attaching Spider Arms to Mitsubishi EW331U-ST

image projection

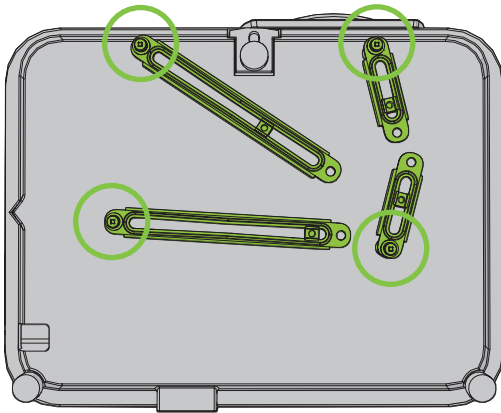


Spider Arm - Short (2)  
Spider Arm - Long (1)

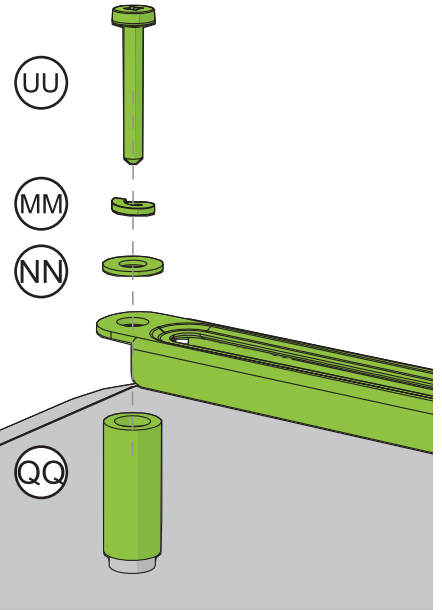


## Attaching Spider Arms to NEC M300XS/M300WS

image projection

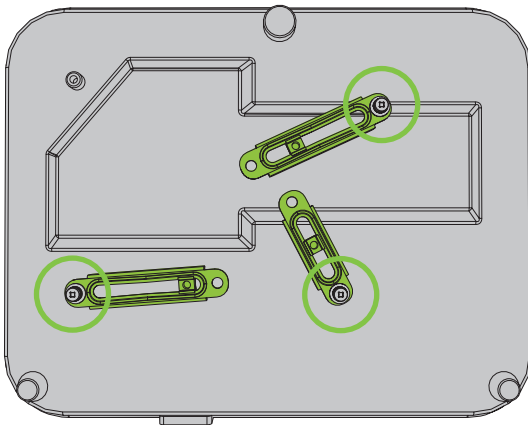


Spider Arm - Short (2)  
Spider Arm - Long (2)

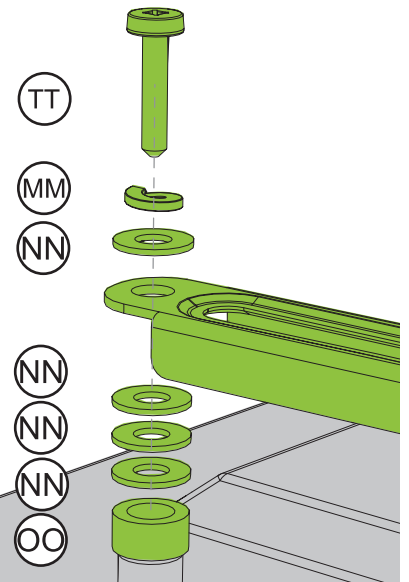


## Attaching Spider Arms to NEC M332XS/M352WS

image projection

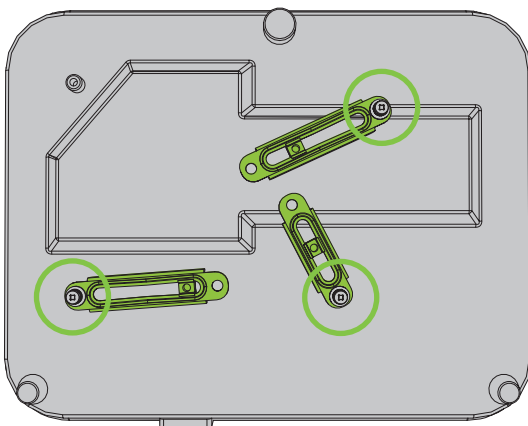


Spider Arm - Short (1)  
Spider Arm - Medium (2)

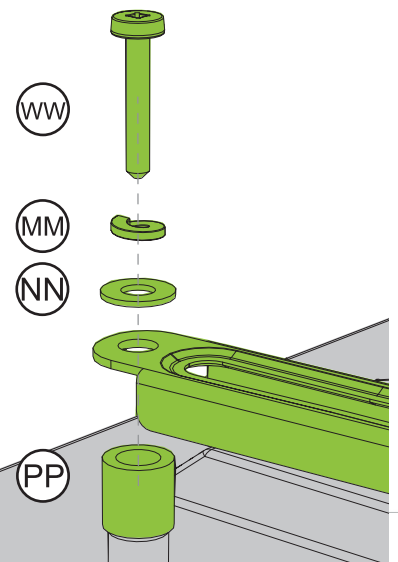


## Attaching Spider Arms to NEC M352WS (Promethean ABT 88 ONLY)

image projection

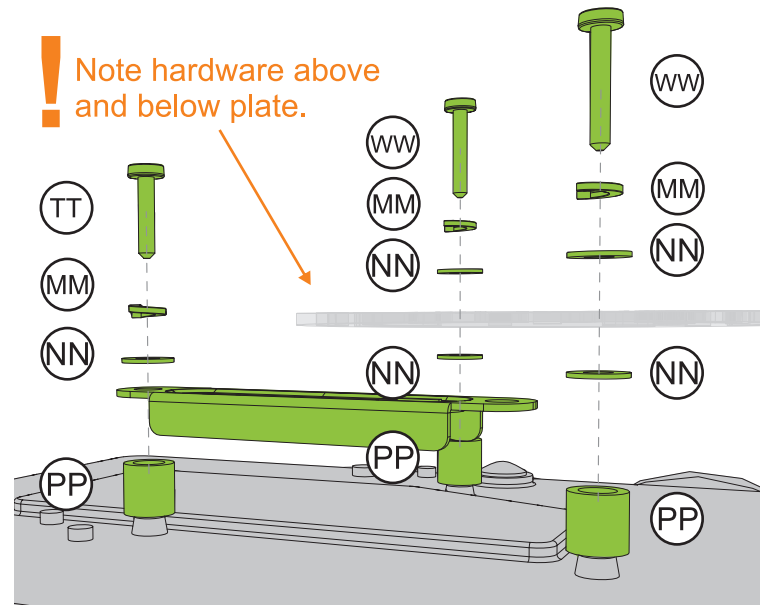
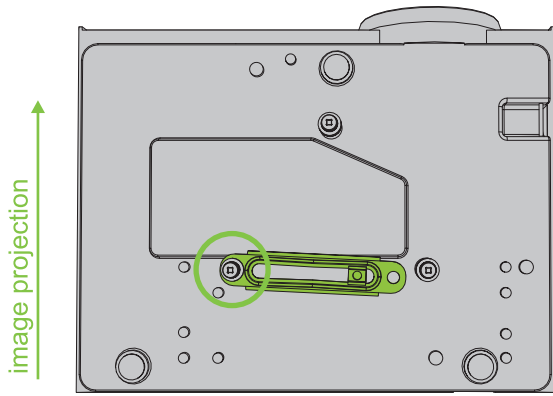


Spider Arm - Short (1)  
Spider Arm - Medium (2)



## Attaching Spider Arms to Optoma W306ST

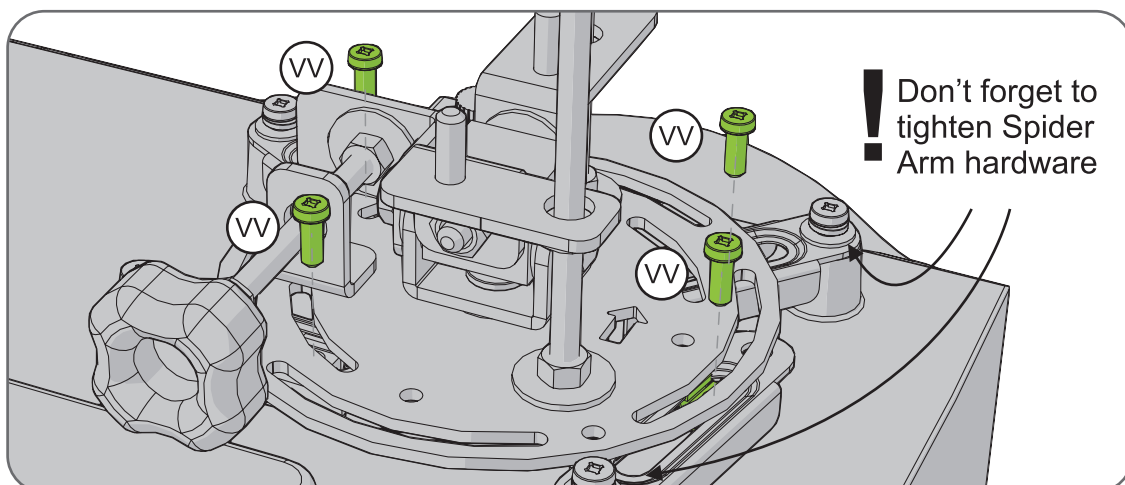
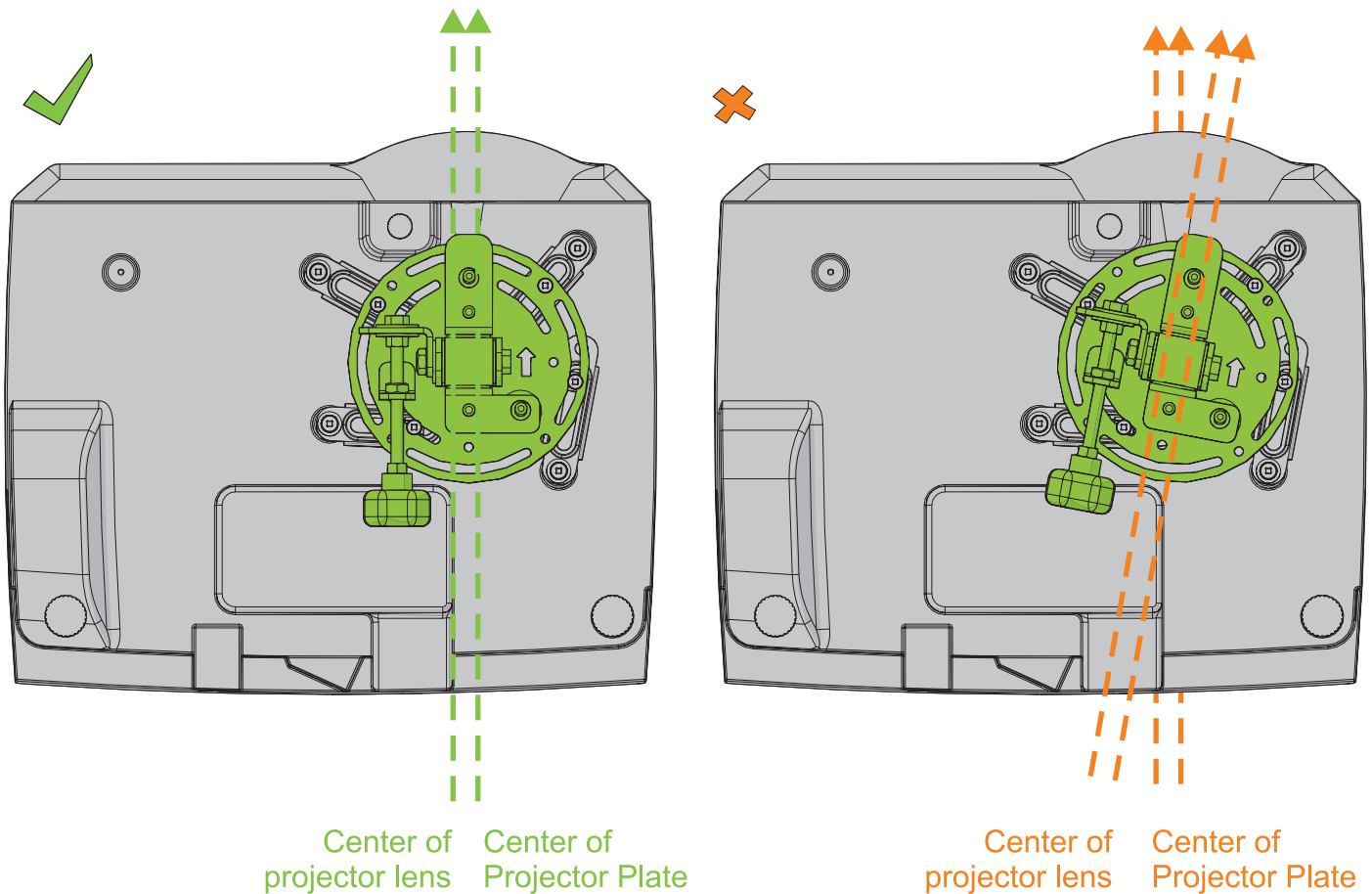
Spider Arm - Medium (1)



## 2 Attach Projector Plate

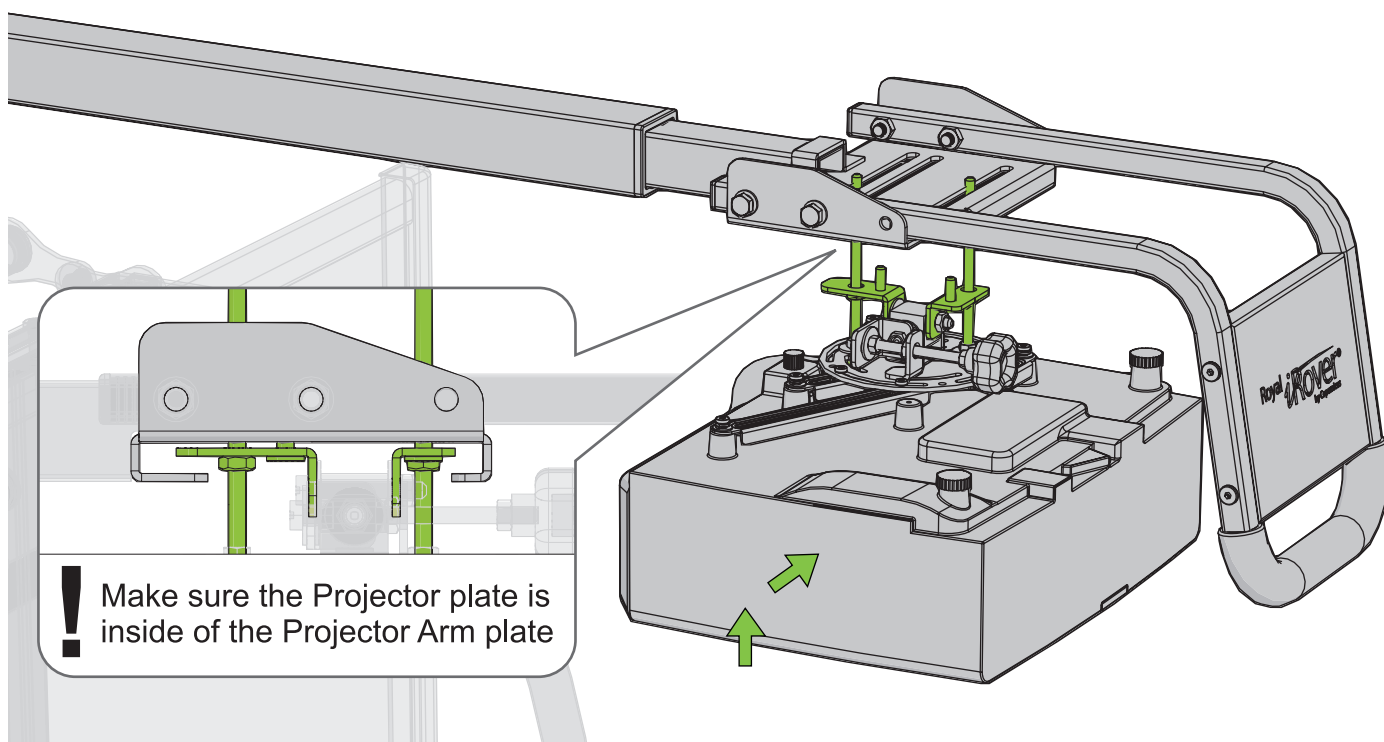
Pay attention to the alignment of the Projector Plate. Correct installation will make aligning your image later on much easier.

**!** MAKE SURE YOUR PROJECTOR PLATE IS PARALLEL WITH YOUR PROJECTOR



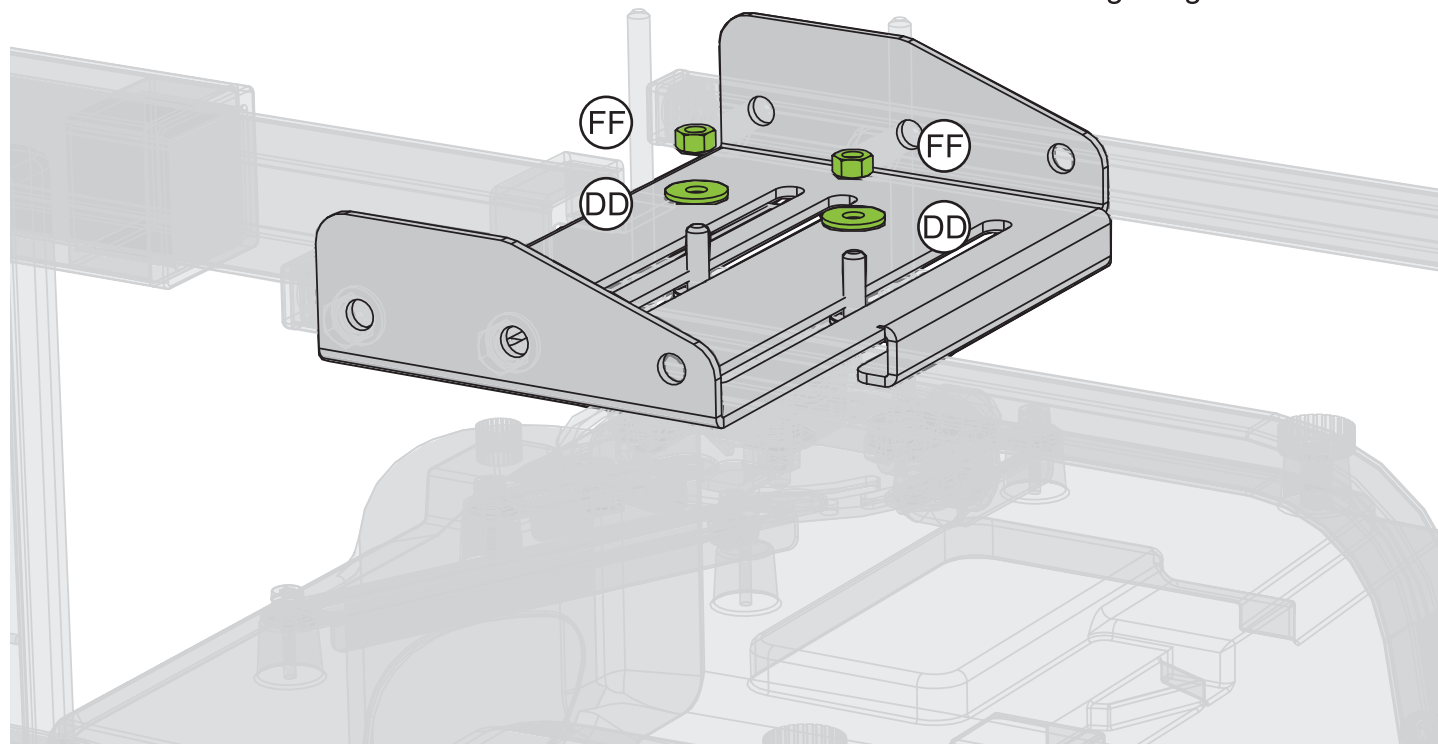
### 3 Attach Projector to Projector Arm

When placing in slots, align the lens of the projector so it lines up with the Projector Arm. This will help your projected image to align with the middle of your board.



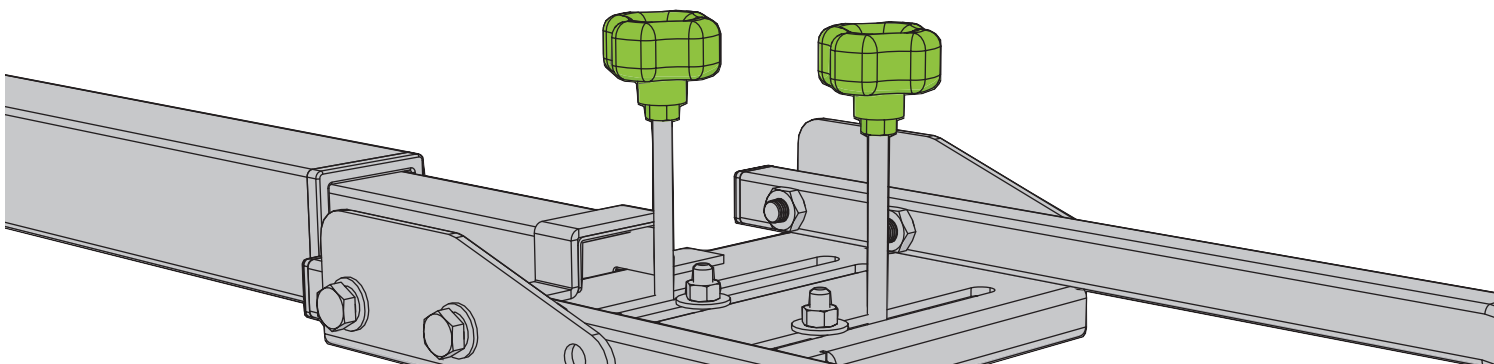
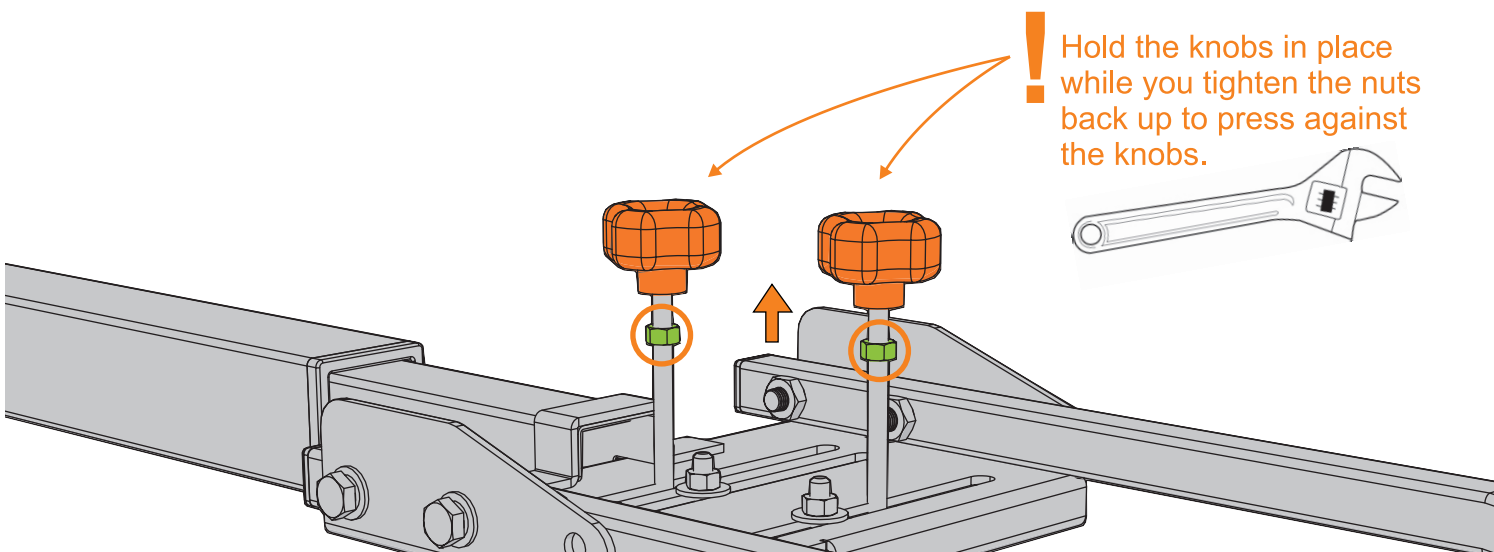
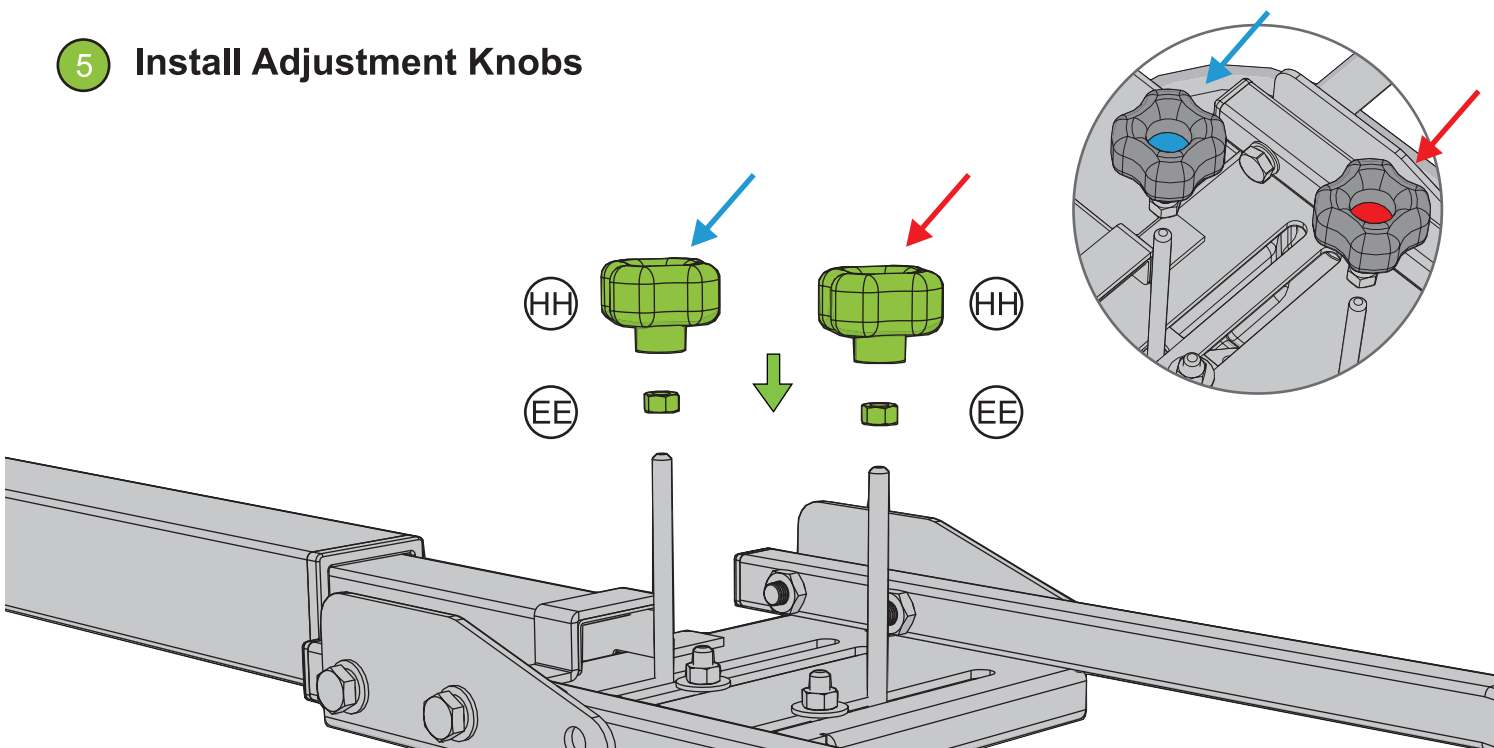
### 4 Secure Projector

Do not fully tighten hardware, you will need to loosen when centering image later on





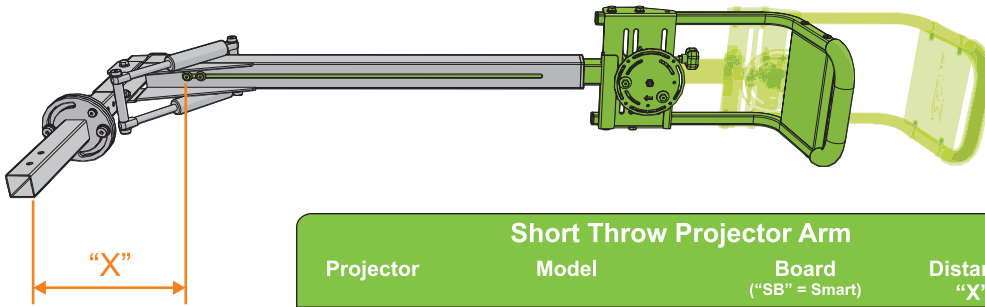
## 5 Install Adjustment Knobs





# Align Your Image

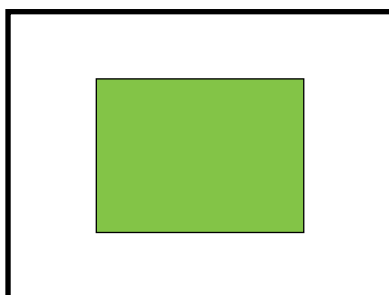
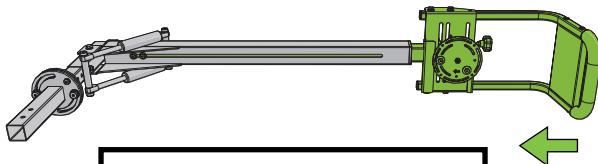
## 1 Adjust Size of Image Using Distance "X"



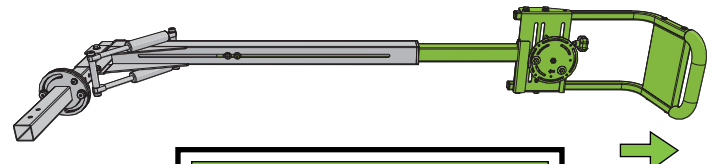
Measure from the post to the first screw.

Short Throw Projector Arm			
Projector	Model	Board ("SB" = Smart)	Distance "X"
BenQ	MX816ST	SB 660	127mm
	MX816ST	SB 680	324mm
	MX816ST	SB 880	320mm
	MX816ST	SBM 680	300mm
	MX816ST	Promethean 378	337mm
	MW817ST	SB 685	250mm
	MW817ST	SB 885	250mm
	MW824ST	SB 685	315mm
	MW824ST	SB 885	315mm
Epson	MW824ST	SBM 685	311mm
	420	SB 660	158mm
	420	SB 680	210mm
	420	SB 880	202mm
	420	SBM 680	184mm
	420	Promethean 378	217mm
	435W	SB 660	145mm
	435W	SB 680	281mm
	435W	SB 685	258mm
	435W	SB 885	241mm
Mitsubishi	435W	SBM 685	225mm
	436Wi	Copernicus 87" WB	266mm
	EW331U-ST	SB 660	115mm
	EW331U-ST	SB 680	282mm
	EW331U-ST	SB 880	275mm
	EW331U-ST	Promethean 378	313mm
	EW331U-ST	SB 685	285mm
NEC	EW331U-ST	SB 885	280mm
	M300XS	SB 660	82mm
	M300XS	SB 680	172mm
	M300XS	SB 880	170mm
	M300XS	SBM 680	153mm
	M300XS	Promethean 378	185mm
	M300WS	SB 685	305mm
	M300WS	SBM 685	285mm
	M300WS	SB 885	305mm
	M332XS	SBM 680	212mm
Optoma	M352WS	SBM 685	176mm
	M352WS	Promethean ABT 88	184mm
	W306ST	SB 680	312mm
	W306ST	SB 880	299mm
	W306ST	SBM 680	295mm
	W306ST	Promethean 378	321mm
	W306ST	SB 685	307mm
	W306ST	SB 885	303mm
	W306ST	SBM 685	300mm

... continued on next page



Make Image Smaller

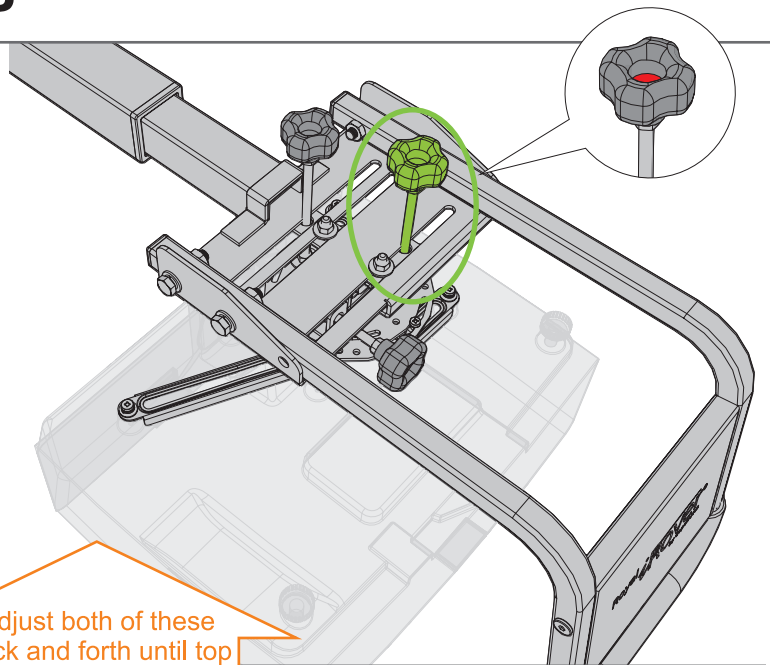
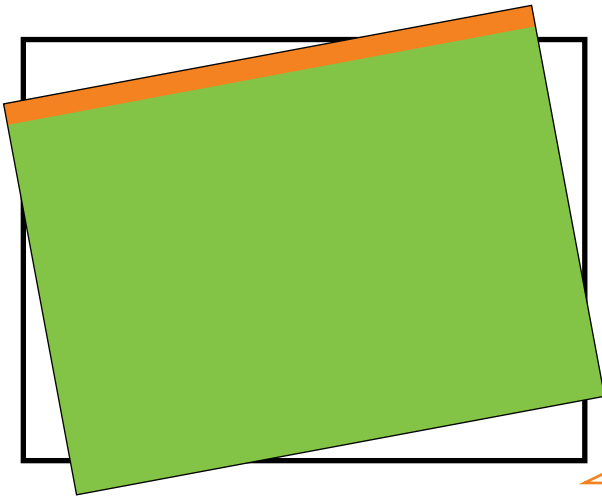


Make Image Larger



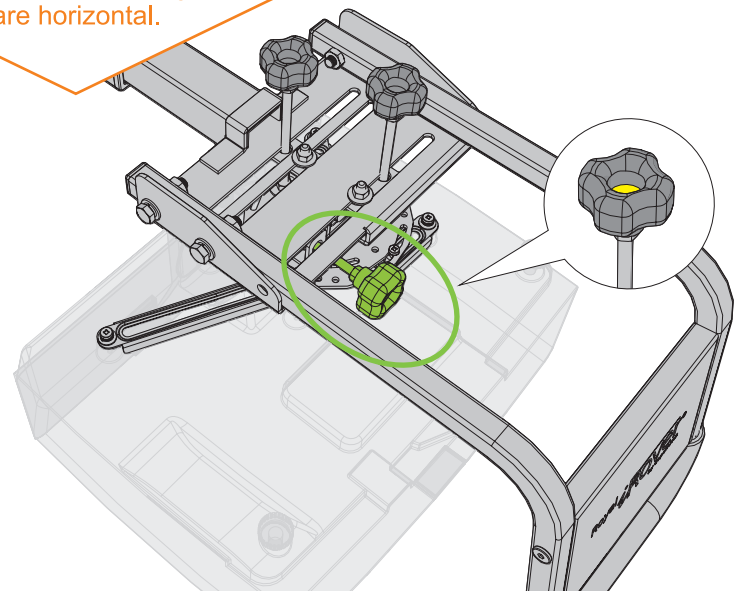
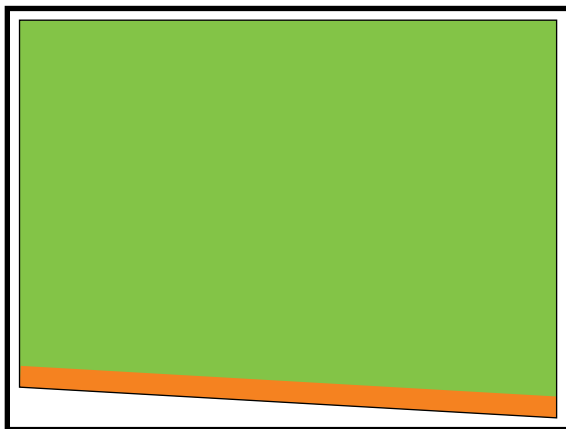
# Align Your Image

## 2 Align Top of Image

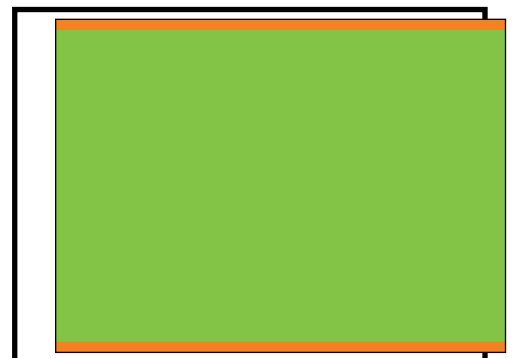
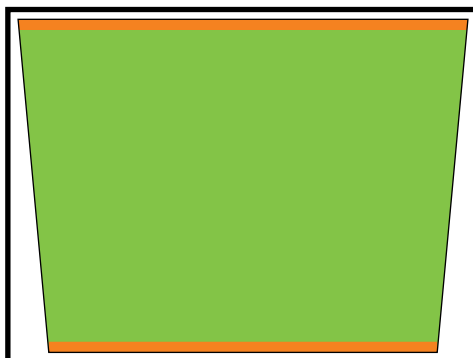
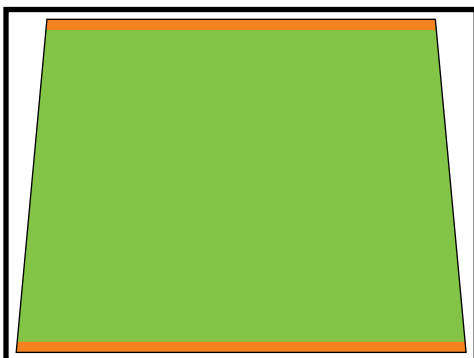


Adjust both of these back and forth until top AND bottom of image are horizontal.

## 3 Align Bottom of Image



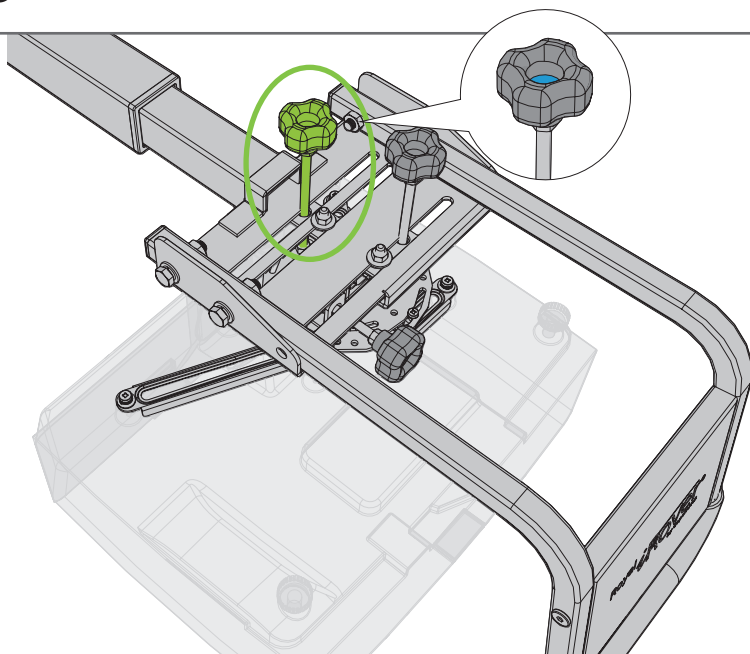
**Our Goal: to align top and bottom of image, only once we achieve this we move onto aligning the sides of the image.**



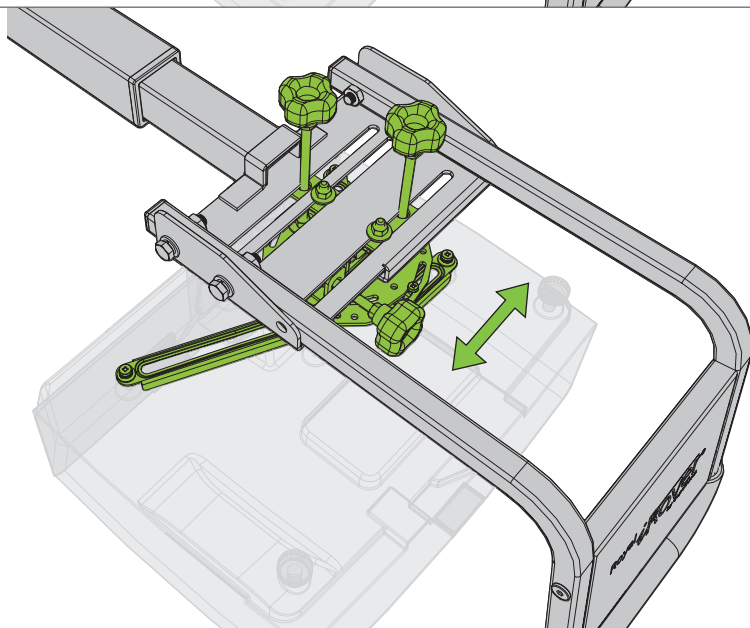
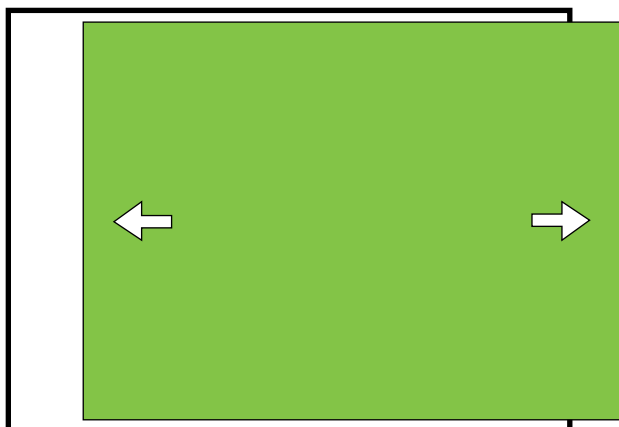


# Align Your Image

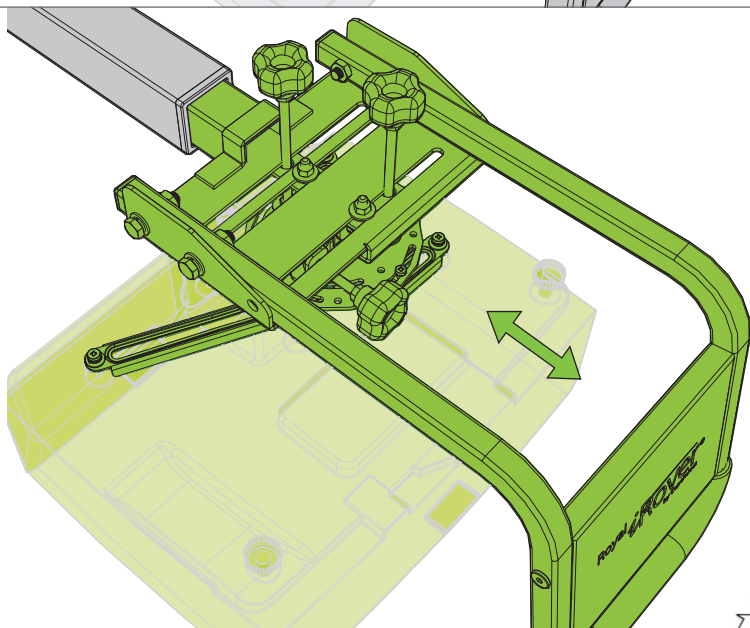
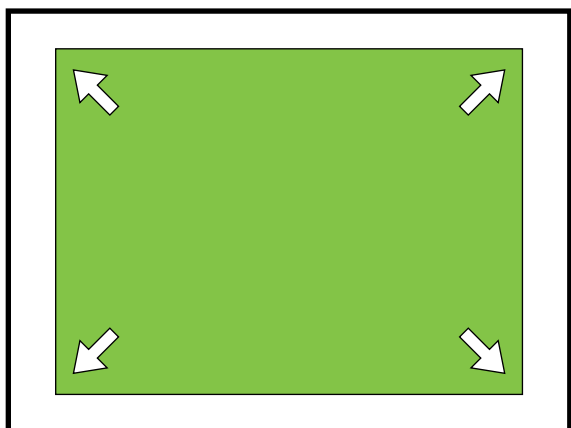
## 4 Align Sides of Image



## 5 Center Image Horizontally



... Repeat Step 1 If Necessary



# Ultra Short Throw Projector Arm

Projector	Model	Board ("SB" = Smart)	Board Frame	Distance "X"	PA Post Holes	Projector Screw Size	Spacer Size	Projector Settings
BenQ	MX850U-ST	SB 660	i	128mm	4,5	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +2
	MX850U-ST	SB 680	A	237mm	7,8	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +3
	MX850U-ST	SB 880	A	233mm	8,9	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +3
	MX850U-ST	SBM 680	A	187mm	7,8	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +3
	MX850U-ST	Promethean 378	A	252mm	8,9	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +3
	MW851U-ST	SB 680	A	221mm	5,6	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +1
	MW851U-ST	SB 880	A	207mm	6,7	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +2
	MW851U-ST	SB 685	A	221mm	5,6	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +1
	MW851U-ST	SB 885	A	207mm	6,7	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +2
	MW851U-ST	SBM 685	A	166mm	5,6	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +1
Epson	MW843U-ST	SBM 685	A	209mm	5,6	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: 0
	470 / 480 / 570 / 580	SB 660	I	79mm	2,3	M4 x 15mm	1/4" spacer	Zoom: 12 tele clicks, Keystone: 0
	470 / 480 / 570 / 580	SB 680	A	142mm	2,3	M4 x 15mm	1/4" spacer	Zoom: 4 tele clicks, Keystone: 0
	470 / 480 / 570 / 580	SB 880	A	151mm	3,4	M4 x 15mm	1/4" spacer	Zoom: 3 tele clicks, Keystone: 0
	470 / 480 / 570 / 580	SBM680	A	137mm	2,3	M4 x 15mm	1/4" spacer	Zoom: 4 tele clicks, Keystone: 0
	470 / 480 / 570 / 580	Promethean 378	A	168mm	3,4	M4 x 15mm	1/4" spacer	Zoom: 3 tele clicks, Keystone: 0
	470 / 480 / 570 / 580	Promethean ABT 78	A	125mm	3,4	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	470i / 480i	Copernicus 77" WB	C	137mm	3,4	M4 x 15mm	1/4" spacer	Zoom: 2 tele clicks, Keystone: 0
	475W / 485W / 575W / 585W	SB 660	I	90mm	2,3	M4 x 15mm	1/4" spacer	Zoom: 3 tele clicks, Keystone: 0
	475W / 485W / 575W / 585W	SB 680	A	170mm	4,5	M4 x 15mm	1/4" spacer	Zoom: 3 tele clicks, Keystone: 0
	475W / 485W / 575W / 585W	SBM 680	A	165mm	4,5	M4 x 15mm	1/4" spacer	Zoom: 3 tele clicks, Keystone: 0
	475W / 485W / 575W / 585W	SB 685	A	161mm	3,4	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	475W / 485W / 575W / 585W	SB 885	A	154mm	4,5	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	475W / 485W / 575W / 585W	SBM 685	A	151mm	3,4	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	475W / 485W / 575W / 585W	Promethean ABT 88	A	143mm	4,5	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	475Wi / 485Wi / 575Wi / 585Wi	Copernicus 87" WB	C	155mm	5,6	M4 x 15mm	1/4" spacer	Zoom: 3 tele clicks, Keystone: 0
	475Wi / 485Wi / 575Wi / 585Wi	Egan 90" WB	B	170mm	5,6	M4 x 15mm	1/4" spacer	Zoom: 2 tele clicks, Keystone: 0
	*595Wi	Copernicus 87" WB	C	155mm	5,6	M4 x 15mm	1/4" spacer	Zoom: 3 tele clicks, Keystone: 0
	CP-A220N	SB 660	i	78mm	7,8	M4 x 10mm	no spacer	Zoom: 84.7%, Keystone: 0
	CP-A220N	SB 680	A	94mm	4,5	M4 x 10mm	no spacer	Zoom: 99.2%, Keystone: 0
Hitachi	CP-A220N	SB 880	A	90mm	5,6	M4 x 10mm	no spacer	Zoom: 99.8%, Keystone: 0
	CP-A220N	SBM 680	A	85mm	4,5	M4 x 10mm	no spacer	Zoom: 99.2%, Keystone: 0
	CP-A220N	Promethean 378	A	121mm	5,6	M4 x 10mm	no spacer	Zoom: 0, Keystone: 0
	CP-A220N	Promethean ABT 78	A	70mm	5,6	M4 x 10mm	no spacer	Zoom: 0, Keystone: 0
	CP-A301N	SB 660	i	75mm	7,8	M4 x 10mm	no spacer	Zoom: 85.9%, Keystone: 0
	CP-A301N	SB 680	A	87mm	4,5	M4 x 10mm	no spacer	Zoom: 0, Keystone: 0
	CP-A301N	SB 880	A	88mm	5,6	M4 x 10mm	no spacer	Zoom: 0, Keystone: 0
	CP-A301N	Promethean 378	A	116mm	5,6	M4 x 10mm	no spacer	Zoom: 0, Keystone: 0
	CP-AW252N	SB 685	A	187mm	7,8	M4 x 10mm	no spacer	Zoom: 0, Keystone: 0
	CP-AW252N	SB 885	A	187mm	8,9	M4 x 10mm	no spacer	Zoom: 0, Keystone: 0
	CP-AW252N	SBM 685	A	175mm	7,8	M4 x 10mm	no spacer	Zoom: 0, Keystone: 0
	CP-AX2503/CP-AX3503	SB 680	A	93mm	1,2	M4 x 25mm	1/2" spacer	Zoom: 0, Keystone: 0
	CP-AX2503/CP-AX3503	SBM 680	A	93mm	1,2	M4 x 25mm	1/2" spacer	Zoom: 0, Keystone: 0
	CP-AX2503/CP-AX3503	Promethean ABT 78	A	93mm	2,3	M4 x 25mm	1/2" spacer	Zoom: 0, Keystone: 0
	CP-AW2503	SB 685	A	203mm	8,9	M4 x 25mm	1/2" spacer	Zoom: 90% (#317), Keystone: 0
	CP-AW2503	SB 885	A	216mm	8,9	M4 x 25mm	1/2" spacer	Zoom: 98.4% (#315), Keystone: 0
	CP-AW2503	SBM 685	A	199mm	8,9	M4 x 25mm	1/2" spacer	Zoom: 0, Keystone: 0
	CP-AW2503	Promethean ABT 88	A	185mm	8,9	M4 x 25mm	1/2" spacer	Zoom: 0, Keystone: 0
NEC	UM330X	SB 660	i	98mm	4,5	M4 x 15mm	1/4" spacer	Zoom: 88, Keystone: 0
	UM330X	SB 680	A	131mm	2,3	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	UM330X	SBM 680	A	131mm	2,3	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	UM330X	SB 880	A	123mm	3,4	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	UM330X	Promethean 378	A	146mm	3,4	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	UM330W	SB 685	A	238mm	4,5	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	UM330W	SBM 685	A	218mm	4,5	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	UM330W	SB 885	A	238mm	5,6	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: 0
	UM330W	MimioBoard ME-87	B	249mm	5,6	M4 x 15mm	1/4" spacer	Zoom: 0, Keystone: -1
Smart	UF75W	SB 680	A	101mm	5,6	M4 x 20mm	1/2" spacer	Zoom: NA, Keystone: NA
	UF75W	SB 880	A	100mm	6,7	M4 x 20mm	1/2" spacer	Zoom: NA, Keystone: NA
	UF75W	SBM 680	A	91mm	5,6	M4 x 20mm	1/2" spacer	Zoom: NA, Keystone: NA
	UF75W	SB 685	A	101mm	5,6	M4 x 20mm	1/2" spacer	Zoom: NA, Keystone: NA
	UF75W	SB 885	A	100mm	6,7	M4 x 20mm	1/2" spacer	Zoom: NA, Keystone: NA
	UF75W	SBM 685	A	91mm	5,6	M4 x 20mm	1/2" spacer	Zoom: NA, Keystone: NA
	LightRaise 40Wi	Copernicus 77" WB	C	121mm	7,8	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +7
	LightRaise 40Wi	Copernicus 87" WB	C	119mm	7,8	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +5
	UF70W	SB 685	A	216mm	5,6	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: 0
	UF70W	SB 885	A	211mm	6,7	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: 0
	UF70W	SBM 685	A	205mm	5,6	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: 0
	UF70	SB 680	A	235mm	7,8	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -2
	UF70	SB 880	A	243mm	8,9	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -3
	UF70	SBM 680	A	235mm	7,8	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: 0
Casio	XJ-UT310WN	SBM680	A	194mm	5,6	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: 0
	XJ-UT310WN	SBM685	A	194mm	5,6	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: 0
Optoma	W307UST	SB 680	A	221mm	6,7	M4 x 15mm	1/4" spacer	Zoom: NA, Keystone: 0
	W307UST	SB 880	A	227mm	7,8	M4 x 15mm	1/4" spacer	Zoom: NA, Keystone: 0
	W307UST	SBM 680	A	206mm	6,7	M4 x 15mm	1/4" spacer	Zoom: NA, Keystone: 0
	W307UST	Promethean 378	A	245mm	7,8	M4 x 15mm	1/4" spacer	Zoom: NA, Keystone: 0
	W307UST	SB 685	A	172mm	5,6	M4 x 15mm	1/4" spacer	Zoom: NA, Keystone: -2
	W307UST	SB 885	A	179mm	5,6	M4 x 15mm	1/4" spacer	Zoom: NA, Keystone: 0
	W307UST	SBM 685	A	171mm	5,6	M4 x 15mm	1/4" spacer	Zoom: NA, Keystone: -1
Promethean	UST-P1	Promethean ABT 78	A	235mm	6,7	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -2
	UST-P1	Promethean ABT 88	A	224mm	4,5	M4 x 20mm	1/2" spacer	Zoom: NA, Keystone: 0
Sony	VPL-SW536	VPL-SW536	A	96mm	3,4	M4 x 15mm	1/4" spacer	Zoom: manual, Keystone: 0 (see next page for details)
	VPL-SW536	VPL-SW536	A	96mm	3,4	M4 x 15mm	1/4" spacer	
	VPL-SW536	VPL-SW536	A	92mm	3,4	M4 x 15mm	1/4" spacer	
	VPL-SW536	VPL-SW536	A	120mm	3,4	M4 x 15mm	1/4" spacer	

\*Epson 595Wi projector must be ordered with bracket (IWB-BK595) in order to mount touch module for finger touch interactivity.

Don't see your projector & board combination here?  
Give our Customer Service Ninjas a shout and they'll help you out.





Short Throw Projector Arm								
Projector	Model	Board ("SB" = Smart)	Board Frame	Distance "X"	PA Post Holes	Projector Screw Size	Spacer Size	Projector Settings
BenQ	MX816ST	SB 660	L	127mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: 0
	MX816ST	SB 680	C	324mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -1
	MX816ST	SB 880	B	320mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -1
	MX816ST	SBM 680	C	300mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -1
	MX816ST	Promethean 378	B	337mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -1
	MW817ST	SB 685	E	250mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -3
	MW817ST	SB 885	D	250mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -3
	MW824ST	SB 685	E	315mm	1,2	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +2
	MW824ST	SB 885	D	315mm	1,2	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +2
Epson	MW824ST	SBM 685	E	311mm	1,2	M4 x 30mm	3/4" spacer	Zoom: NA, Keystone: +2
	420	SB 660	J	158mm	1,2	M4 x 10mm	no spacer	Zoom: 19 tele click, Keystone: 0
	420	SB 680	D	210mm	1,2	M4 x 10mm	no spacer	Zoom: 2 tele click, Keystone: 0
	420	SB 880	C	202mm	1,2	M4 x 10mm	no spacer	Zoom: 2 tele click, Keystone: 0
	420	SBM 680	D	184mm	1,2	M4 x 10mm	no spacer	Zoom: 0 tele click, Keystone: 0
	420	Promethean 378	C	217mm	1,2	M4 x 10mm	no spacer	Zoom: 0 tele click, Keystone: 0
	435W	SB 660	J	145mm	1,2	M4 x 10mm	no spacer	Zoom: 0 tele click, Keystone: 0
	435W	SB 680	C	281mm	1,2	M4 x 10mm	no spacer	Zoom: 2 tele click, Keystone: +2
	435W	SB 685	C	258mm	1,2	M4 x 10mm	no spacer	Zoom: 0 tele click, Keystone: +1
	435W	SB 885	B	241mm	1,2	M4 x 10mm	no spacer	Zoom: 0 tele click, Keystone: 0
	435W	SBM 685	C	225mm	1,2	M4 x 10mm	no spacer	Zoom: 0 tele click, Keystone: +1
Mitsubishi	436Wi	Copernicus 87" WB	C	266mm	1,2	M4 x 10mm	no spacer	Zoom: 3 tele click, Keystone: 0
	EW331U-ST	SB 660	L	115mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -5
	EW331U-ST	SB 680	E	282mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -3
	EW331U-ST	SB 880	D	275mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -3
	EW331U-ST	Promethean 378	D	313mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -3
	EW331U-ST	SB 685	E	285mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -3
NEC	EW331U-ST	SB 885	D	280mm	1,2	M4 x 25mm	1/2" spacer	Zoom: NA, Keystone: -3
	M300XS	SB 660	L	82mm	1,2	M4 x 30mm	3/4" spacer	Zoom: 85%, Keystone: 0
	M300XS	SB 680	E	172mm	1,2	M4 x 30mm	3/4" spacer	Zoom: 92%, Keystone: -2
	M300XS	SB 880	D	170mm	1,2	M4 x 30mm	3/4" spacer	Zoom: 92%, Keystone: -2
	M300XS	SBM 680	E	153mm	1,2	M4 x 30mm	3/4" spacer	Zoom: 95%, Keystone: -2
	M300XS	Promethean 378	D	185mm	1,2	M4 x 30mm	3/4" spacer	Zoom: 93%, Keystone: -2
	M300WS	SB 685	B	305mm	1,2	M4 x 30mm	3/4" spacer	Zoom: 97%, Keystone: 0
	M300WS	SBM 685	B	285mm	1,2	M4 x 30mm	3/4" spacer	Zoom: 97%, Keystone: 0
	M300WS	SB 885	A	305mm	1,2	M4 x 30mm	3/4" spacer	Zoom: 97%, Keystone: 0
	M332XS	SBM 680	C	212mm	2,3	M4 x 20mm	1/4" spacer	Zoom: 0, Keystone: -1
	M352WS	SBM 685	C	176mm	2,3	M4 x 20mm	1/4" spacer	Zoom: 0, Keystone: -3
Optoma	M352WS	Promethean ABT 88	B	184mm	1,2	M4 x 25mm	1/2" spacer	Zoom: 0, Keystone: -1
	W306ST	SB 680	B	312mm	1,2	M4 x 20mm-25mm	1/2" spacer	Zoom: NA, Keystone: -1
	W306ST	SB 880	A	299mm	1,2	M4 x 20mm-25mm	1/2" spacer	Zoom: NA, Keystone: -1
	W306ST	SBM 680	A	295mm	1,2	M4 x 20mm-25mm	1/2" spacer	Zoom: NA, Keystone: -1
	W306ST	Promethean 378	A	321mm	1,2	M4 x 20mm-25mm	1/2" spacer	Zoom: NA, Keystone: -1
	W306ST	SB 685	A	307mm	1,2	M4 x 20mm-25mm	1/2" spacer	Zoom: NA, Keystone: -1
	W306ST	SB 885	A	303mm	1,2	M4 x 20mm-25mm	1/2" spacer	Zoom: NA, Keystone: -1
	W306ST	SBM 685	A	300mm	1,2	M4 x 20mm-25mm	1/2" spacer	Zoom: NA, Keystone: -1

Don't see your projector & board combination here?  
Give our Customer Service Ninjas a shout and they'll help you out.

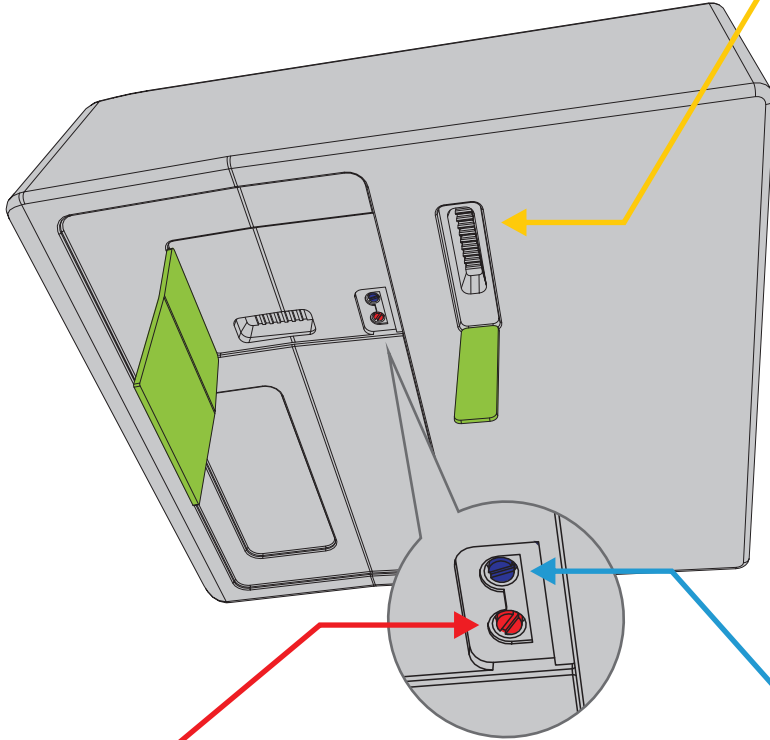






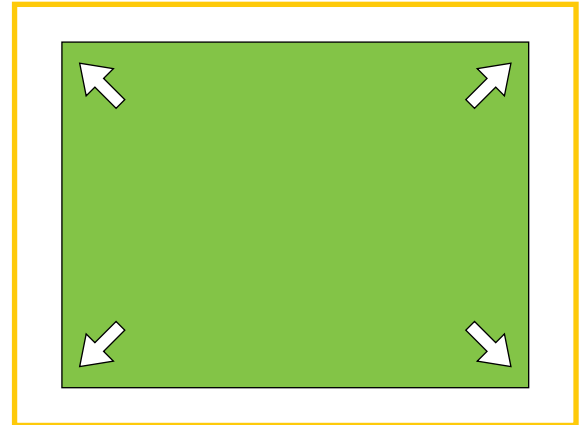
# For Sony VPL-SW536 Projector Only!

Open both covers on your projector. Inside you will find adjustments for image alignment, zoom and focus. Use these to align your image on the board after you setup your unit using the settings from the previous page.



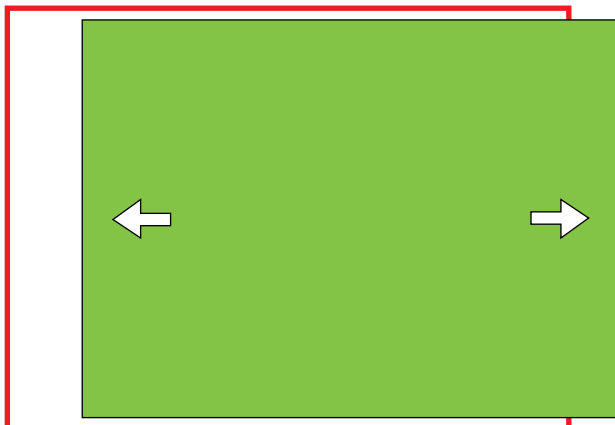
## Adjusting Image Size (Zoom)

To adjust zoom turn the dial in either direction until image fills screen.



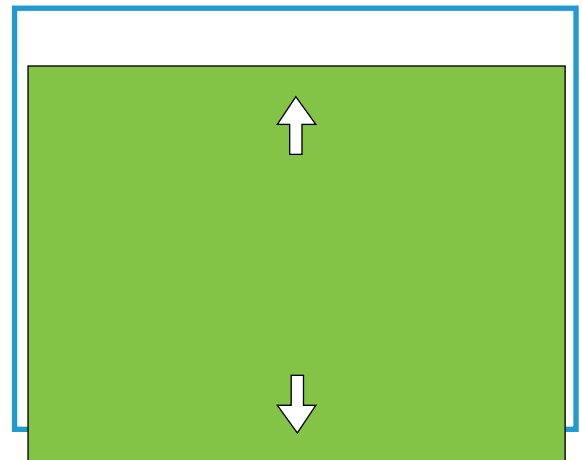
## Center Image Horizontally

To shift your image left & right turn this dial with a flat head screwdriver.



## Center Image Vertically

To shift your image up & down turn this dial with a flat head screwdriver.

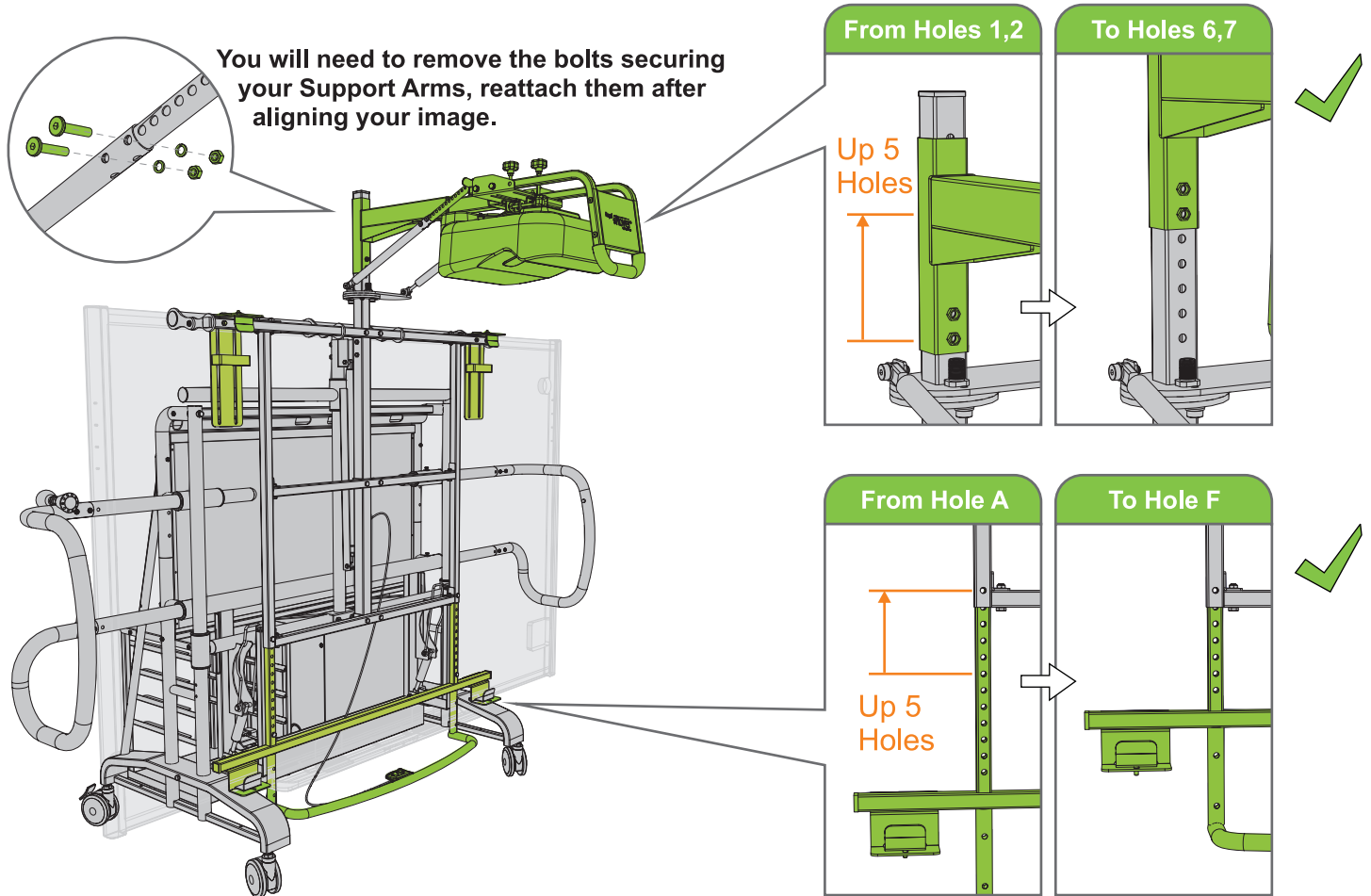




# Raising Your Board Up Higher

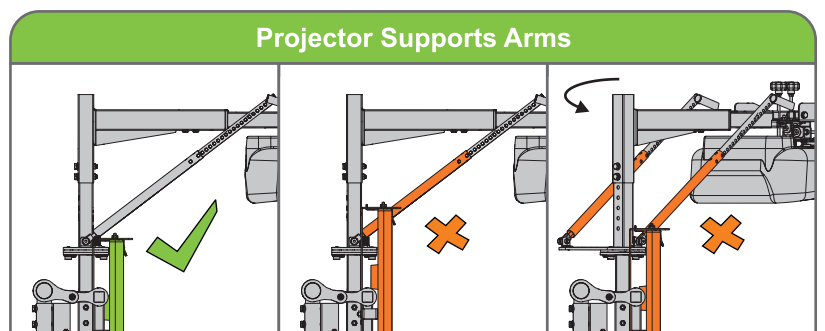
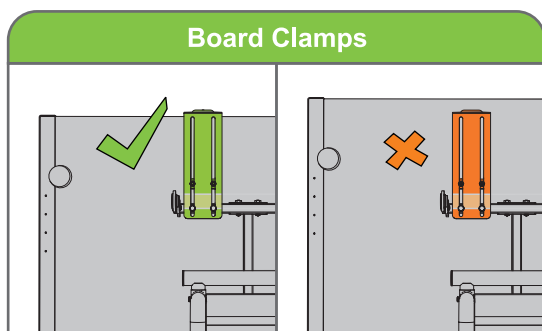
You may wish to raise your board higher than our documentation specifies. This may be the case for older grades or highschool classrooms. By default all our projector and board combinations are setup to sit as close to the floor as possible. Some of these setups may be raised higher. The instructions below will show you how to determine if you can safely raise your projector and board.

*Your projector must be raised the same amount as your board. So if you raise your projector up 5 Post Holes then your Board Frame must also move up 5 Board Frame holes. See example below...*



**!** Make sure your Board Clamps have enough reach. If you raise the board up too high the top clamps may not reach top of board.

**!** Make sure you can rotate the Projector Arm to the side without the Support Arms hitting your board, if they do lower projector and board until they clear. We don't want you to scratch your new board of course!





## Tips for Use

### General Tips



**Indoor  
Use Only**



**Use Under  
Adult Supervision**



**Cable Trip  
Hazard**



**Do NOT  
Climb on Unit**



**Always move your  
iRover with two people**



**RISK OF ELECTRICAL SHOCK!  
NEVER PLUG A POWER BAR  
INTO ANOTHER POWER BAR!**

To hold iRover steady when in use/storage: **Lock the casters.**

To transport unit:

**Ensure Board is in vertical position, lowest height, & Projector Arm is turned to side.  
Always unplug power before moving.**

### Further Resources

For more information on your iRover & its proper use & maintenance, please visit our website at [www.copernicused.com](http://www.copernicused.com) or call us at 1-800-267-8494

***Check out some of our  
other great products!***



[www.copernicused.com](http://www.copernicused.com)

***Need Support?  
Have a Question?***



Email our Customer Support



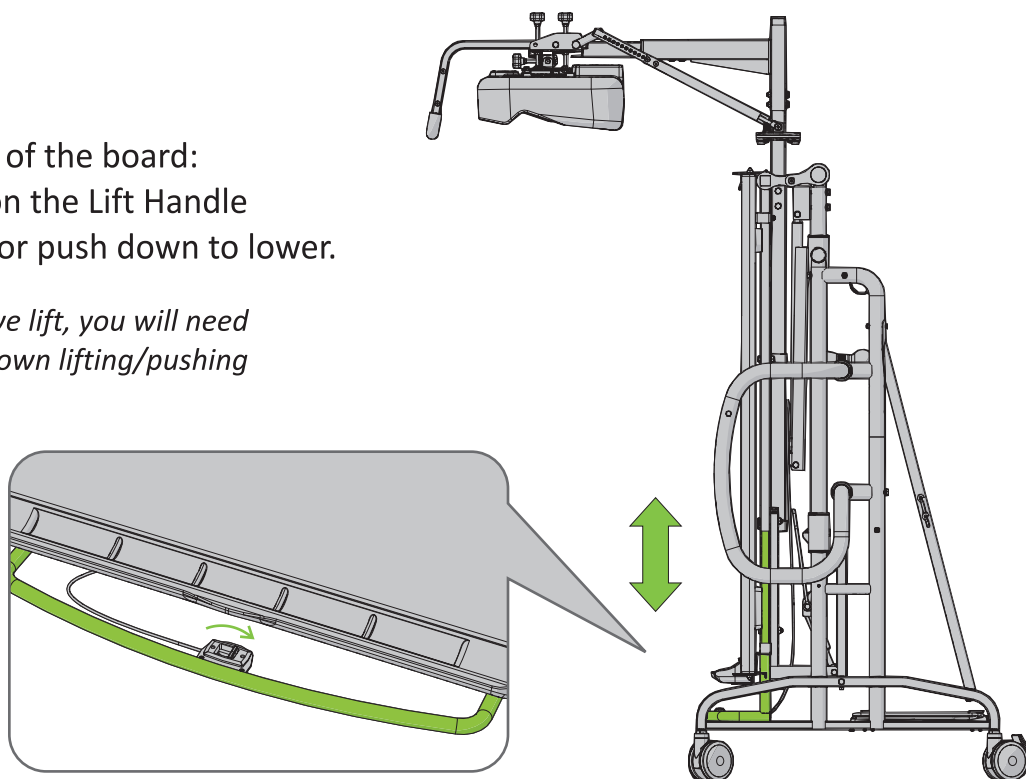


## Tips for Use

### How to Adjust the Board's Height

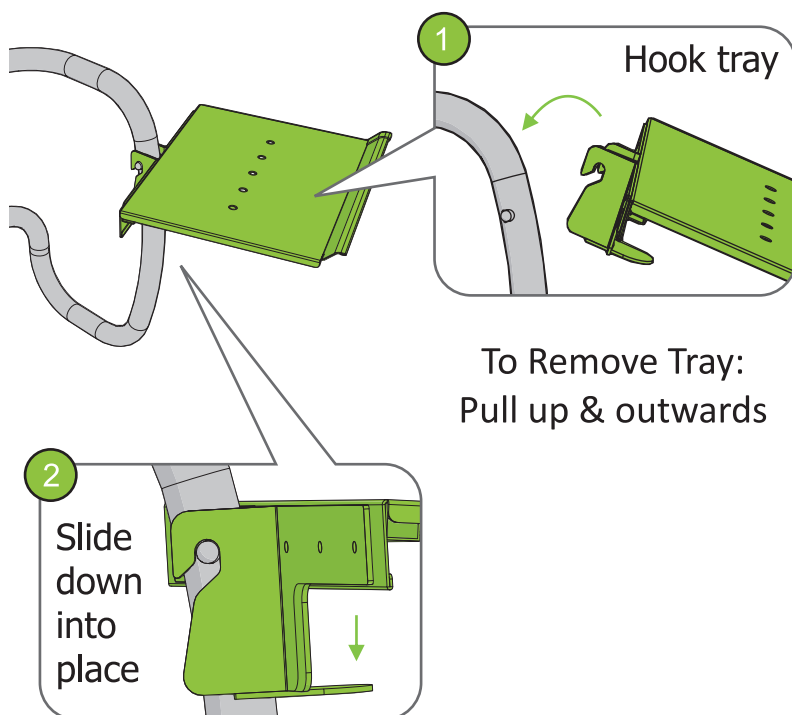
To adjust the height of the board:  
Engage the trigger on the Lift Handle  
and pull up to raise or push down to lower.

*Note: This is an assistive lift, you will need to apply some of your own lifting/pushing force as well.*



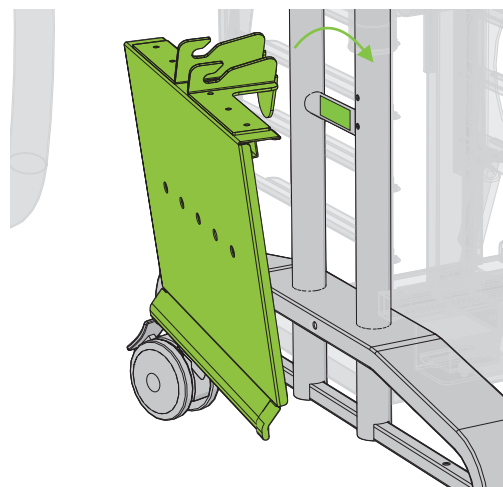
### Attaching & Storing Your Laptop Tray

#### STORE LAPTOP TRAY BEFORE TRANSPORTING



#### STORAGE

Hang tray on end frame  
from Tube marked with  
GREEN stripe



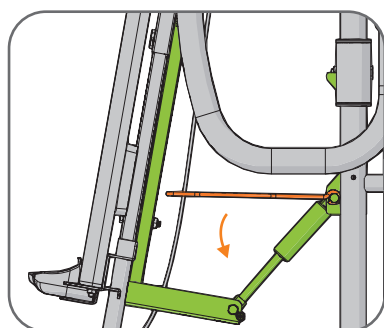


## Tips for Use

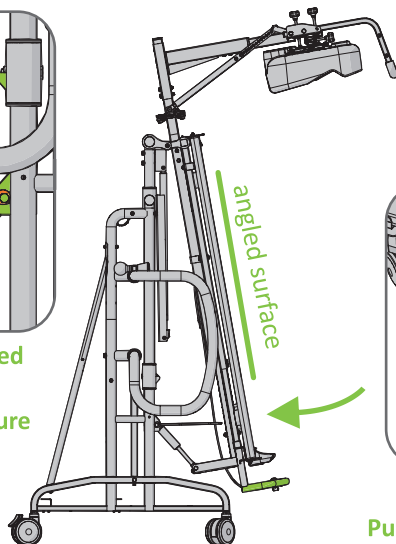
### How to Angle the Board

#### THE BOARD MUST BE IN VERTICAL POSITION TO FIT THROUGH A DOORWAY

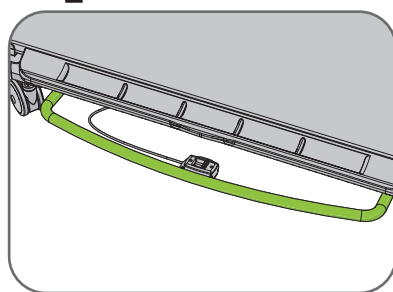
To adjust the angle of the board: Holding onto the Green Lift Handle pull outwards away from the frame or push back in towards the frame to return vertical.



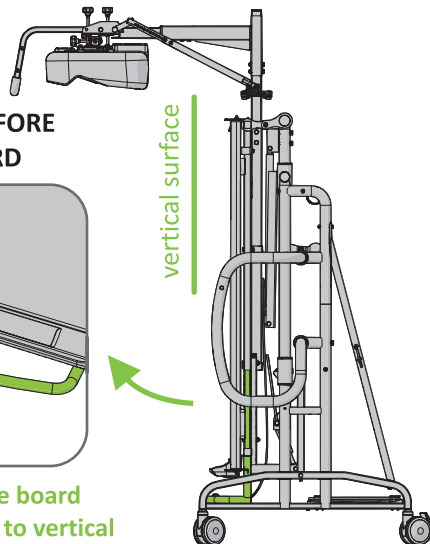
Once the board is in the angled position, fold down the wire braces until they apply pressure to board frame. Fold back up to push board back in.



**! LOCK CASTERS BEFORE TILTING THE BOARD**

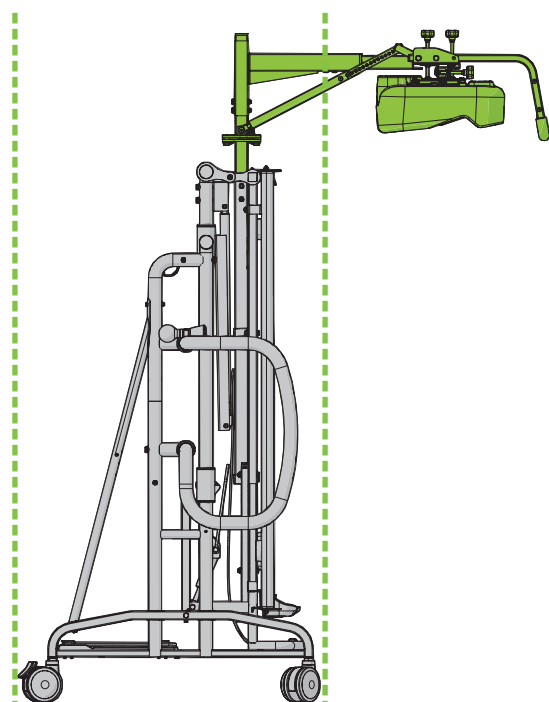


Pull Green Handle to angle board  
Push Green Handle to return to vertical

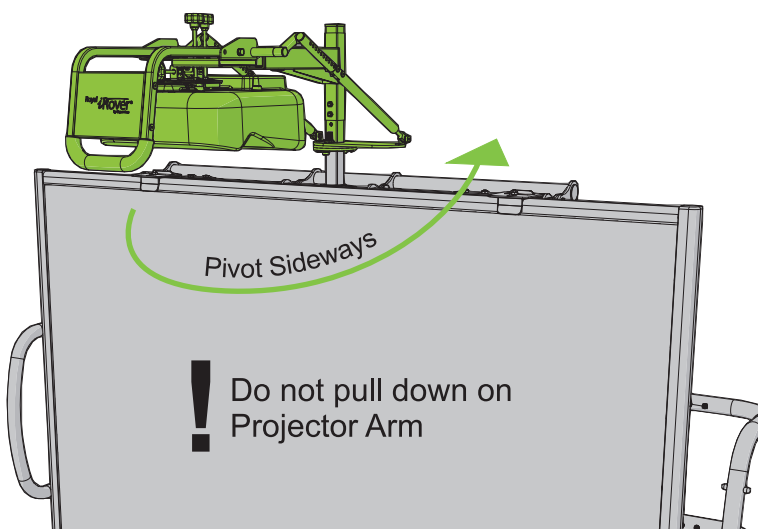


### How to Turn the Projector Arm to Fit Through Doorways

#### ARM MUST BE TURNED TO FIT THROUGH A DOORWAY



Using Green Handle, turn Projector Arm to the right side. Do NOT pull down on Projector Arm.





# Care & Maintenance

## How to care for your iRover<sup>2</sup>

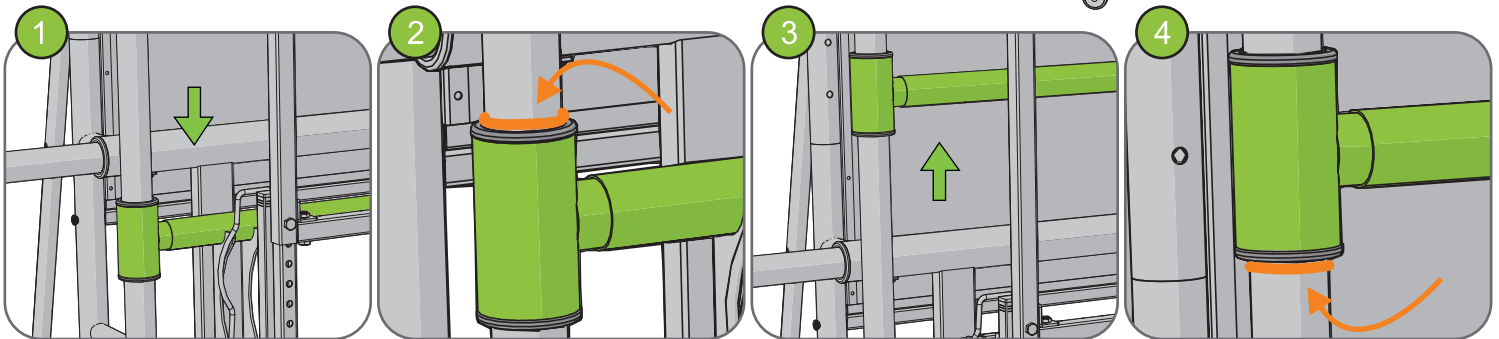
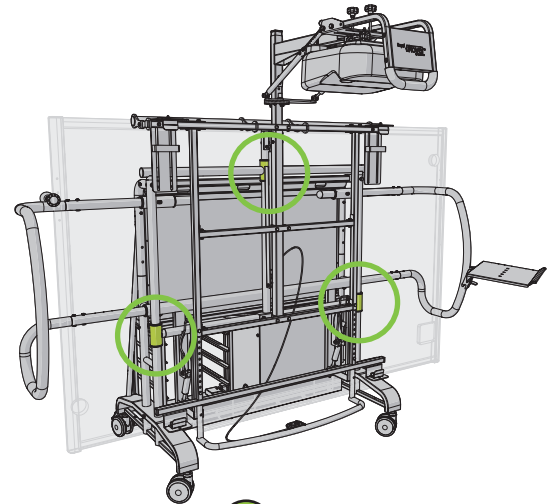


- iRover<sup>2</sup> is made for indoor use only
- Cleaning: wipe with dry or damp cloth and use mild soap only if necessary.
- Verify that the Gas Lift is working properly: the lift is in good condition if you can lift the board to maximum height without using your own force to assist, and bring it back down by applying pressure on the handle. Please call Copernicus if your Gas Lift needs maintenance.
- Perform bushing **lubrication every 6 months**. See instructions below.
- For care of the board and projector please refer to each manufacturer's instructions.

## Bushing Lubrication Instructions



- 1) Lower the unit to its lowest position.
- 2) Apply a generous bead of Petroleum Jelly all around the top of each bushing, pressing some in the gap between the frame and bushing. There are five (5) bushings in total.
- 3) Raise the board to its highest position.
- 4) Repeat the application of Petroleum Jelly on the bottom of each bushing.
- 5) Lower the unit back down to its lowest position.



## Check Tightness of Ball Plunger



- 1) If your Projector Arm does not lock at 90 degrees then your Ball Plunger may need tightening.
- 2) Use an Allen key to tighten turning clockwise until you feel a little resistance. DO NOT FULLY TIGHTEN or you may damage your Ball Plunger. Slight pressure is sufficient whereas fully tightening will prevent your Projector Arm from turning at all.

