

# ASSEMBLY INSTRUCTIONS

Last Updated 05.08.08



## 5 & 10 Row Bleacher

Instructions for all bleacher lengths.  
Guardrail and toe board installation included.

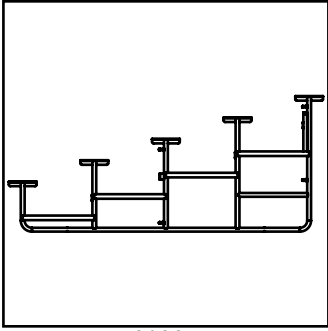
90653	9' Long 5 Row Bleacher
90654	15' Long 5 Row Bleacher
90650	21' Long 5 Row Bleacher
90641	21' Long 10 Row Bleacher

# 97005

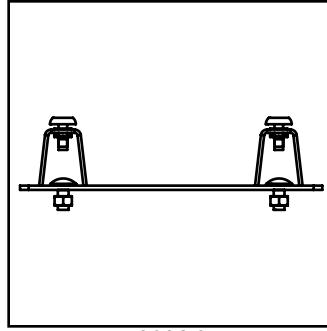


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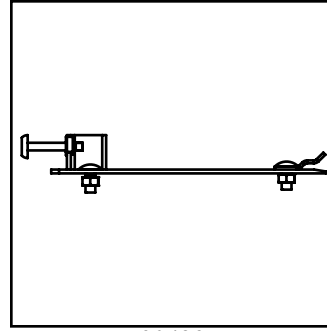
# PARTS LIST



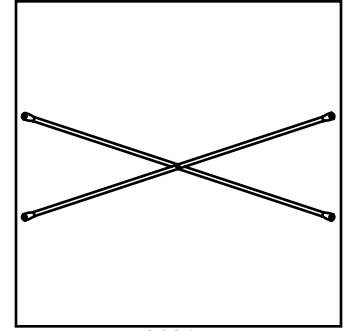
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5 Row Sport Frame



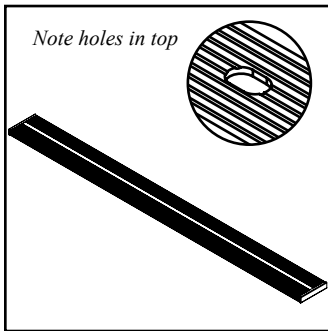
90286  
Top Mount Clip  
Assembly Kit



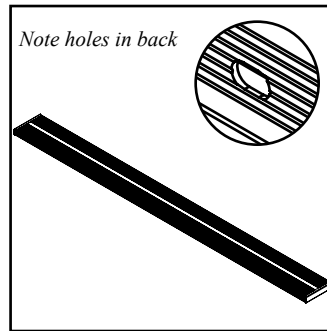
90439  
Rear Mount Clip  
Assembly Kit



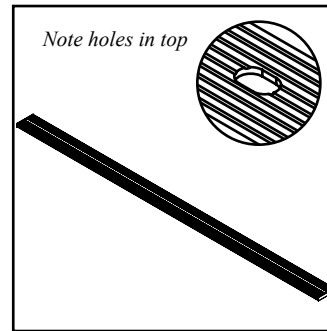
30317  
6' x 24" Cross Brace



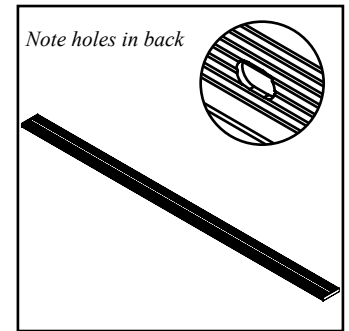
90656  
9' Aluminum Board Mill  
Top Mount



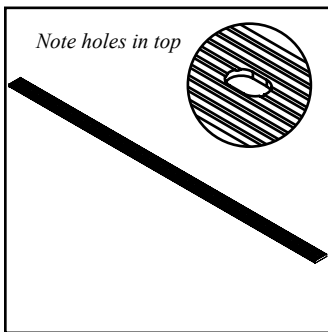
90655  
9' Aluminum Board Anodized  
Rear Mount



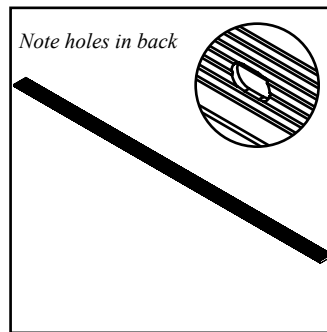
90658  
15' Aluminum Board Mill  
Top Mount



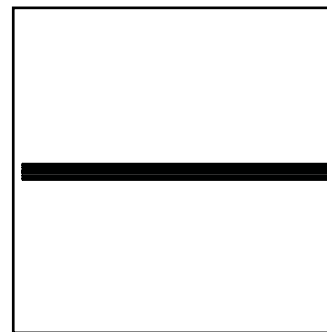
90657  
15' Alum. Board Anodized  
Rear Mount



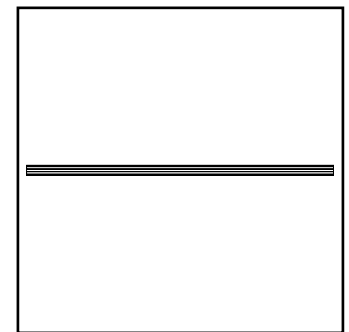
90660  
21' Aluminum Board Mill  
Top Mount



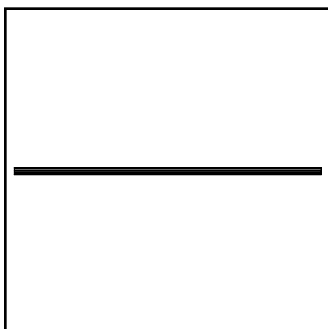
90659  
21' Alum. Board Anodized  
Rear Mount



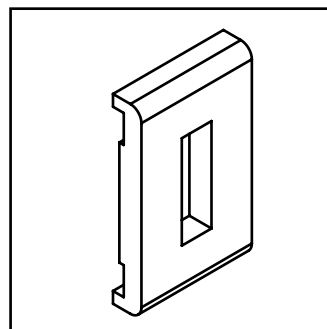
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9' Aluminum Toeboard



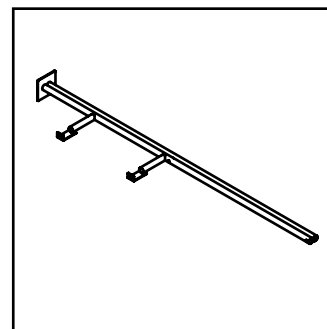
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15' Alum Toeboard



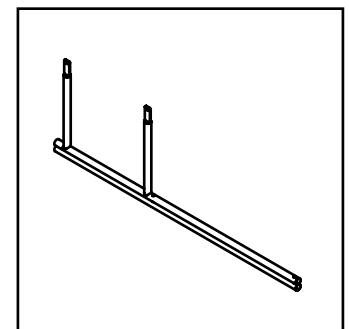
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21' Aluminum Toeboard



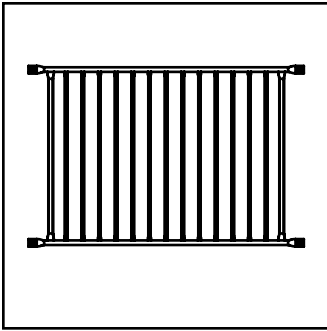
PI-01-0123  
Aluminum Clip



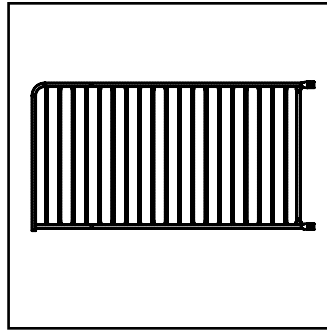
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Rear Guard Post



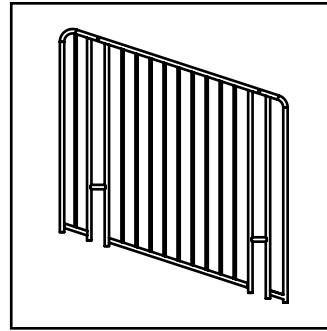
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Side Guard Post



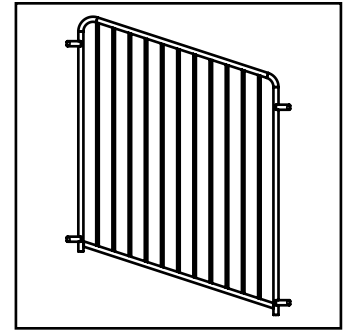
92008  
Rear Guard Panel  
Center



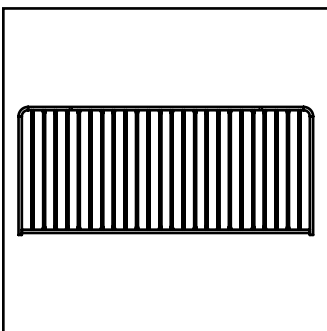
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Rear Guard Panel  
End



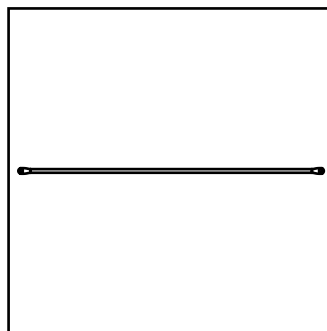
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Side Guard Panel



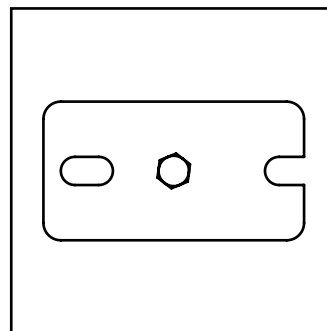
90471  
Side Add-In Guard Panel



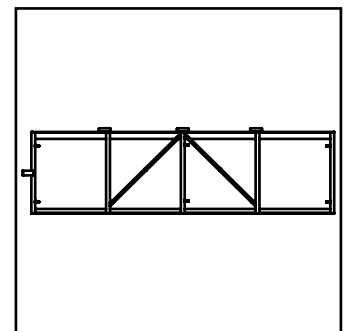
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Rear Guard Panel  
Single



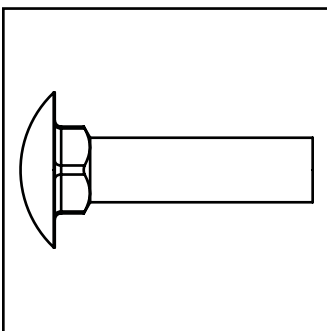
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Horizontal Brace



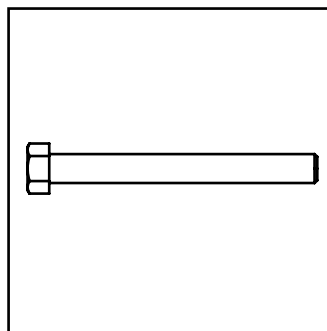
90640  
Toe Board Adapter



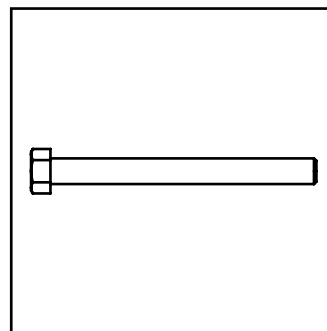
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Build Up Frame



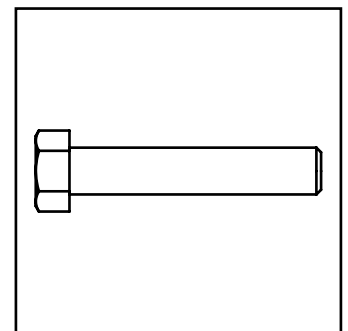
PI-01-0122  
Carriage Bolt  
5/16" x 1 1/4"



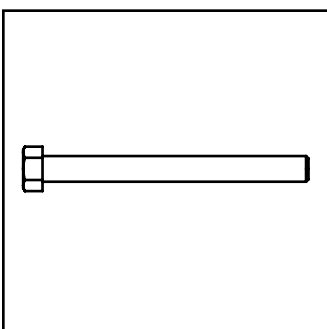
PI-01-0099  
Hex Bolt  
1/2" x 4 1/2"



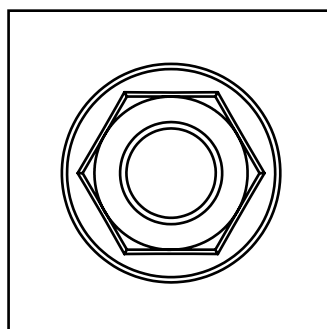
PI-01-0029  
Hex Bolt  
3/8" x 2"



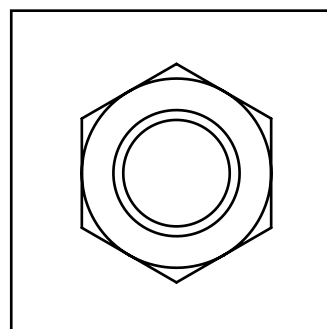
PI-01-0026  
Hex Bolt  
3/8" x 2 3/4"



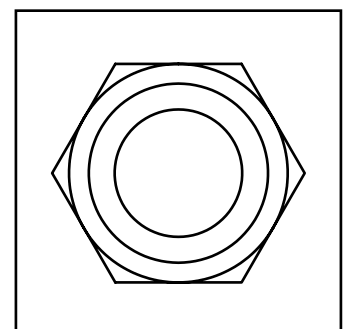
PI-01-0173  
Hex Bolt  
1/2" x 5"



PI-01-0090  
Keps Nut  
5/16"



PI-01-0067  
Hex Nut  
1/2"



PI-01-0019  
Nylon Lock Nut - 3/8"  
PI-01-0057  
Nylon Lock Nut - 1/2"

# PARTS LIST

Part No.		Description		Quantity			
				5 Row			10 Row
				9'	15'	21'	21'
90227		5 Row Sport Frame		2	3	4	8
90286		Top Mount Clip Assembly Kit		16	24	32	72
90439		Rear Mount Clip Assembly Kit		10	15	20	40
03017		6' x 24" Cross Brace		2	4	6	21
90656		9' Aluminum Board Mill - Top Mount		8	0	0	0
90655		9' Aluminum Board Anodized - Rear Mount		5	0	0	0
90658		15' Aluminum Board Mill - Top Mount		0	8	0	0
90657		15' Aluminum Board Anodized - Rear Mount		0	5	0	0
90660		21' Aluminum Board Mill - Top Mount		0	0	8	18
90659		21' Aluminum Board Anodized - Rear Mount		0	0	5	10
90652		9' Aluminum Toeboard		4	0	0	0
90207		15' Aluminum Toeboard		0	4	0	0
90335		21' Aluminum Toeboard		0	0	4	9
PI-01-0123		Aluminum Clip		8	12	16	36
90317		Rear Guard Post		2	3	4	4
90129		Side Guard Post		4	4	4	8
92008		Rear Guard Panel - Center		0	0	1	1
90088		Rear Guard Panel - End		0	2	2	2
90316		Side guard Panel		2	2	2	4
90471		Side Add-In Guard Panel		0	0	0	2
90086		Rear Guard Panel - Single		1	0	0	0
01019		Horizontal Brace		1	2	3	3
90640		Toe Board Adapter		0	0	0	4
90472		Build Up Frame		0	0	0	4
PI-01-0122		Carriage Bolt - 5/16" x 1 1/4"		8	12	16	36
PI-01-0090		Keps Nut - 5/16"		8	12	16	36
PI-01-0067		Hex Nut - 1/2"		8	12	16	56
PI-01-0099		Hex Bolt - 1/2" x 4 1/2"		0	2	4	4
PI-01-0173		Hex Bolt - 1/2" x 5"		12	12	12	20
PI-01-0029		Hex Bolt - 3/8" x 2"		0	0	0	8
PI-01-0026		Hex Bolt - 3/8" x 2 3/4"		0	0	0	8
PI-01-0019		Nylon Lock Nut - 3/8"		0	0	0	16
PI-01-0057		Nylon Lock Nut - 1/2"		12	14	16	24

# WARRANTY

Scaffold frames and components, excluding any finishes, casters, and wood products are warranted for five (5) years from date of original purchase, unless it has been misused, abused, modified or improperly installed. Any product that is claimed to be defective that is returned to Granite Industries with its approval will be repaired or replaced free of charge (excluding freight). This warranty is exclusive and there are no other warranties, express or implied. This remedy is the sole remedy in contact, tort or otherwise, and Granite Industries is not liable for incidental, consequential or special damages. (Proof of purchase may be required)

Carts, excluding any finishes, casters and wheels are warranted for three (3) years from date of original purchase, unless it has been misused, abused, modified or improperly installed. Any product that is claimed to be defective that is returned to Granite Industries with its approval will be repaired or replaced free of charge (excluding freight). This warranty is exclusive and there are no other warranties, express or implied. This remedy is the sole remedy in contact, tort or otherwise, and Granite Industries is not liable for incidental, consequential or special damages. (Proof of purchase may be required)

Bleacher and staging components excluding any finishes and wood decking are warranted for five (5) years from date of original purchase, unless it has been misused, abused, modified or improperly installed. Any product that is claimed to be defective that is returned to Granite Industries with its approval will be repaired or replaced free of charge (excluding freight). This warranty is exclusive and there are no other warranties, express or implied. This remedy is the sole remedy in contact, tort or otherwise, and Granite Industries is not liable for incidental, consequential or special damages. (Proof of purchase may be required)

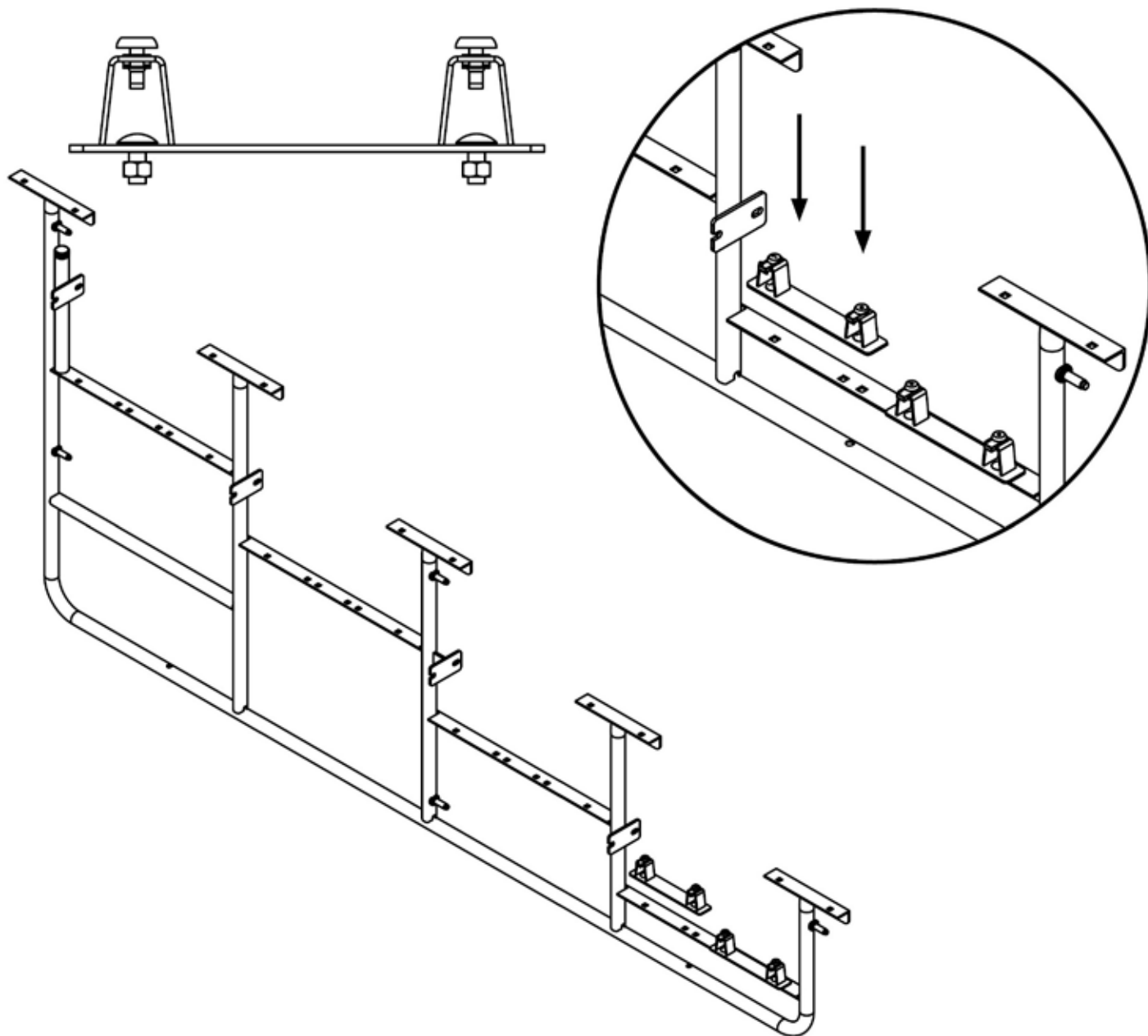
Casters and wheels are warranted for one (1) year from date of original purchase, unless it has been misused, abused, modified or improperly installed. Any product that is claimed to be defective that is returned to Granite Industries with its approval will be repaired or replaced free of charge (excluding freight). This warranty is exclusive and there are no other warranties, express or implied. This remedy is the sole remedy in contact, tort or otherwise, and Granite Industries is not liable for incidental, consequential or special damages. (Proof of purchase may be required)

Power unit components are warranted for 90 days from date of original purchase, unless it has been misused, abused, modified or improperly installed. Any product that is claimed to be defective that is returned to Granite Industries with its approval will be repaired or replaced free of charge (excluding freight). This warranty is exclusive and there are no other warranties, express or implied. This remedy is the sole remedy in contact, tort or otherwise, and Granite Industries is not liable for incidental, consequential or special damages. (Proof of purchase may be required)

We will repair, without charge, any defect due to faulty material or workmanship. Please return the complete unit, transportation pre-paid, to Granite Industries. These warranties do not cover failures due to abuse, accidental damage or when repairs have been made or attempted by other than Granite Industries. These warranties give you specific legal rights, and you may have other rights which vary from state to state. Should you have any questions, contact Granite Industries (Proof of purchase may be required).

# STEP 1

Read each step through completely before beginning the step. The box “☐” is provided as a check-off box. As you complete each task, check it off.



☐ To begin assembly, fasten the top mount clip from the kit to the foot board locations on the bleacher frame. Use two 5/16" carriage bolts and two 5/16" keps nuts that are supplied with the clip. Use holes one and three from the front of the frame.

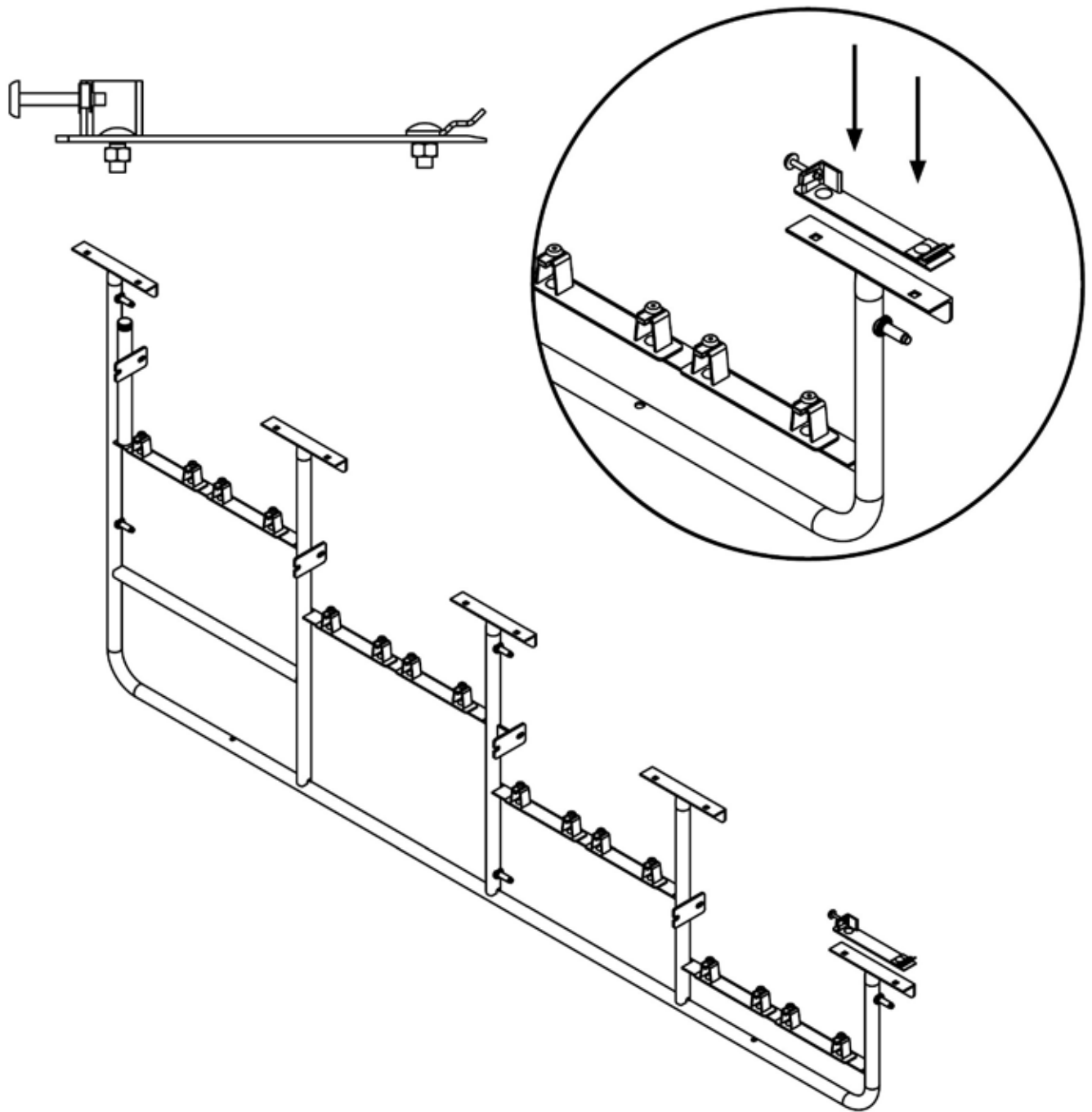
☐ Fasten the second top mount clip as described above using holes four and six.

☐ Repeat above steps for the three other foot board locations.

☐ Repeat above steps for all bleacher frames.

NOTE: Set aside 1/4" x 3/4" screw from the top mount kit for future use.

# STEP 2

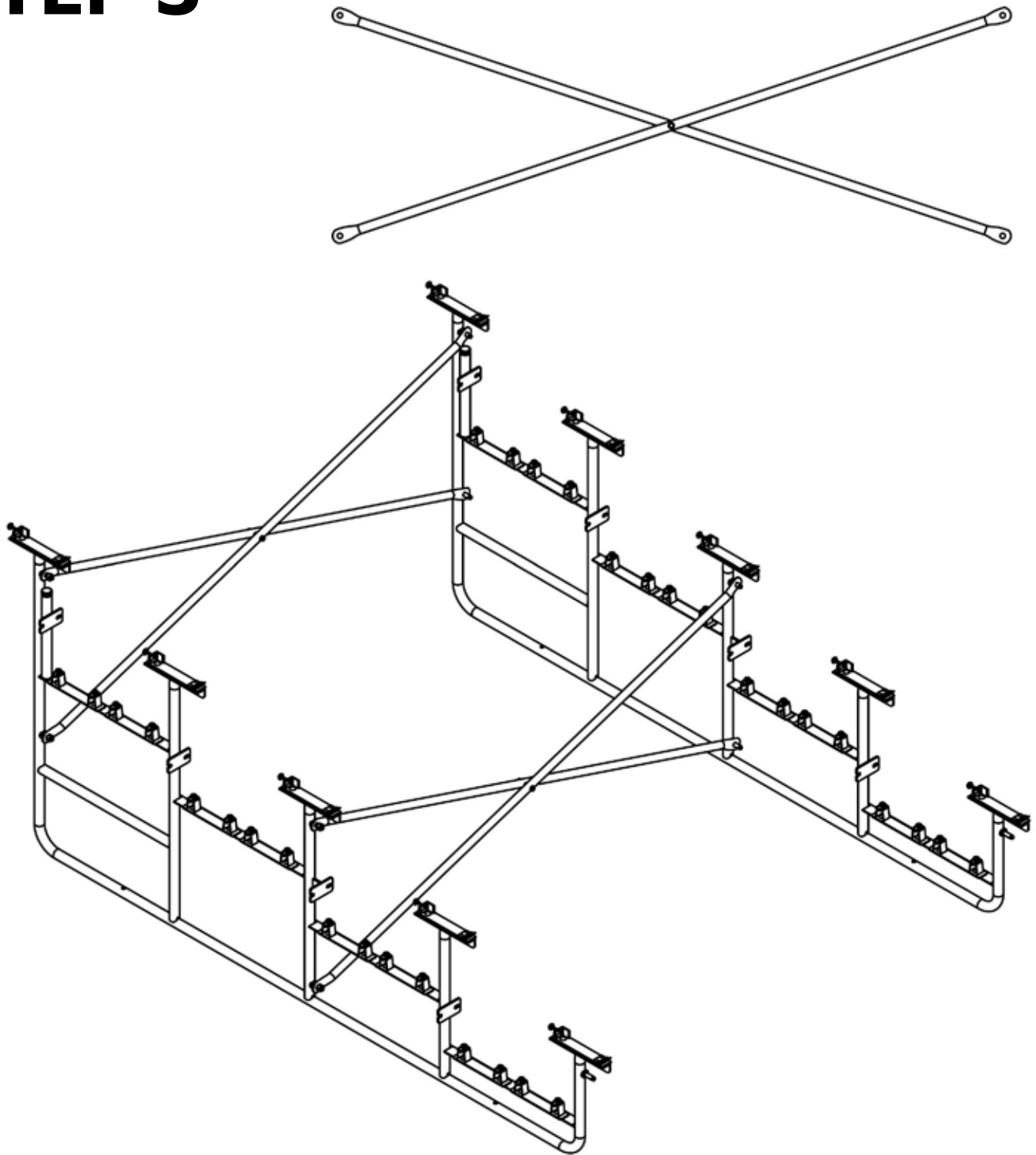


- Fasten rear mount clip from the kit to the front seat location on the bleacher frame using two 5/16" carriage bolts and two 5/16" keps nuts supplied with the clip.
- Repeat above steps for the four other seat board locations.
- Repeat above steps for all bleacher frames.

NOTE: Tighten all 5/16" bleacher clip nuts at this time.

NOTE: Set aside 1/4" x 1-3/4" screw from the rear mount kit for future use.

# STEP 3

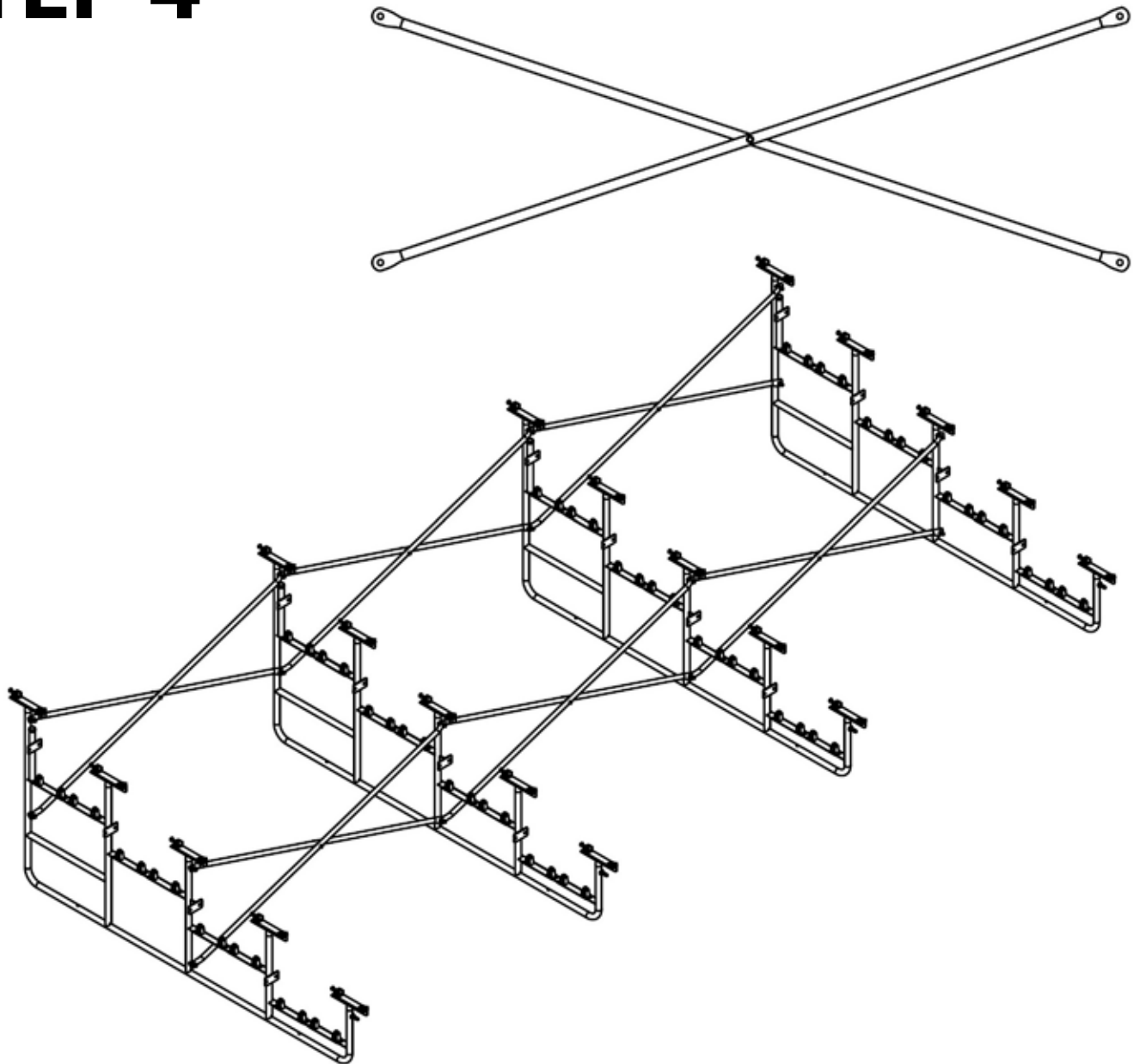


- Attach a 6' x 24" cross brace to the two rear threaded studs on one bleacher frame using two 1/2" hex nuts.
- Attach a second bleacher frame to the opposite end of the cross brace using two 1/2" nuts.
- Fasten another cross brace on the front studs of the same frames using four 1/2" nuts.

NOTE: Do not tighten 1/2" hex nut at this time.



# STEP 4



□ For 90653 (9'Long Bleacher), skip to step 9.

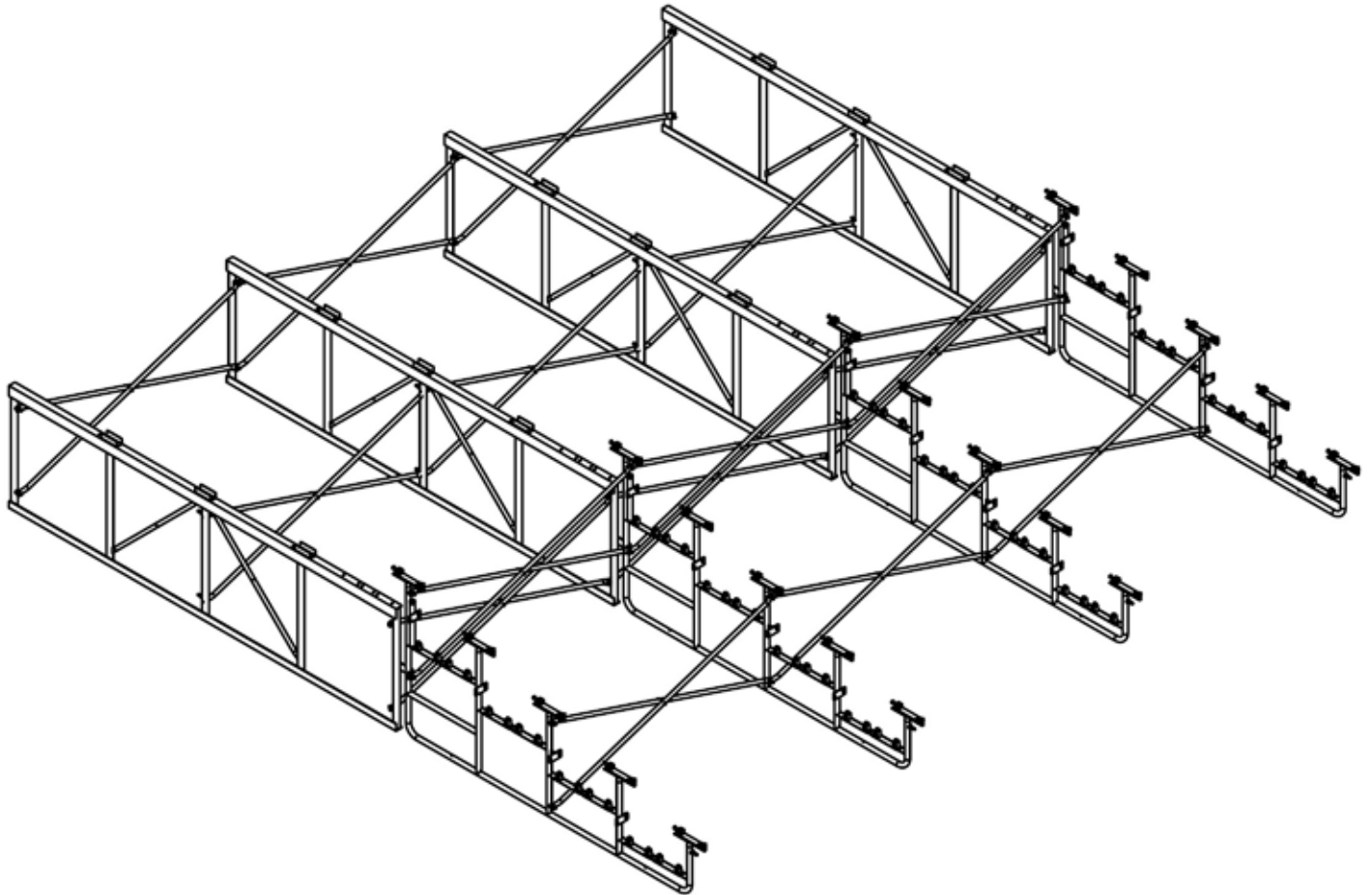
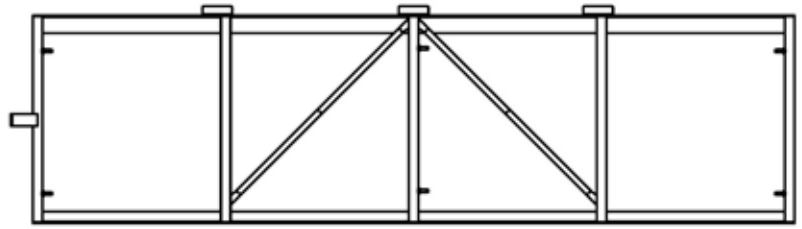
□ For 90654 (15'Long Bleacher), attach two additional 6' x 24" cross braces and one bleacher frame to the setup bay. Skip to step 9.

□ For 90650 (21'Long 5 Row Bleacher), attach four additional 6' x 24" cross braces and two bleacher frames to the setup bay. Skip to step 9.

□ For 90641 (21'Long 10 Row Bleacher), attach four additional 6' x 24" cross braces and two bleacher frames to the setup bay. Continue to step 5.

NOTE: Do not tighten ½" hex nut at this time.

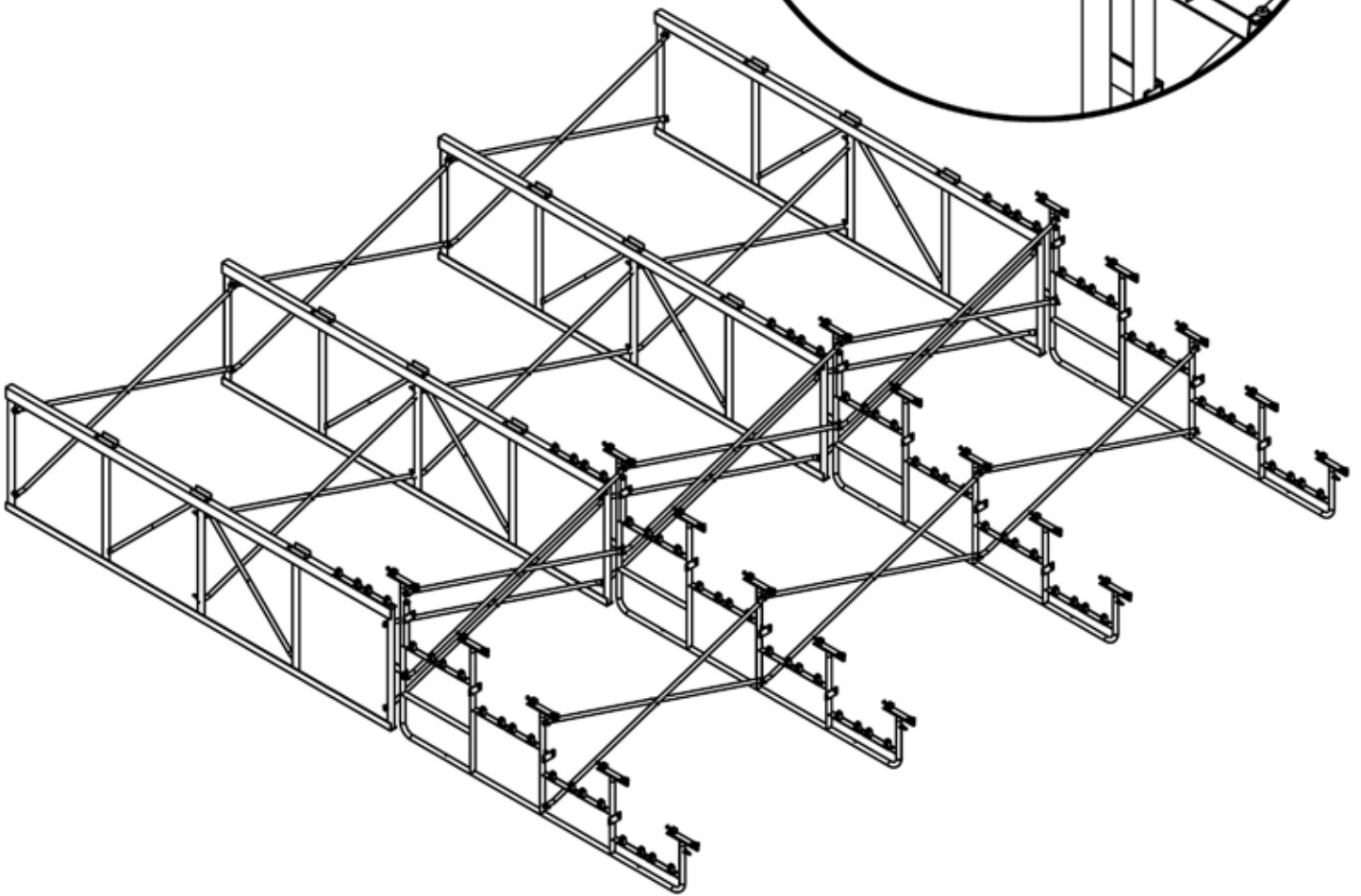
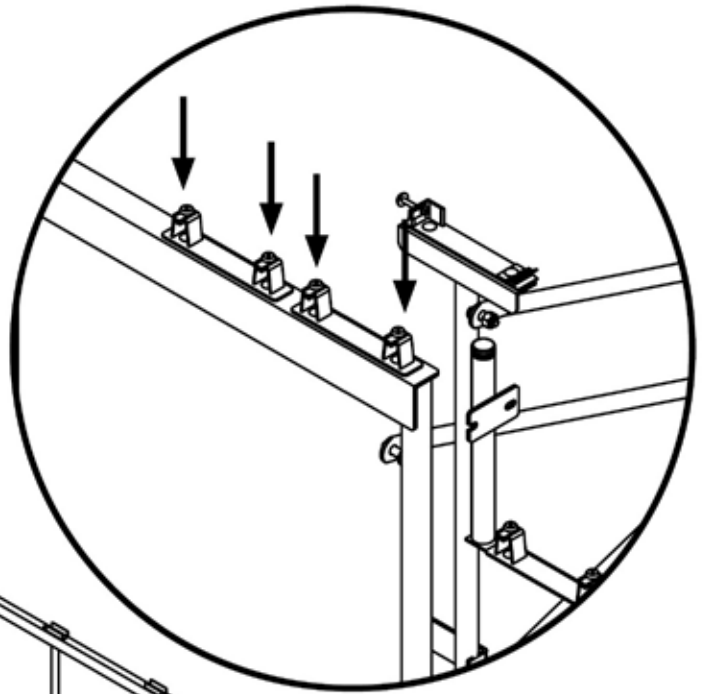
# STEP 5



- Attach a build up frame to the rear of the seat frame. Position the tab on the front of the build up onto the lower back stud on the seat frame. The tab should be located between the brace and the seat frame.
- Attach a second build up frame to the next seat frame and fasten three 6' x 24" cross braces between the two build up frames using ½" nuts.
- Continue by setting up the last two build up frames and six braces as shown in the above assembly diagram.

NOTE: Do not tighten ½" hex nut at this time.

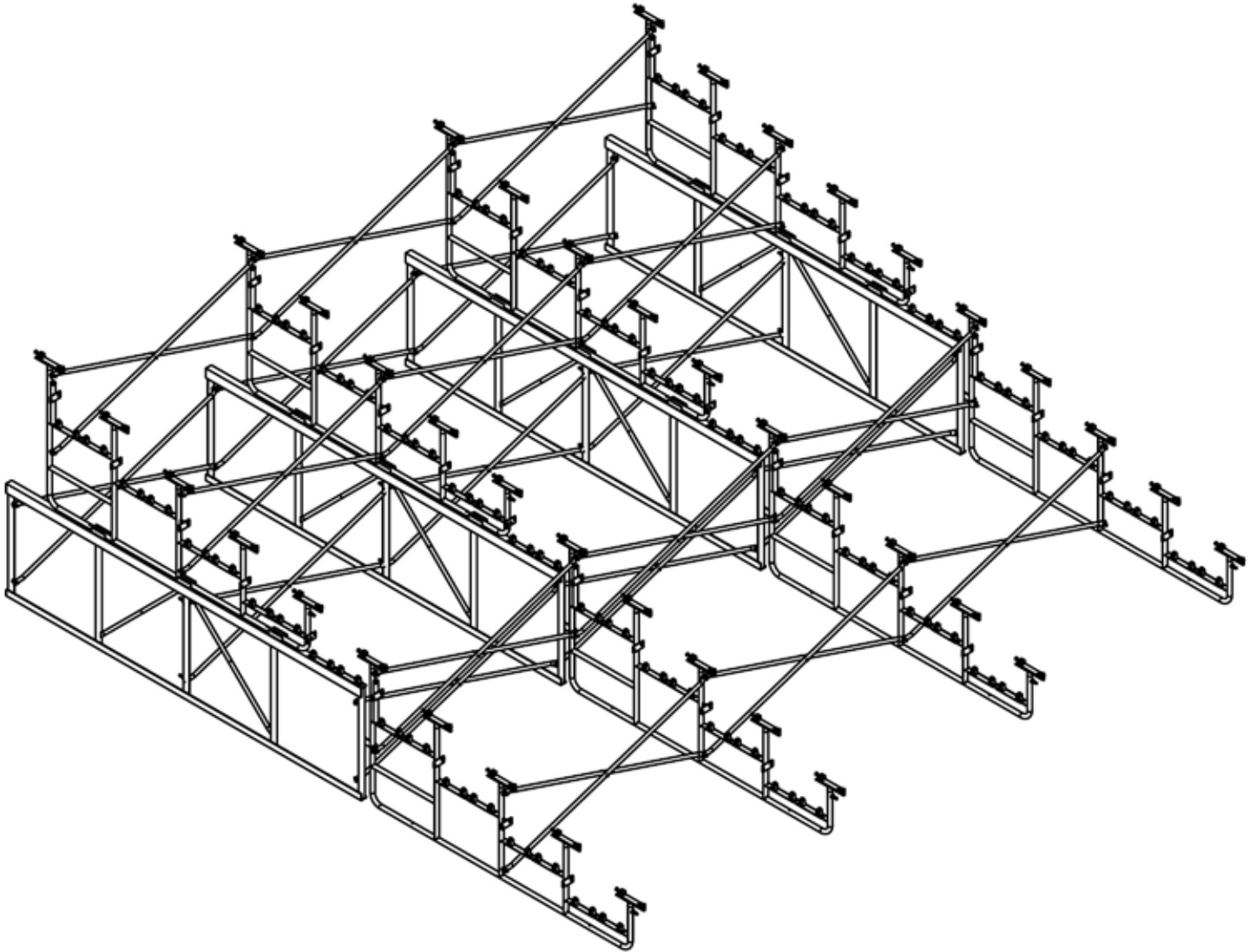
# STEP 6



- Fasten the top mount clip to the foot board locations on the build up frame. Use two 5/16" carriage bolts and two 5/16" nylon lock nuts that are supplied with the clip. Use holes one and two from the front of the frame.
- Fasten the second top mount clip as described above using holes three and four.
- Repeat above steps for all build up frames.

NOTE: Set aside 1/4" x 3/4" screw for future use.

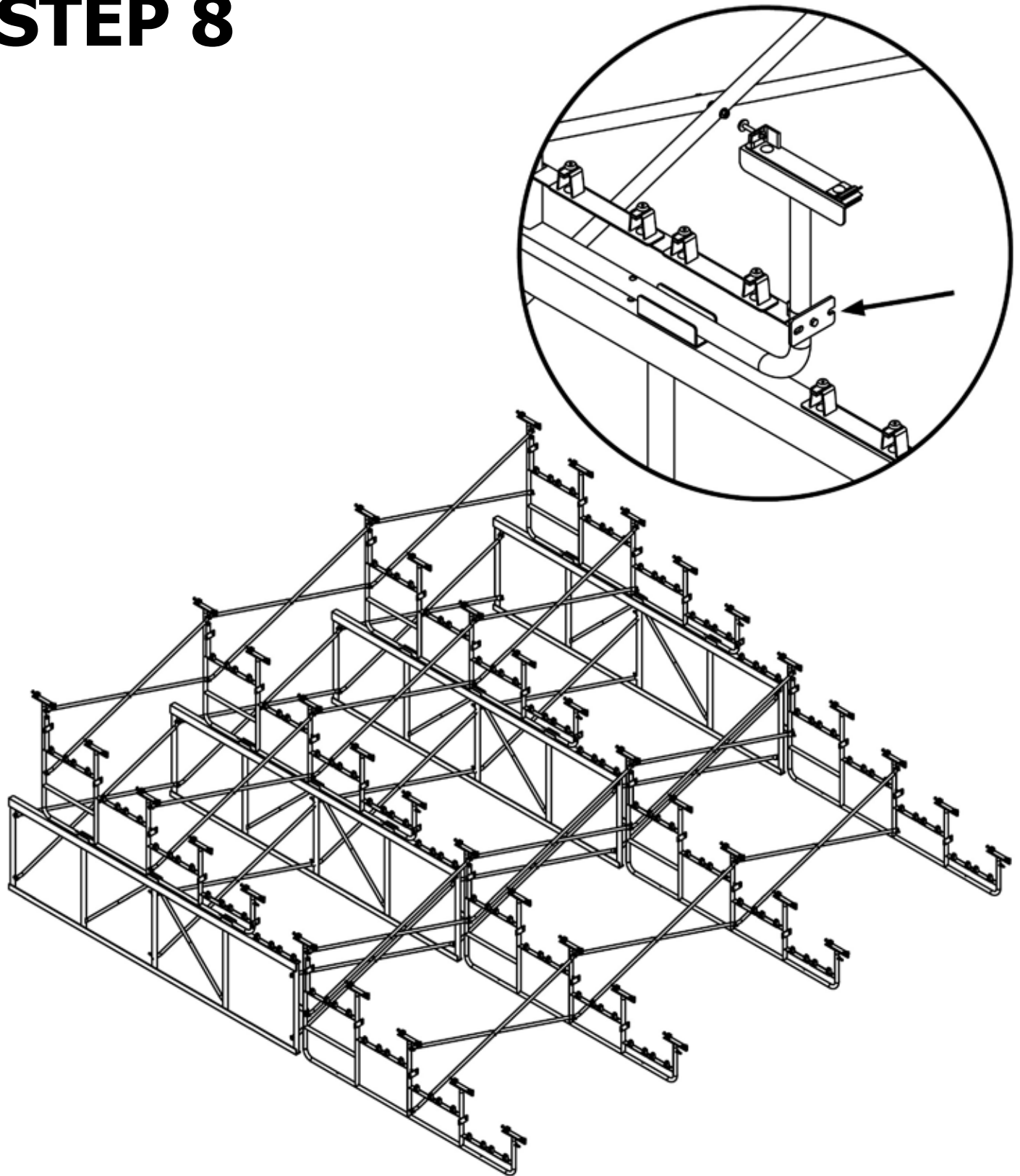
# STEP 7



- In a similar method as used in steps three and four, attach seat frames and braces on the top of the build up frames as shown in the above assembly diagram.
- Attach each bleacher frame to the build up frame using two 3/8" x 2" hex bolts and two 3/8" nylon hex lock nuts.

NOTE: Tighten 3/8" nylon lock nuts at this time.

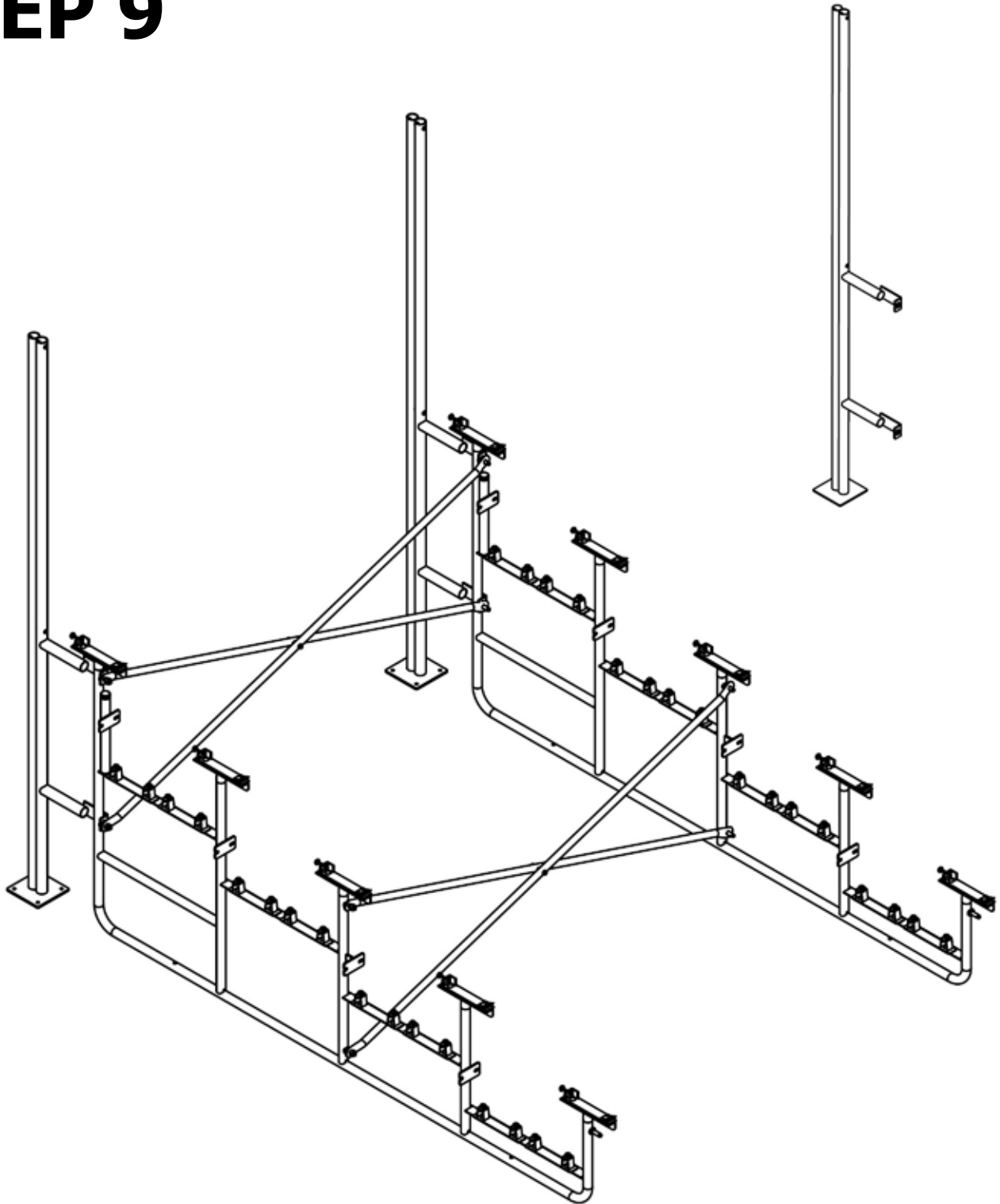
# STEP 8



□ Attach the toe board clips to the tubes on the sixth row of the ten row bleacher. The clip should rest on the top of the angle iron portion of the frame.

□ Secure toe board adapter hardware.

# STEP 9



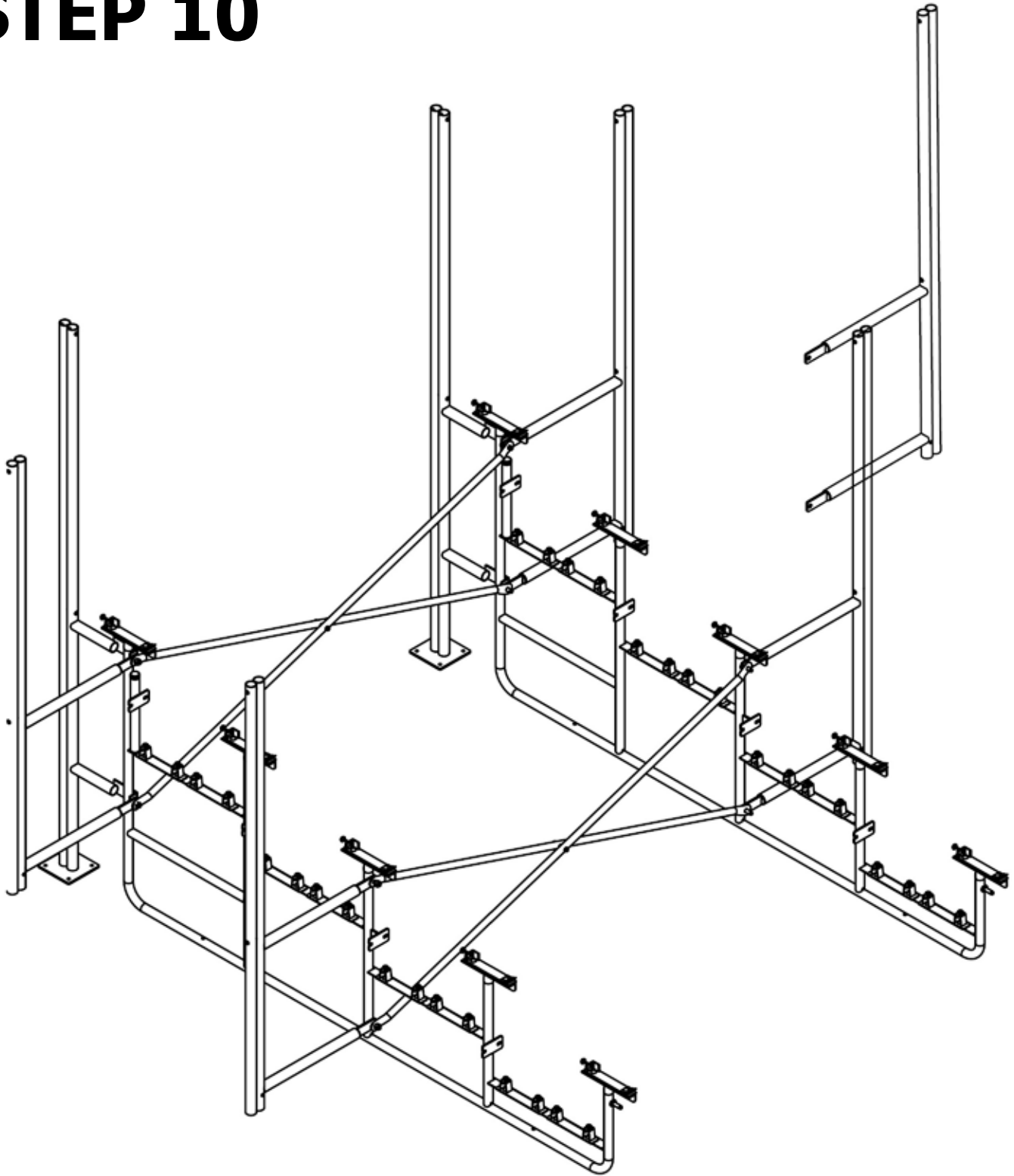
□ Attach a rear guard post to the rear of the seat frame. Position the tabs on the front of the post onto the studs on the seat frame. The tabs should be located between the brace and the seat frame.

□ Repeat above steps for all rear guard posts.

NOTE: The rear seat posts on the ten row bleacher will rest on, but not fasten to the build up frame.

NOTE: Do not tighten  $\frac{1}{2}$ " hex nut at this time.

# STEP 10

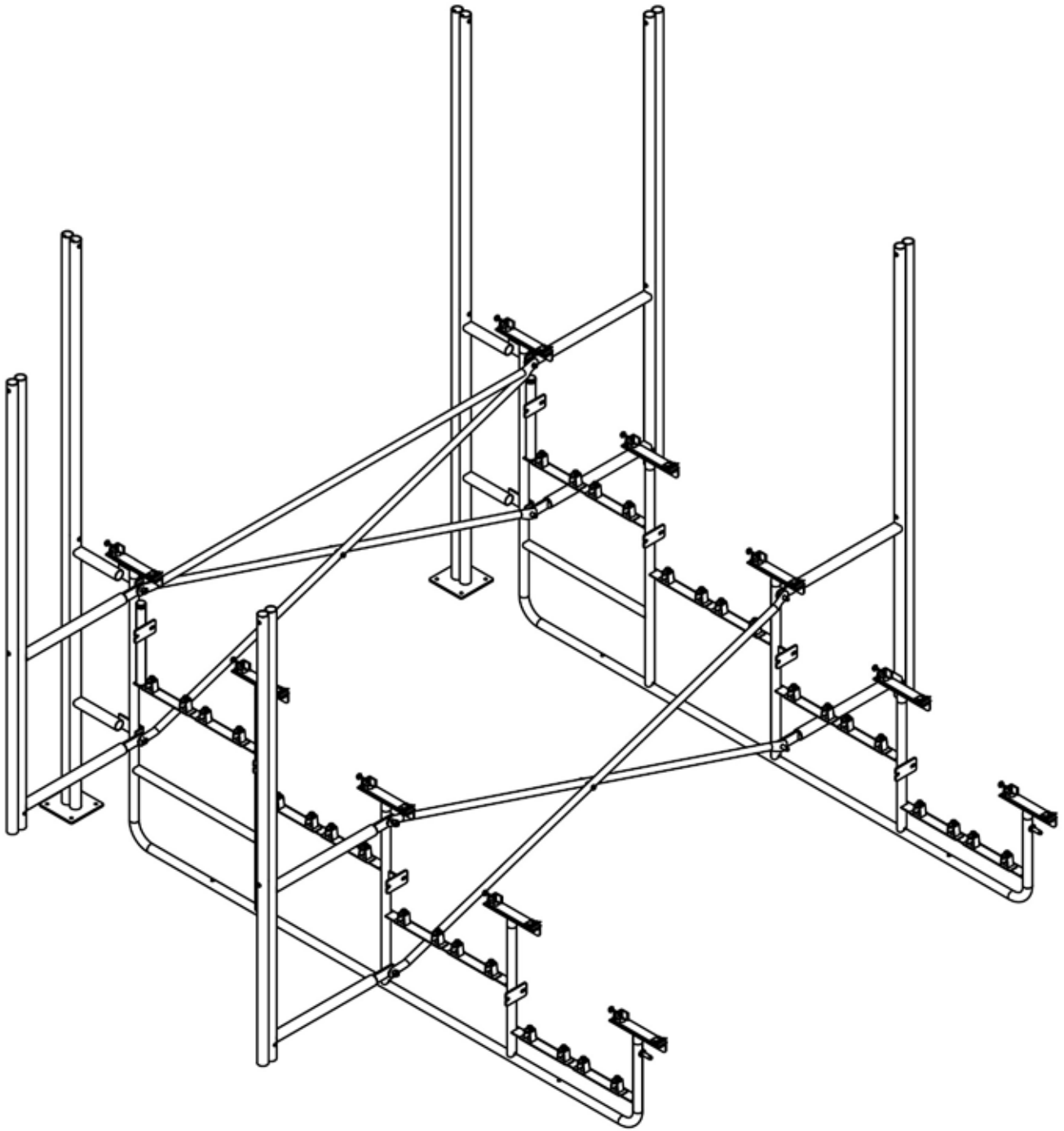


- Attach a side guard post to the side of the seat frame. Position the tabs on the front of the post onto the studs on the seat frame. The tabs should be located between the brace and the seat frame.
- Repeat above steps for all side guard posts.

NOTE: The five row bleacher systems will use four posts and the ten row will use eight posts.

NOTE: Do not tighten ½" hex nut at this time.

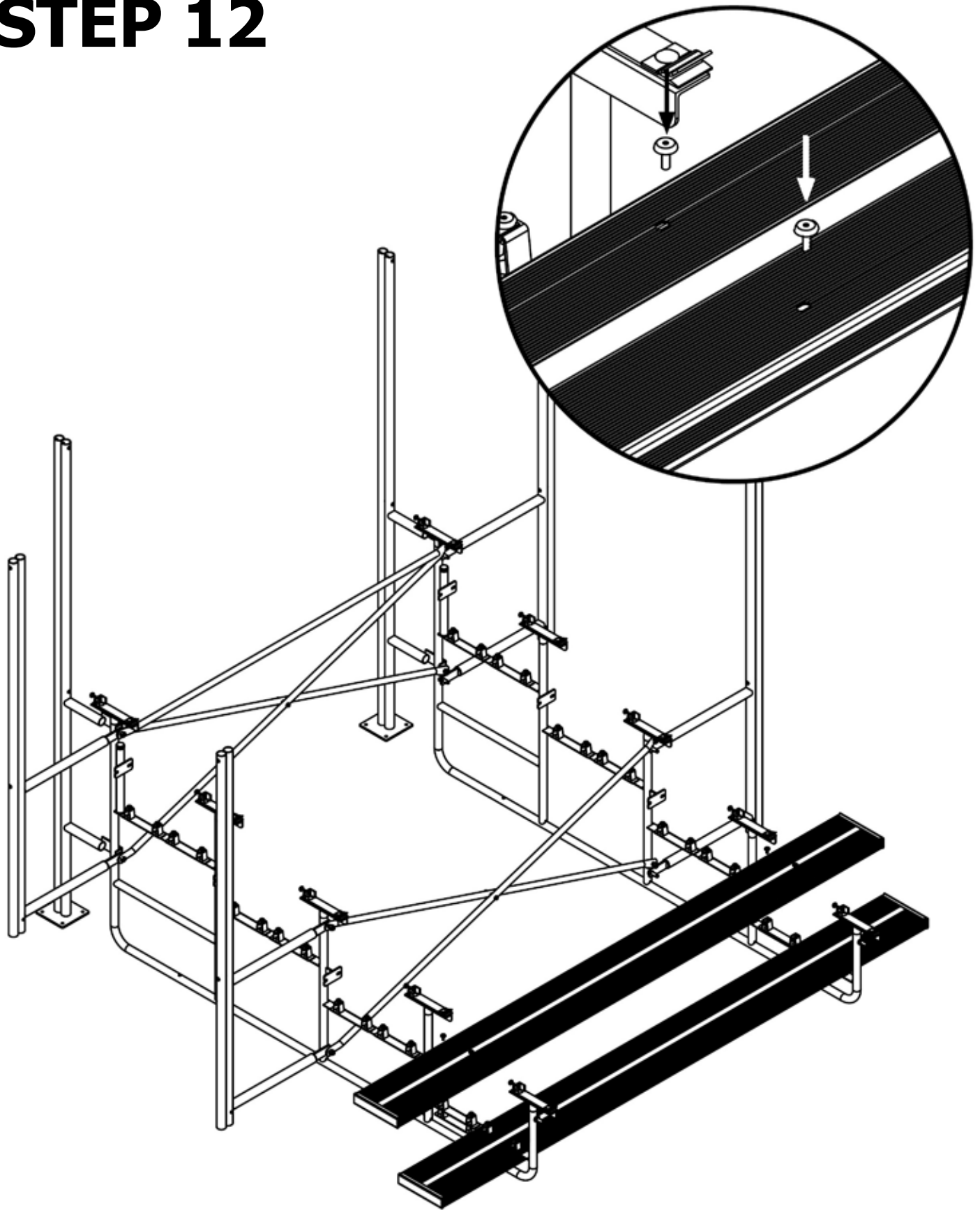
# STEP 11



- Attach a 6' horizontal brace to the top rear studs on the seat frame as shown in the above assembly diagram.
- Repeat above steps for each bay.
- DO tighten all ½" hex nut at this time.



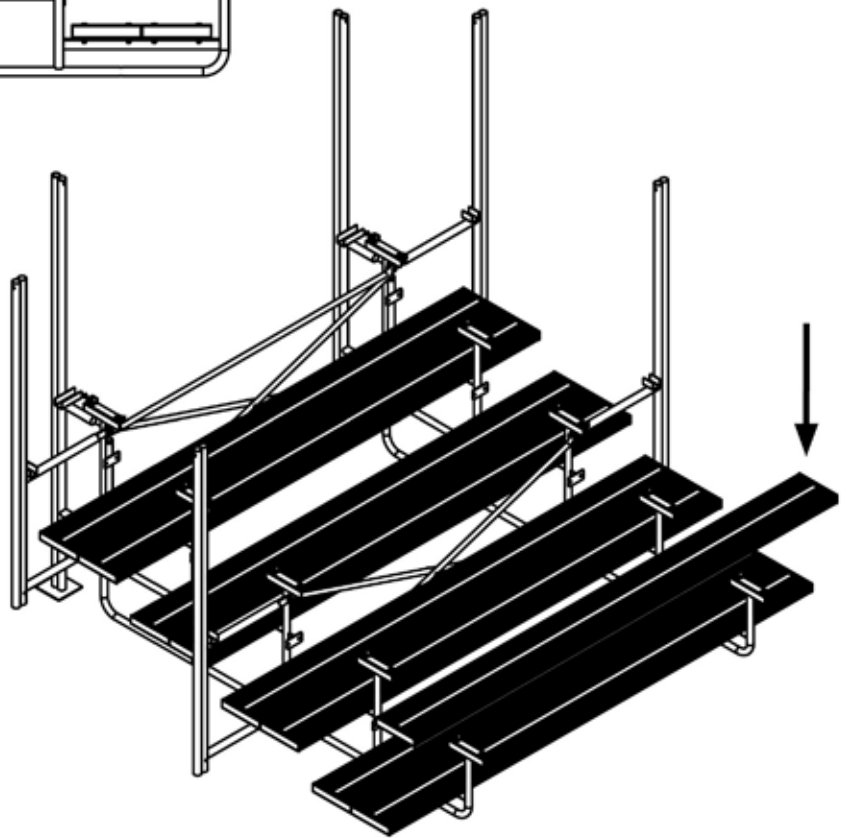
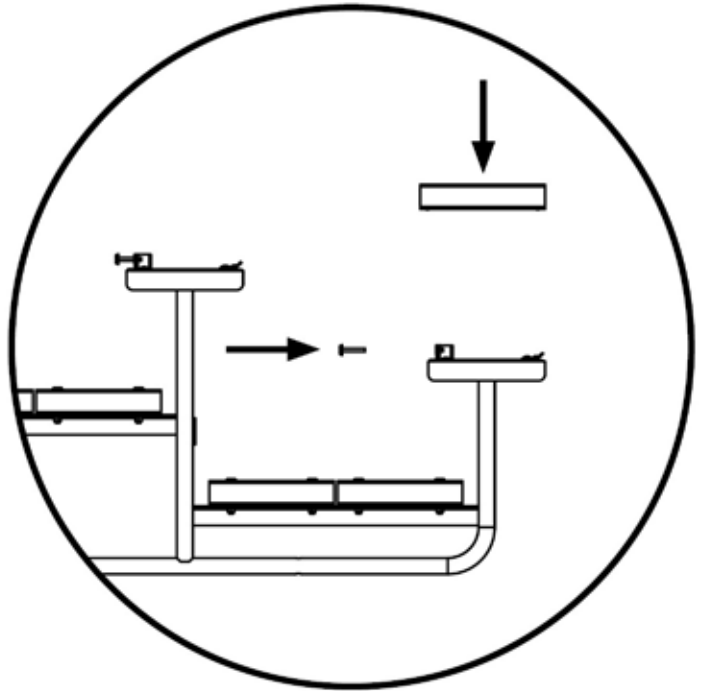
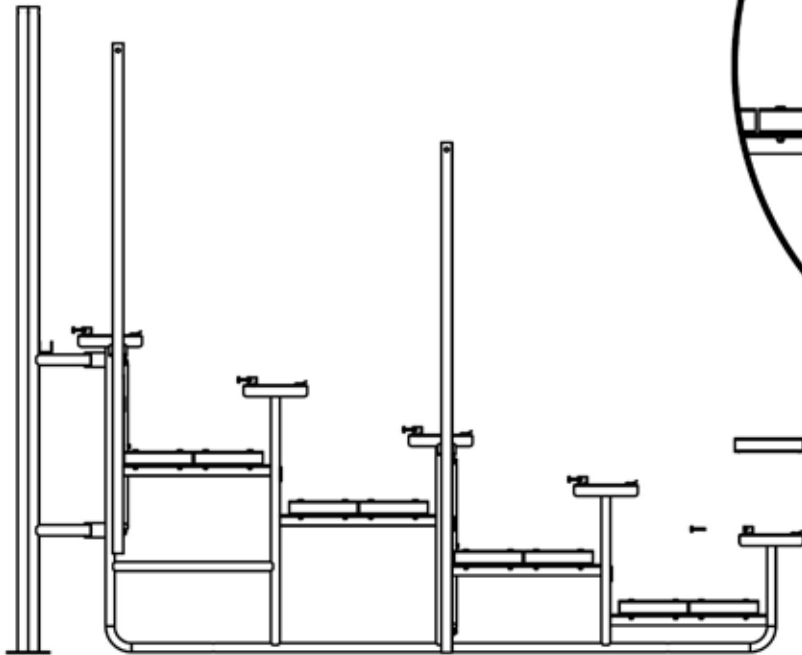
# STEP 12



□ Fasten the bottom foot boards using the  $\frac{1}{4}$ " x  $\frac{3}{4}$ " screws that were set aside in step one. The screws will fasten through the top of each board.

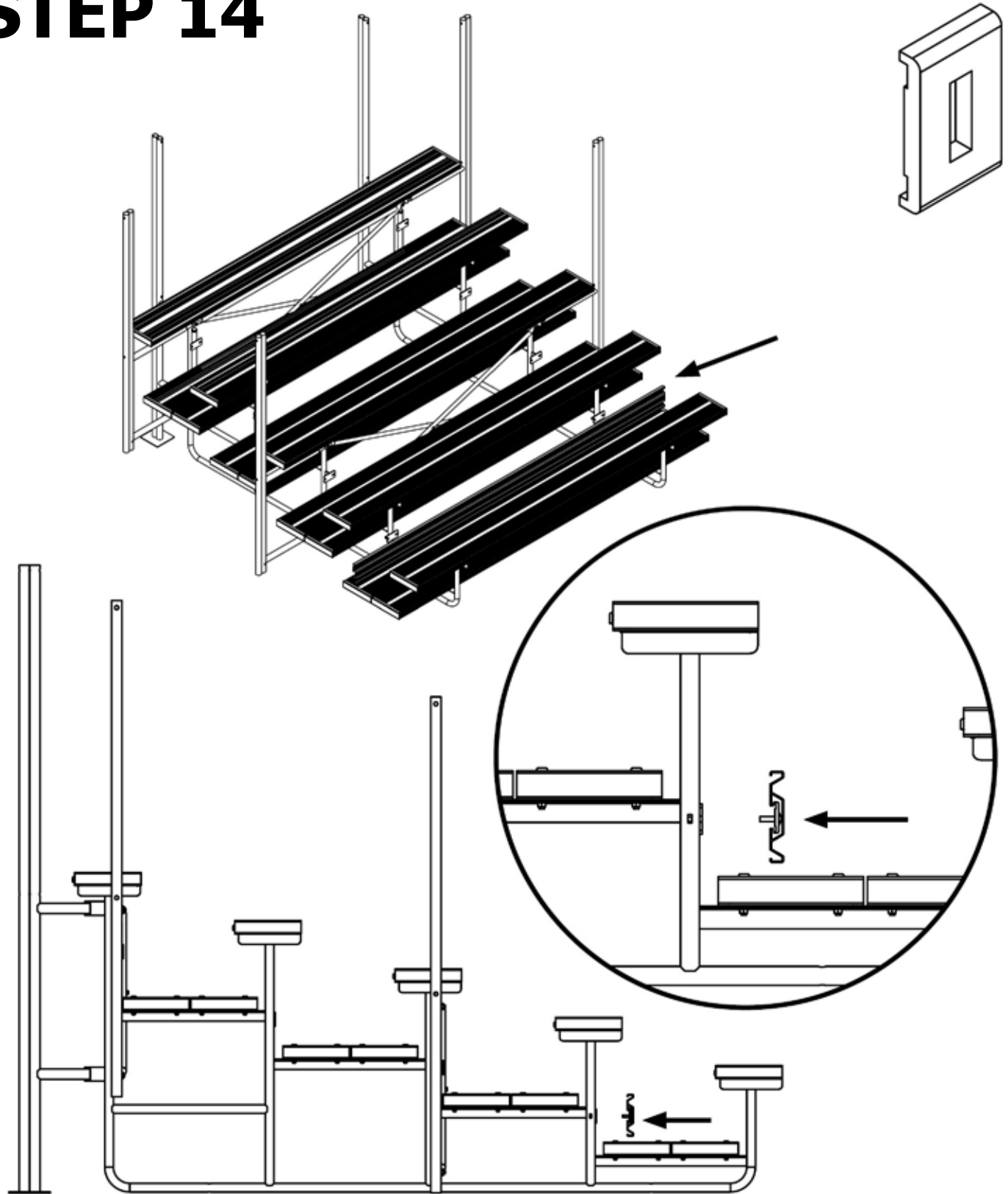
□ Continue working your way up the bleacher row by row, screws should be tightened at this time.

# STEP 13



- Fasten the bottom seat boards using the  $\frac{1}{4}$ " x  $1\frac{3}{4}$ " screws that were set aside in step two. The screws (1 per frame) will fasten through the back of each board.
- Continue working your way up the bleacher row by row, screws should be tightened at this time.

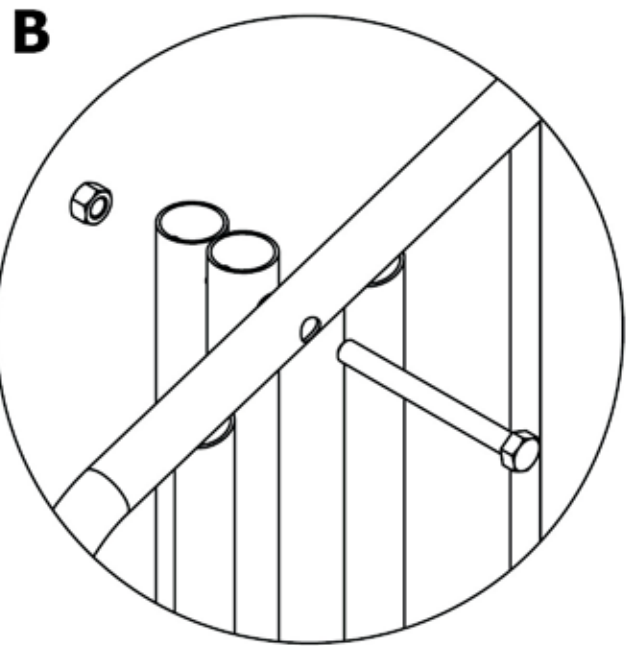
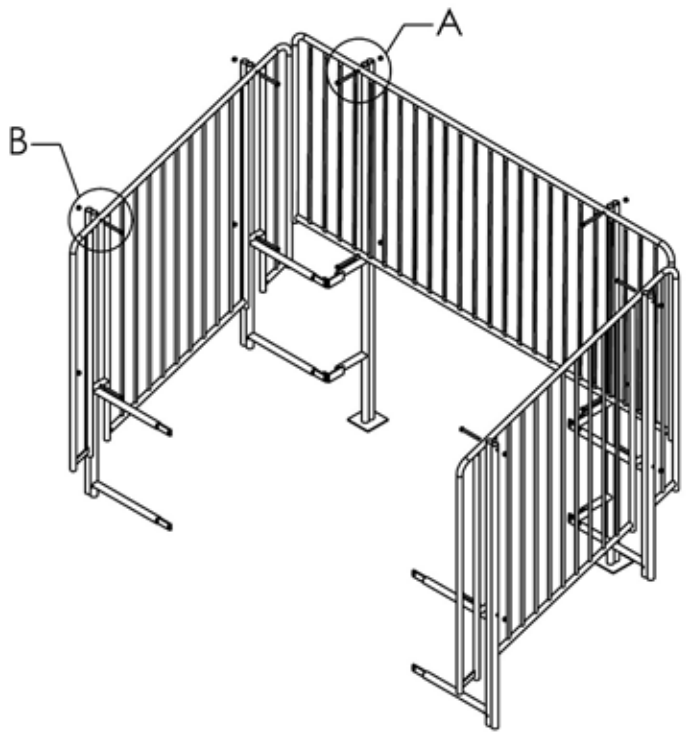
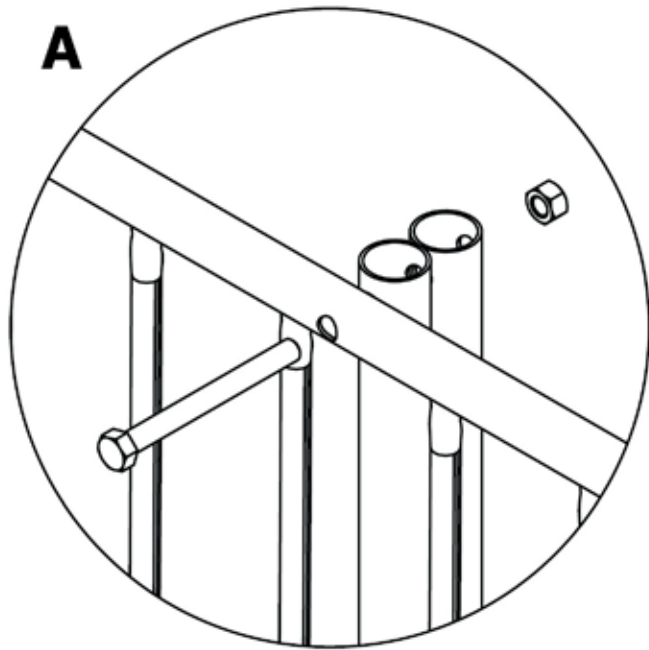
# STEP 14



□ Starting below the second row, fasten the toeboard to the small plates on the bleacher frame using the one 5/16" x 1-1/4" carriage bolt, 5/16" flange nut and aluminum attachment clip per frame. Either the slot or the hole in the plate can be used in this step.

□ Continue working your way up the bleacher row by row, bolts should be tightened at this time.

# STEP 15

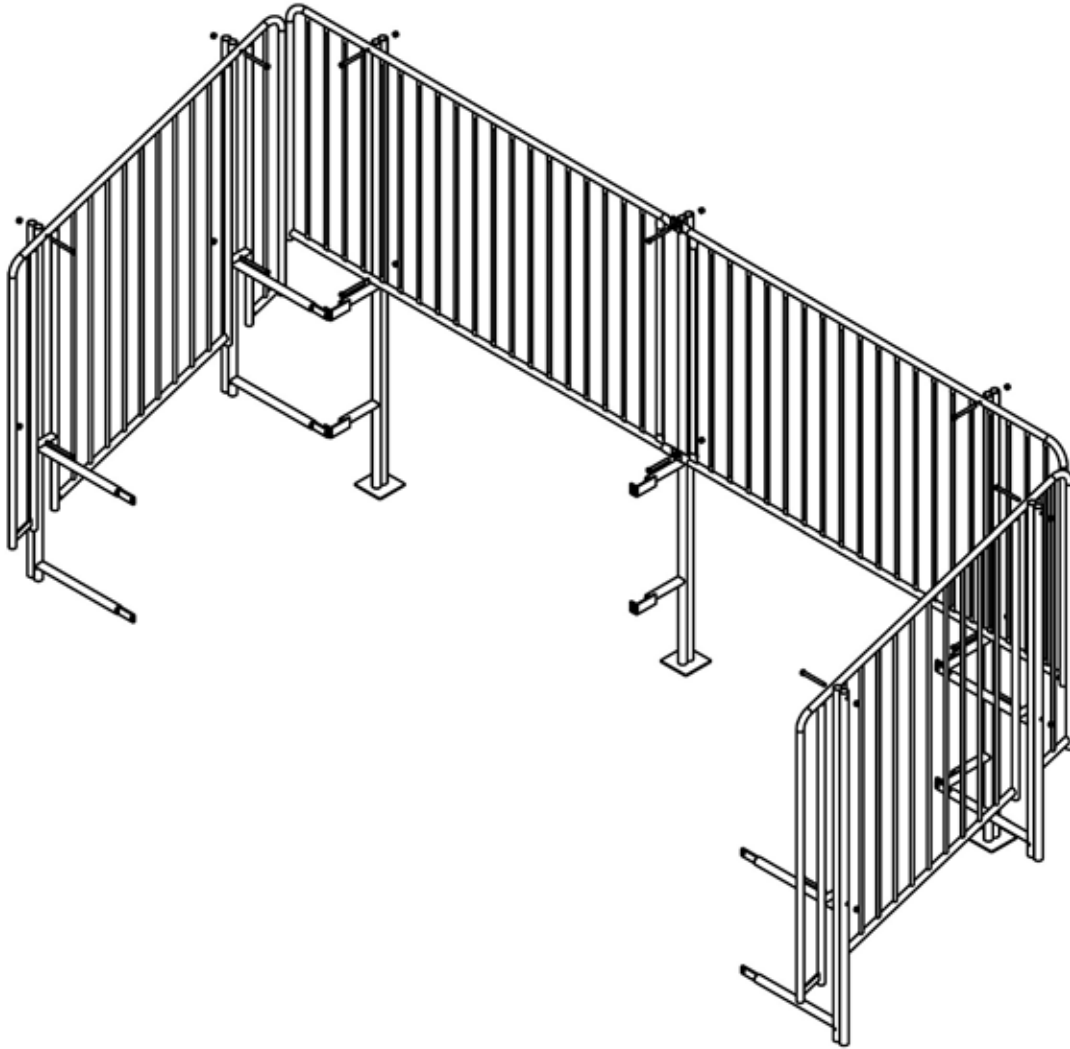


This step is for 90653 (9' Long Bleacher), other setups should continue to next step.

- Attach the 9' rear guard rail panel to the two rear posts on the bleacher. Use the two holes along the top and bottom rails of the panel and the slots at the top of the posts. Four  $\frac{1}{2}$ " x 5" hex bolts and  $\frac{1}{2}$ " nylon locknuts should be used.
- Attach a side guard rail panel to the two side posts on the bleacher. Use the two holes along the top and bottom rails of the panel and the slots in the posts. Four  $\frac{1}{2}$ " x 5" hex bolts and  $\frac{1}{2}$ " nylon locknuts should be used.
- Attach second side guard rail panel, on opposite side of bleacher, as described above.

NOTE: Do not tighten  $\frac{1}{2}$ " hex nuts at this time.

# STEP 16

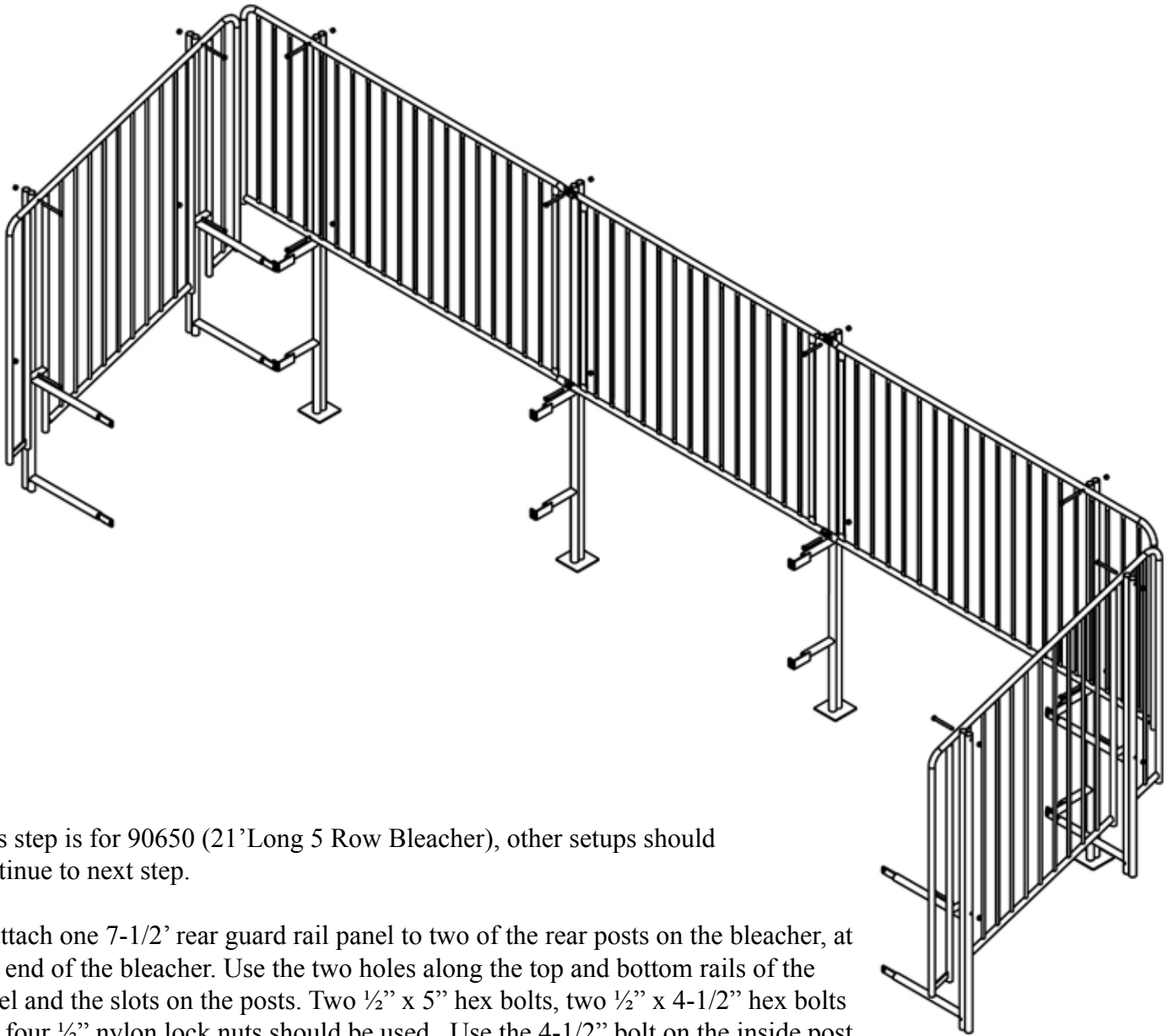


This step is for 90654 (15' Long Bleacher), other setups should continue to next step.

- Attach one 7-1/2' rear guard rail panel to two of the rear posts on the bleacher. Use the two holes along the top and bottom rails of the panel and the slots in the posts. Two 1/2" x 5" hex bolts, two 1/2" x 4-1/2" hex bolts and four 1/2"-13 nylon locknuts should be used. Use the 4-1/2" bolts on the middle post.
- Attach the second rear panel, in the next bay, as described above.
- Attach a side guard rail panel to the two side posts on the bleacher. Use the two holes along the top and bottom rails of the panel and the slots in the posts. Four 1/2" x 5" hex bolts and 1/2" nylon locknuts should be used.
- Attach second side guard rail panel, on opposite side of bleacher, as described above.

NOTE: Do tighten 1/2" hex nuts at this time.

# STEP 17

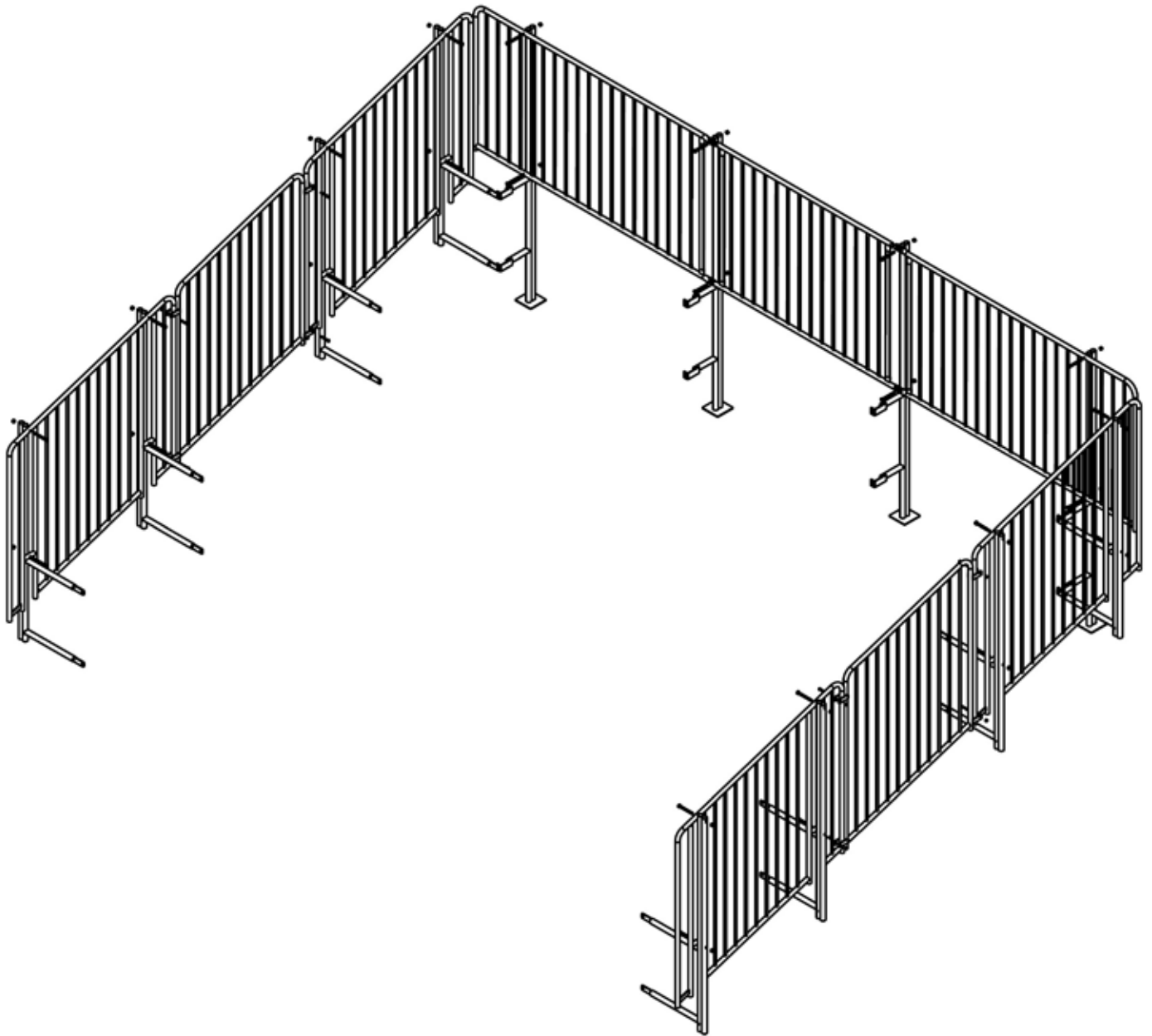


This step is for 90650 (21' Long 5 Row Bleacher), other setups should continue to next step.

- Attach one 7-1/2' rear guard rail panel to two of the rear posts on the bleacher, at one end of the bleacher. Use the two holes along the top and bottom rails of the panel and the slots on the posts. Two 1/2" x 5" hex bolts, two 1/2" x 4-1/2" hex bolts and four 1/2" nylon lock nuts should be used. Use the 4-1/2" bolt on the inside post.
- Attach the 6' rear guard rail panel onto the middle two posts on the bleacher. Use the two holes along the top and bottom rails of the panel and the slots at the top and bottom rails of the posts. Four 1/2" x 4-1/2" hex bolts and four 1/2" nylon locknuts should be used.
- Attach the second 7-1/2' rear panel, in the last bay, as described in the first step.
- Attach a side guard rail panel to the two side posts on the bleacher. Use the two holes along the top and bottom rails of the panel and the slots at the top of the posts. Four 1/2" x 5" hex bolts and 1/2" nylon locknuts should be used.
- Attach second side guard rail panel, on opposite side of bleacher, as described above.

NOTE: Tighten 1/2" hex nuts at this time.

# STEP 18



This step is for 90641 (21' Long 10 Row Bleacher).

- Follow step 17 for attaching the rear guard rail panels and back side guard panels.
- Attach the front side guard panels using the same procedure that was used to fasten the back side guard panels.
- Attach the side intermediate guard panels between the front and back side guard panels. Use four 3/8" x 2-3/4" hex bolts and 3/8" nylon locknuts to secure each panel.