



12x14 RAYVEN GAZEBO

Model # 2105324

Owner's Manual & Assembly Instructions

MANUFACTURED BY:
Backyard Discovery
3305 Airport Drive
Pittsburg, KS 66762
800-856-4445



**INSTALLATION
SERVICES
AVAILABLE!***

Need a helping hand?

Let our team of professionals handle the installation for you!

GOCONFIGURE
888-888-5424

*Installation services are only available
to U.S. customers.

average 2 person assembly time



assembly time may vary based on skill level

Before you begin

**FOR QUICK &
EASY ASSEMBLY**
FIND 3D INSTRUCTIONS
FOR THIS PRODUCT IN

BILT.

DOWNLOAD THE FREE APP



For the most up to date assembly manual,
to register your set, or to order replacement parts please visit
www.backyarddiscovery.com

**SAVE THIS ASSEMBLY MANUAL FOR FUTURE REFERENCE IN THE EVENT THAT
YOU NEED TO ORDER REPLACEMENT PARTS.**

Para obtener instrucciones en español, visite www.backyarddiscovery.com



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With Go Configure, we bring you 18 years of experience right to your doorstep. We service a wide array of indoor and outdoor recreation products that most consumers don't have the time or ability to deliver & install themselves.

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-
- 18+ Years of Experience Servicing Big Box Retailers and Direct Consumers
 - Highly Skilled, Specialized, Courteous, Professional Service Technicians
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The store where you made your purchase
does not stock parts for this item.
If you have assembly questions or you are missing or
have damaged parts, please call

1-800-856-4445

you can also visit www.backyarddiscovery.com
or e-mail customerservice@backyarddiscovery.com

Please have the following information ready when you make your call:

- Model Number of the product located on the front of the assembly manual
- The item description and number from the parts list from the manual that was included in your box

-
- Read entire assembly manual, paying special attention to the important tips and safety information.
 - To ensure there are no missing pieces do a complete inventory by first separating and identifying all parts.
 - Make sure to check packing material for small parts that may have fallen out during shipment.
 - Structures are not intended for public use. The Company does not warranty any of its residential structures subjected to commercial use.
 - This manual contains helpful information concerning assembly preparation, installation procedure and required maintenance.
 - Always keep safety in mind as your structure is being built.
 - Keep these instructions for future reference.



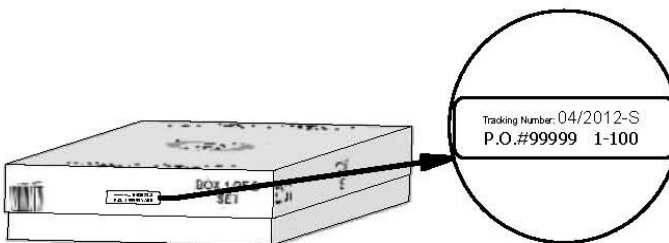
Please read entire booklet completely before beginning the assembly process

Please retain these instructions and your receipt for future reference. Keep them in a safe place where you can refer to them as needed. In order to provide you with the most efficient service, it is required that you provide us with the part numbers when ordering parts.

For Your Records:

Please take time and fill out the information below. This information will be needed for warranty issues.

Where Purchased: _____
Date of Purchase: _____
Installation Date: _____
Installed by: _____
Tracking Number: _____



Tracking Number Reference Label

Tracking ID number on the carton and on the bottom of the vertical ID plate are included for tracking purposes associated with warranty claims.

This Limited Warranty by Backyard Discovery applies to products manufactured under the Backyard Discovery brand or its other brands including but not limited to Backyard Botanical, Adventure Playsets, and Leisure Time Products.

Backyard Discovery warrants that this product is free from defect in materials and workmanship for a period of one (1) year from the original date of purchase. This one (1) year warranty covers all parts including wood, hardware, and accessories. All wood carries a five (5) year pro-rated warranty against rot and decay. Refer to the schedule below for charges associated with replacement of parts under this Limited Warranty. In addition, Backyard Discovery will replace any parts within the first 30 days from date of purchase found to be missing from or damaged in the original packaging.

This warranty applies to the original owner and registrant and is non-transferable. Regular maintenance is required to assure maximum life and performance of this product. Failure by the owner to maintain the product according to the maintenance requirements may void this warranty. Maintenance guidelines are provided in the Owner's Manual.

This Limited Warranty does not cover:

- Labor for any inspection
- Labor for replacement of any defective item(s)
- Incidental or consequential damages
- Cosmetic defects which do not affect performance or integrity of a part or the entire product
- Vandalism, improper use, failure due to loading or use beyond the capacities stated in the applicable Assembly Manual.
- Acts of nature including but not limited to wind, storms, hail, floods, excessive water exposure
- Improper installation including but not limited to installation on uneven, unlevel, or soft ground
- Minor twisting, warping, checking, or any other natural occurring properties of wood that do not affect performance or integrity

Backyard Discovery products have been designed for safety and quality. Any modifications made to the original product could damage the structural integrity of the unit leading to failure and possible injury. Modification voids any and all warranties and Backyard Discovery assumes no liability for any modified products or consequences resulting from failure of a modified product.

This product is warranted for RESIDENTIAL USE ONLY. Under no circumstance should a Backyard Discovery product be used in public settings. Such use may lead to product failure and potential injury. Any and all public use will void this warranty. Backyard Discovery disclaims all other representations and warranties of any kind, express or implied.

Pro Rated Part Replacement Schedule

Product Age

All Parts

0-30 days from date of purchase
31 days to 1 year

Wood Rot and Decay Only

1 year
2 year
3 year
4 year
5 year
Over 5 years

Customer Pays

\$0 and free shipping
\$0 + S&H

\$0 and free shipping
20% + S&H
40% + S&H
60% + S&H
80% + S&H
100% + S&H



WARNING

IT IS IMPORTANT TO CHECK AND TIGHTEN ALL HARDWARE AT THE BEGINNING AND DURING THE SEASON AS THEY MAY LOOSEN DUE TO WOOD EXPANSION AND CONTRACTION.

- **DO NOT climb or walk on the roof for any reason**
- **Requires two or more people to assemble safely**
- **Check for underground utilities before digging or driving stakes into the ground.**
- **Check carefully for overhead lines and ensure there is at least 6ft (2m) clearance from any overhead electrical wires.**
- **Permanent structures may require a building permit. As the purchaser and or installer of this product you are advised to consult local planning, zoning and building inspection departments for guidance on applicable building codes and/or zoning requirements.**
- Wood is NOT flame retardant and will burn. Grills, fire pits and chimineas are a fire hazard if place too close to your structure.
- Wear gloves to avoid injury during installation.
- During installation, follow all safety warnings provided with your tools and use safety glasses.
- Check all nuts and bolts twice monthly during the usage season and tighten as required.(But not so tight that you crack the wood) It is particularly important that this procedure be followed at the beginning of each season.
- Oil all metallic moving parts monthly during the usage period.
- Check all coverings for bolts and sharp edges twice monthly during usage season to be certain they are in place. Replace when necessary. It is especially important to do this at the beginning of each new season.
- For rusted areas on metallic members such as hinges, brackets, etc. sand and repaint, using a non lead-based paint meeting the requirements of Title 16 CRF Part 1303.
- Inspect wood parts monthly. The grain of the wood sometimes will lift in the dry season causing splinters to appear. Light sanding may be necessary to maintain a safe environment. Treating your Product with protection (sealant) after sanding will help prevent severe checking/splitting and other weather damage.
- We have applied a waterborne translucent stain to your unit. This is done for color only. Once or twice a year, depending on your climate conditions, you must apply some type of protection (sealant) to the wood of your unit. Prior to the application of sealant, lightly sand any "rough" spots on your set. Please note this is a requirement of your warranty.

OWNERS SHALL BE RESPONSIBLE FOR MAINTAINING THE LEGIBILITY OF THE WARNING LABELS



Your Backyard Discovery structure is designed and constructed of quality materials. As with all outdoor products it will weather and wear. To maximize the enjoyment, safety and life of your structure it is important that you properly maintain it.

About Our Wood

Backyard Discovery uses 100% Nordic Spruce wood. Although we take great care in selecting the best quality lumber available, wood is still a product of nature and susceptible to weathering which can change the appearance of your set.

What causes weathering? Does it affect the strength of my product?

One of the main reasons for weathering is the effects of water (moisture); the moisture content of the wood at the surface is different than the interior of the wood. As the climate changes, moisture moves in or out of the wood, causing tension which can result in checking and or warping. You can expect the following due to weathering. These changes will not affect the strength of the product:

1. Checking is surface cracks in the wood along the grain. A post (4" x 4") will experience more checking than a board (1" x 4") because the surface and interior moisture content will vary more widely than in thinner wood.

2. Warping results from any distortion (twisting, cupping) from the original plane of the board and often happens from rapid wetting and drying of the wood.

3. Fading happens as a natural change in the wood color as it is exposed to sun-light and will turn grey over time.

How can I reduce the amount of weathering to wood product?

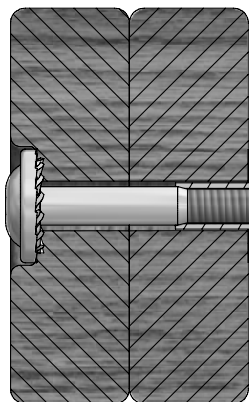
1. Your wood product is coated with a water-based stain. Sunlight will break down the coating, so we recommend applying a water repellent or stain on a yearly basis (see your local stain and paint supplier for a recommended product). You must apply some type of protection (sealant) to the wood of your product. **Please note this is a requirement of your warranty.** Most weathering is just the normal result of nature and will not affect safety. However if you are concerned that a part has experienced a severe weathering problem please call our customer service department for further assistance.

2. Inspect wood parts monthly. The grain of the wood sometimes will lift in the dry season causing splinters to appear. Light sanding may be necessary to maintain a safe environment. Treating your Product with protection (sealant) after sanding will help prevent severe checking/ splitting and other weather damage.



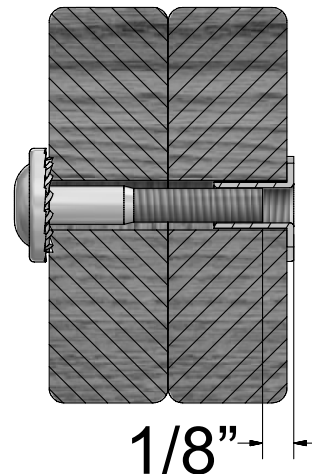
Protrusion Hazard

Incorrect



If you see exposed threads and your bolt protrudes beyond the T-Nut you may have over tightened the bolt or used incorrect hardware. If you've overtightened, remove the bolt and add washers to eliminate the protrusion.

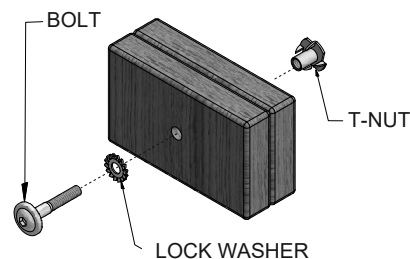
Correct



Proper Hardware Assembly

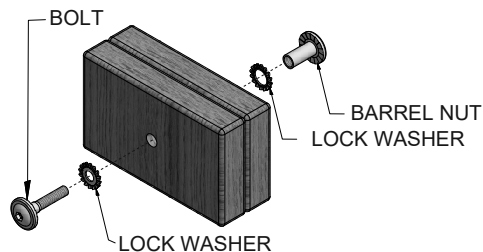
Bolt and T-Nut Assembly

Tap T-nut into the provided hole. Insert your bolt through the lock washer and insert into the provided hole opposite from the T-Nut. Turn clockwise to thread into T-nut. Do not completely tighten until instructed.



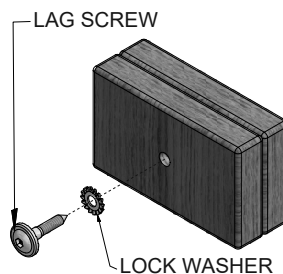
Bolt and Barrel Nut Assembly

Insert barrel nut through the lock washer and press the pair through the provided hole. Insert your bolt through the second lock washer and insert the pair into the provided hole opposite from the barrel nut. Turn clockwise to thread into the barrel nut. Do not completely tighten until instructed.



Lag Assembly

Normally there will be a pre-drilled pilot hole on assemblies that require a Lag Screw. If there is no pilot hole, line up the two boards as they are to be attached and use the factory drilled hole as a guide to drill another pilot hole into the adjoining board. This will keep the wood from splitting. Only a lock washer is required for steps with Lag Screws.

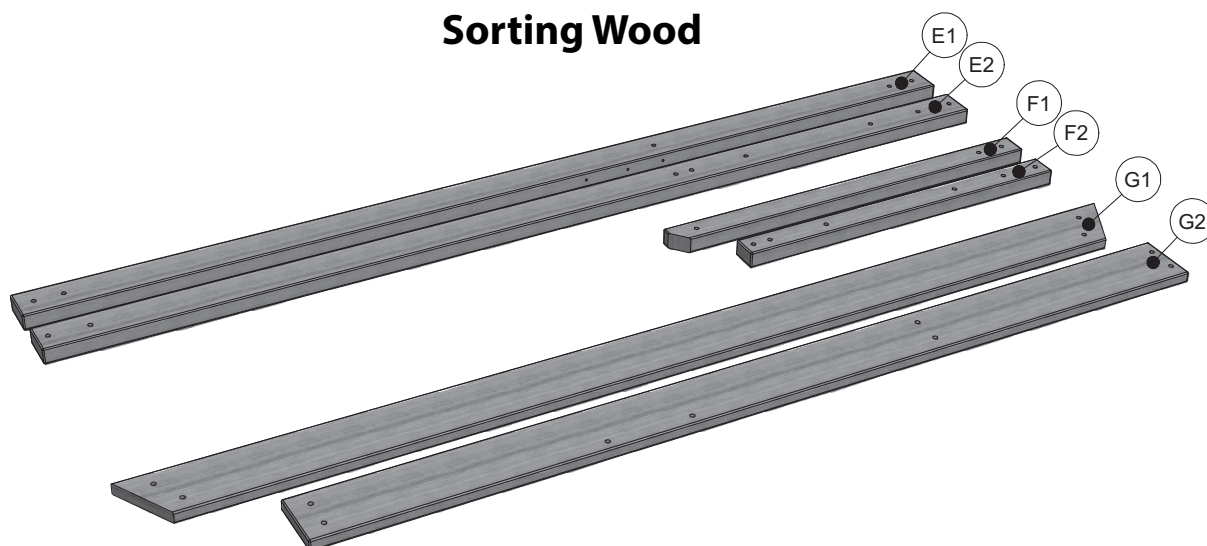




ASSEMBLY TIP:

Keep and eye out for these boxes which will contain helpful pictures and information making the assembly process as quick and painless as possible.

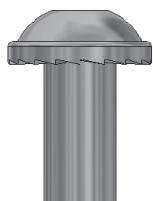
Sorting Wood



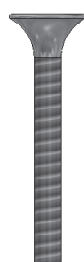
When removing the wood from the boxes we recommend arranging them by part number before you begin assembly. This will allow for faster assembly and easily identify any parts that may be missing or damaged.

Sorting Hardware

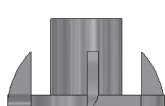
NUT BARREL
H100545



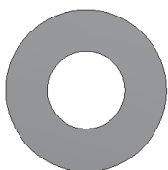
SCREW
H100695



T-NUT
H100699



WASHER FLAT
H100706



BOLT HEX
H100716



BOLT
H100718



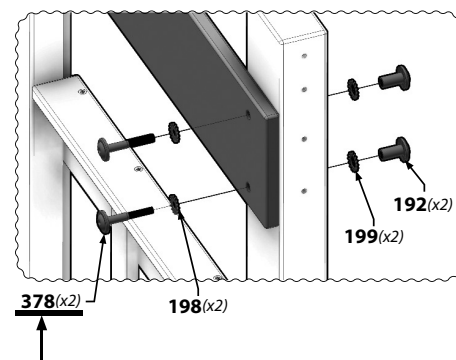
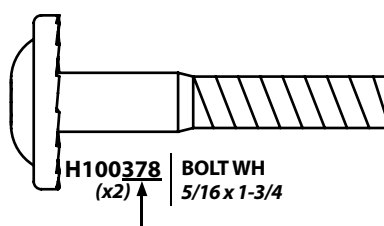
SCREW PWH
H100742

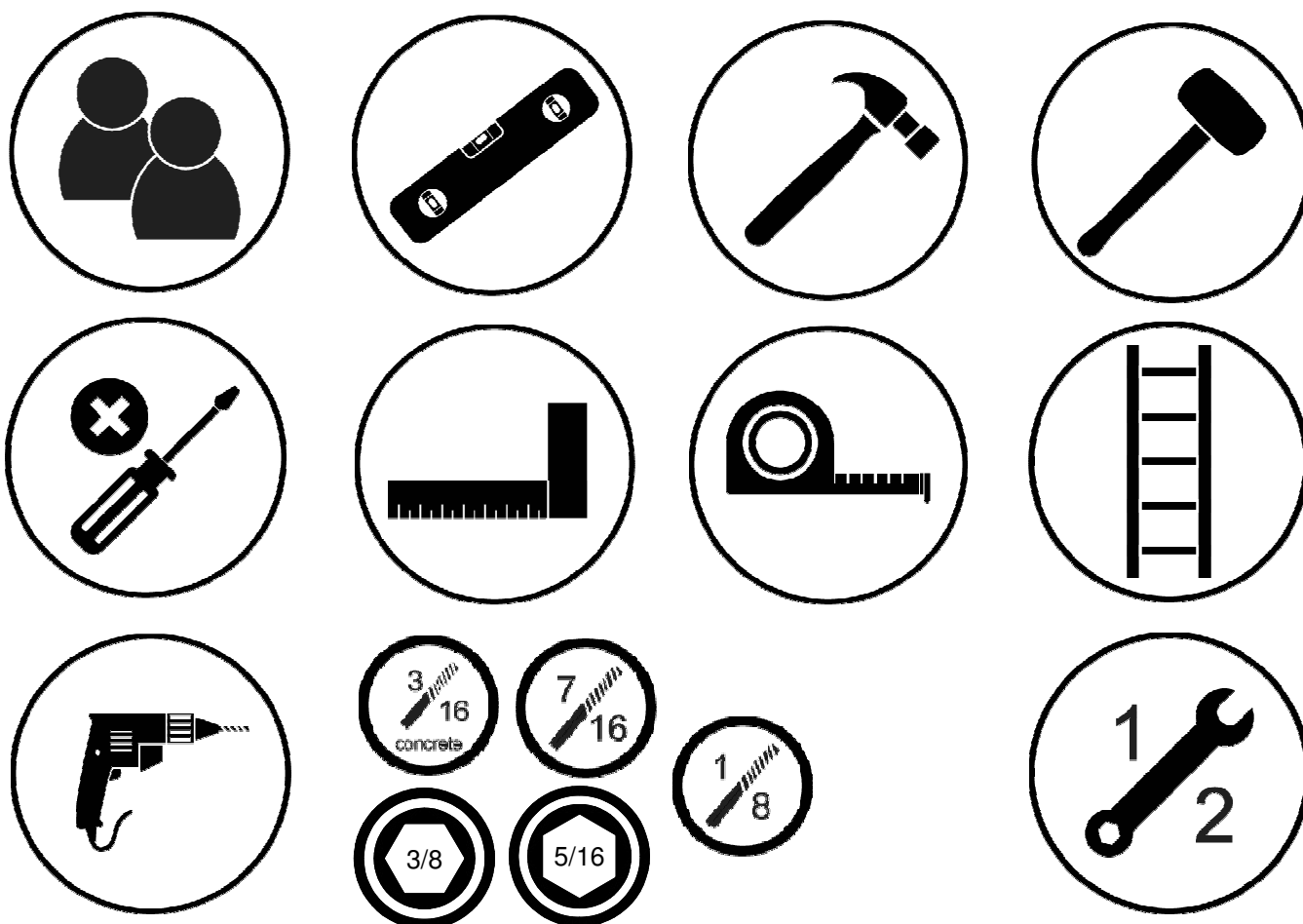


To help with assembly we recommend sorting your hardware bags with the seven digit alpha-numeric number printed on the bags or by hardware type (i.e. bolts, nuts, etc.). Organizing your hardware will make assembly easier.

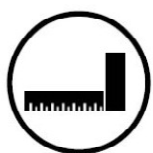
Hardware Identification

Hardware bags are printed with a seven digit alpha-numeric part number. During assembly you only need to reference the last three digits of the part number as noted in each step. This will make finding the correct hardware easier.





Icons and their uses you will see throughout this manual



You will need to make sure that your assembly is square before tightening your bolts.



For proper assembly you will need to ensure that your structure is level before proceeding to the next step.



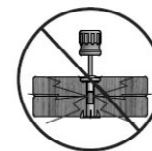
Some steps in the assembly process will require an extra set of hands. Make sure you have a helper available.



This icon shows the size of an open ended wrench. Using the wrench as the fraction bar.



When you see this icon you will need a socket wrench. The icons below show the size of attachments needed for assembly 1/2.



This icon warns you to not over tighten your bolts. This is to prevent structural damage and also splintering your wood.



A ladder will be needed for assembly. Do NOT stand on the set when it is incomplete, unstable, and not anchored. Failure to do so may result in injury.



This icon will show you what drill attachments are needed. For this example you will need a Phillips head attachment and 3/8 drill bit.

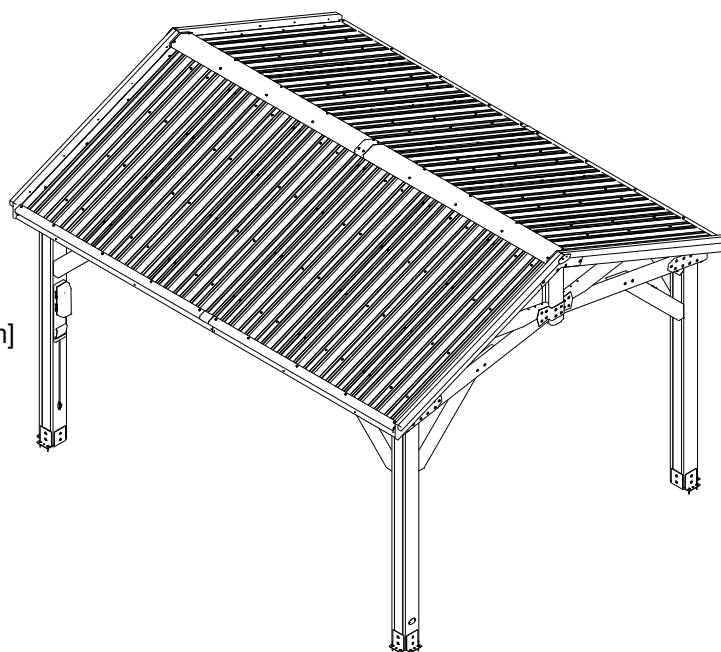
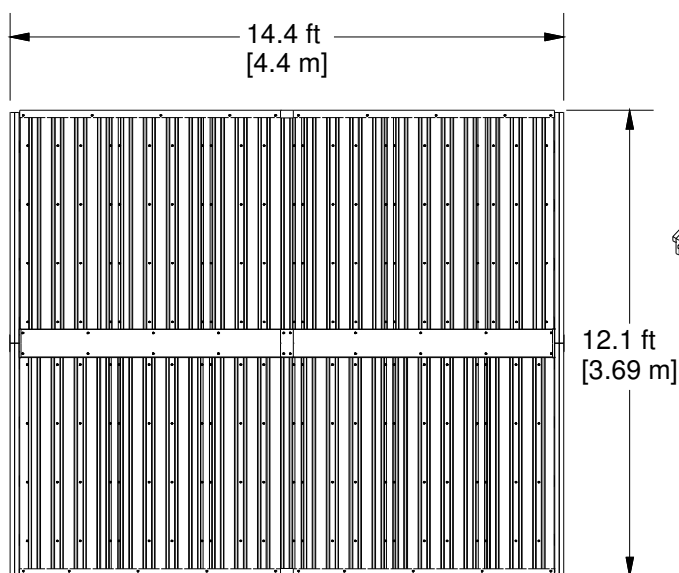
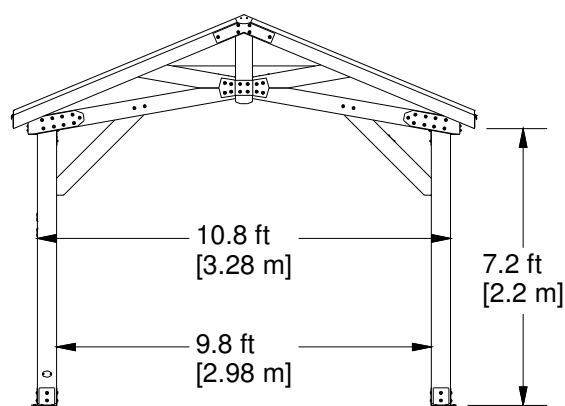
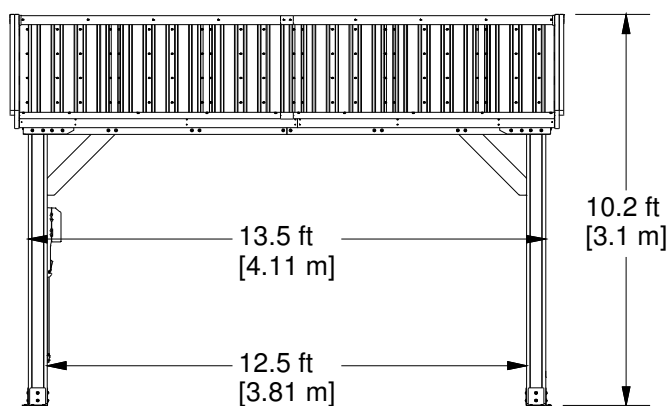


It is critically important that you start with square and level footings, concrete pad or deck to attach your structure

- Pay close attention to the items needed for each step. Make sure you are using the correct hardware for each step. Using incorrect hardware may result in improper assembly
- Remember to double check for underground utilities and overhead electrical lines

Post mounts are provided with your structure which allows you to permanently install your structure to a pre-existing or new wood or concrete surface.

- The hardware to attach the post mounts to the structure is included.
- The hardware to mount the structure permanently to a concrete surface is included.
- The hardware to mount the structure permanently to a wood deck is NOT included and will need to be purchased separately. You must ensure there is ample structural support under the deck before permanently attaching.





Wood Components (Not to Scale)



D01 | GABLE BOARD - W4L14992
(x4) | 1 3/8"x5 1/4"x24 1/4" (36x134x615)



D02 | TOP RAIL - W4L14998
(x4) | 1 3/8"x5 1/4"x53 3/4" (36x134x1366)



D03 | TOP RAIL - W4L14994
(x2) | 1 3/8"x5 1/4"x57" (36x134x1448)



D04 | CORBEL - W4L14997
(x4) | 1 3/8"x5 1/4"x35 7/8" (36x134x910)



D05 | GABLE BOARD - W4L14995
(x2) | 1 3/8"x1 1/2"x5 1/4" (36x38x134)



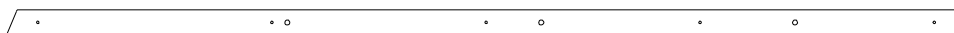
D06 | CORBEL - W4L14996
(x3) | 1 3/8"x5 1/4"x45 5/8" (36x134x1160)



D07 | TOP RAIL - W4L15038
(x4) | 1 3/8"x5 1/4"x82 1/4" (36x134x2091)



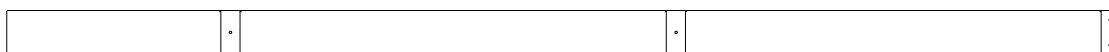
E01 | RAFTER - W4L14988
(x8) | 1 3/8"x3 3/8"x76 3/8" (36x86x1941)



E02 | TRUSS - W4L15001
(x4) | 1 7/16"x1 15/16"x74 15/16" (36x50x1903)



E03 | SHEATHING BOARD - W4L14989
(x8) | 1 3/8"x3 3/8"x80 3/8" (36x86x2040)



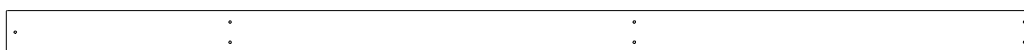
E04 | SHEATHING BOARD - W4L14990
(x8) | 1 3/8"x3 3/8"x87" (36x86x2209)



E05 | RAFTER - W4L15004
(x4) | 1 3/8"x3 3/8"x76 3/8" (36x86x1941)



E06 | ACCESSORY TRUSS - W4L14991
(x2) | 1 3/8"x3 3/8"x73 13/16" (36x86x1875)



H02 | FASCIA - W4L14987
(x2) | 1"x3 3/8"x80 3/8" (24x86x2040)



H03 | FASCIA - W4L14993
(x2) | 1"x3 3/8"x87" (24x86x2209)



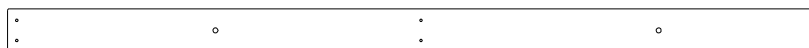
H04 | RAFTER - W4L14999
(x2) | 1"x3 3/8"x89 1/4" (24x86x2267)



Wood Components (Not to Scale)



H05 | RAFTER - W4L15000
(x2) | 1"x3 3/8"x69 1/2" (24x86x1766)



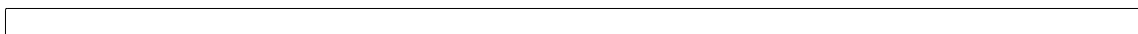
H06 | FASCIA - W4L15005
(x2) | 1"x3 3/8"x63 1/2" (24x86x1614)



H07 | FASCIA - W4L15006
(x2) | 1"x3 3/8"x70 1/8" (24x86x1783)



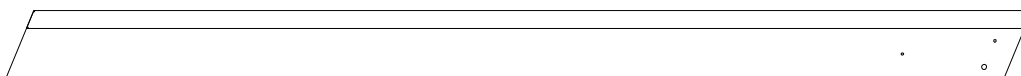
J09 | RIDGE CAP STIFFENER - W4L15002
(x2) | 1"x2 3/8"x77 5/8" (24x60x1973)



J10 | RIDGE CAP STIFFENER - W4L15003
(x2) | 1"x2 3/8"x89 1/2" (24x60x2273)



CA01 | CORBEL - W2A02879
(x1) | 1 7/16"x5 3/8"x46 1/16" (36x136x1160)



GP1 | GABLE PANEL - W2A02871
(x2) | 2 13/16"x5 1/4"x80 3/16" (72x134x2037)



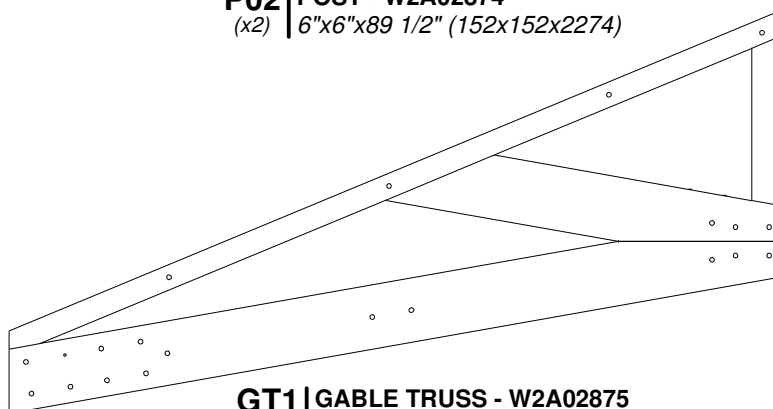
GP2 | GABLE PANEL - W2A02872
(x2) | 2 13/16"x5 1/4"x80 3/16" (72x134x2037)



P01 | POST - W2A02873
(x2) | 6"x6"x89 1/2" (152x152x2274)



P02 | POST - W2A02874
(x2) | 6"x6"x89 1/2" (152x152x2274)



GT1 | GABLE TRUSS - W2A02875
(x4) | 1 7/16"x33 5/8"x64 9/16" (36x854x1640)



Hardware Components



H100195 | BOLT WH BLK
(x36) | 5/16x2-3/4



H100205 | BOLT WH BLK
(x38) | 5/16x2-1/4



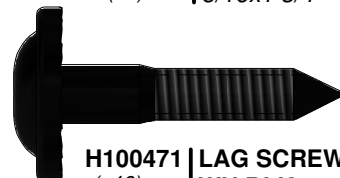
H100378 | BOLT WH BLK
(x9) | 5/16x1 3/4



H100416 | BOLT WH BLK
(x22) | 5/16x3



H100459 | BOLT WH BLK
(x9) | 5/16x1 1/4



H100471 | LAG SCREW
(x46) | WH BLK
5/16x1 1/2



H100503 | BOLT WH BLK
(x7) | 5/16x3-1/2



H100564 | LAG SCREW WH BLK
(x13) | 1/4x4



H100513 | BOLT WH BLK
(x18) | 5/16x4-1/4



H100792 | LAG SCREW WH BLK
(x9) | 1/4x3



H100881 | BOLT WH BLK
(x9) | 5/16x5



H100488 | BOLT WH BLK
(x9) | 1/4x2



H100976 | BOLT WH BLK
(x2) | 5/16x6 1/4



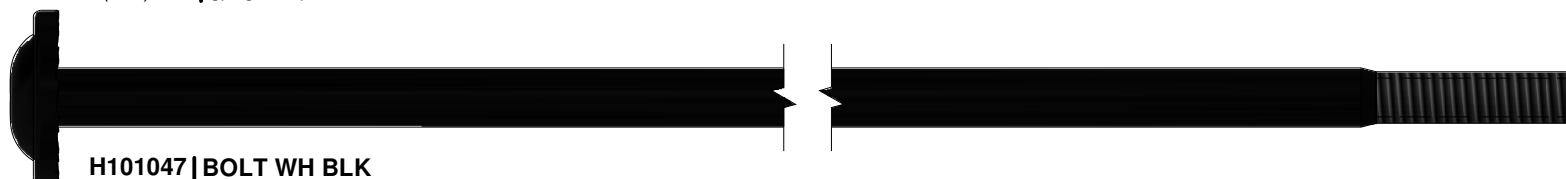
H100379 | T-NUT BLK
(x98) | 5/16



H100354 | BOLT WH BLK
(x4) | 5/16x6 1/2



H101046 | BOLT WH BLK
(x13) | 5/16x7 1/2



H101047 | BOLT WH BLK
(x18) | 5/16x9 3/4



Hardware Components



H100201 | SCREW PFH BLK
(x39) | 8x2-1/2



H100483 | SCREW PFH BLK
(x4) | 8x2 1/4



H100391 | SCREW PFH BLK
(x120) | 8x2



H100382 | SCREW PFH BLK
(x11) | 8x1 3/4



H100200 | SCREW PFH BLK
(x24) | 8x1 1/2



H100392 | SCREW PWH BLK
(x24) | 8x3/4



H100760 | SCREW WOODGRIP
(x188) | 10x1 1/4



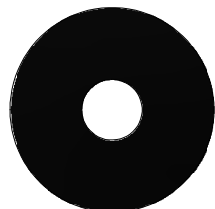
H100833 | SCREW WOODGRIP
(x22) | 10x3/4



H100759 | SCREW TAPPING
(x22) | 1/4x3/4



H100823 | SCREW PWH BLK
(x17) | 8x1-1/2



H100478 | WASHER FLAT BLK
(x82) | 8x27



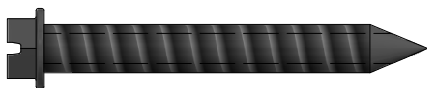
H100198 | WASHER LOCK EXT BLK
(x68) | 8x19



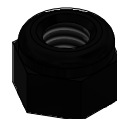
H100630 | WASHER FLAT BLK
(x26) | 8x19



H100405 | WASHER LOCK EXT BLK
(x22) | 6x15



H100120 | SCREW CONCRETE ANCHOR
(x18) | 1/4x2



H100479 | NUT LOCK BLK
(x76) | 5/16



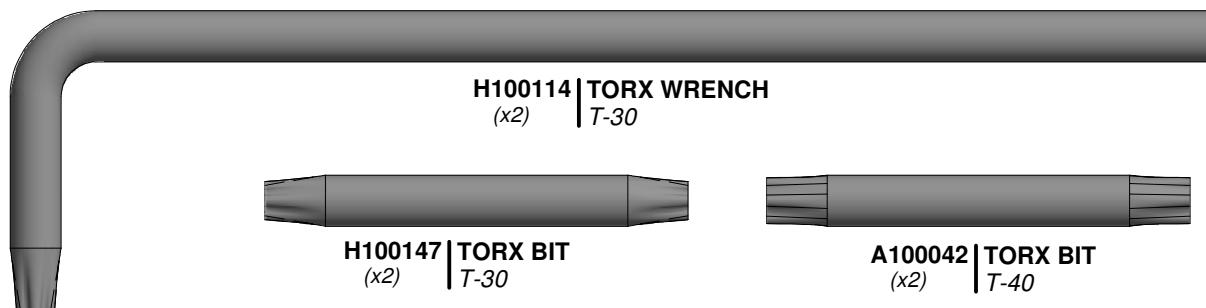
H100653 | NUT LOCK BLK
(x9) | 1/4



H100764 | SCREW SETTER
(x1)



H100659 | LAG SCREW BLK
(x4) | 5/16x1 1/2



H100114 | TORX WRENCH
(x2) | T-30

H100147 | TORX BIT
(x2) | T-30

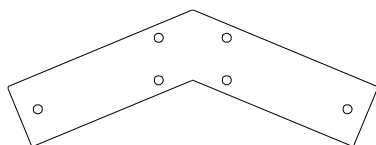
A100042 | TORX BIT
(x2) | T-40



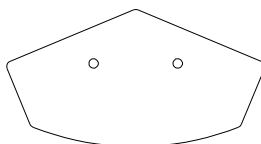
A100041 | TORX WRENCH
(x2) | T-40



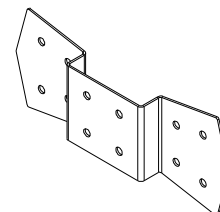
Accessory Components (Not to Scale)



A4M01130
(x2) | **GABLE BRACKET**



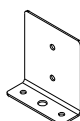
A4M01147
(x2) | **PEAK SEAM BRACKET**



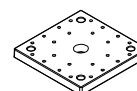
A4M01129
(x4) | **GABLE BRACKET**



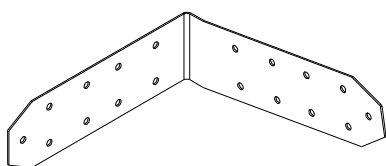
A4M00978
(x8) | **POST PLATE**



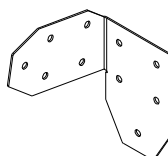
A4M00977
(x8) | **POST ANCHORING PLATE**



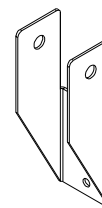
A6P00308
(x4) | **6x6 POST FOOT**



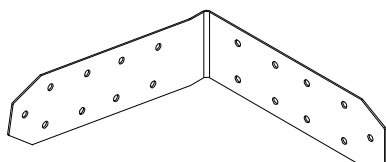
A4M01301
(x2) | **RIGHT OUTSIDE BRACKET**



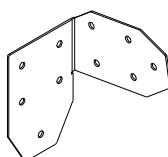
A4M01232
(x2) | **LEFT ANGLE BRACKET**



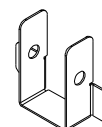
A4M01228
(x8) | **RAFTER BRACKET**



A4M01302
(x2) | **LEFT OUTSIDE BRACKET**



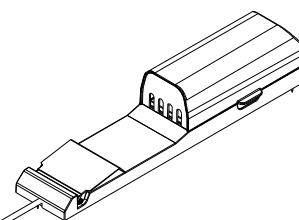
A4M01233
(x2) | **RIGHT ANGLE BRACKET**



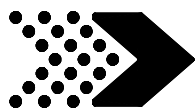
A4M01148
(x2) | **TRUSS BRACKET**



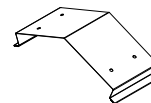
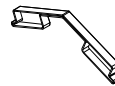
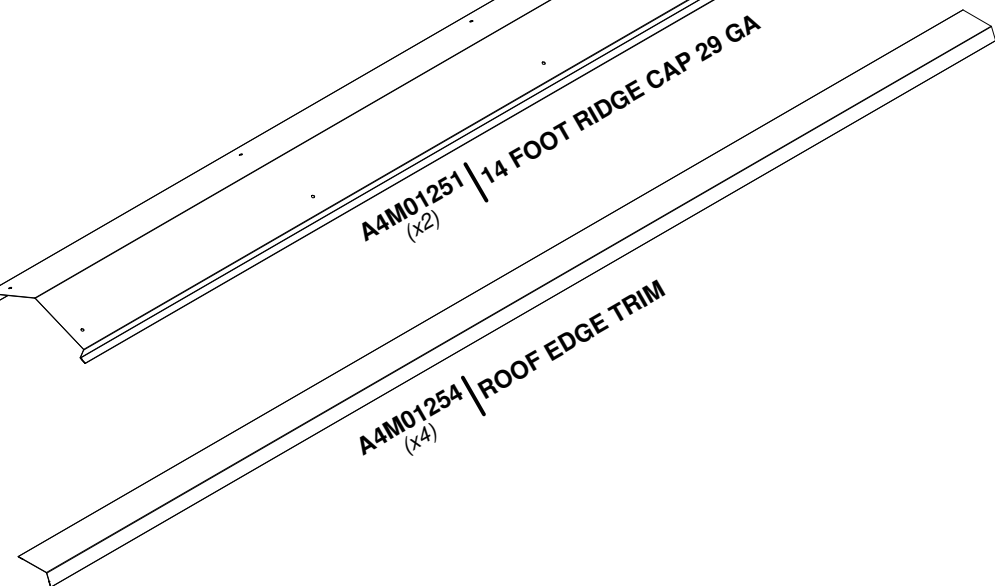
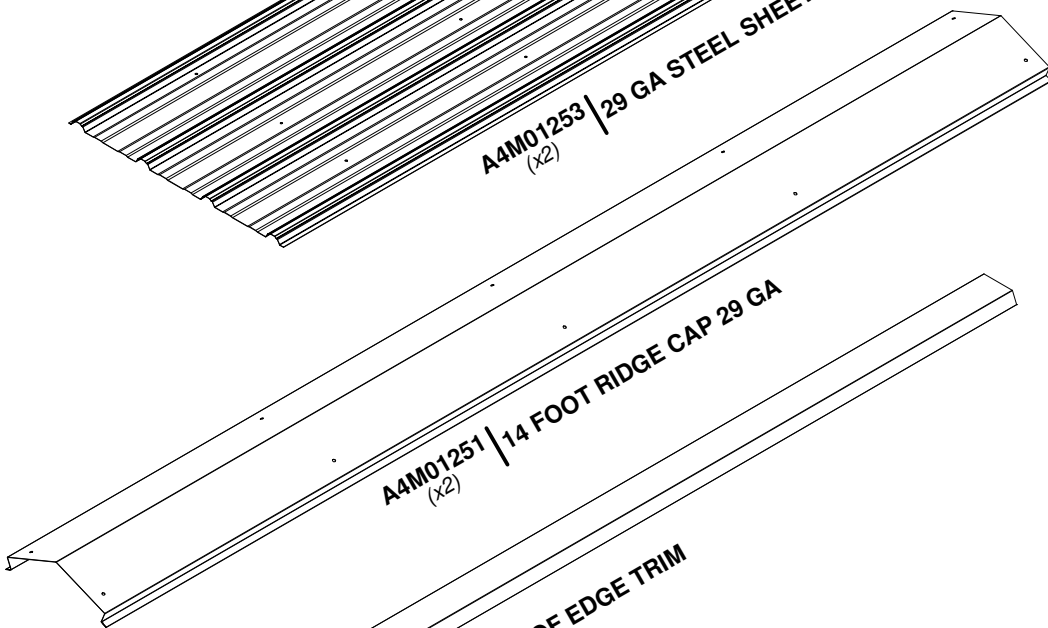
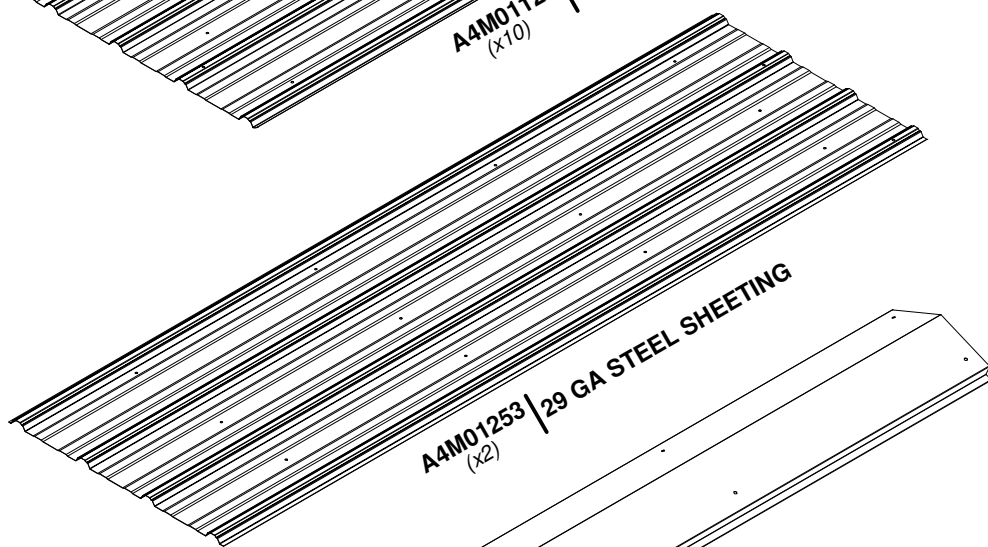
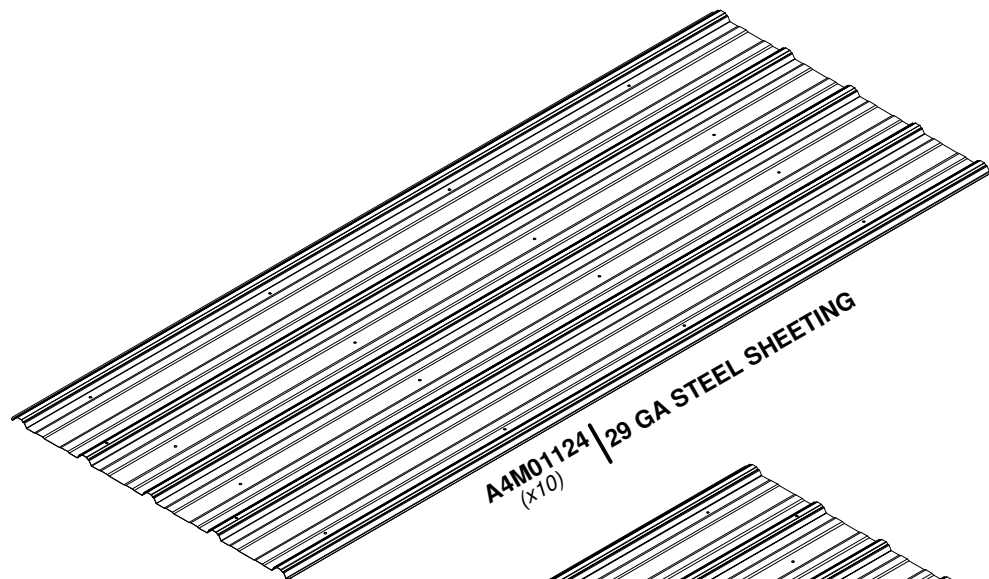
A100241
(x1) | **BYD ID TAG
(SMALL)
WITHOUT AGES**



9205413
(x1) | **ELECTRICAL ENCLOSURE**



Accessory Components (Not to Scale)

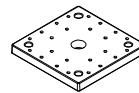




STEP 1

P01 | POST - W2A02873
(x2) | 6"x6"x89 1/2" (152x152x2274)

P02 | POST - W2A02874
(x2) | 6"x6"x89 1/2" (152x152x2274)



A6P00308 | 6x6 POST FOOT
(x4)



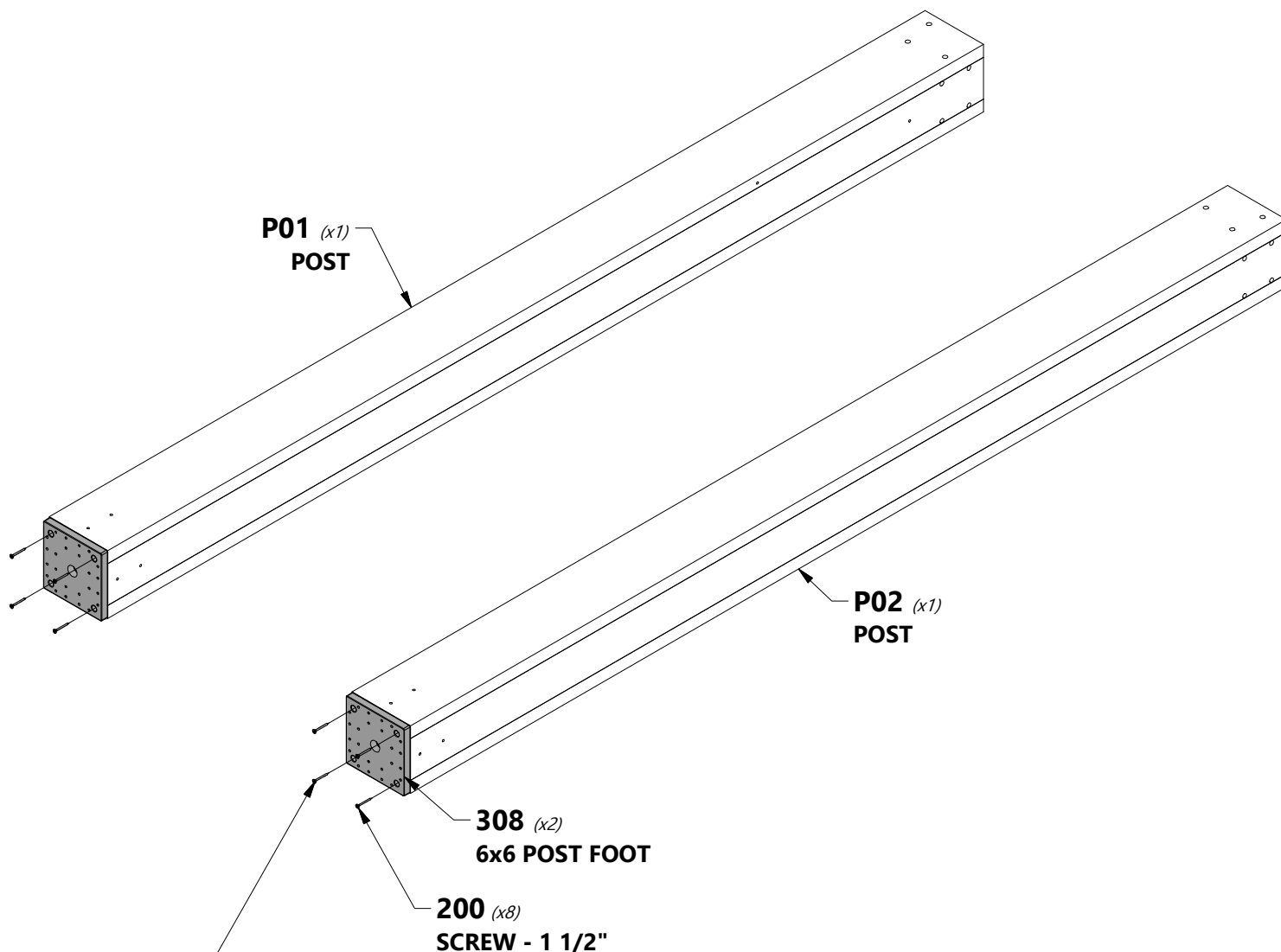
H100200 | SCREW PFH BLK
(x16) | 8x1 1/2

COMPLETE THIS STEP TWICE



TIP:

FOR EASE OF ASSEMBLY WE RECOMMEND
USING SAW HORSES FOR STEPS 1 THRU 6.

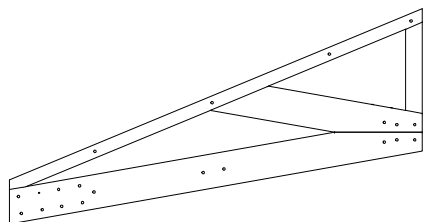


NOTE:

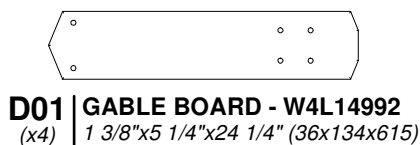
ALIGN POST FOOT & DRILL
1/8" PILOT HOLES FOR THE
ATTACHMENT HARDWARE.



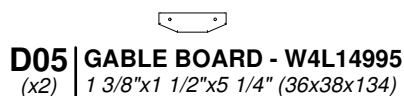
STEP 2



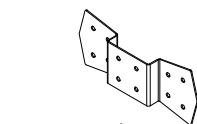
GT1 | GABLE TRUSS
(x4) | 1 7/16"x33 5/8"x64 9/16" (36x854x1640)



D01 | GABLE BOARD - W4L14992
(x4) | 1 3/8"x5 1/4"x24 1/4" (36x134x615)



D05 | GABLE BOARD - W4L14995
(x2) | 1 3/8"x1 1/2"x5 1/4" (36x38x134)



A4M01129 | GABLE BRACKET
(x4)



H100881 | BOLT WH BLK
(x8) | 5/16x5



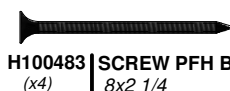
H100205 | BOLT WH BLK
(x16) | 5/16x2-1/4



H100479 | NUT LOCK BLK
(x24) | 5/16



H100478 | WASHER FLAT BLK
(x24) | 8x27

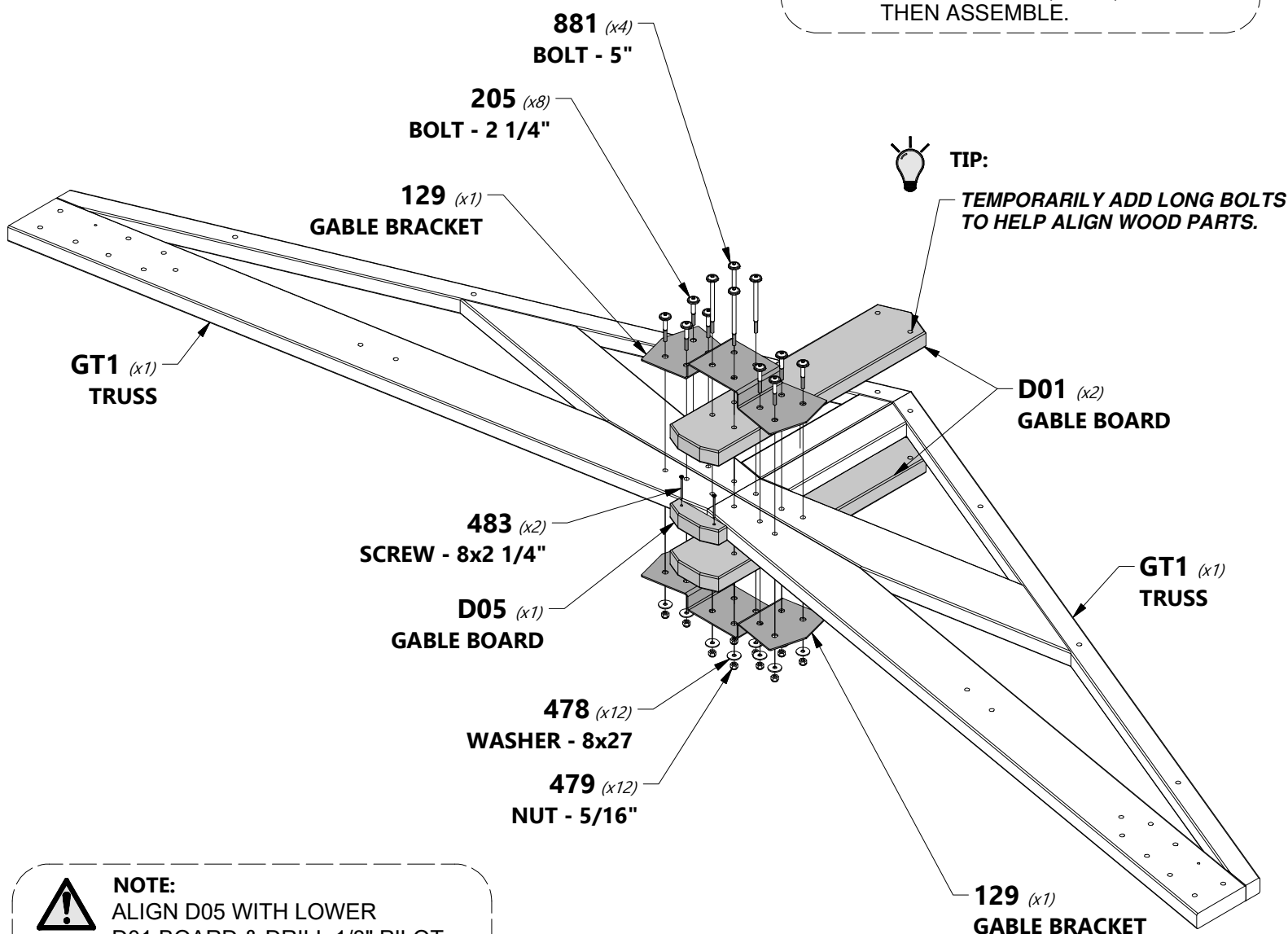


H100483 | SCREW PFH BLK
(x4) | 8x2 1/4

COMPLETE THIS STEP TWICE



NOTE:
IF NEEDED FOR EASE OF
ASSEMBLY, USE METAL BRACKET
AS A GUIDE AND DRILL THRU
USING A 7/16" - (10mm) DRILL BIT,
THEN ASSEMBLE.



TIP:

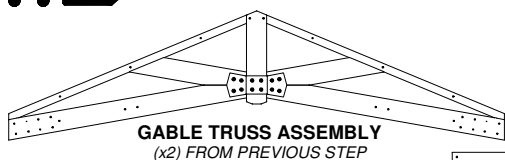
TEMPORARILY ADD LONG BOLTS
TO HELP ALIGN WOOD PARTS.



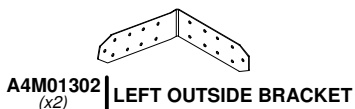
NOTE:
ALIGN D05 WITH LOWER
D01 BOARD & DRILL 1/8" PILOT
HOLES FOR
ATTACHMENT HARDWARE.



STEP 3A

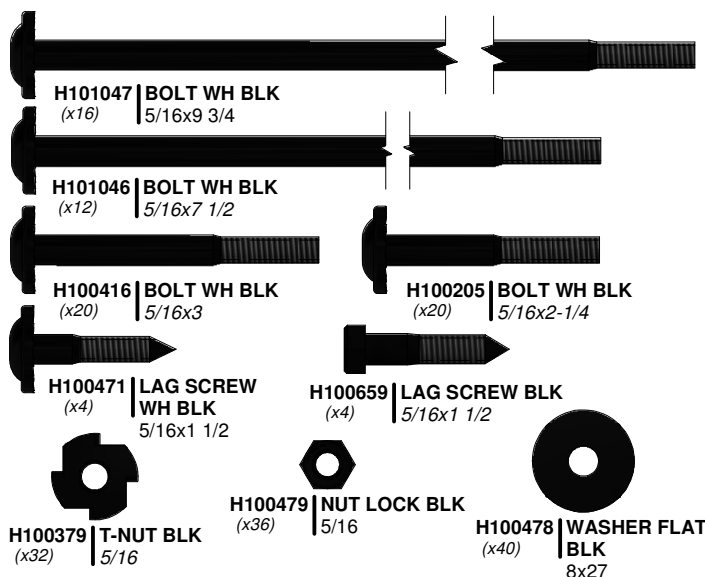


P01 | POST - W2A02873
(x2) | 6"x6"x89 1/2" (152x152x2274)

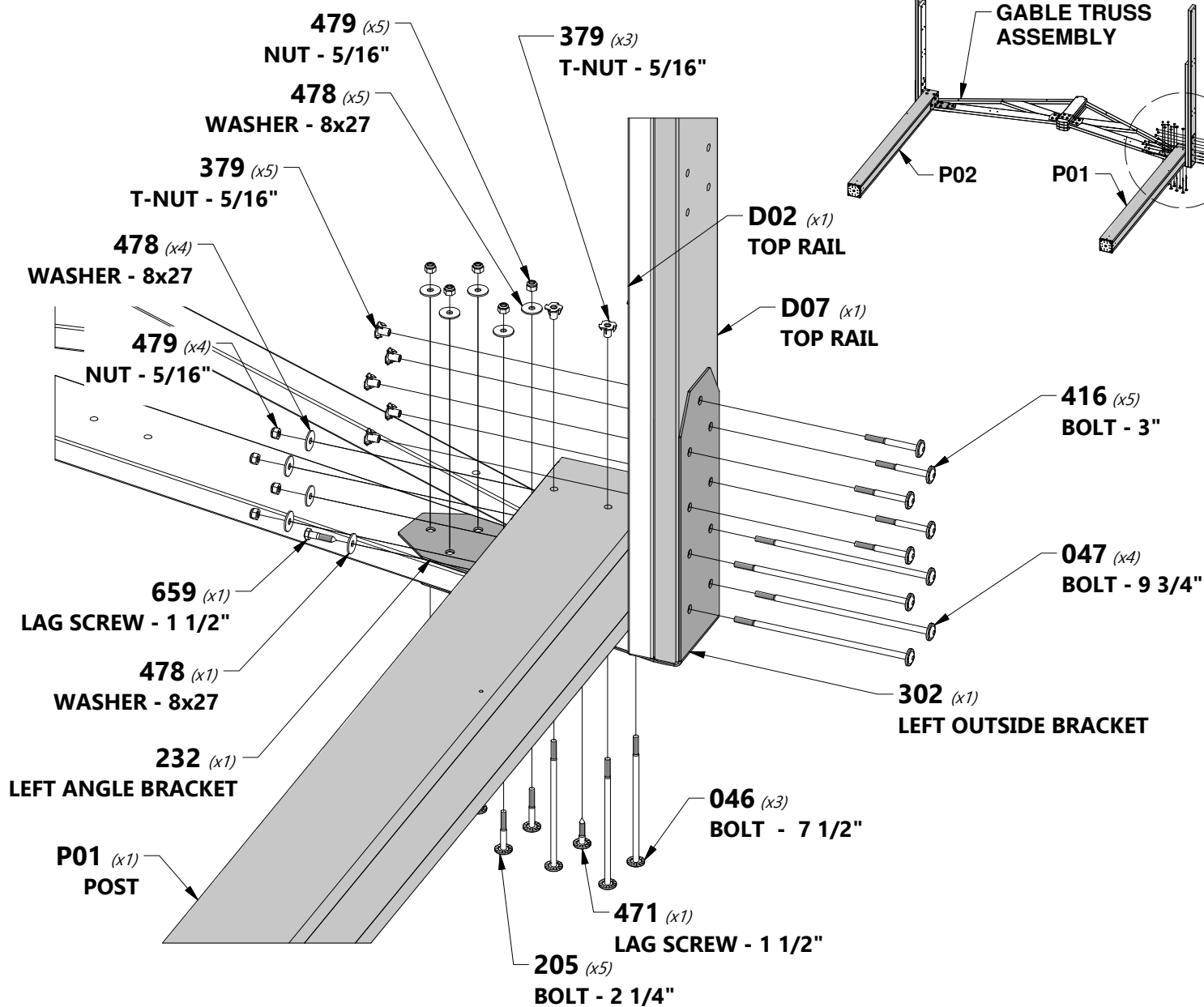


D02 | TOP RAIL - W4L14998
(x4) | 1 3/8"x5 1/4"x53 3/4" (36x134x1366)

P02 | POST - W2A02874
(x2) | 6"x6"x89 1/2" (152x152x2274)

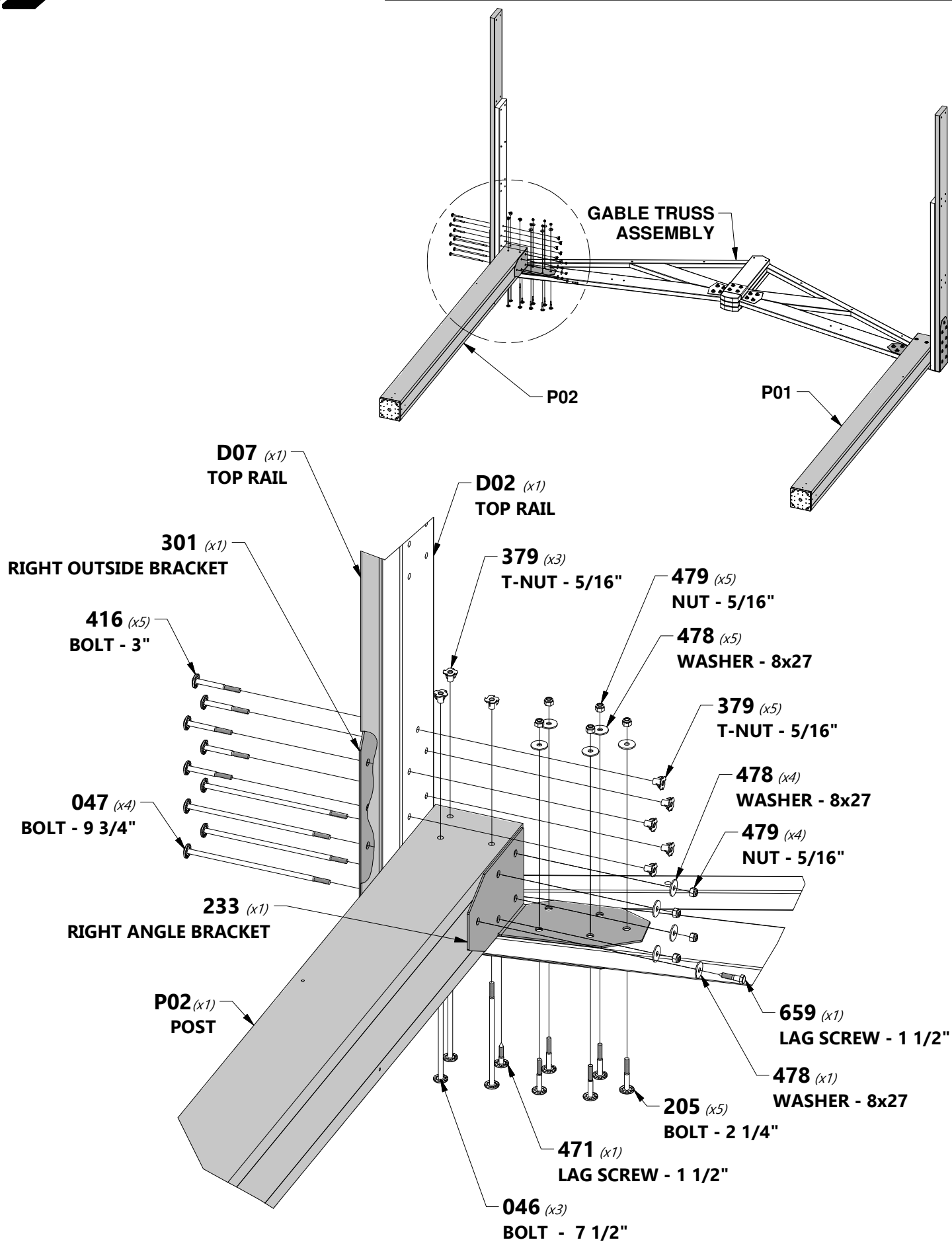


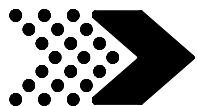
COMPLETE THIS STEP TWICE



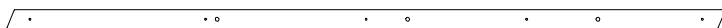


STEP 3B





STEP 4



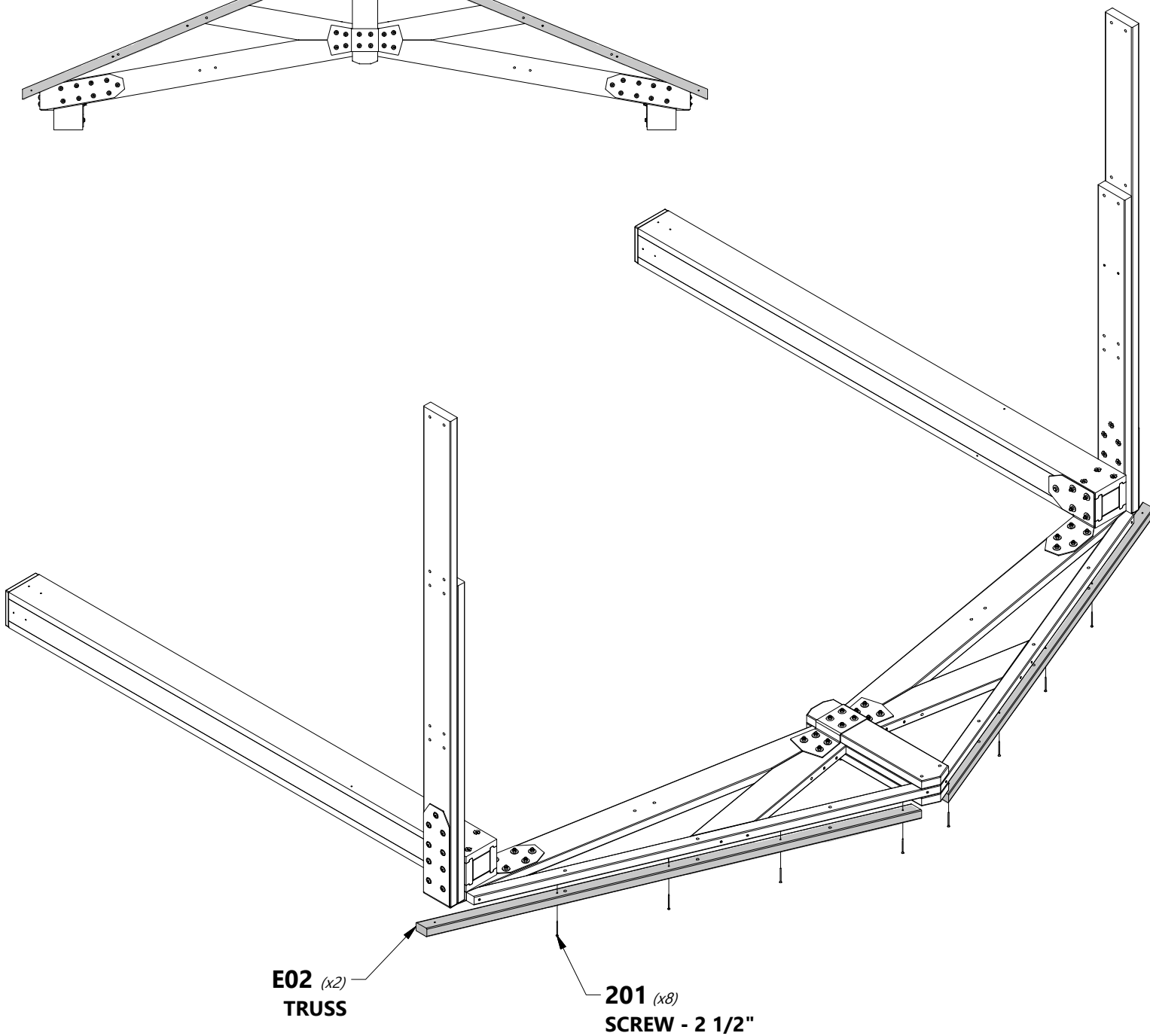
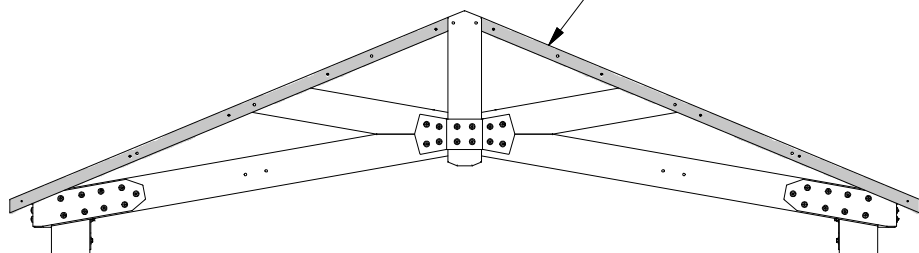
E02 | TRUSS - W4L15001
(x4) | 1 7/16"x1 15/16"x74 15/16" (36x50x1903)



H100201 | SCREW PFH BLK
(16) | 8x2-1/2

FLUSH TOPS

COMPLETE THIS STEP TWICE





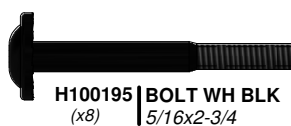
STEP 5



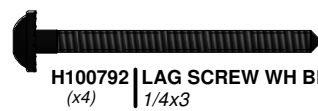
D06 | CORBEL - W4L14996
(x3) | 1 3/8"x5 1/4"x45 5/8" (36x134x1160)



CA01 | CORBEL - W2A02879
(x1) | 1 7/16"x5 3/8"x46 1/16" (36x136x1170)



H100195 | BOLT WH BLK
(x8) | 5/16x2-3/4



H100792 | LAG SCREW WH BLK
(x4) | 1/4x3



H100379 | T-NUT BLK
(x8) | 5/16



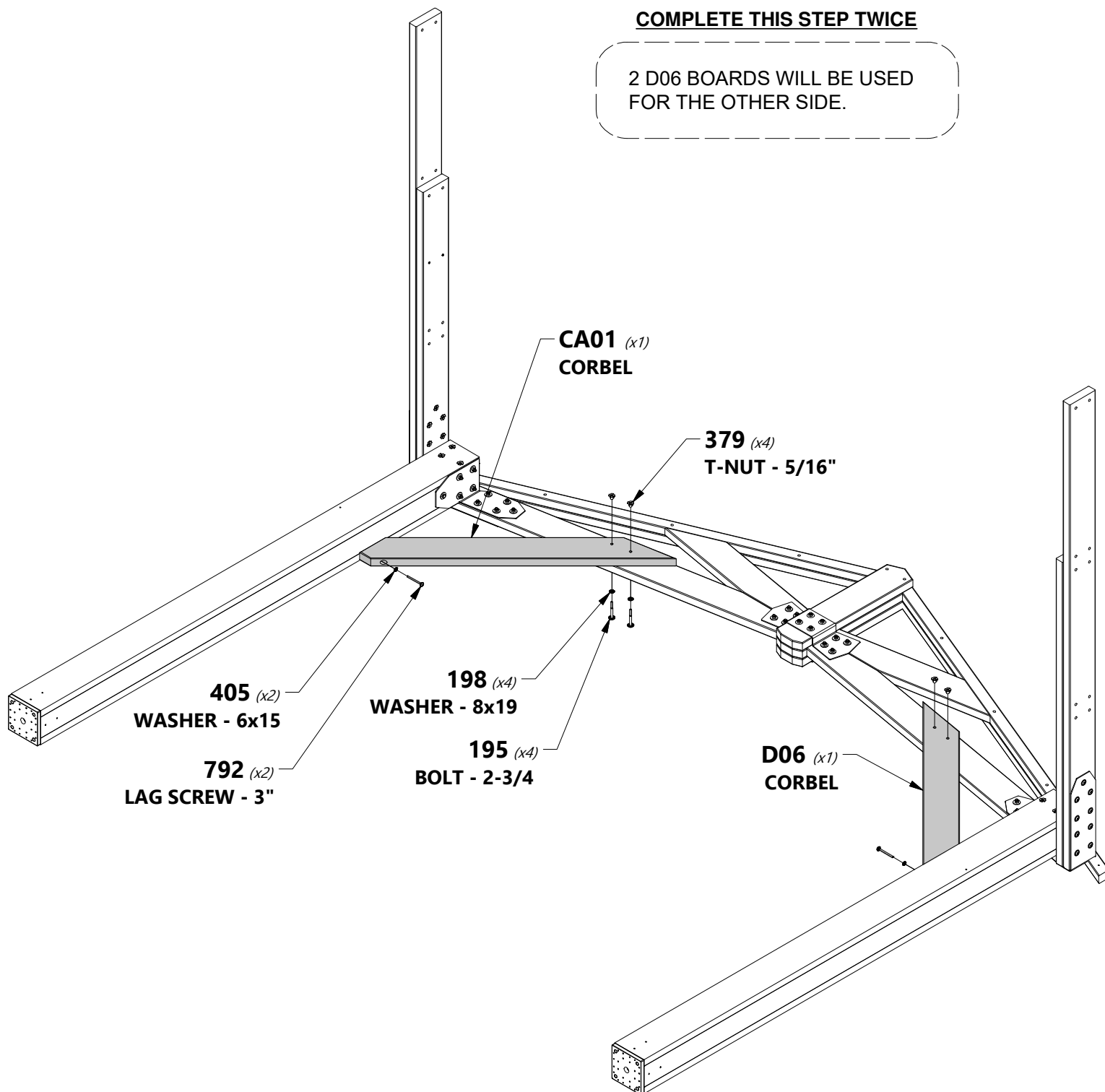
H100198 | WASHER LOCK
(x8) | EXT BLK
8x19



H100405 | WASHER LOCK
(x4) | EXT BLK
6x15

COMPLETE THIS STEP TWICE

2 D06 BOARDS WILL BE USED
FOR THE OTHER SIDE.





STEP 6



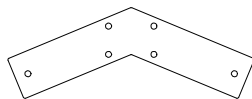
GP1 | GABLE PANEL - W2A02871
(x2) | 2 13/16"x5 1/4"x80 3/16" (72x134x2037)



GP2 | GABLE PANEL - W2A02872
(x2) | 2 13/16"x5 1/4"x80 3/16" (72x134x2037)



A4M01147 | PEAK SEAM
(x2) | BRACKET



A4M01130 | GABLE BRACKET
(x2)



H100564 | LAG SCREW WH BLK
(x12) | 1/4x4



H100405 | WASHER LOCK
(x12) | EXT BLK
6x15



H100471 | LAG SCREW
(x8) | WH BLK
5/16x1 1/2

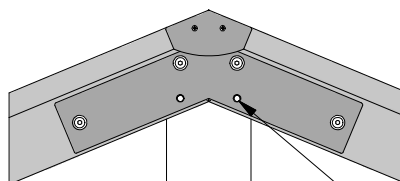


H100200 | SCREW PFH BLK
(x4) | 8x1 1/2



H100201 | SCREW PFH BLK
(x4) | 8x2-1/2

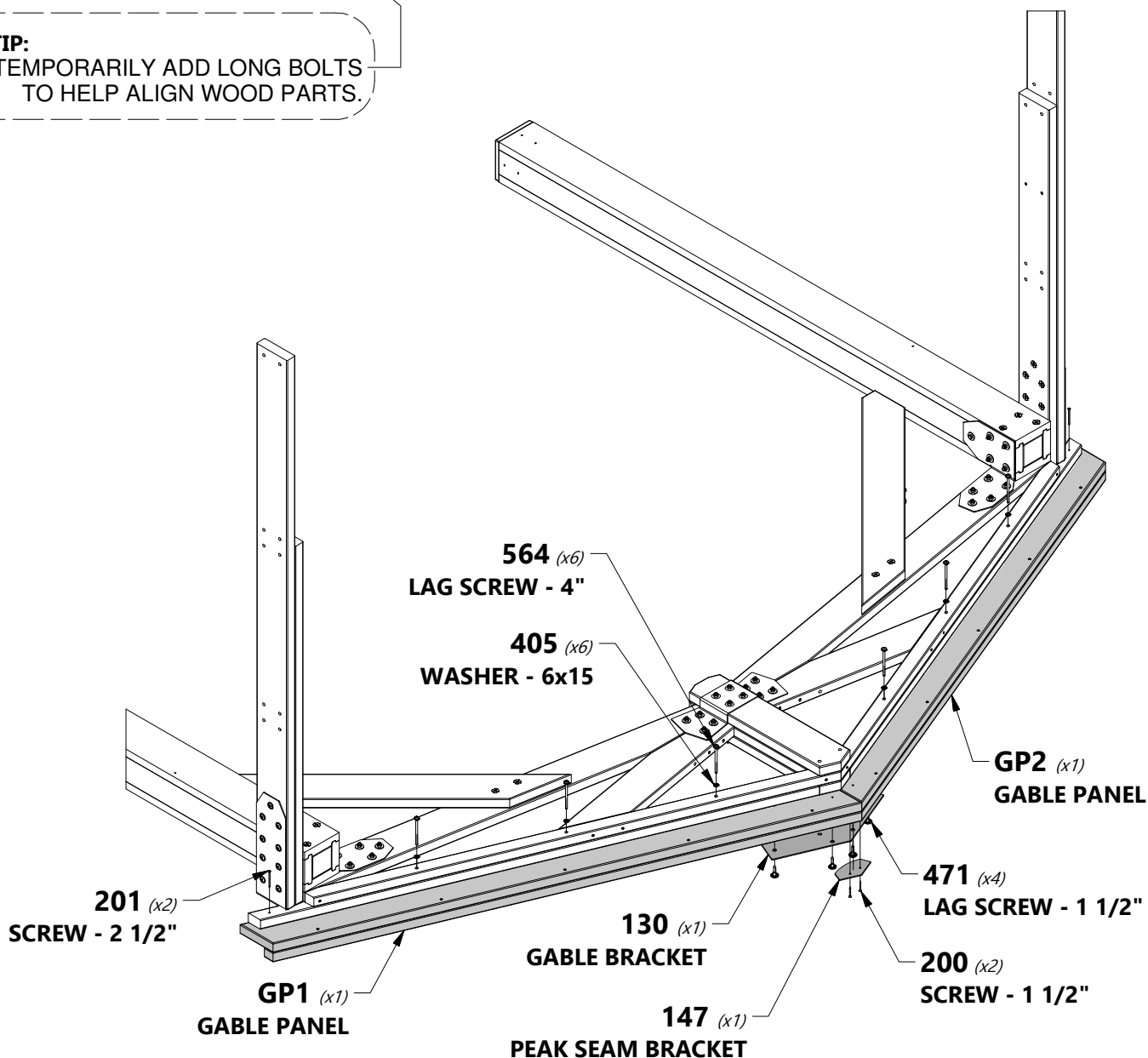
COMPLETE THIS STEP TWICE

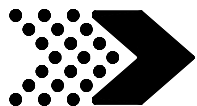


FRONT VIEW



TIP:
TEMPORARILY ADD LONG BOLTS
TO HELP ALIGN WOOD PARTS.





STEP 7



D03 | TOP RAIL - W4L14994
(x2) | 1 3/8"x5 1/4"x57" (36x134x1448)



D04 | CORBEL - W4L14997
(x2) | 1 3/8"x5 1/4"x35 7/8" (36x134x910)



H100513 | BOLT WH BLK
(x8) | 5/16x4-1/4



H100195 | BOLT WH BLK
(x12) | 5/16x2-3/4



H100379 | T-NUT BLK
(x20) | 5/16



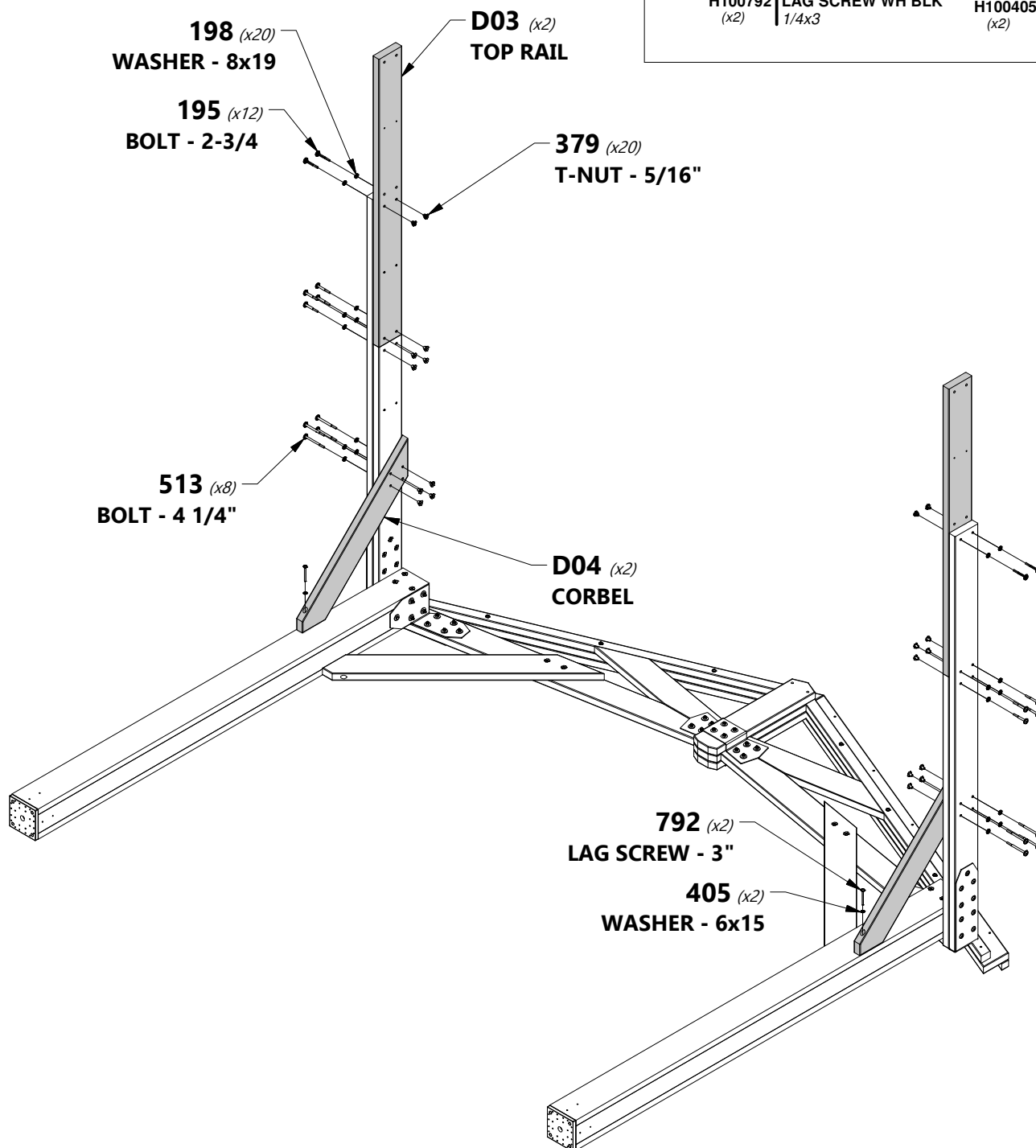
**H100198 | WASHER LOCK
EXT BLK**
(x20) | 8x19



H100792 | LAG SCREW WH BLK
(x2) | 1/4x3

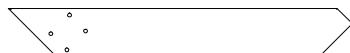


**H100405 | WASHER LOCK
EXT BLK**
(x2) | 6x15





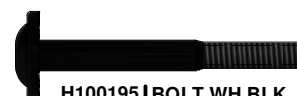
STEP 8



D04 | CORBEL - W4L14997
(x2) 1 3/8"x5 1/4"x35 7/8" (36x134x910)



H100513 | BOLT WH BLK
(x8) 5/16x4-1/4



H100195 | BOLT WH BLK
(x12) 5/16x2-3/4



H100201 | SCREW PFH BLK
(16) 8x2-1/2



H100379 | T-NUT BLK
(x20) 5/16



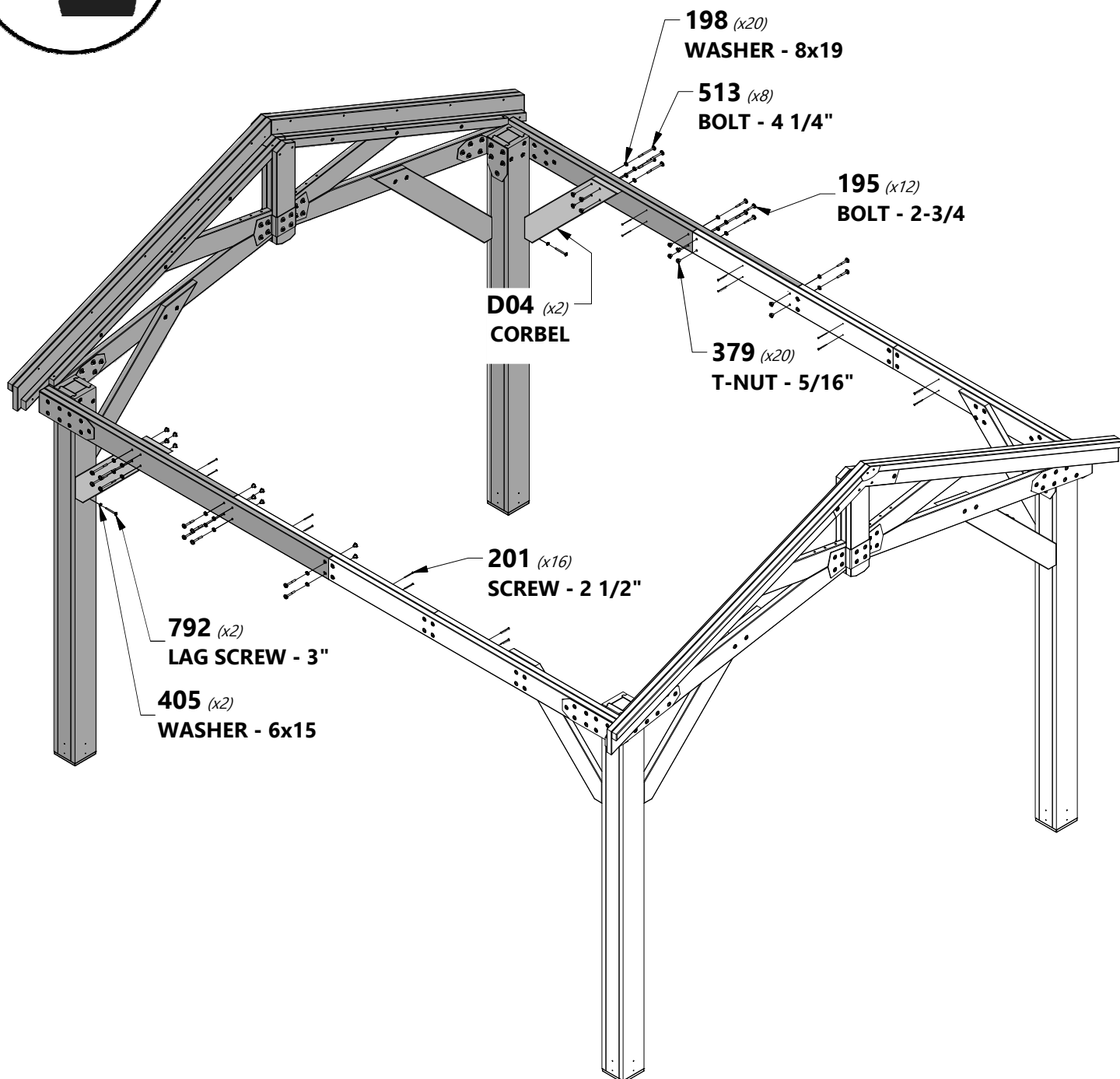
**H100198 | WASHER LOCK
EXT BLK**
(x20) 8x19



H100792 | LAG SCREW WH BLK
(x2) 1/4x3

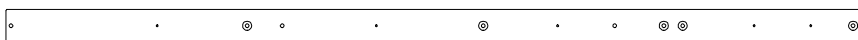


**H100405 | WASHER LOCK
EXT BLK**
(x2) 6x15





STEP 9



H04 | RAFTER - W4L14999
(x2) | 1"x3 3/8"x89 1/4" (24x86x2267)



H05 | RAFTER - W4L15000
(x2) | 1"x3 3/8"x69 1/2" (24x86x1766)



H100459 | BOLT WH BLK
(x8) | 5/16x1 1/4



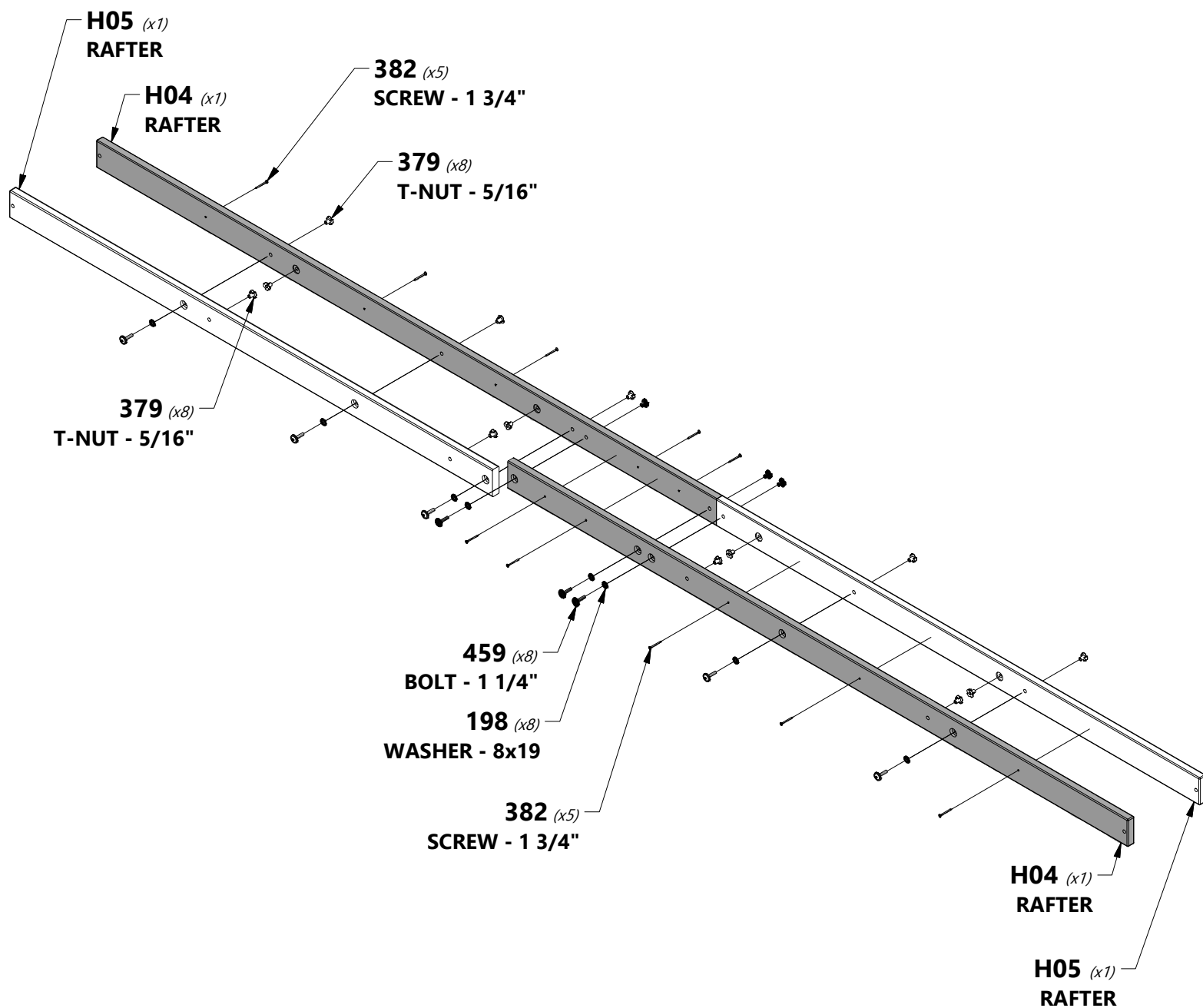
H100379 | T-NUT BLK
(x16) | 5/16

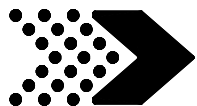


H100382 | SCREW PFH BLK
(x10) | 8x1 3/4



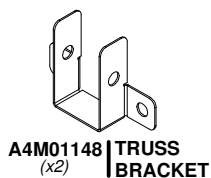
H100198 | WASHER LOCK
(x8) | EXT BLK
8x19



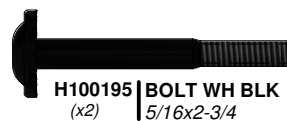


STEP 10

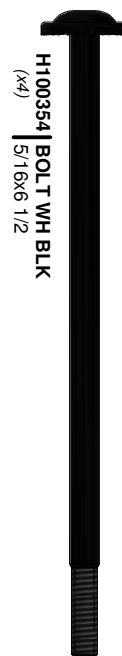
RAFTER ASSEMBLY FROM PREVIOUS STEP



A4M01148 | TRUSS
BRACKET
(x2)



H100195 | BOLT WH BLK
(x2) | 5/16x2-3/4



H100354 | BOLT WH BLK
(x4) | 5/16x6 1/2



H100478 | WASHER FLAT
(x6) | BLK
8x27



H100479 | NUT LOCK BLK
(x6) | 5/16

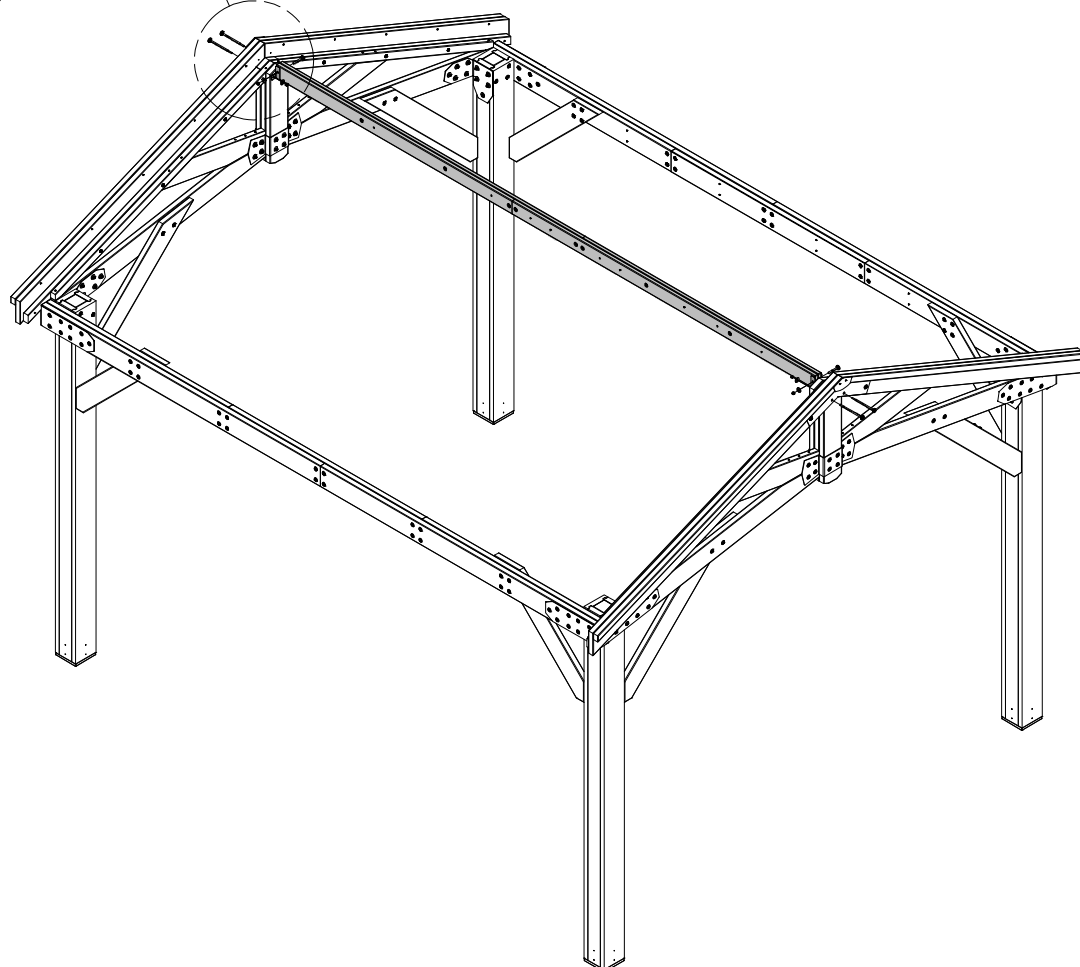
354 (x4)
BOLT - 6 1/2"

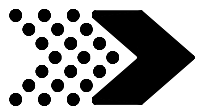
195 (x2)
BOLT - 2-3/4

148 (x2)
TRUSS BRACKET

478 (x6)
WASHER - 8x27

479 (x6)
NUT - 5/16"





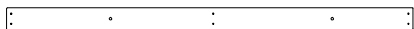
STEP 11



E01 | RAFTER - W4L14988
(x4) | 1 3/8"x3 3/8"x76 3/8" (36x86x1941)



H02 | FASCIA - W4L14987
(x1) | 1"x3 3/8"x80 3/8" (24x86x2040)



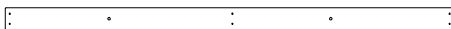
H06 | FASCIA - W4L15005
(x1) | 1"x3 3/8"x63 1/2" (24x86x1614)



E05 | RAFTER - W4L15004
(x2) | 1 3/8"x3 3/8"x76 3/8" (36x86x1941)



H03 | FASCIA - W4L14993
(x1) | 1"x3 3/8"x87" (24x86x2209)



H07 | FASCIA - W4L15006
(x1) | 1"x3 3/8"x70 1/8" (24x86x1783)



H100391 | SCREW PFH BLK
(x24) | 8x2



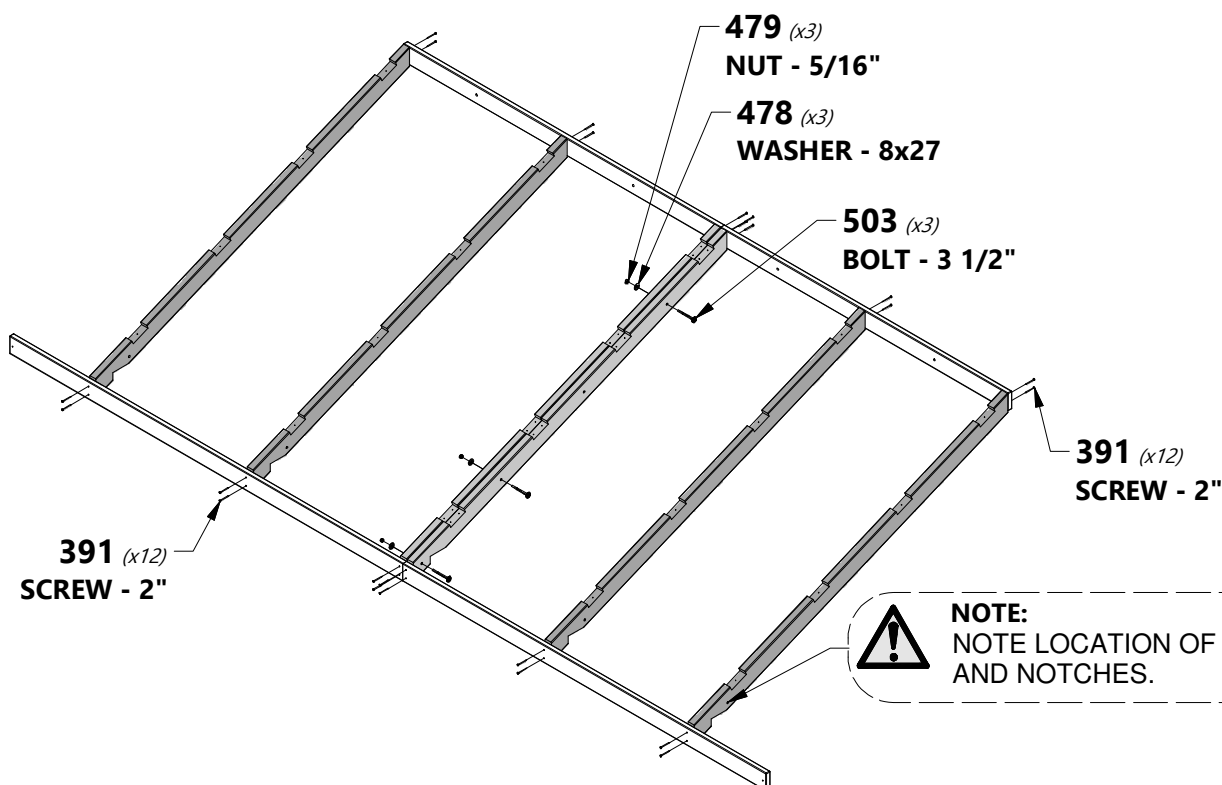
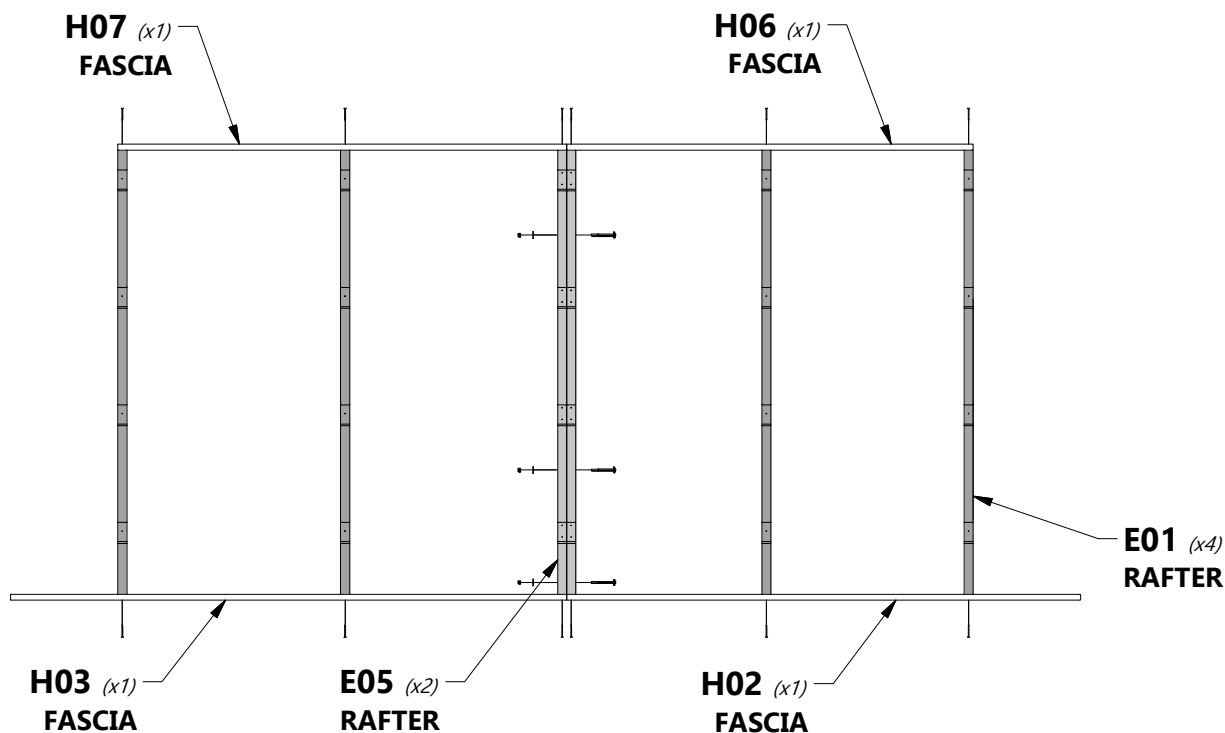
H100503 | BOLT WH BLK
(x3) | 5/16x3-1/2

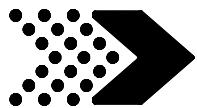


H100478 | WASHER FLAT
(x3) | BLK
8x27



H100479 | NUT LOCK BLK
(x3) | 5/16





STEP 12



E03 | SHEATHING BOARD - W4L14989
(x4) | 1 3/8"x3 3/8"x80 3/8" (36x86x2040)

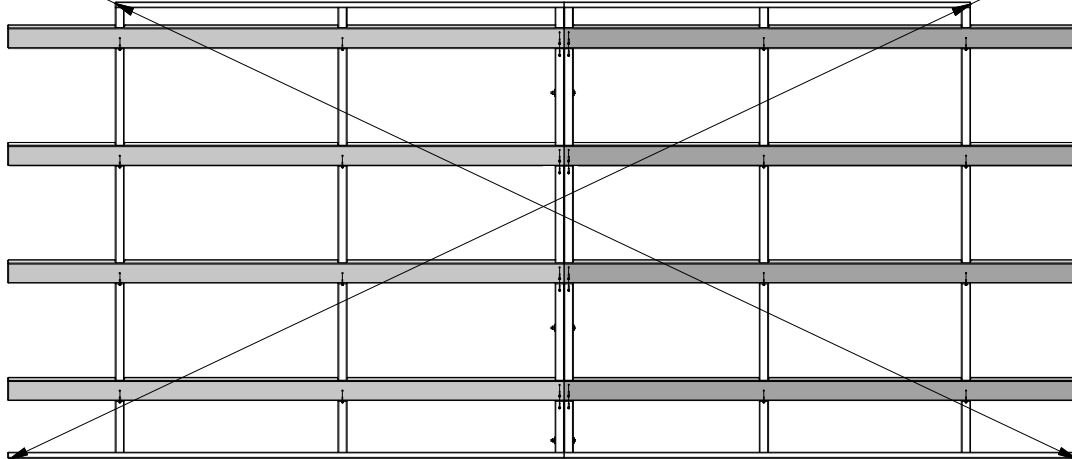


E04 | SHEATHING BOARD - W4L14990
(x4) | 1 3/8"x3 3/8"x87" (36x86x2209)



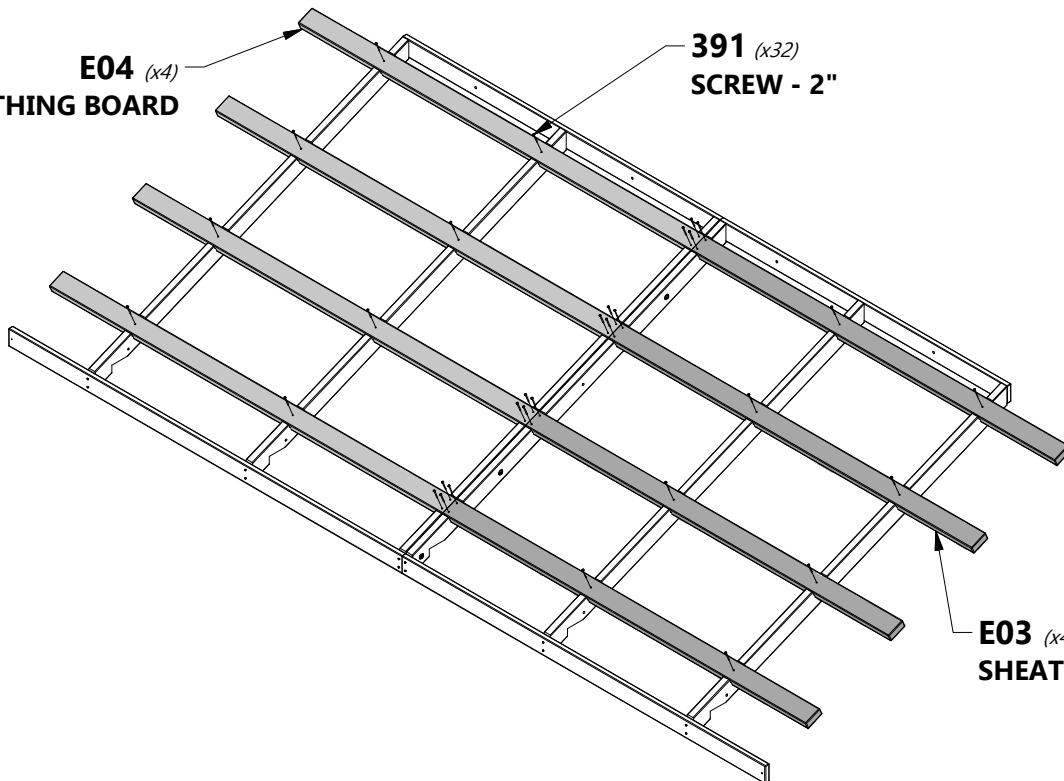
H100391 | SCREW PFH BLK
(x32) | 8x2

14'-1"
[4.29m]



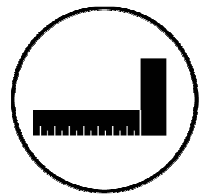
14'-1"
[4.29m]

E04 (x4)
SHEATHING BOARD



391 (x32)
SCREW - 2"

E03 (x4)
SHEATHING BOARD





STEP 13

NOTE:

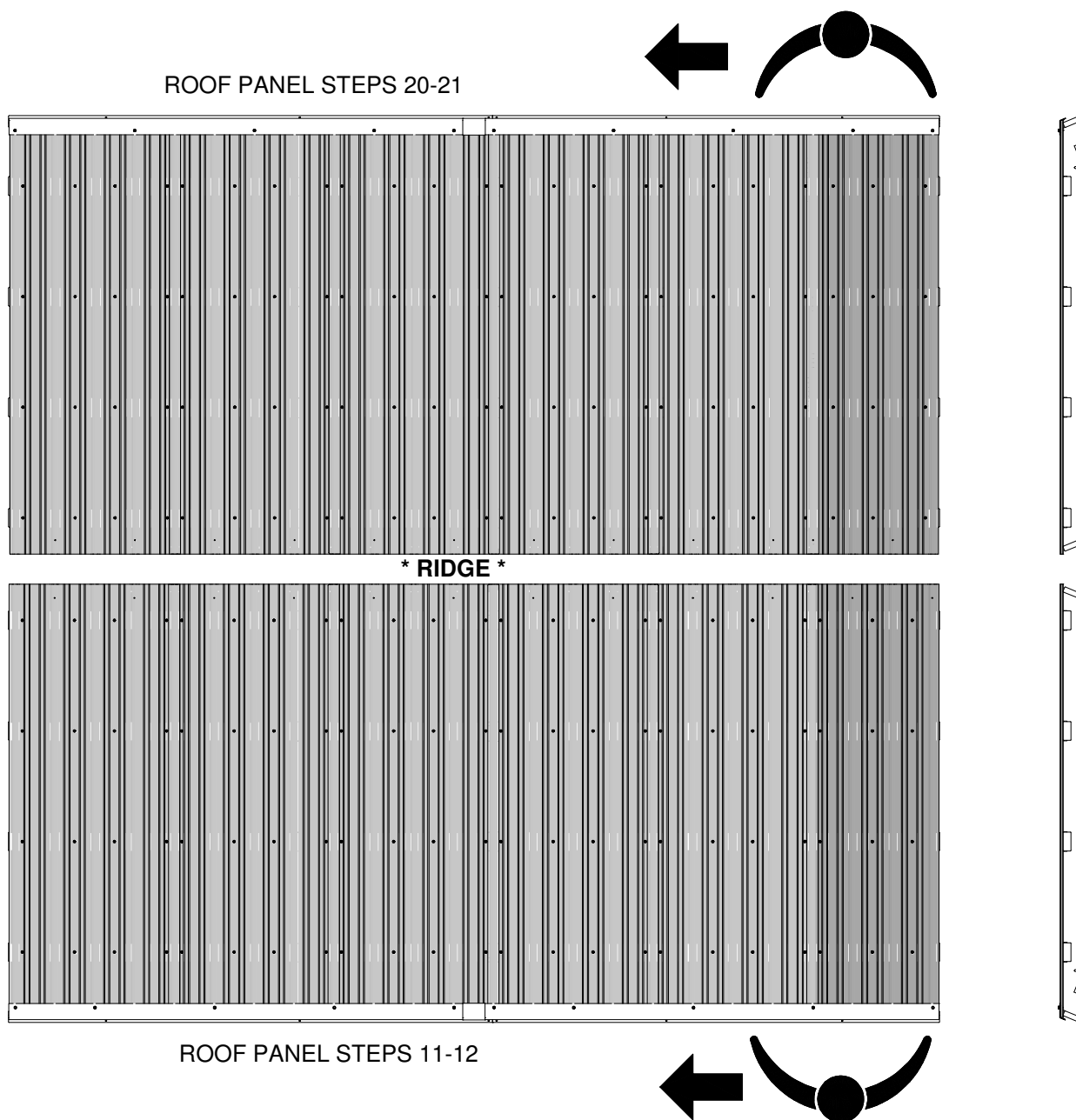
USE THIS PAGE TO FAMILIARIZE YOURSELF WITH THE ROOF PANEL & ASSIST YOU IN THE COMING STEPS.

WARNING:

GLOVES SHOULD BE WORN WHEN HANDLING ROOF PANELS; EDGES ARE SHARP.

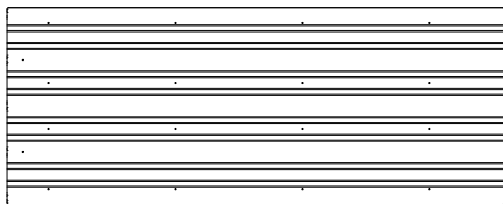
- Note the pre-drilled holes on the top end of each sheet shown below. These holes will always go towards the ridge of the roof and will be used to install the ridge cap in a later step. Assemble each roof panel by starting as shown below and working toward the left as shown.

POSITION YOUR ROOF PANELS ON THE GROUND SO THEY MIRROR EACH OTHER AS SHOWN.
REMOVE PROTECTIVE BLUE FILM FROM PANELS.

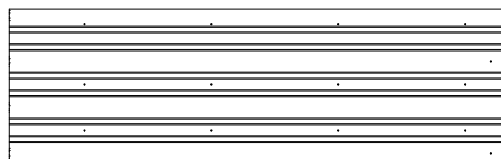




STEP 14



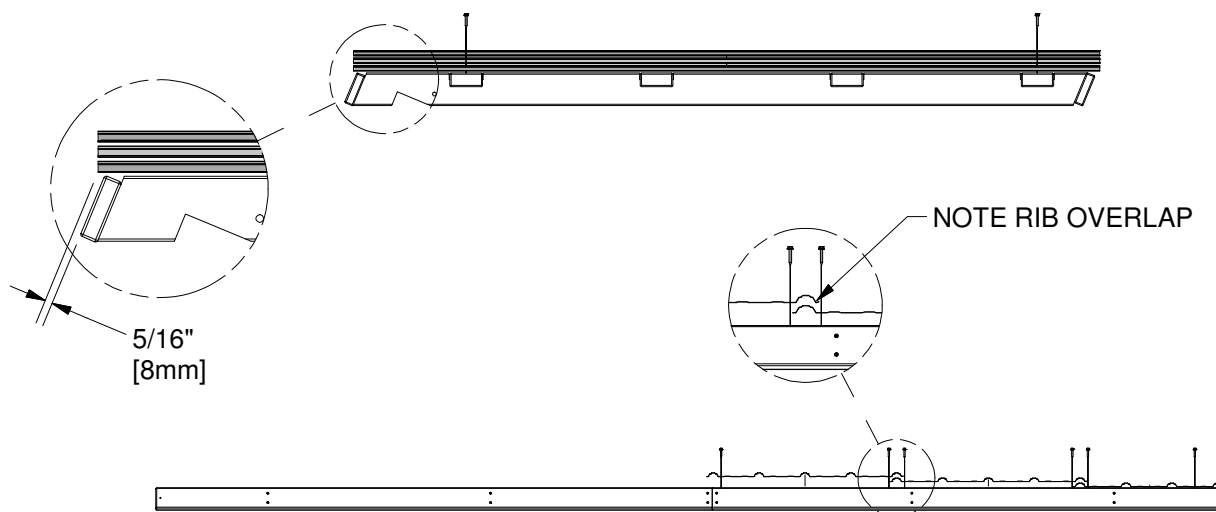
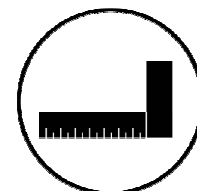
A4M01124 (x2) | 29 GA STEEL SHEETING



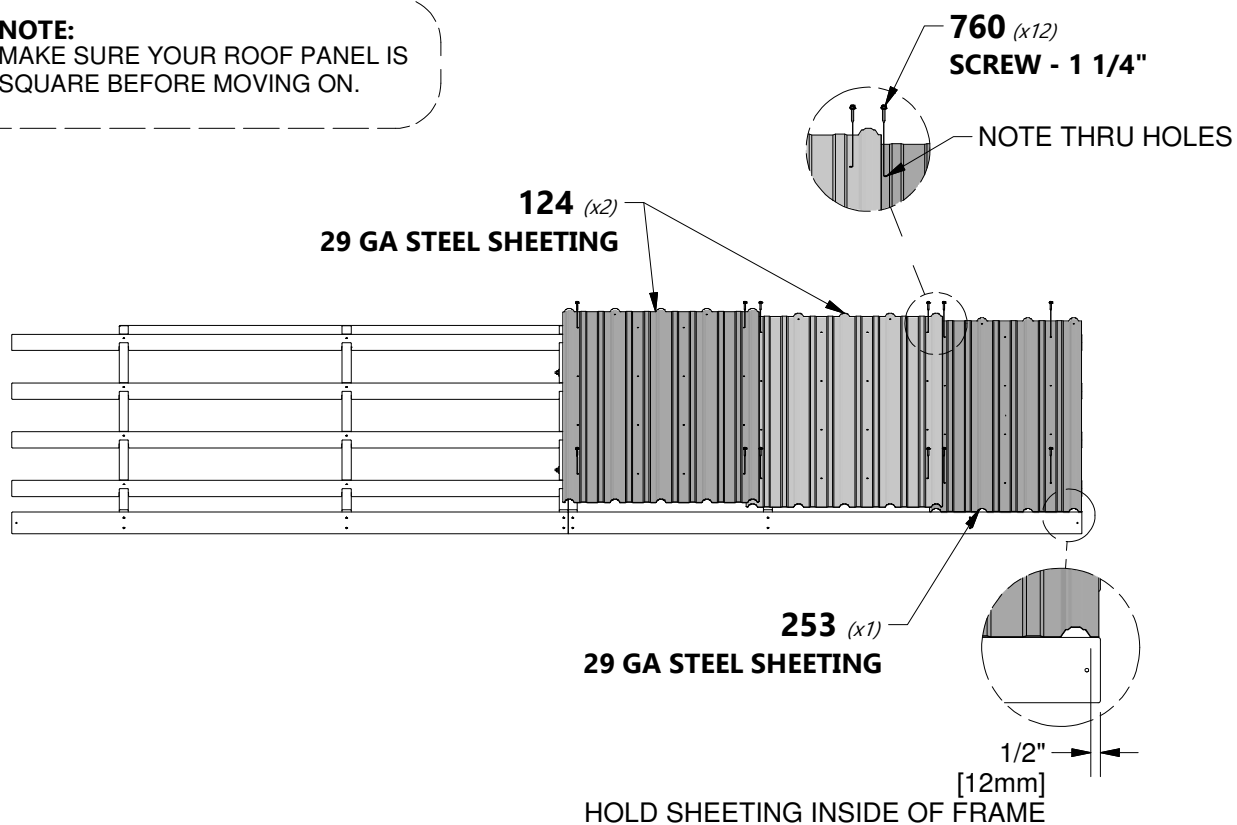
A4M01253 (x1) | 29 GA STEEL SHEETING

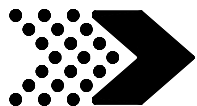


H100760 | SCREW WOODGRIP
(x12) | 10x1 1/4



NOTE:
MAKE SURE YOUR ROOF PANEL IS
SQUARE BEFORE MOVING ON.

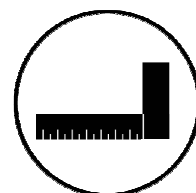




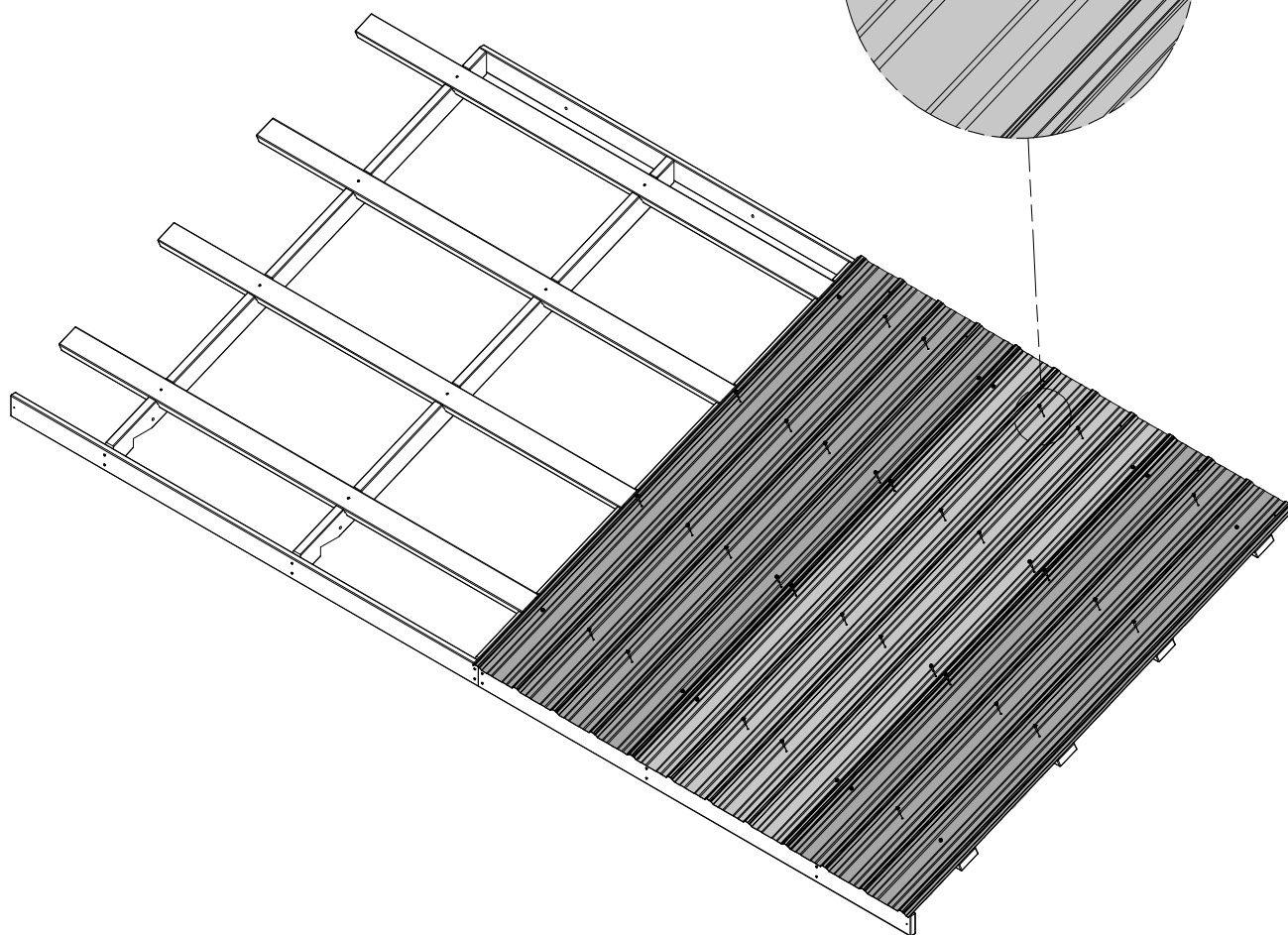
STEP 15

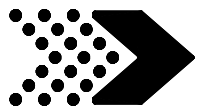


H100760 | SCREW WOODGRIP
(x32) 10x1 1/4

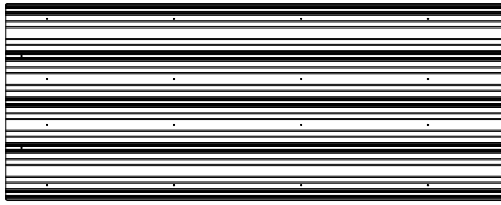


760 (x32)
SCREW - 1 1/4"





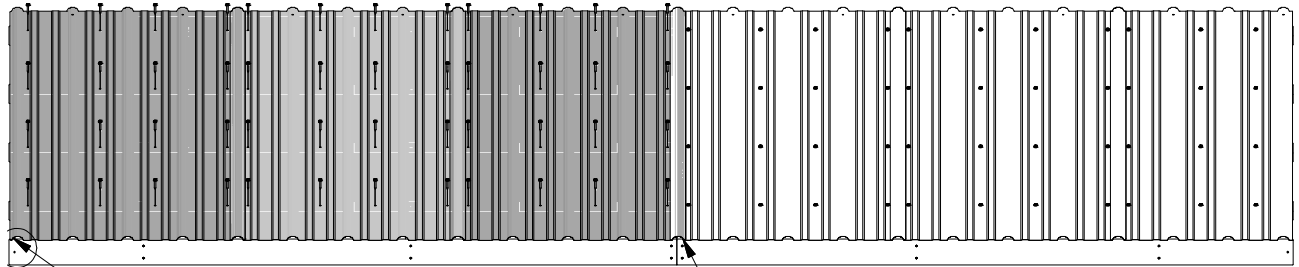
STEP 16



A4M01124
(x3) | **29 GA STEEL SHEETING**

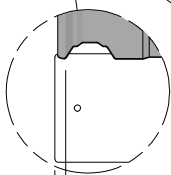


H100760 | **SCREW WOODGRIP**
(x48) | **10x1 1/4**



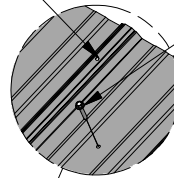
*HOLD SHEETING INSIDE
OF ROOF FRAME*

*NOTE RIB OVERLAPS
ALL PLACES*

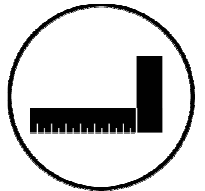


3/8"
[10mm]

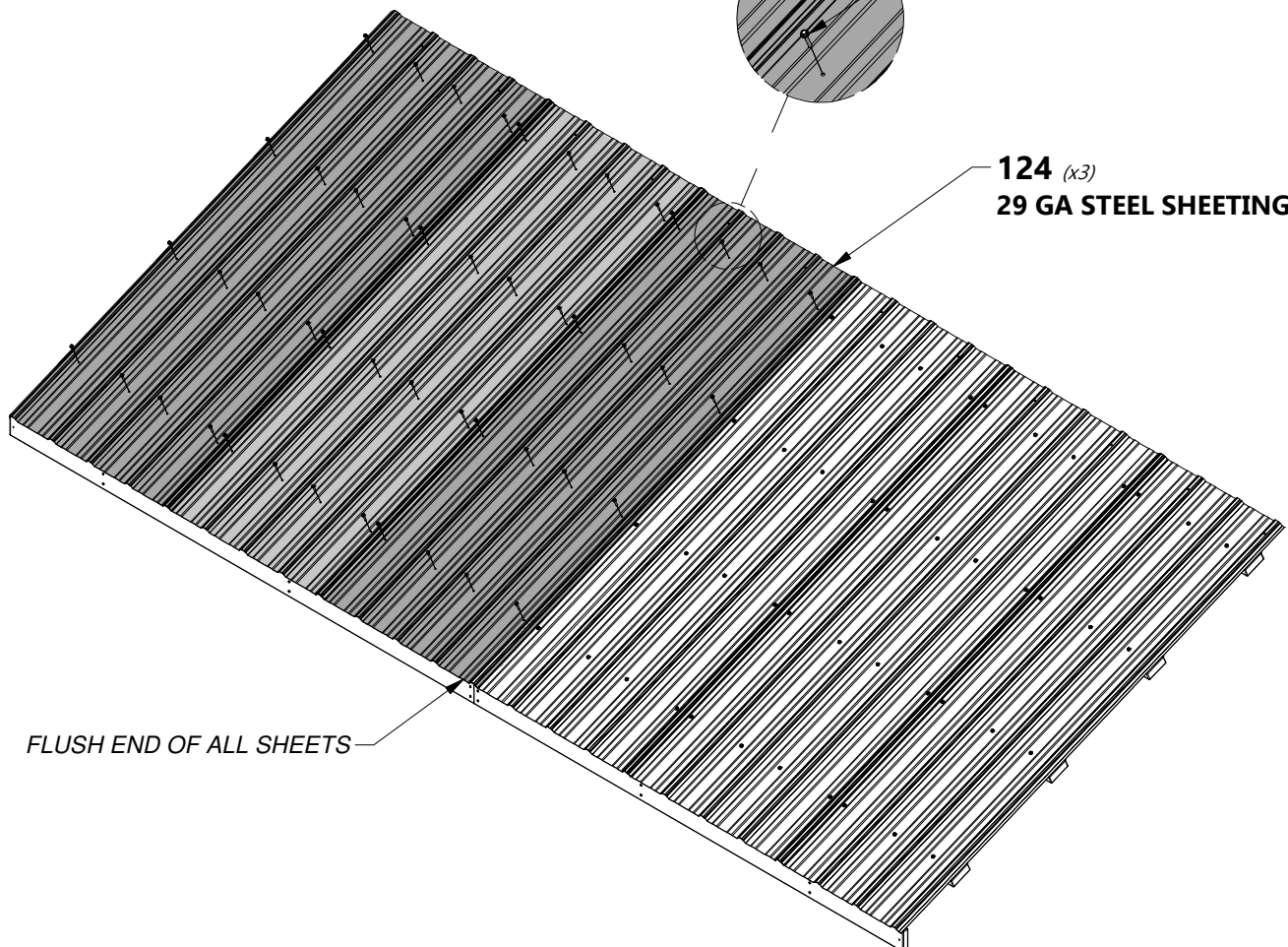
NOTE THRU HOLES



760 (x48)
SCREW - 1 1/4"



124 (x3)
29 GA STEEL SHEETING

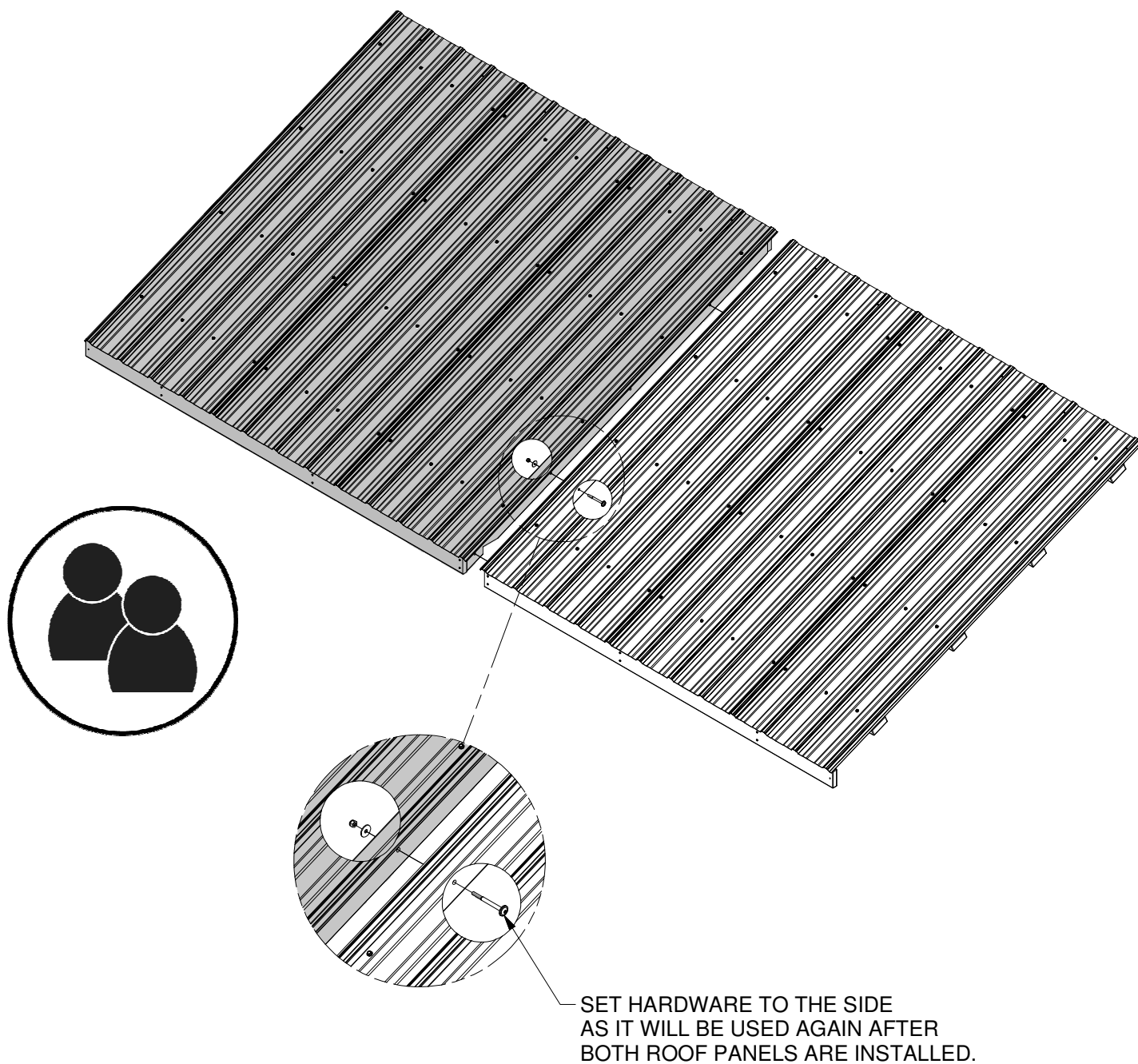


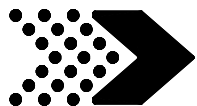
FLUSH END OF ALL SHEETS



STEP 17

SEPARATE THE ROOF PANELS AT THIS TIME FOR EASE OF INSTALLING





STEP 18

**NOTE:**

WITH AT LEAST TWO PEOPLE LIFT ASSEMBLED ROOF PANEL AND SLIDE IT INTO THE TRACKS ON THE RAFTERS. ONCE IN PLACE, INSTALL ATTACHMENT HARDWARE AS SHOWN.

H100391 | SCREW PFH BLK
(x1) 8x2

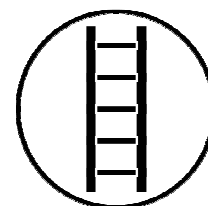


H100378 | BOLT WH BLK
(x2) 5/16x1 3/4

H100198 | WASHER LOCK
(x2) EXT BLK
8x19

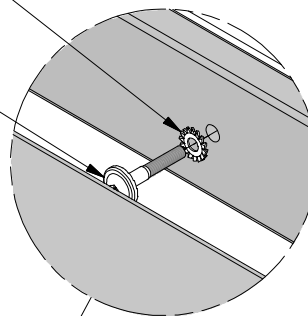


**TWO
PERSON LIFT**

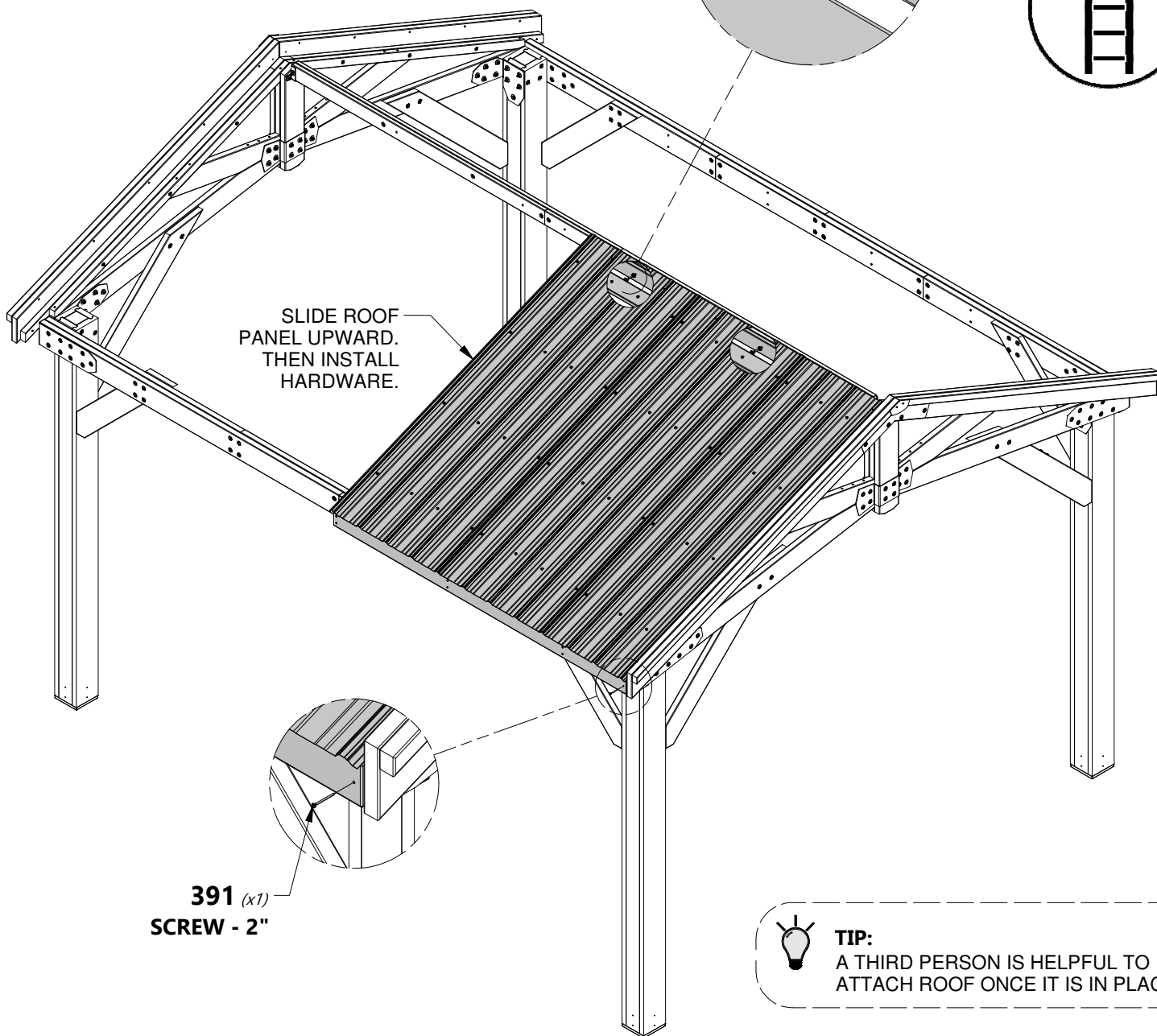


198 (x2)
WASHER - 8x19

378 (x2)
BOLT - 1 3/4"



SLIDE ROOF
PANEL UPWARD.
THEN INSTALL
HARDWARE.



391 (x1)
SCREW - 2"

**TIP:**

A THIRD PERSON IS HELPFUL TO
ATTACH ROOF ONCE IT IS IN PLACE.

STEP 19



NOTE:

WITH AT LEAST TWO PEOPLE LIFT ASSEMBLED ROOF PANEL AND SLIDE IT INTO THE TRACKS ON THE RAFTERS. ONCE IN PLACE, INSTALL ATTACHMENT HARDWARE AS SHOWN.

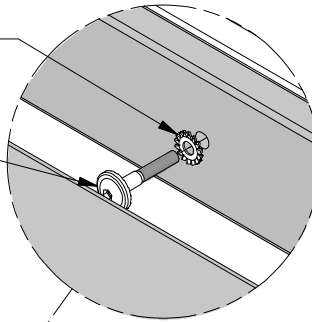


TIP:

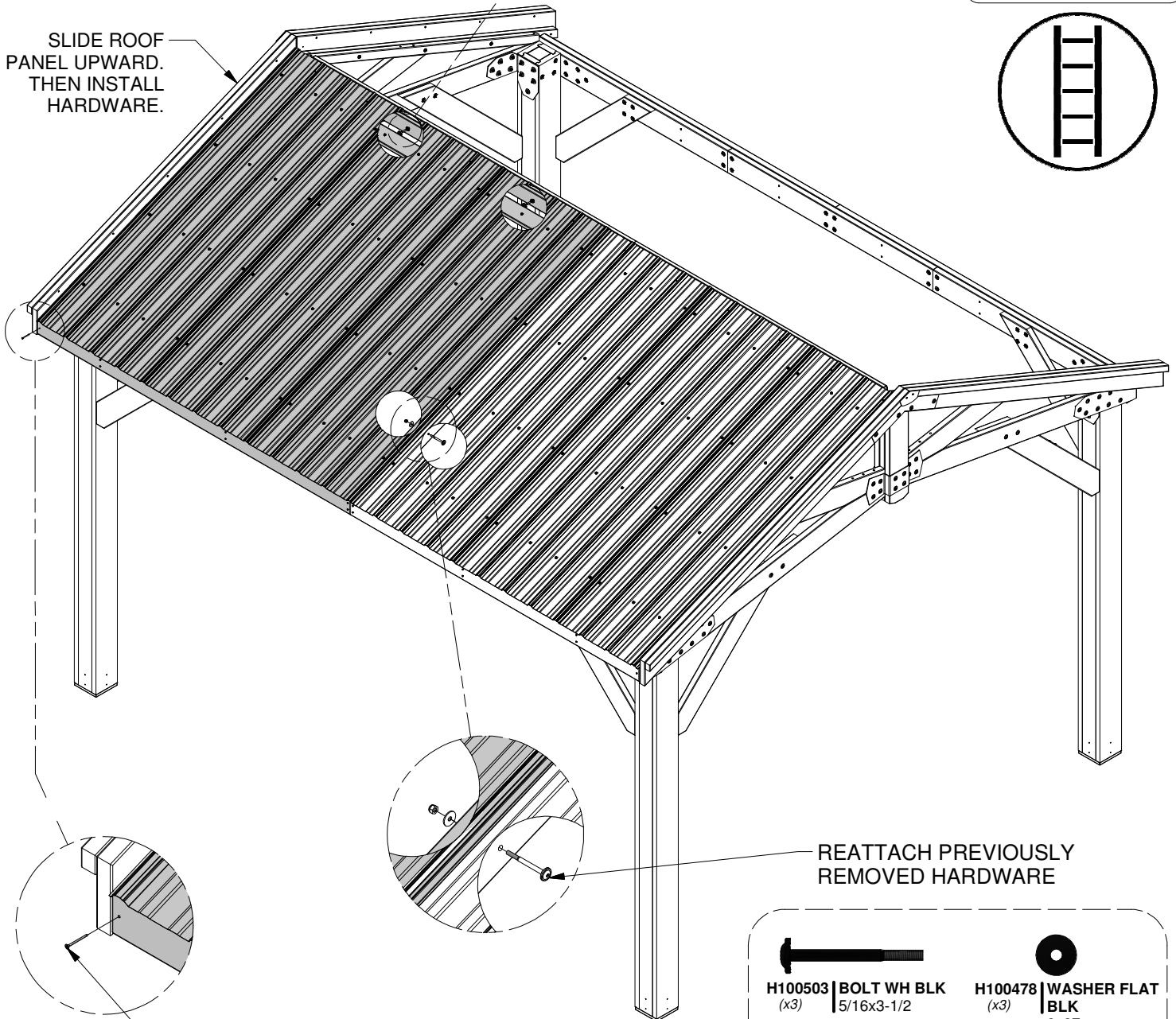
A THIRD PERSON IS HELPFUL TO ATTACH ROOF ONCE IT IS IN PLACE.

198 (x2)
WASHER - 8x19

378 (x2)
BOLT - 1 3/4"

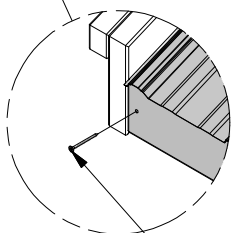


SLIDE ROOF
PANEL UPWARD.
THEN INSTALL
HARDWARE.



REATTACH PREVIOUSLY
REMOVED HARDWARE

391 (x1)
SCREW - 2"



H100391 | **SCREW PFH BLK**
(x1) | 8x2

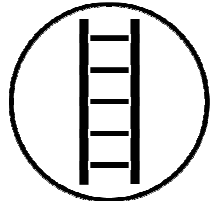


H100378 | **BOLT WH BLK**
(x2) | 5/16x1 3/4

H100198 | **WASHER LOCK**
(x2) | **EXT BLK**
8x19



**TWO
PERSON LIFT**

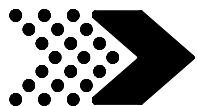


H100503 | **BOLT WH BLK**
(x3) | 5/16x3-1/2

H100478 | **WASHER FLAT**
(x3) | **BLK**
8x27

H100479 | **NUT LOCK BLK**
(x3) | 5/16





STEP 20

E01 | RAFTER - W4L14988
(x4) | 1 3/8"x3 3/8"x76 3/8" (36x86x1941)

H02 | FASCIA - W4L14987
(x1) | 1"x3 3/8"x80 3/8" (24x86x2040)

H06 | FASCIA - W4L15005
(x1) | 1"x3 3/8"x63 1/2" (24x86x1614)

E05 | RAFTER - W4L15004
(x2) | 1 3/8"x3 3/8"x76 3/8" (36x86x1941)

H03 | FASCIA - W4L14993
(x1) | 1"x3 3/8"x87" (24x86x2209)

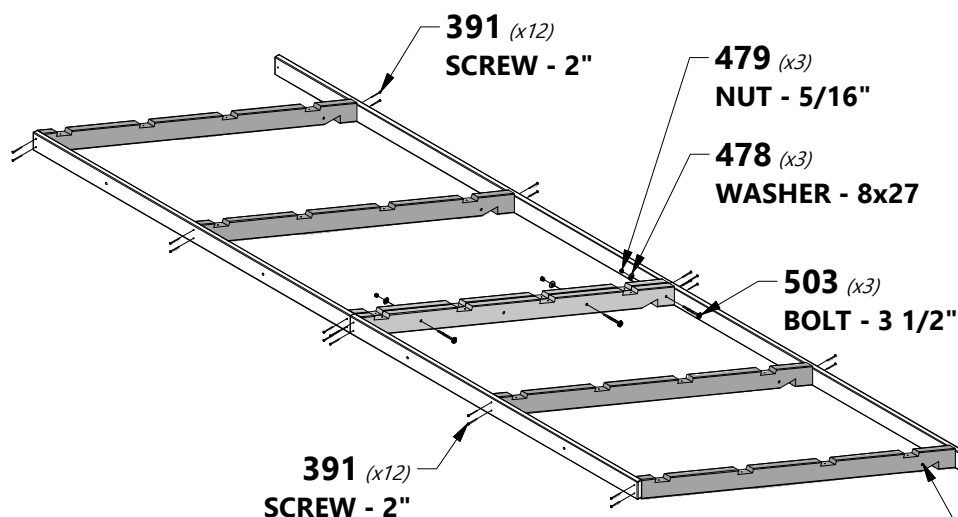
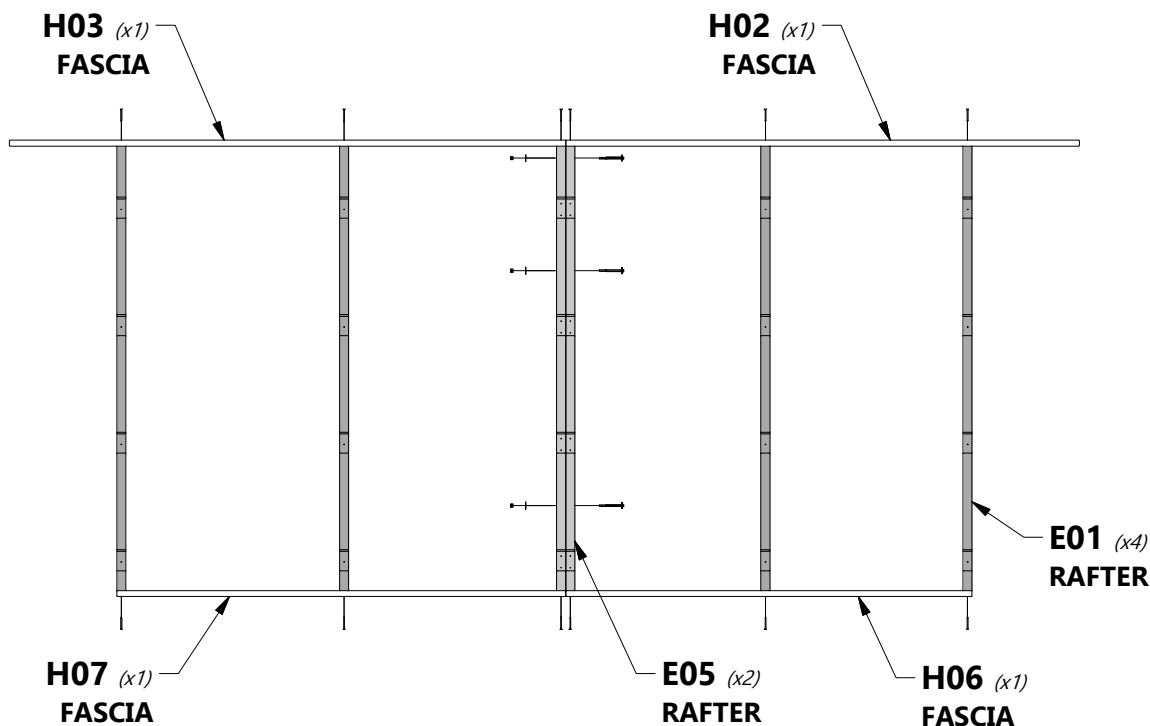
H07 | FASCIA - W4L15006
(x1) | 1"x3 3/8"x70 1/8" (24x86x1783)

H100391 | SCREW PFH BLK
(x24) | 8x2

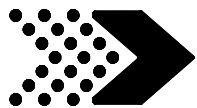
H100503 | BOLT WH BLK
(x3) | 5/16x3-1/2

H100478 | WASHER FLAT
(x3) | BLK
8x27

H100479 | NUT LOCK BLK
(x3) | 5/16



NOTE LOCATION OF HOLES
AND NOTCHES.



STEP 21



E03 | SHEATHING BOARD - W4L14989
(x4) | 1 3/8"x3 3/8"x80 3/8" (36x86x2040)

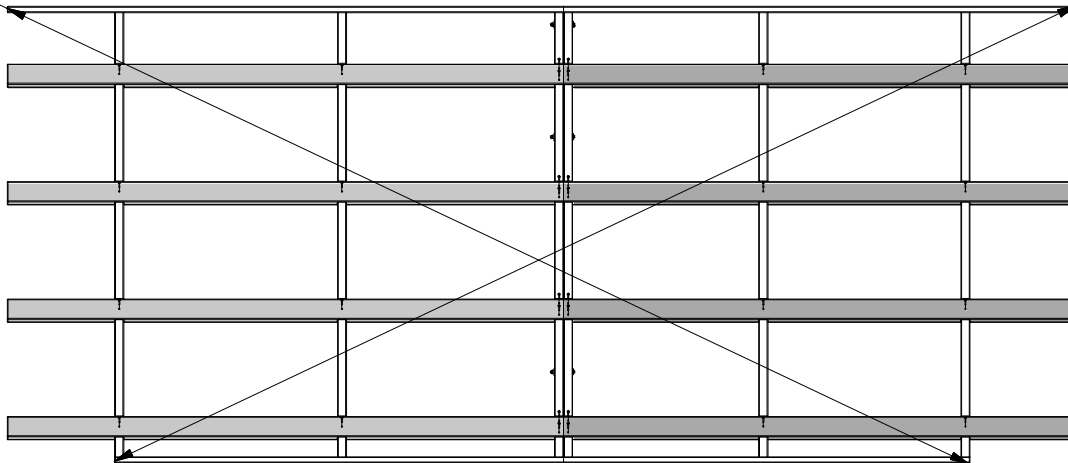


E04 | SHEATHING BOARD - W4L14990
(x4) | 1 3/8"x3 3/8"x87" (36x86x2209)

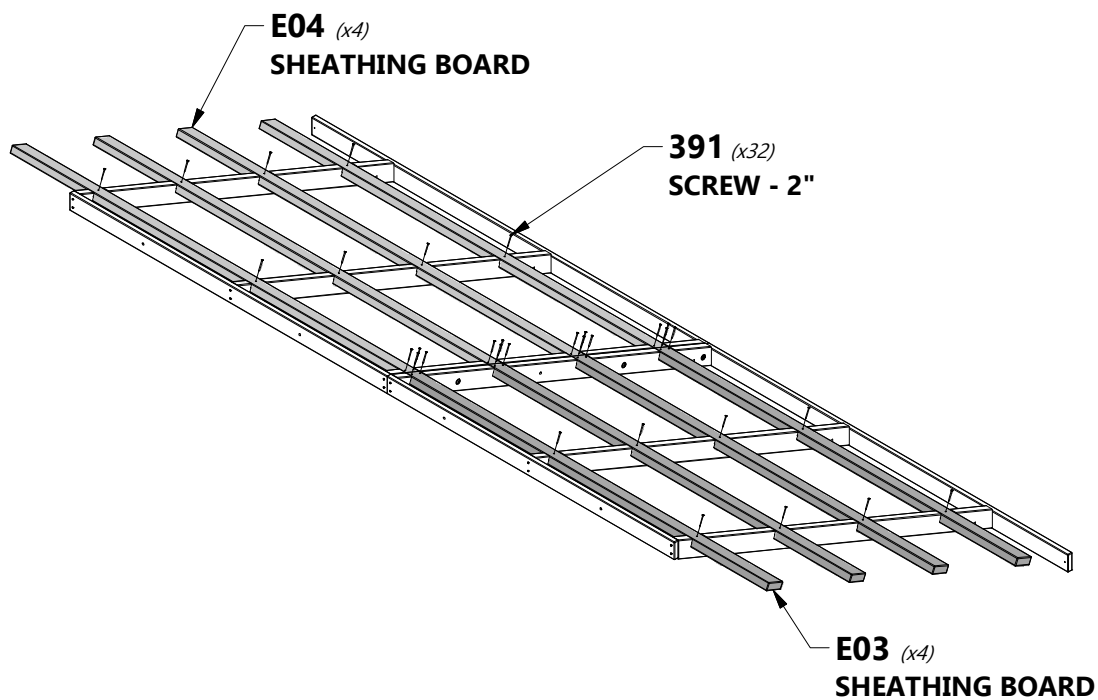
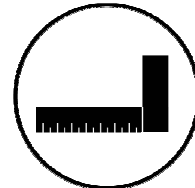


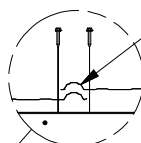
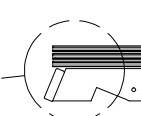
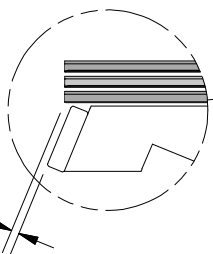
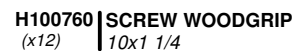
H100391 | SCREW PFH BLK
(x32) | 8x2

14'-1"
[4.29m]

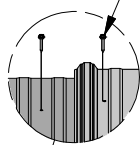
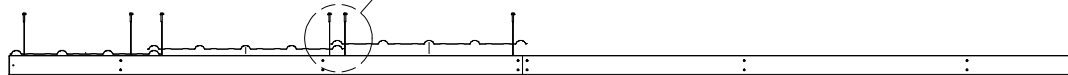


14'-1"
[4.29m]





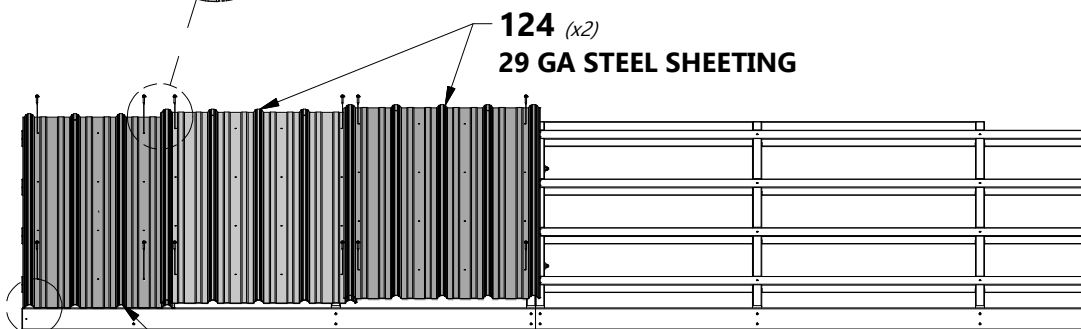
- NOTE RIB OVERLAP



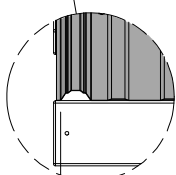
760 (x12)
SCREW - 1 1/4"



NOTE:
MAKE SURE YOUR ROOF PANEL IS
SQUARE BEFORE MOVING ON.



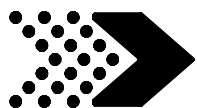
124 (x2)
29 GA STEEL SHEETING



253 (x1)
29 GA STEEL SHEETING

3/8"
[10mm]

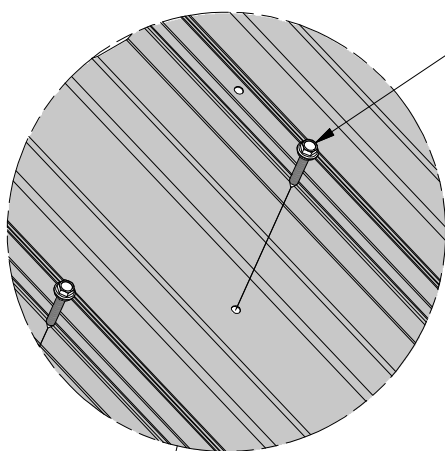
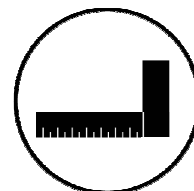
HOLD SHEETING INSIDE OF FRAME



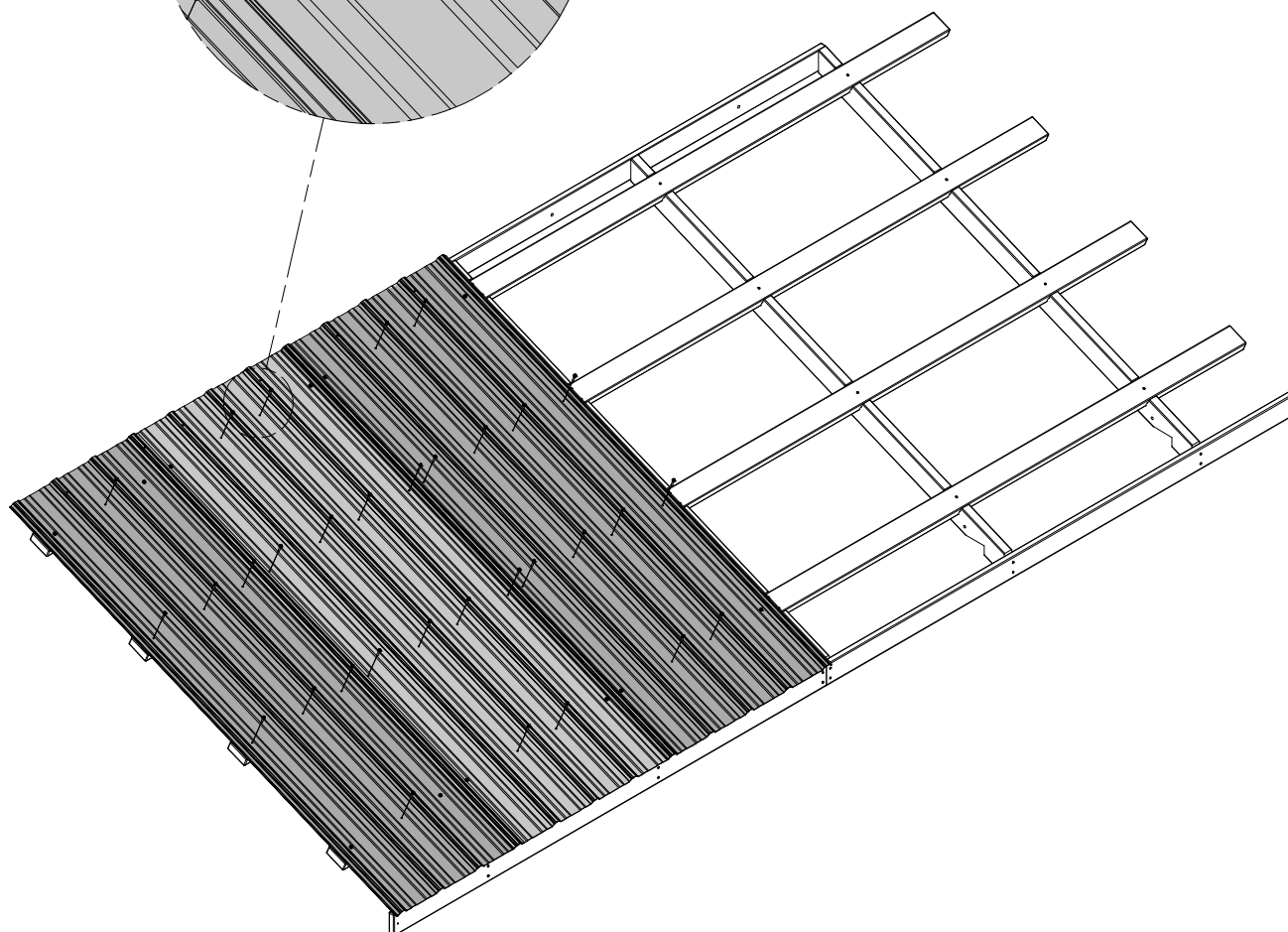
STEP 23

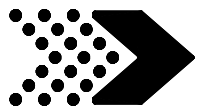


H100760 | SCREW WOODGRIP
(x32) 10x1 1/4

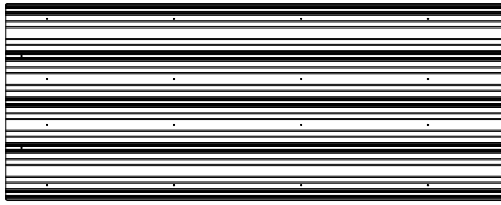


760 (x32)
SCREW - 1 1/4"





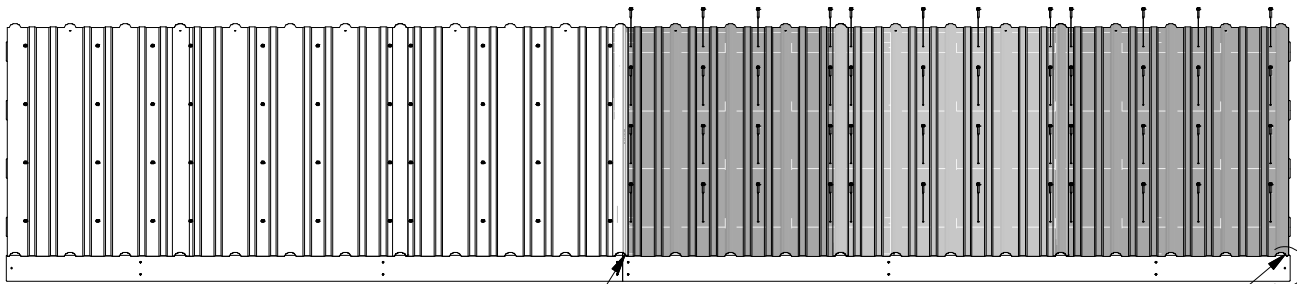
STEP 24



A4M01124
(x3) | **29 GA STEEL SHEETING**

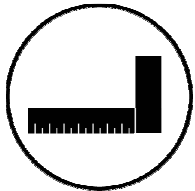


H100760 | **SCREW WOODGRIP**
(x48) | 10x1 1/4

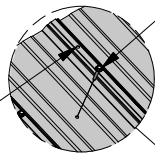


NOTE RIB OVERLAPS
ALL PLACES

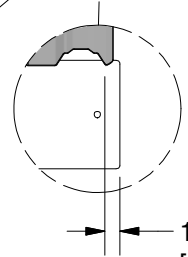
HOLD SHEETING INSIDE
OF ROOF FRAME



NOTE THRU HOLES

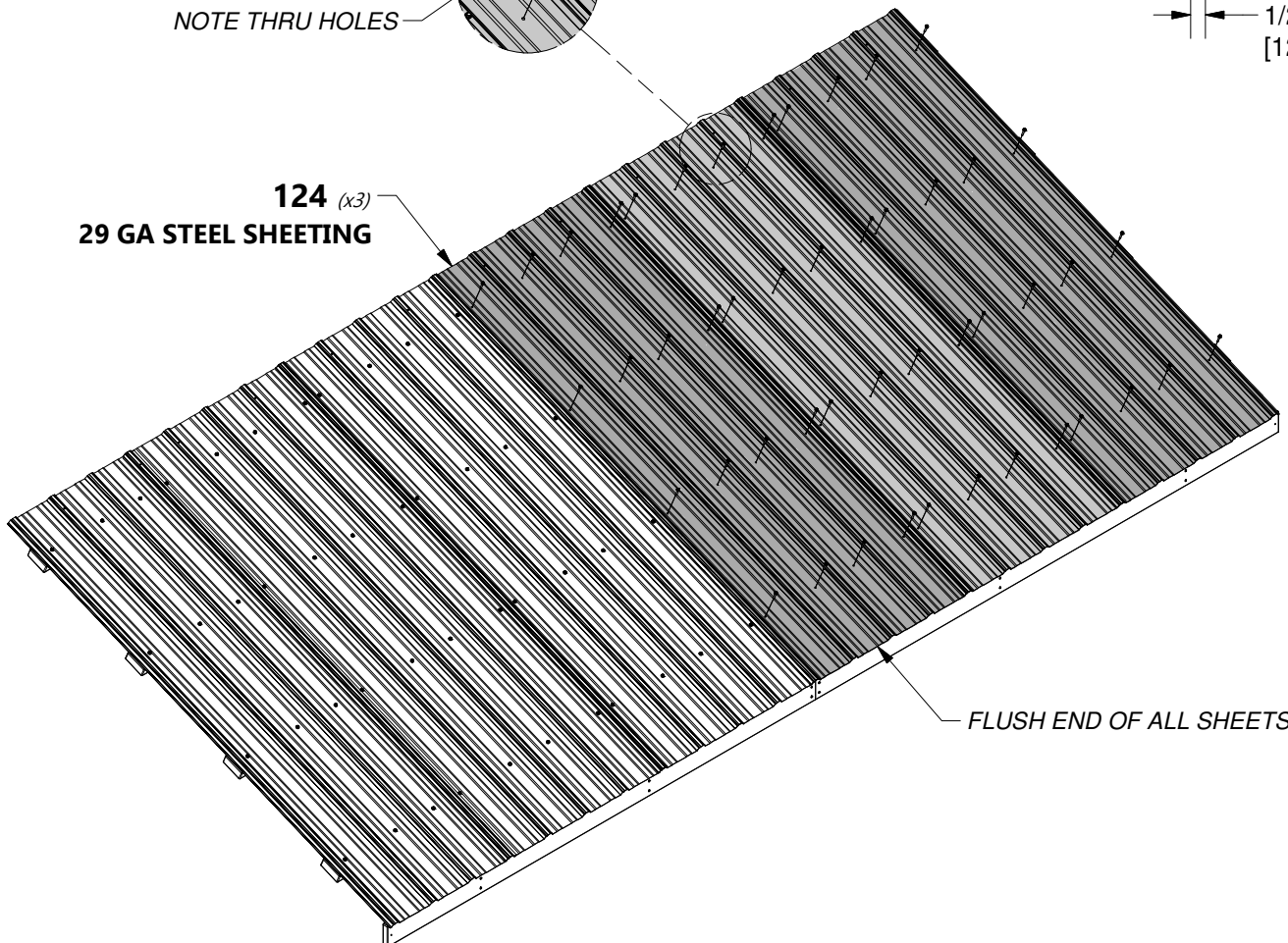


760 (x48)
SCREW - 1 1/4"



1/2"
[12mm]

124 (x3)
29 GA STEEL SHEETING

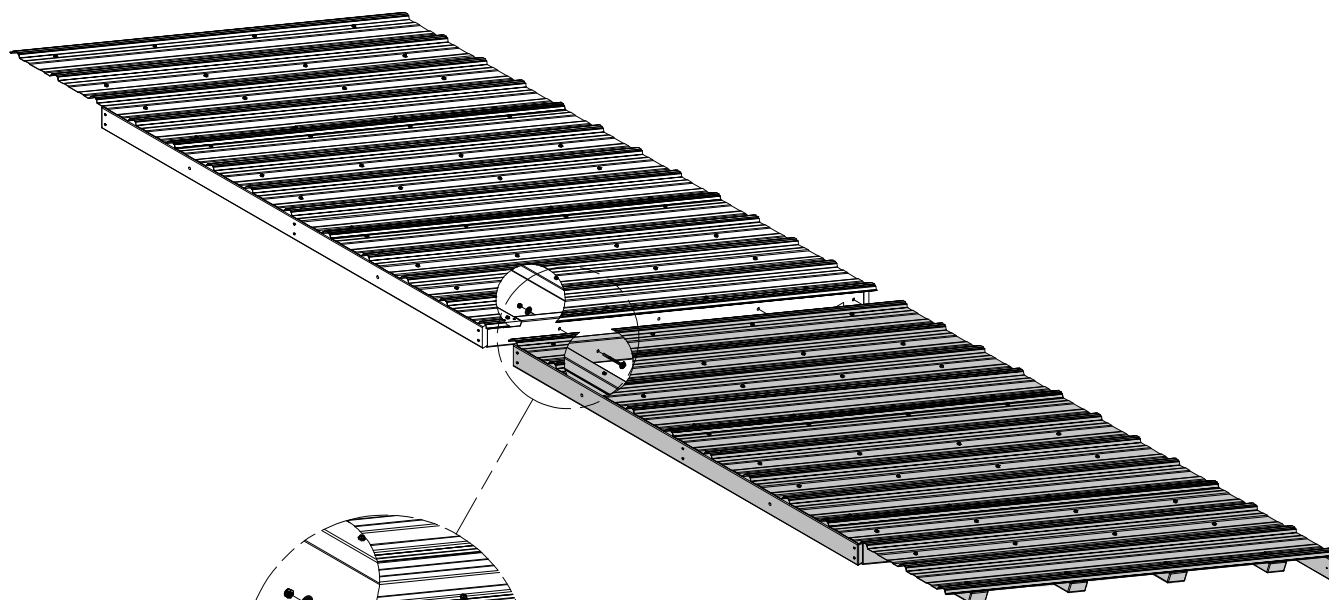


FLUSH END OF ALL SHEETS



STEP 25

SEPARATE THE ROOF PANELS AT THIS TIME FOR EASE OF INSTALLING



SET HARDWARE TO THE SIDE
AS IT WILL BE USED AGAIN AFTER
BOTH ROOF PANELS ARE INSTALLED.



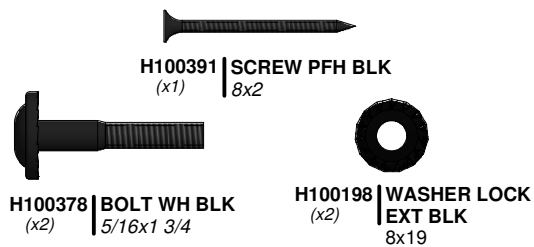


STEP 26



NOTE:

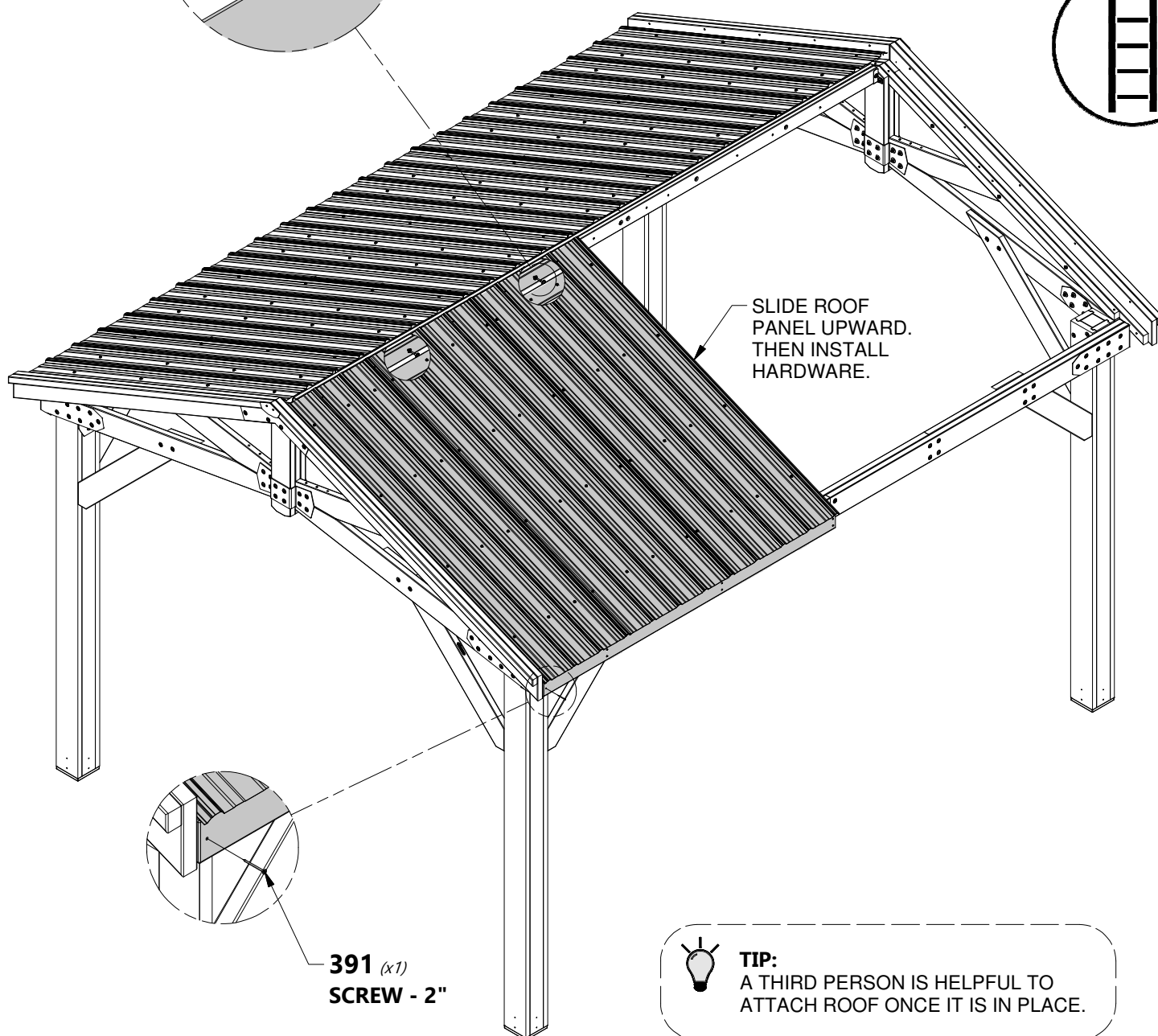
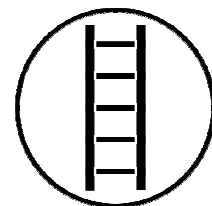
WITH AT LEAST TWO PEOPLE LIFT ASSEMBLED ROOF PANEL AND SLIDE IT INTO THE TRACKS ON THE RAFTERS. ONCE IN PLACE, INSTALL ATTACHMENT HARDWARE AS SHOWN.



198 (x2)
WASHER - 8x19

378 (x2)
BOLT - 1 3/4"


TWO
PERSON LIFT



TIP:

A THIRD PERSON IS HELPFUL TO ATTACH ROOF ONCE IT IS IN PLACE.

STEP 27



NOTE:

WITH AT LEAST TWO PEOPLE LIFT ASSEMBLED ROOF PANEL AND SLIDE IT INTO THE TRACKS ON THE RAFTERS. ONCE IN PLACE, INSTALL ATTACHMENT HARDWARE AS SHOWN.

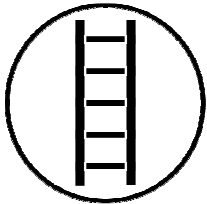


TIP:

A THIRD PERSON IS HELPFUL TO ATTACH ROOF ONCE IT IS IN PLACE.



TWO
PERSON LIFT



H100391 | SCREW PFH BLK
(x1) 8x2



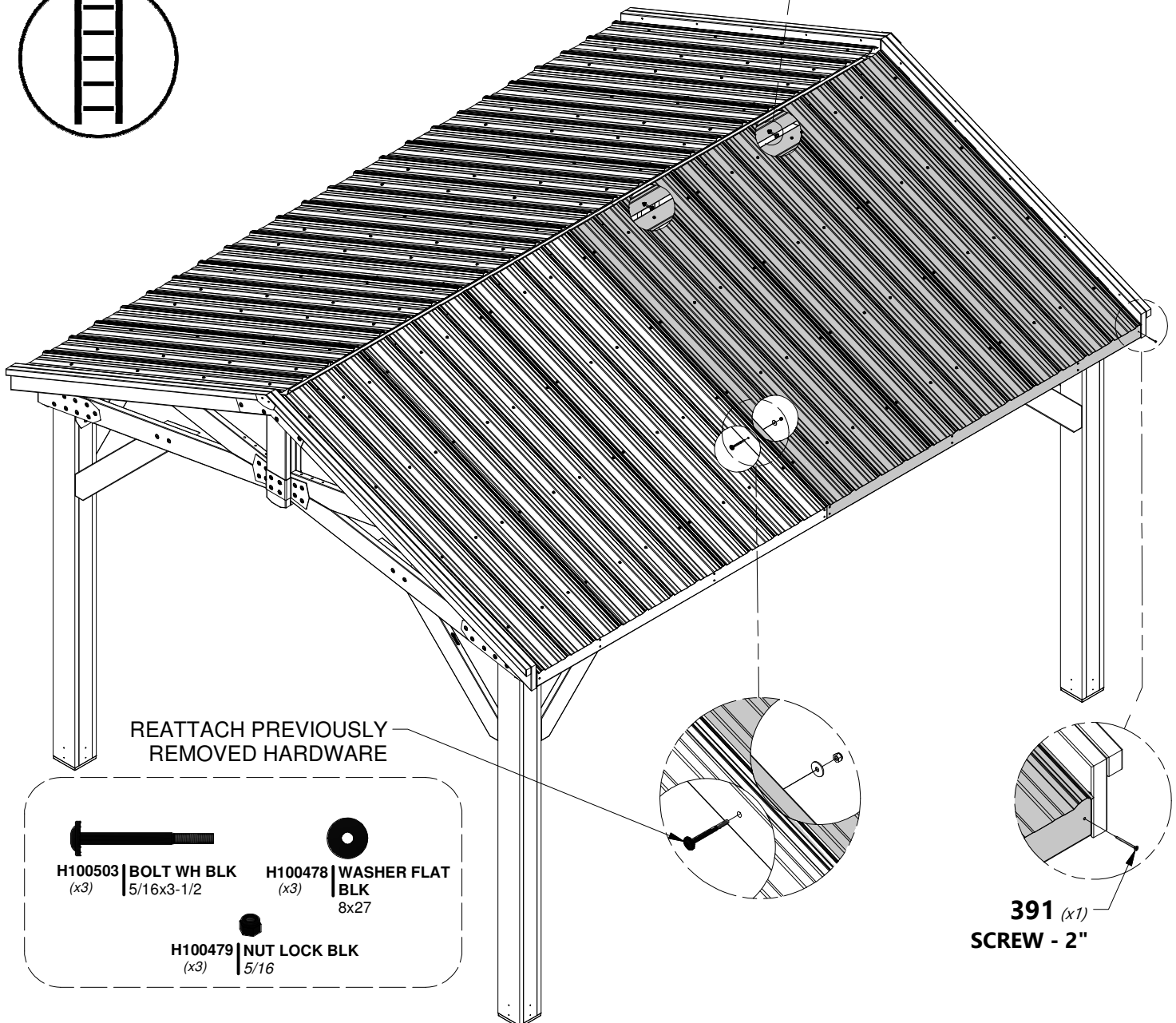
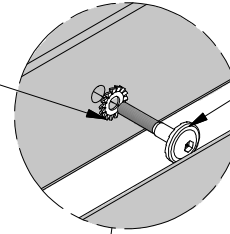
H100378 | BOLT WH BLK
(x2) 5/16x1 3/4



H100198 | WASHER LOCK
(x2) EXT BLK
8x19

198 (x2)
WASHER - 8x19

378 (x2)
BOLT - 1 3/4"

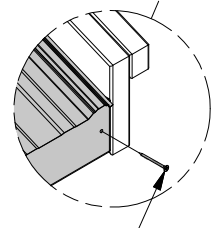
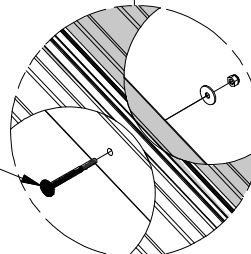


REATTACH PREVIOUSLY
REMOVED HARDWARE

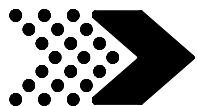
H100503 | BOLT WH BLK
(x3) 5/16x3-1/2

H100478 | WASHER FLAT
(x3) BLK
8x27

H100479 | NUT LOCK BLK
(x3) 5/16



391 (x1)
SCREW - 2"



STEP 28

A4M01254 (x4) ROOF EDGE TRIM

A4M00983 (x2) ROOF EDGE TRIM SPLICE



H100759 (x20) SCREW TAPPING
1/4x3/4

COMPLETE ON BOTH SIDES



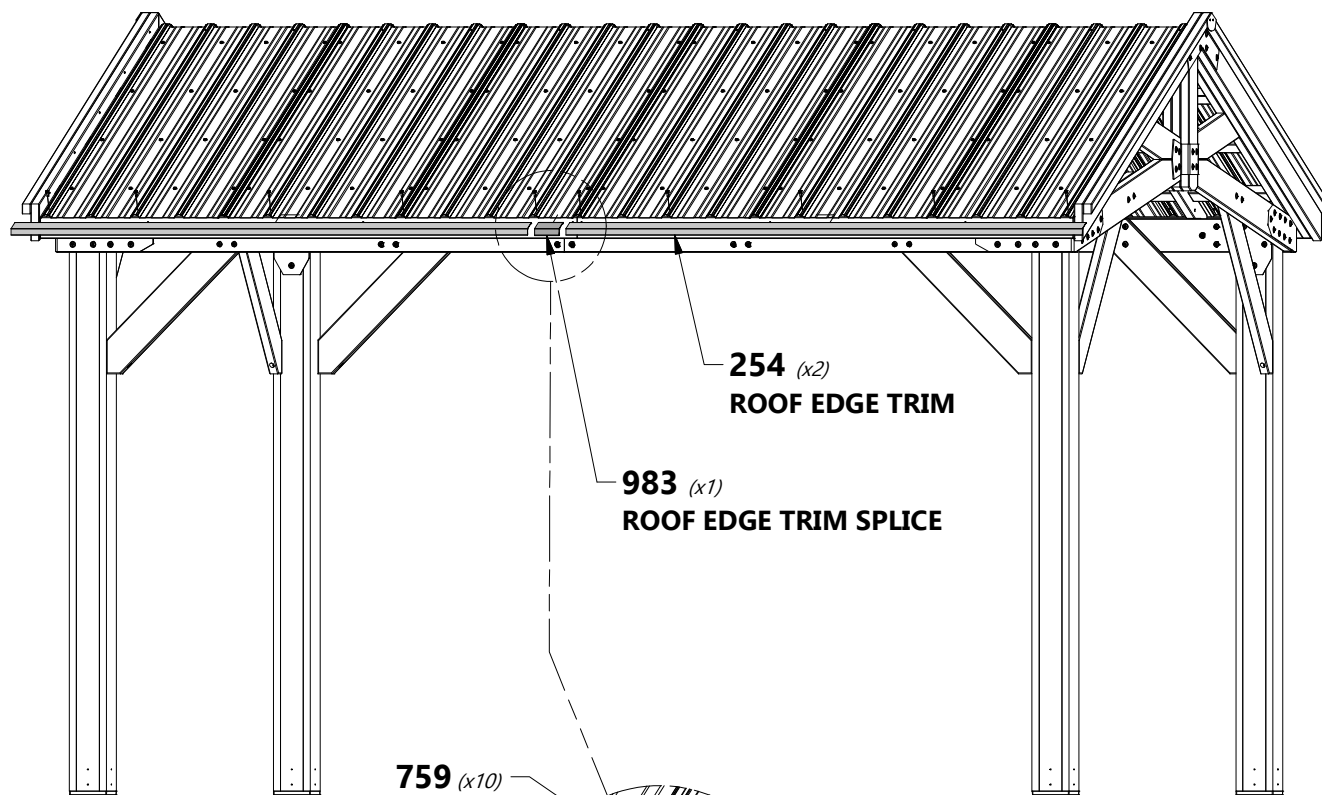
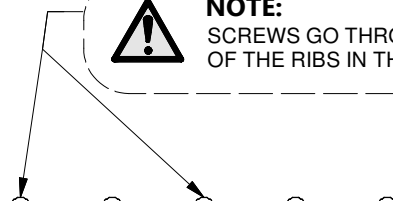
TIP:

DUE TO MULTIPLE LAYERS OF METAL ON THE EDGE TRIM, IT IS RECOMMENDED THAT A 1/8" DRILL BIT IS USED TO CREATE STARTER HOLES.



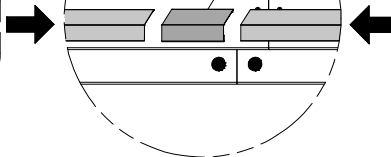
NOTE:

SCREWS GO THROUGH EDGE TRIM INTO THE TOP OF THE RIBS IN THE APPROXIMATE LOCATIONS SHOWN.

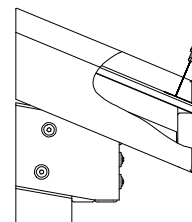


NOTE:

SLIDE EDGE TRIM INTO SPLICE. ENSURE THAT BOTH ENDS ARE FLUSH WITH EDGE OF ROOF PANELS.



SIDE VIEW






STEP 29


A4M01228 | RAFTER BRACKET
(x8)


E06 | ACCESSORY TRUSS - W4L14991
(x2) | 1 3/8"x3 3/8"x73 13/16" (36x86x1875)


H100488 | BOLT WH BLK
(x8) | 1/4x2


H100630 | WASHER FLAT BLK
(x8) | 8x19

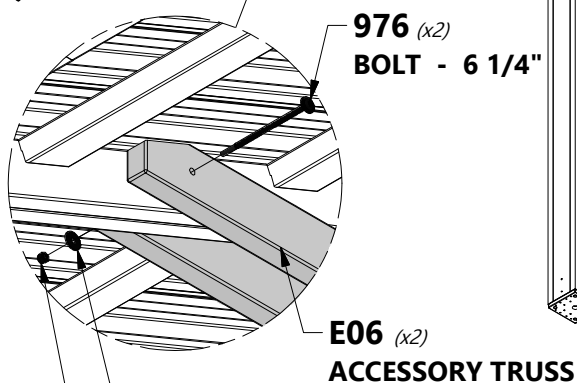
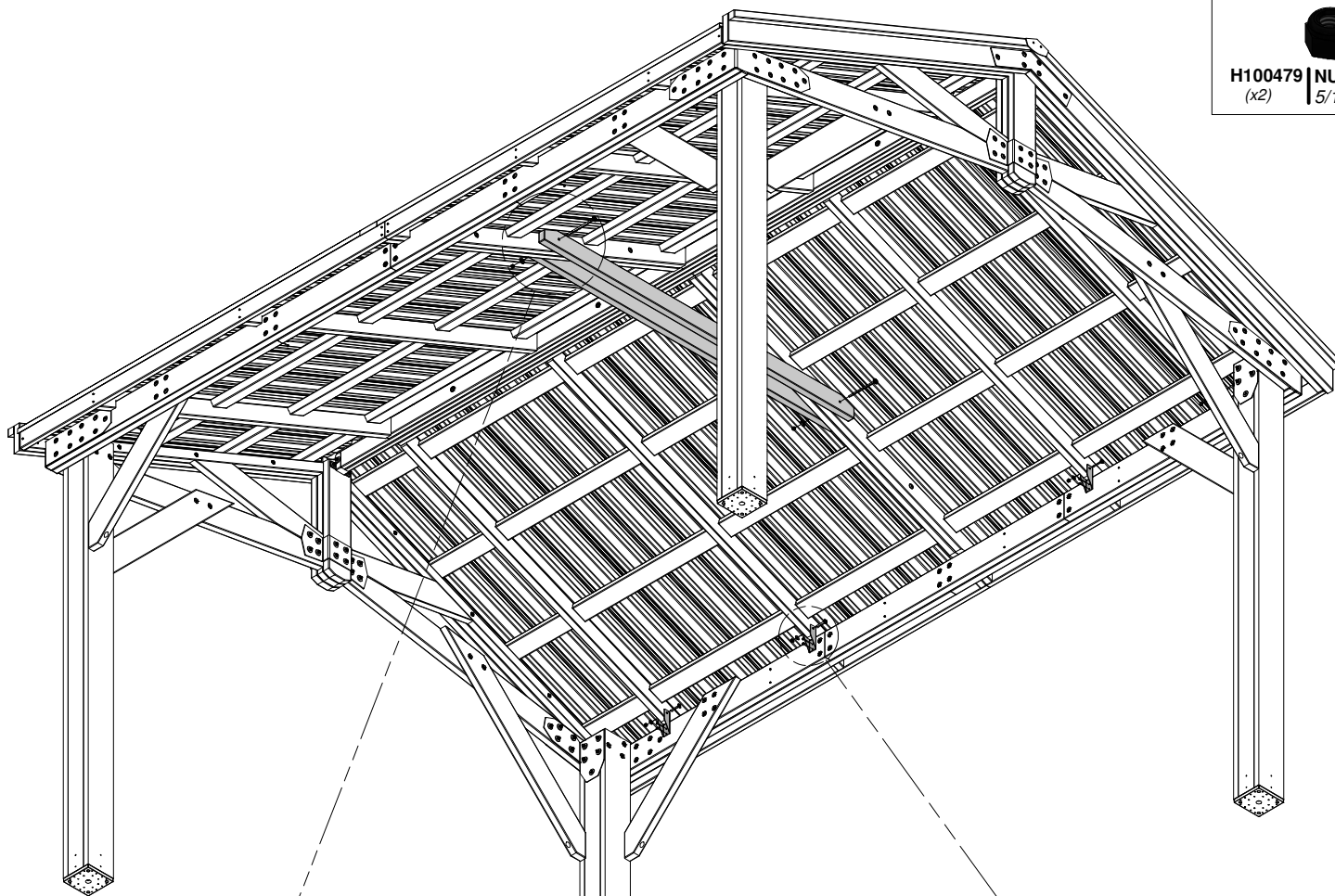

H100653 | NUT LOCK BLK
(x8) | 1/4


H100976 | BOLT WH BLK
(x2) | 5/16x6 1/4


H100823 | SCREW PWH BLK
(x16) | 8x1-1/2

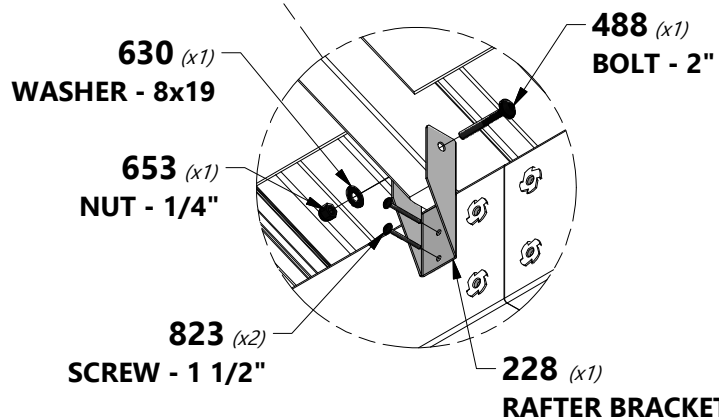

H100478 | WASHER FLAT
BLK
(x2) | 8x27


H100479 | NUT LOCK BLK
(x2) | 5/16

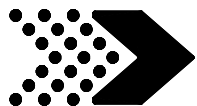


478 (x2)
WASHER - 8x27

479 (x2)
NUT - 5/16"

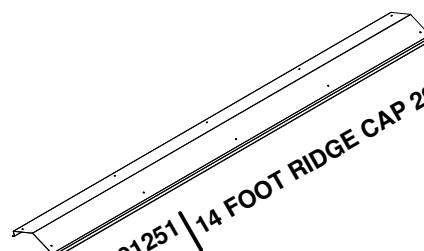


NOTE:
INSTALL ON EACH OF
THE (8) RAFTER ENDS.



STEP 30

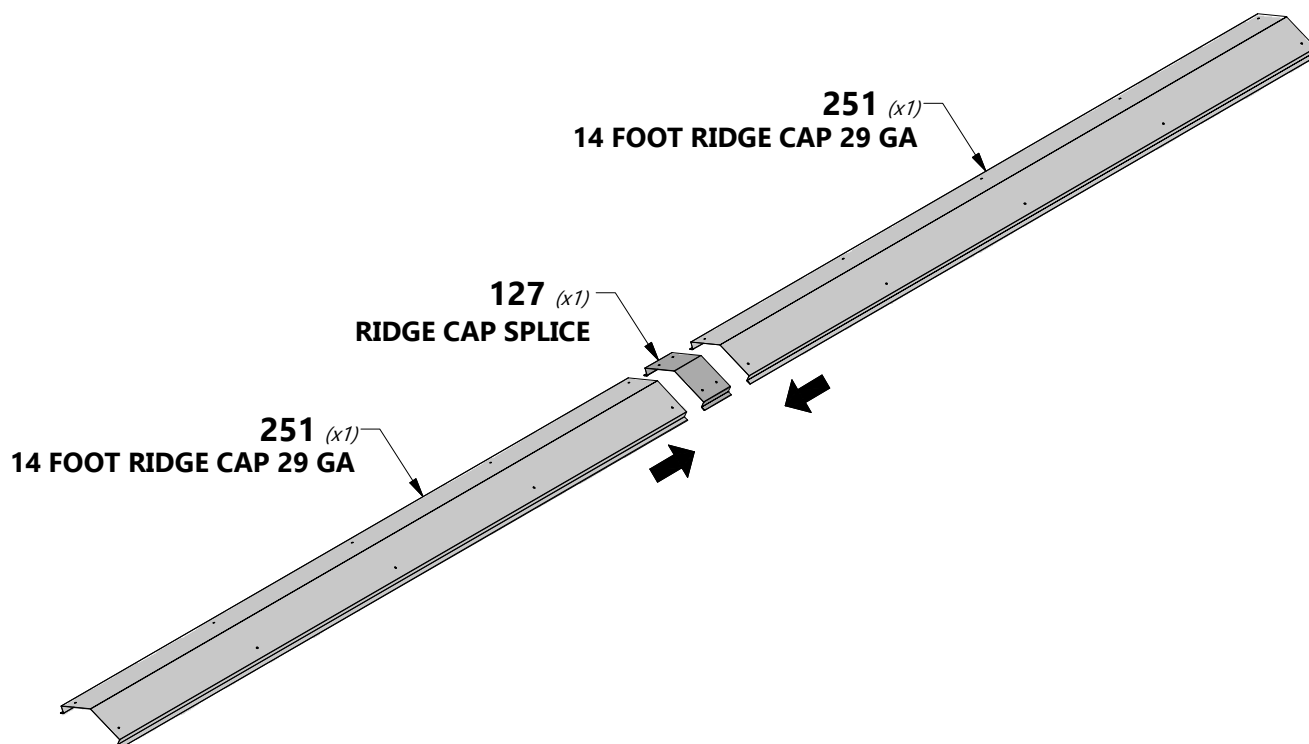

A4M01127
(x1) | **RIDGE CAP SPLICE**


A4M01251
(x2) | **14 FOOT RIDGE CAP 29 GA**

RIDGE CAP ASSEMBLY PREPARATION



NOTE:
INSTALL THE PROVIDED RIDGE CAP
SPLICE BY SLIDING EACH RIDGE CAP INTO
THE SPLICE AS SHOWN UNTIL CENTERED.





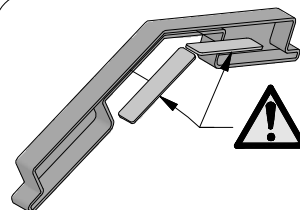
STEP 31


A6P00398
(x2) **RIDGE CAP PROTECTOR**

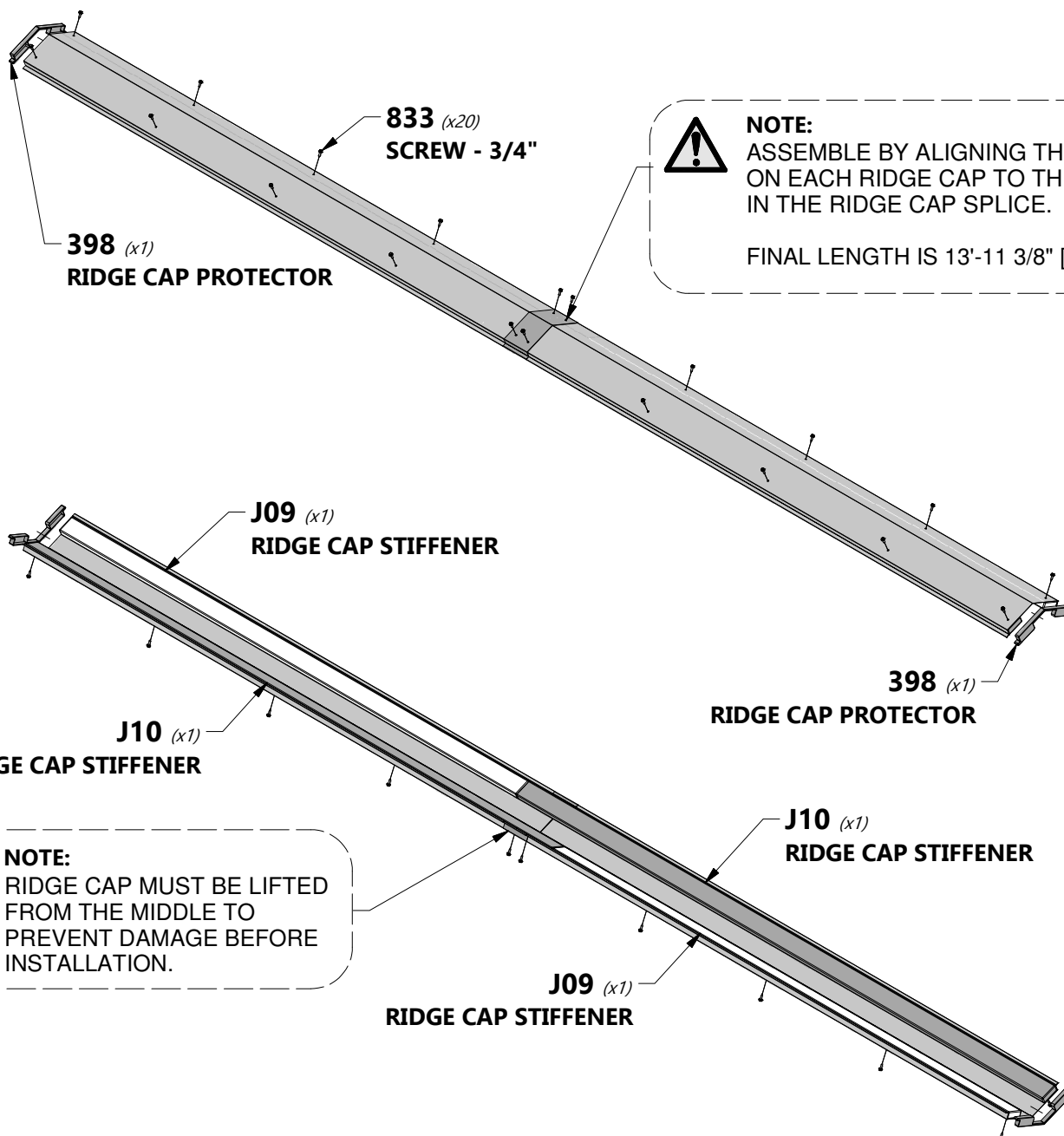
J09 **RIDGE CAP STIFFENER - W4L15002**
(x2) 1"x2 3/8"x77 5/8" (24x60x1973)


H100833 **SCREW**
(x20) **WOODGRIP**
10x3/4

J10 **RIDGE CAP STIFFENER - W4L15003**
(x2) 1"x2 3/8"x89 1/2" (24x60x2273)



NOTE:
REMOVE SPACERS AS
SHOWN BEFORE INSTALLING.

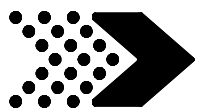


NOTE:
ASSEMBLE BY ALIGNING THE HOLES
ON EACH RIDGE CAP TO THE HOLES
IN THE RIDGE CAP SPLICE.

FINAL LENGTH IS 13'-11 3/8" [4250mm]



NOTE:
RIDGE CAP MUST BE LIFTED
FROM THE MIDDLE TO
PREVENT DAMAGE BEFORE
INSTALLATION.



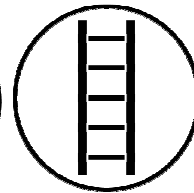
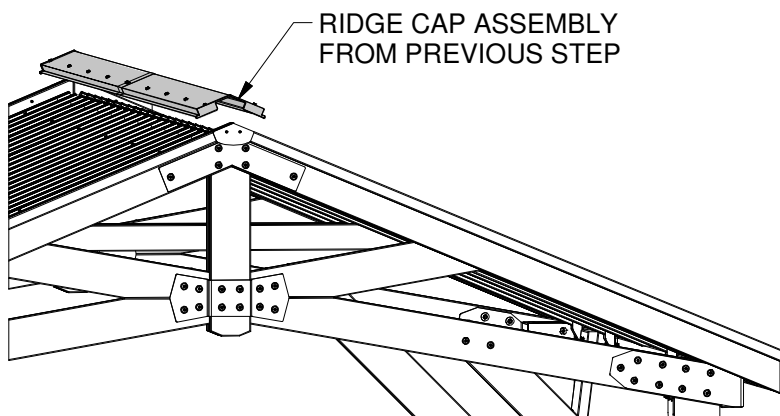
STEP 32



RIDGE CAP ASSEMBLY FROM PREVIOUS STEP



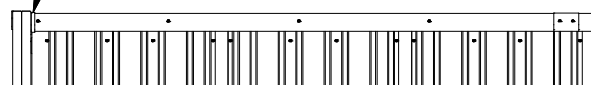
H100392 | SCREW PWH BLK
(x22) | 8x3/4



NOTE:
USING AN ADULT HELPER,
SLIDE RIDGE CAP ASSEMBLY
CAREFULLY ACROSS THE
ROOF RIDGE UNTIL BOTH
ENDS SIT INSIDE RAFTERS
AS SHOWN.

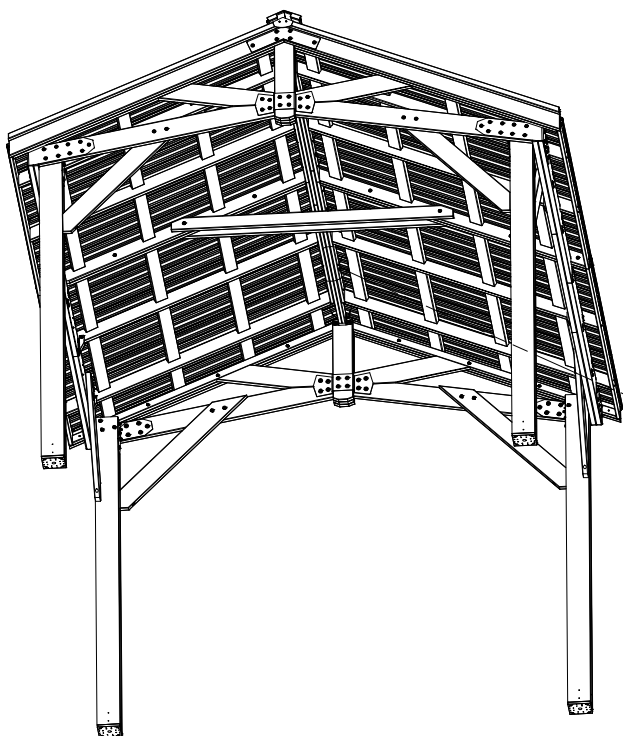


NOTE:
RIDGE CAP ASSEMBLY HAS BEEN
DESIGNED FOR SAFE INSTALLATION
FROM A LADDER AND NO ROOF ACCESS
IS REQUIRED NOR RECOMMENDED.

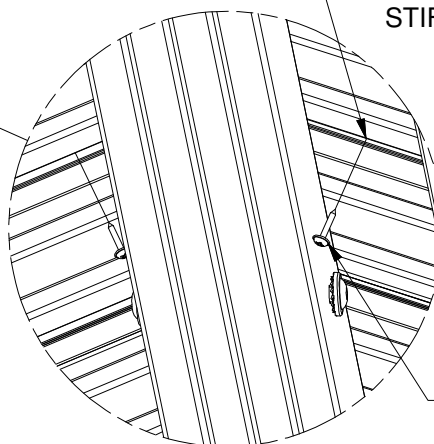


TIP:

FOR PROPER INSTALLATION, USE AN
ADULT HELPER TO KEEP DOWNWARD
PRESSURE ON THE RIDGE CAP DURING
SCREW INSTALLATION.



INSTALL SCREWS THRU PILOT HOLES
IN ROOF PANELS INTO RIDGE CAP
STIFFENER BOARDS.



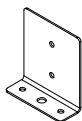
392 (x22)
SCREW - 3/4"



STEP 33



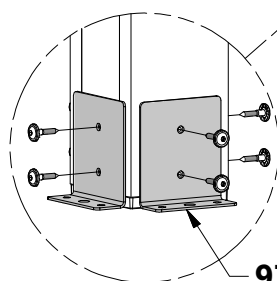
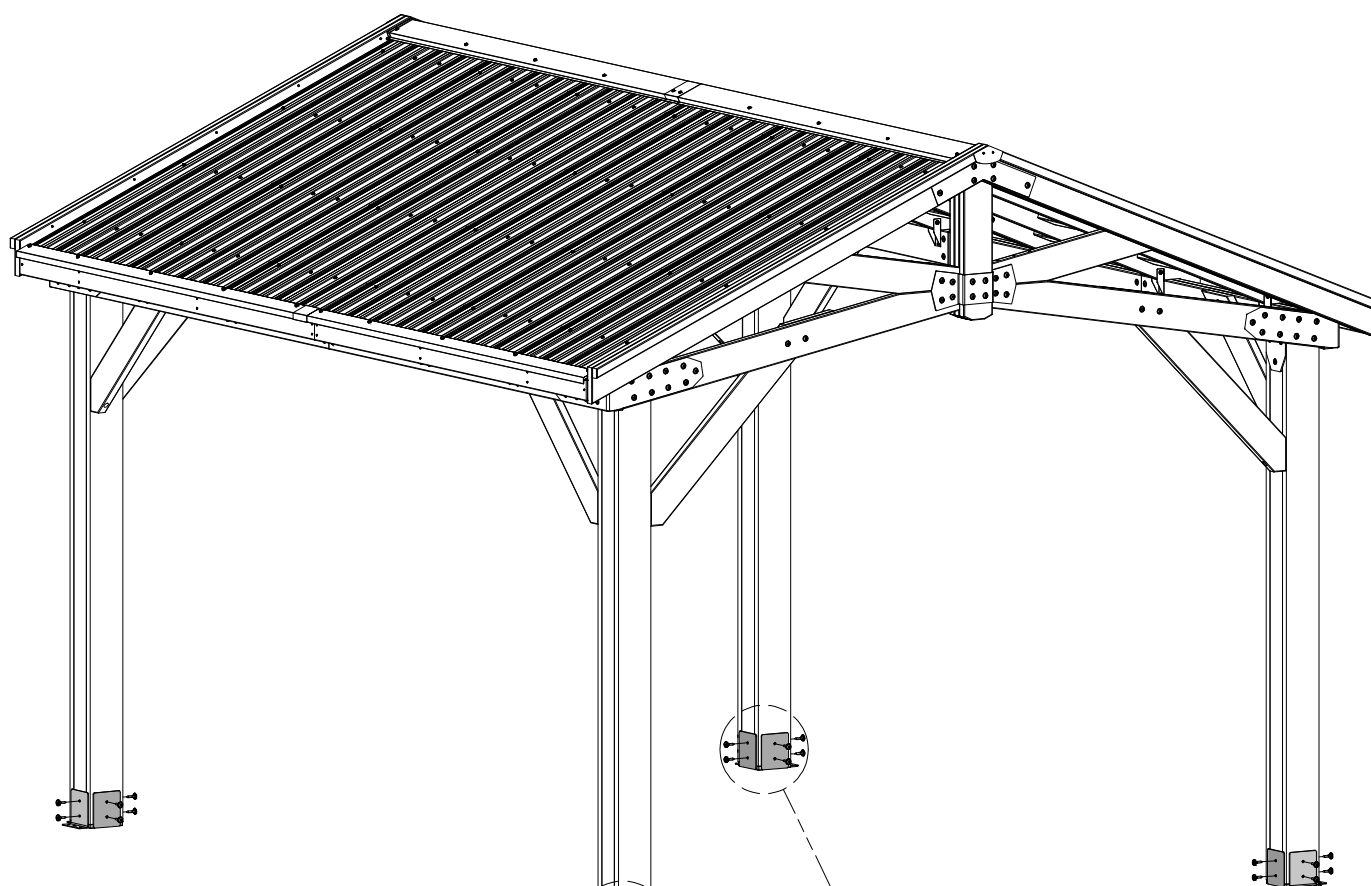
A4M00978
(x8) **POST PLATE**



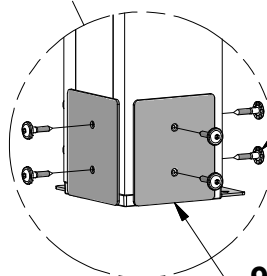
A4M00977
(x8) **POST ANCHORING PLATE**



H100471
(x32) **LAG SCREW**
WH BLK
5/16x1 1/2

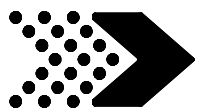


977 (x8)
POST ANCHORING PLATE



978 (x8)
POST PLATE

471 (x32)
LAG SCREW - 1 1/2"



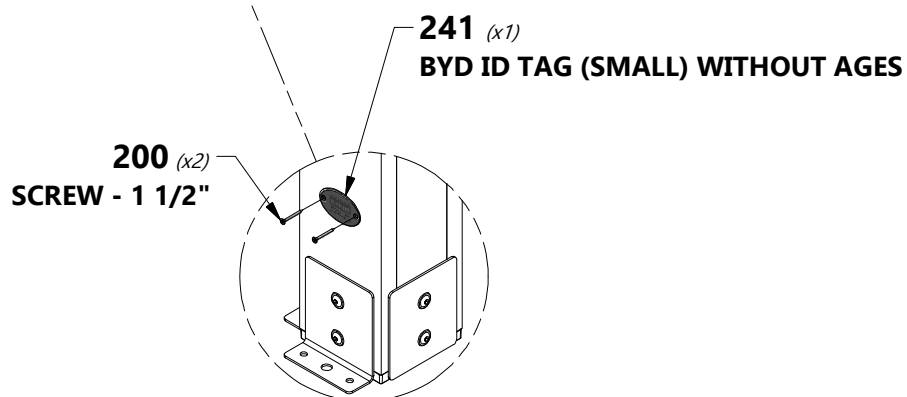
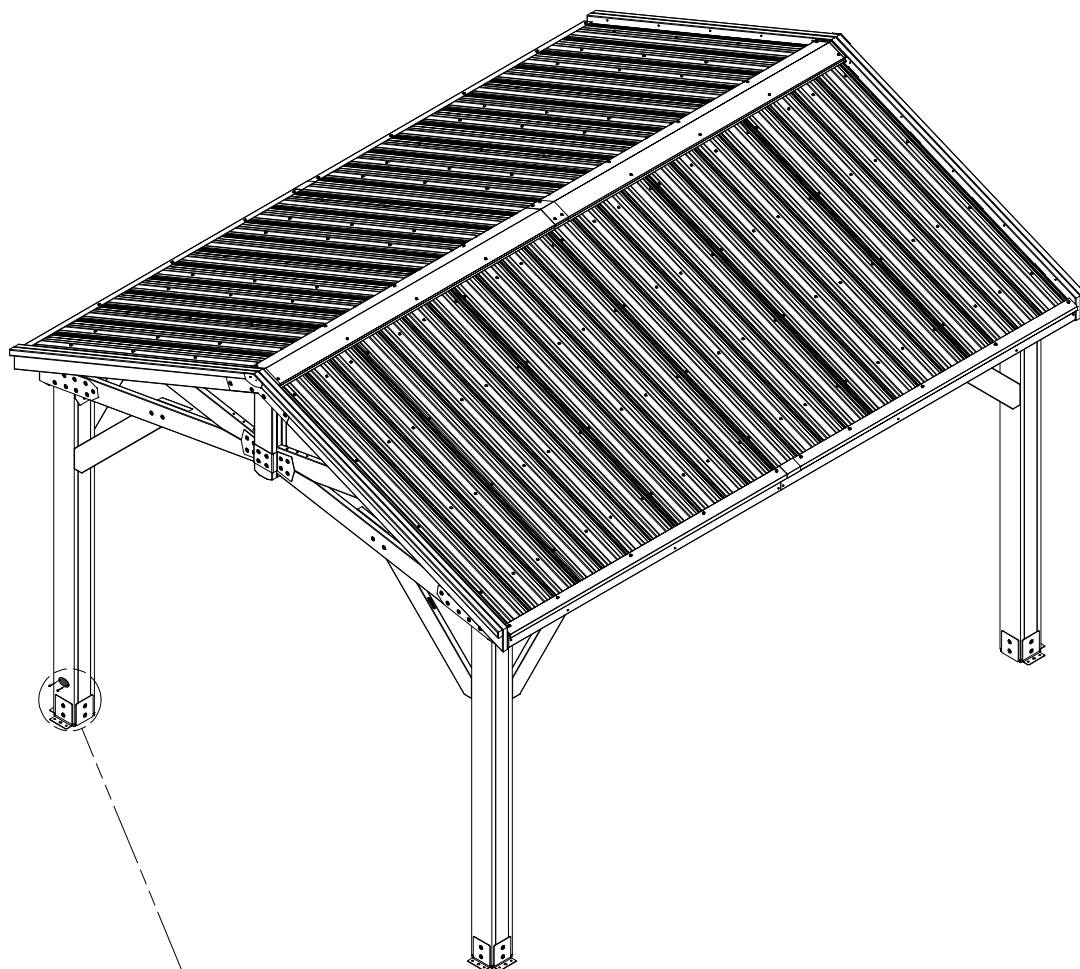
STEP 34



A100241 (x1) BYD ID TAG
(SMALL)
WITHOUT AGES



H100200 (x2) SCREW PFH BLK
8x1 1/2





STEP 35



H100120 | SCREW CONCRETE ANCHOR
(x16) 1/4x2

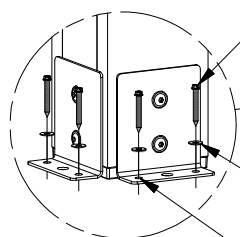
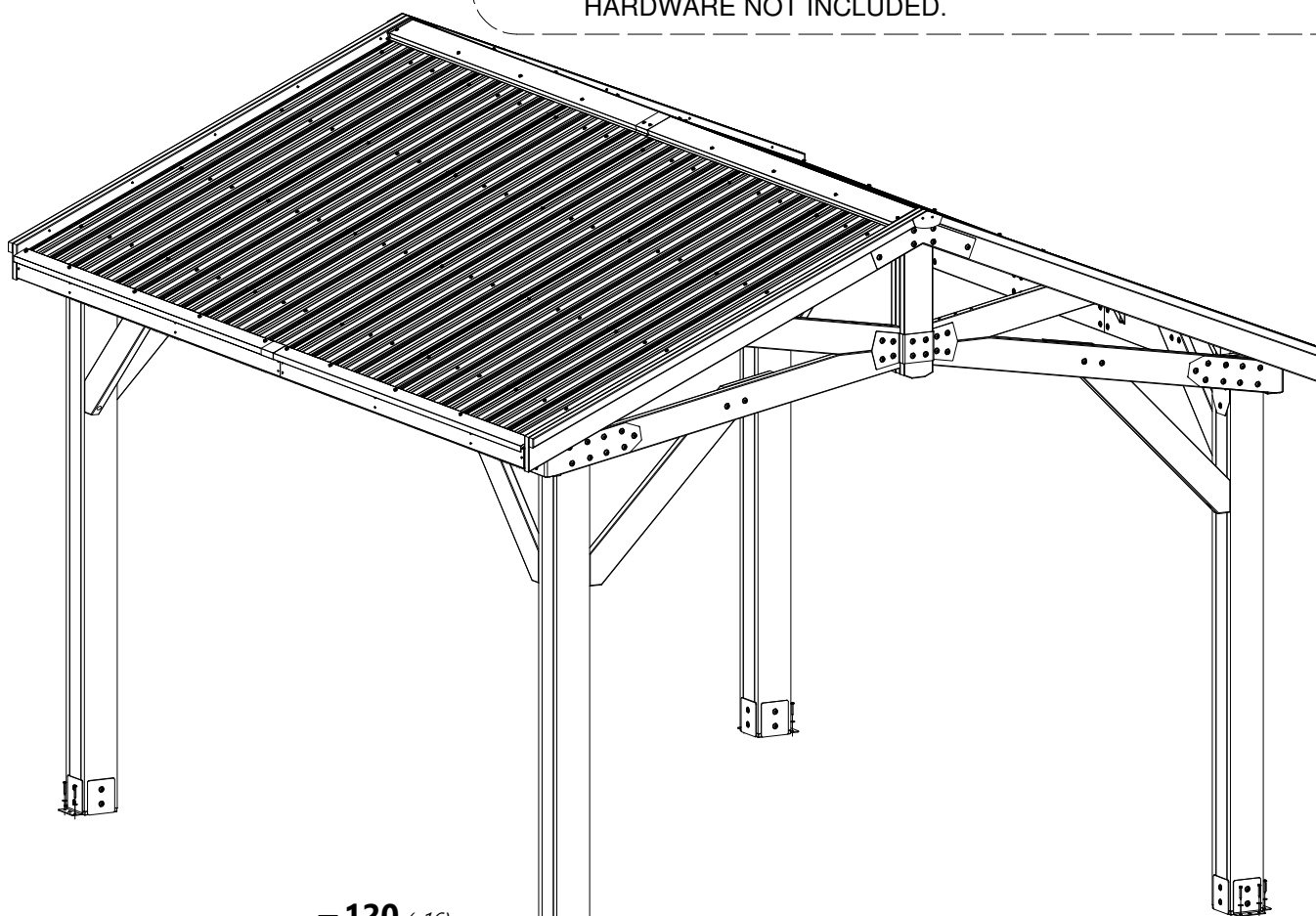


H100630 | WASHER FLAT BLK
(x16) 8x19



NOTE: MANUFACTURER RECOMMENDS INSTALLATION ON CONCRETE SURFACE OR CONCRETE POST PADS. SEE BELOW.

FOR INSTALLATION ON WOOD DECK, YOU MUST ENSURE THERE IS AMPLE STRUCTURAL SUPPORT UNDER DECK. HARDWARE NOT INCLUDED.

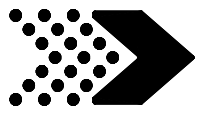


120 (x16)
SCREW - 2"

630 (x16)
WASHER - 8x19

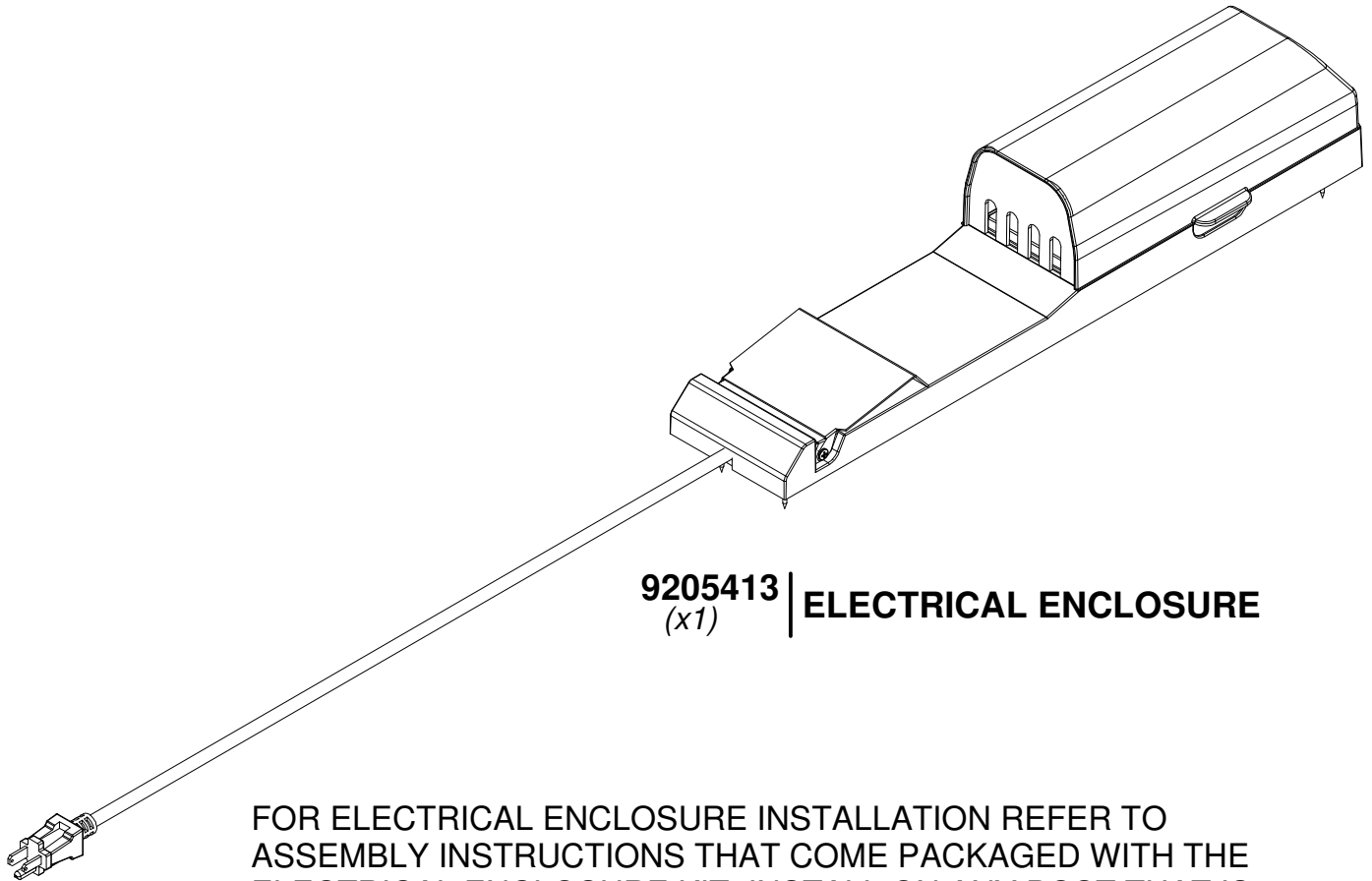


NOTE: PRE-DRILL HOLES FOR CONCRETE ANCHORS USING A 3/16" CONCRETE DRILL BIT.



STEP 36

ELECTRICAL ENCLOSURE



9205413 | **ELECTRICAL ENCLOSURE**
(x1)

FOR ELECTRICAL ENCLOSURE INSTALLATION REFER TO ASSEMBLY INSTRUCTIONS THAT COME PACKAGED WITH THE ELECTRICAL ENCLOSURE KIT. INSTALL ON ANY POST THAT IS DESIRED. FOLLOW DIRECTIONS FOR PROPER INSTALLATION.