



14x10 BROCKTON PERGOLA

Model # 2106543

Owner's Manual & Assembly Instructions

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



**EASY STEP-BY-STEP
3D INTERACTIVE INSTRUCTIONS**

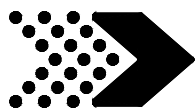
DOWNLOAD THE FREE APP



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

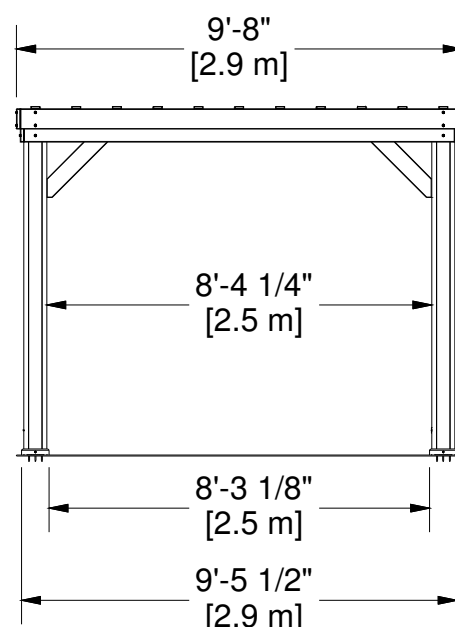
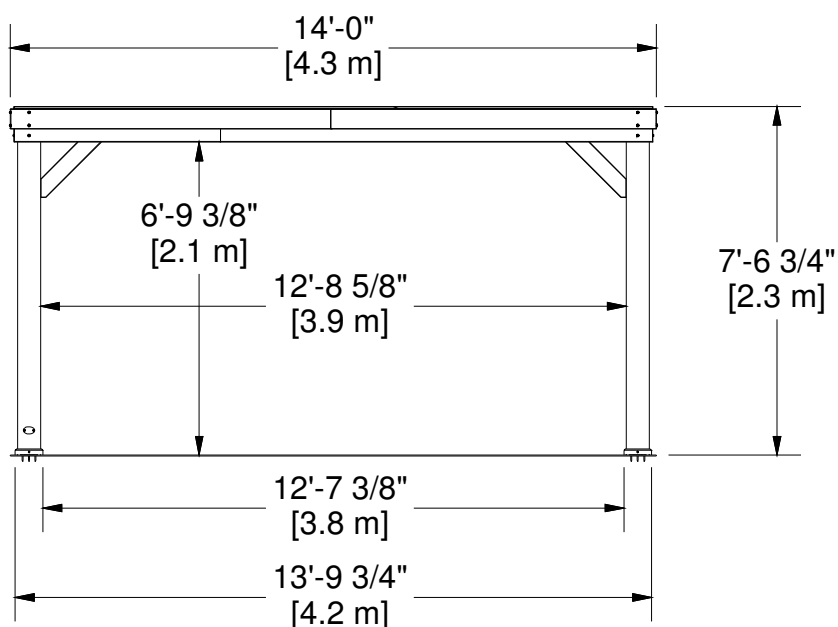
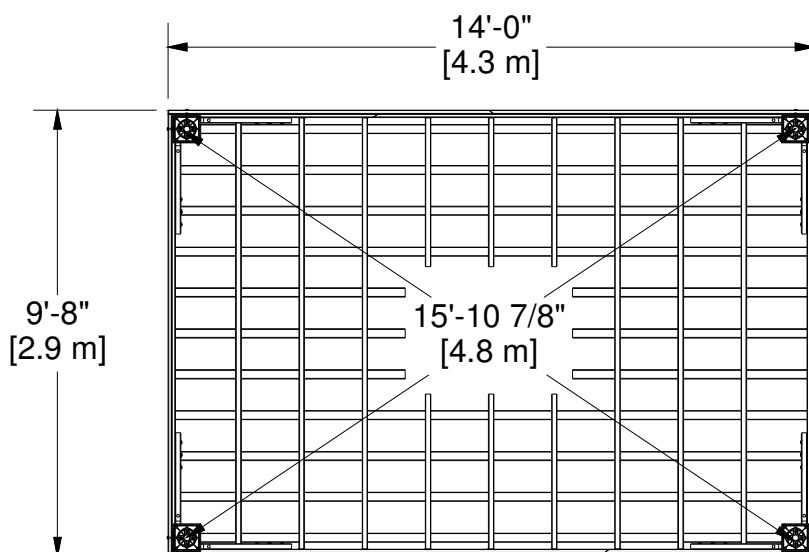


It is critically important that you start with square and level footings, concrete pad or deck to attach your structure

- 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.





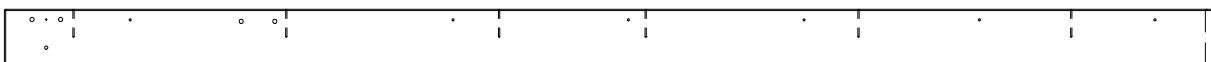
Wood Components (Not to Scale)



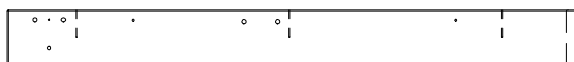
AL1 | RAFTER - W4L13562
(x9) | 1 3/8"x4 3/8"x112 1/4" (36x112x2852)



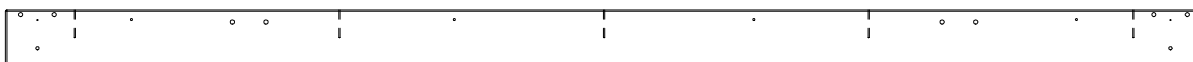
AL2 | CORBEL - W4L13558
(x8) | 1 3/8"x4 3/8"x33 3/8" (36x112x849)



G1 | JOIST - W4L13589
(x2) | 1"x5 1/4"x114" (24x134x2896)



G2 | JOIST - W4L14112
(x2) | 1"x5 1/4"x53 3/4" (24x134x1367)



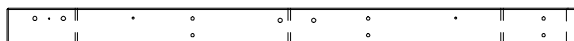
G3 | JOIST - W4L14113
(x2) | 1"x5 1/4"x112 1/4" (24x134x2852)



G4 | FASCIA - W4L13563
(x4) | 1"x5 1/4"x84 7/8" (24x134x2155)



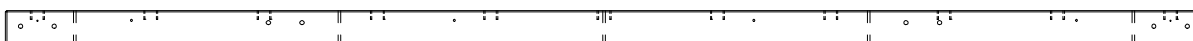
G5 | FASCIA - W4L13564
(x2) | 1"x5 1/4"x114 1/8" (24x134x2900)



H1 | JOIST - W4L13584
(x2) | 1"x3 3/8"x53 3/4" (24x86x1367)



H2 | JOIST - W4L13585
(x2) | 1"x3 3/8"x114" (24x86x2896)



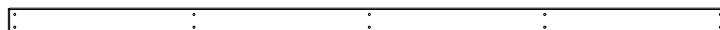
H3 | JOIST - W4L13588
(x2) | 1"x3 3/8"x112 1/4" (24x86x2852)



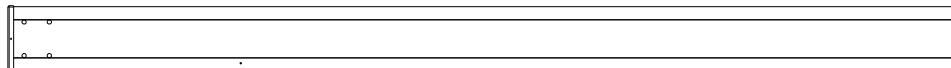
Wood Components (Not to Scale)



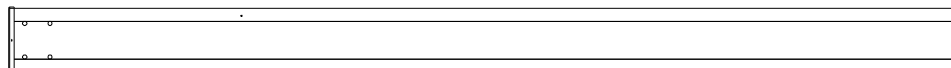
N1 | PURLIN - W4L13565
(x11) | 5/8"x2 3/8"x100 3/8" (16x60x2549)



N2 | PURLIN - W4L14114
(x11) | 5/8"x2 3/8"x67 5/8" (16x60x1719)



P1 | POST - W2A03088
(x2) | 6"x6"x92 1/16" (152x152x2274)



P2 | POST - W2A03089
(x2) | 6"x6"x92 1/16" (152x152x2274)



Hardware Components



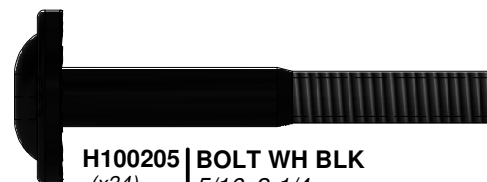
H100200 | SCREW PFH BLK
(x262) | 8x1 1/2



H100382 | SCREW PFH BLK
(x52) | 8x1 3/4



H101008 | SCREW CONFIRMAT BLK
(x39) | 7x3



H100205 | BOLT WH BLK
(x34) | 5/16x2-1/4



H100880 | BOLT WH BLK
(x34) | 5/16x7



H100851 | SCREW PFH BLK
(x30) | 10x6



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



H100405 | WASHER LOCK EXT BLK
(x35) | 6x15



H100392 | SCREW PWH BLK
(x4) | 8x3/4



H100456 | LAG SCREW WH BLK
(x34) | 1/4x2 1/2

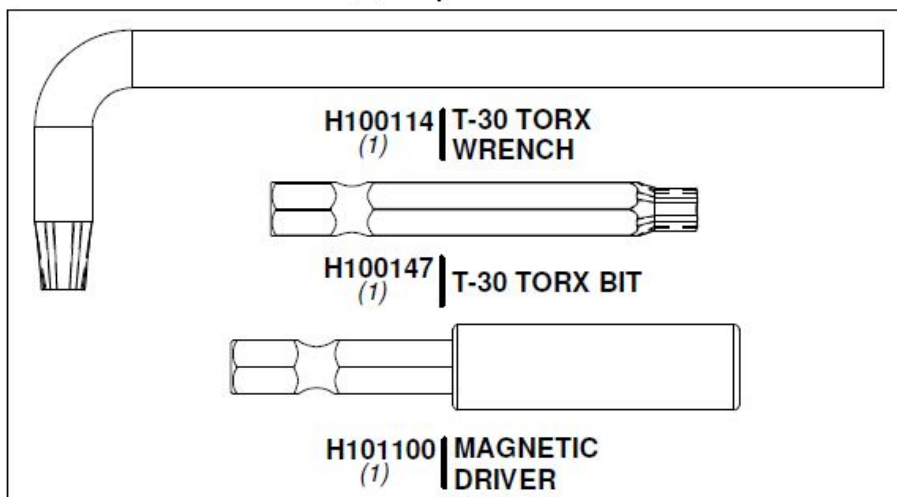


H100120 | SCREW CONCRETE ANCHOR
(x18) | 1/4x2



H100379 | T-NUT BLK
(x66) | 5/16

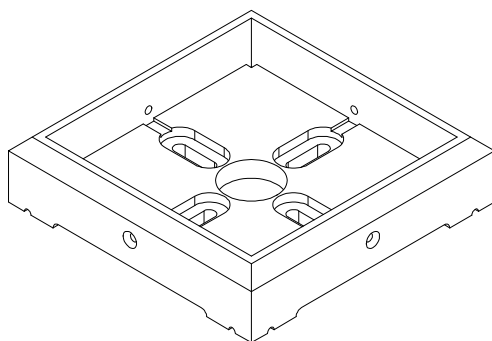
9220119 | TOOL KIT
(1)



H100764 | SCREW SETTER
(x1)



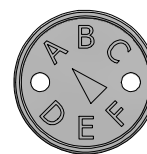
Accessory Components (Not to Scale)



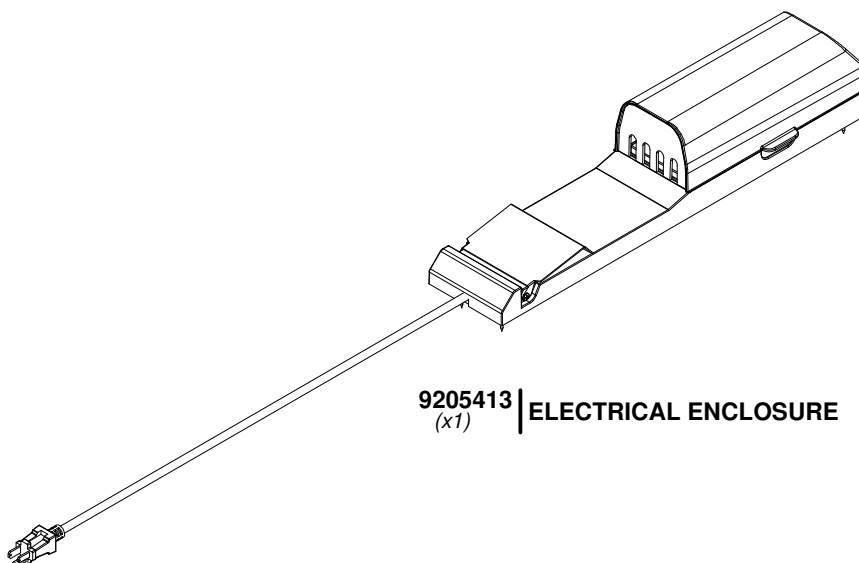
A6P00433
(x4) | **FOOT 154 SQUARE POST**



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



A100314
(x1) | **"A" REVISION TAG**



9205413
(x1) | **ELECTRICAL ENCLOSURE**

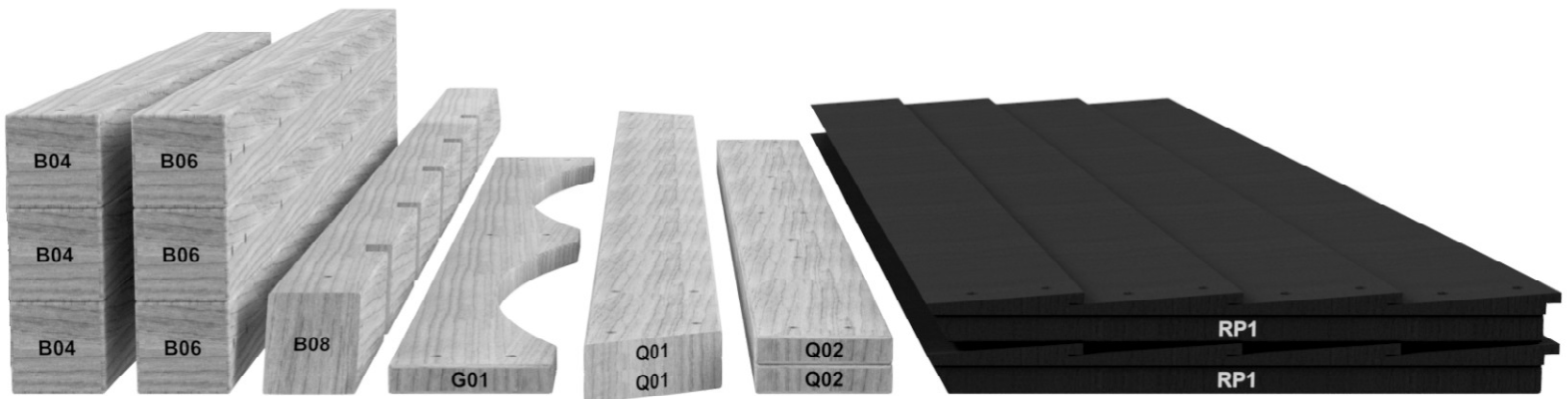
PRE-ASSEMBLY STEP 1 - SORTING PARTS

It is critical for ease of assembly that you take the time to sort and organize the wood and hardware.

WOOD PARTS:

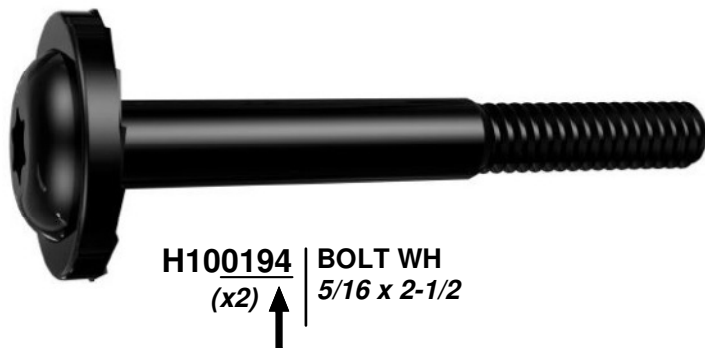
- Organize wood parts by the three-digit, alpha-numeric number stamped on each board (ex. P01).
- If there are multiple boards with the same stamped number, stack those pieces together.
- Stamps can be found on the flat surface of the boards or on the end of the boards.
- Allow yourself plenty of room - the wood pieces can take up a significant amount of space.

NOTE: CARTONS ARE NOT ORGANIZED BY BOARD NUMBER.



HARDWARE PARTS:

- We recommend that you have a separate table to organize the hardware.
- Hardware bags are printed with a seven-digit, alpha-numeric part number.
- You can organize your hardware by part number or group by hardware type (i.e. bolts, nuts, etc.).
- During assembly you only need to reference the last four digits of the number.



PRE-ASSEMBLY STEP 2 - TOOLS REQUIRED



**Cordless Drill or
Electric Drill**



**Drill Attachments:
Phillips Head**



**1/8", 3/16", 3/8" & 7/16"
Drill Bits**



Phillips Screw Driver



Open End Wrenches 1/2" & 9/16"



**3/8" Drive Ratchet, 1/2" &
9/16" STD Sockets 1/2" & 9/16" Deep
Sockets**



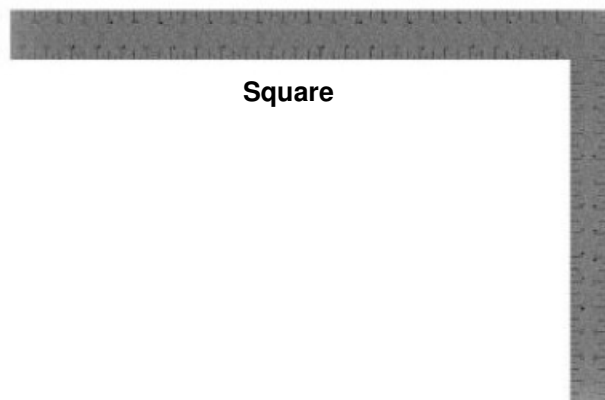
Claw Hammer



Rubber Mallet - Optional



Tape Measure



Square





Level 24"

PRE-ASSEMBLY STEP 3 - CHOOSE YOUR ASSEMBLY METHOD



There are several types of assembly instructions available to you.

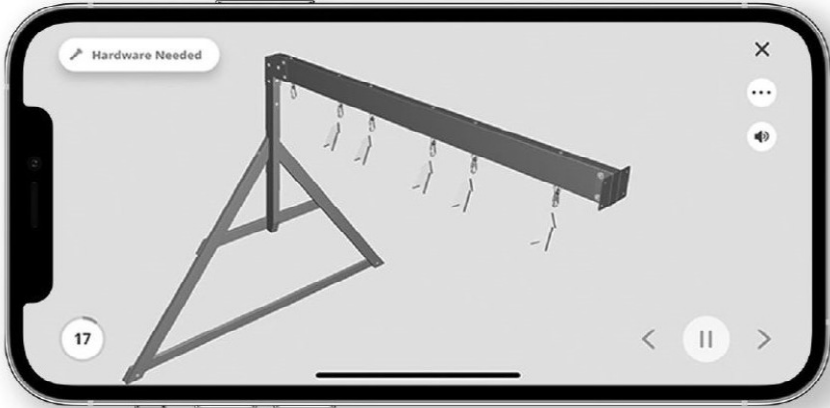
1. **Printed Assembly Manual** included with your set
2. **BILT APP** - 3D interactive instructions
3. **Combination of the Printed Manual and BILT APP** (Note: Step numbers can differ between the two methods)

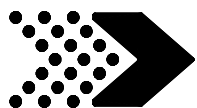


Scan for easy 3D instructions

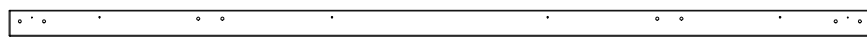
Download the BILT app before you begin



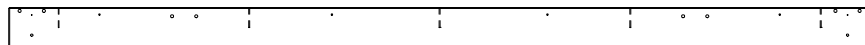




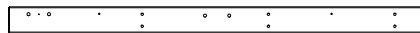
PRE-ASSEMBLY



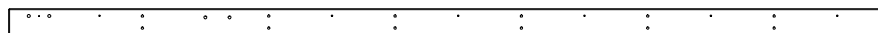
H3 | JOIST - W4L13588
(x2) | 1"x3 3/8"x112 1/4" (24x86x2852)



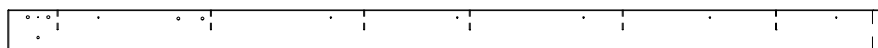
G3 | JOIST - W4L14113
(x2) | 2 1/4" (24x134x2852)



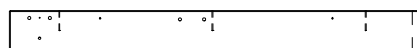
H1 | JOIST - W4L13584
(x2) | 1"x3 3/8"x53 3/4" (24x86x1367)



H2 | JOIST - W4L13585
(x2) | 1"x3 3/8"x114" (24x86x2896)



G1 | JOIST - W4L13589
(x2) | 1"x5 1/4"x114" (24x134x2896)



G2 | JOIST - W4L14112
(x2) | 1"x5 1/4"x53 3/4" (24x134x1367)



H100851 | SCREW PFH BLK
(28) | 10x6



NOTE:

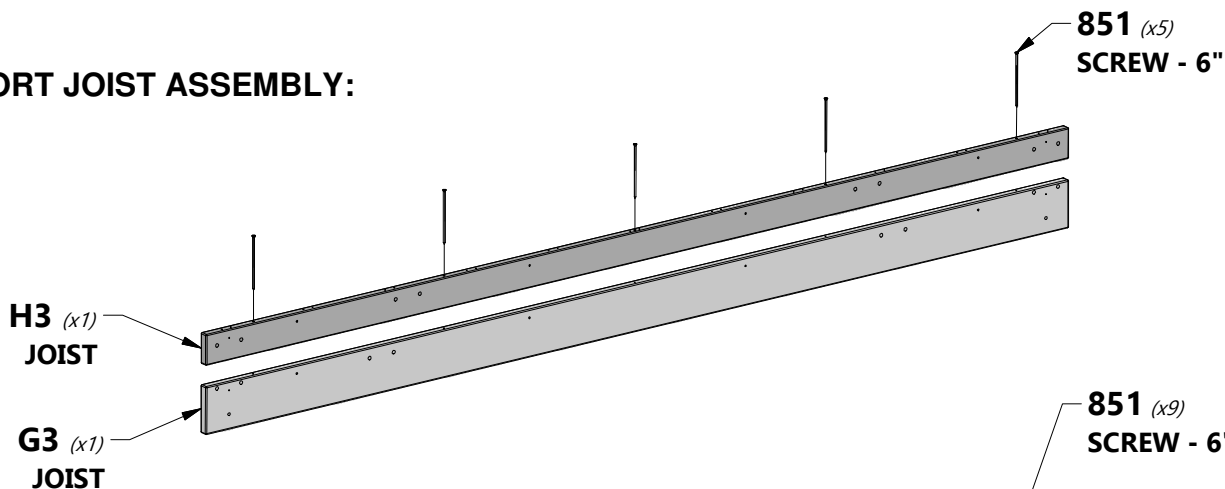
REPEAT STEPS TO COMPLETE TWO "SHORT" AND "LONG" JOIST ASSEMBLIES.



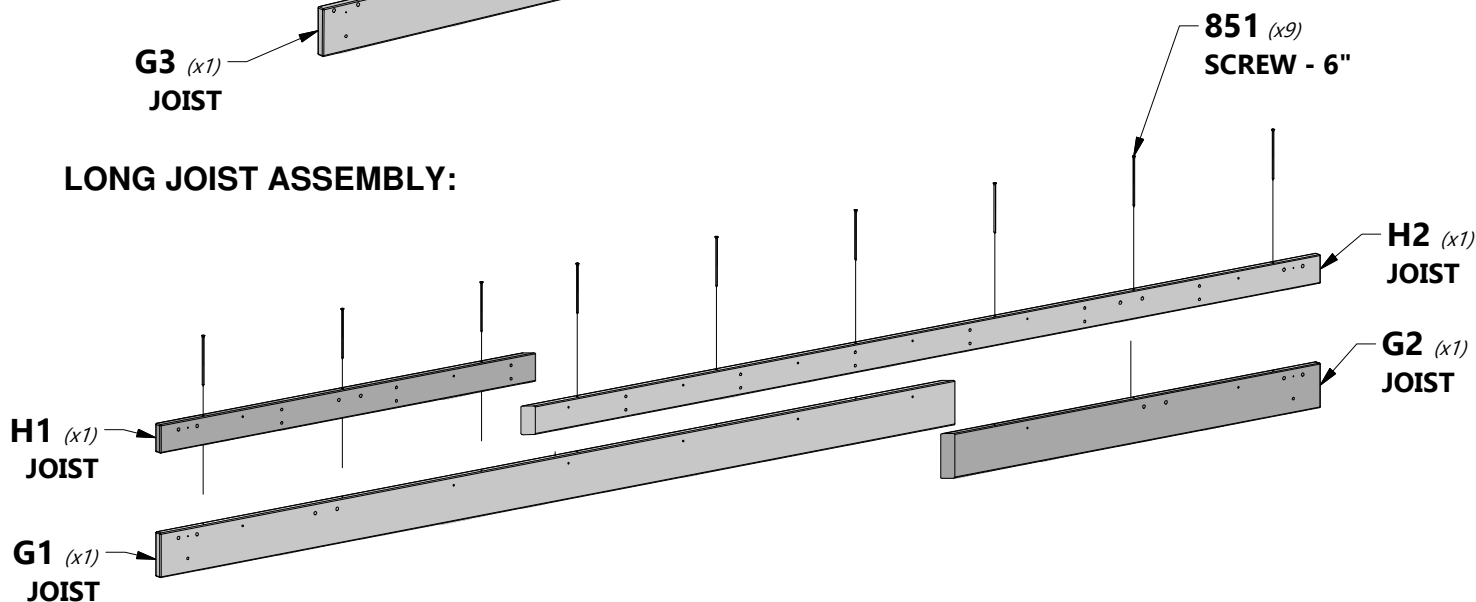
TIP:

LAY PARTS ON GROUND OR SAW HORSES FOR EASE OF ASSEMBLY.

SHORT JOIST ASSEMBLY:

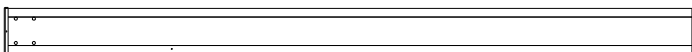


LONG JOIST ASSEMBLY:





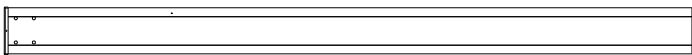
STEP 1



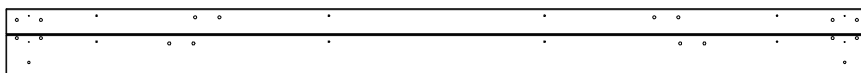
P1 | POST - W2A03088
(x1) | 6"x6"x92 1/16" (152x152x2274)



AL2 | CORBEL - W4L13558
(x2) | 1 3/8"x4 3/8"x33 3/8" (36x112x849)



P2 | POST - W2A03089
(x1) | 6"x6"x92 1/16" (152x152x2274)



(x1) | **SHORT ASSEMBLY**
(FROM PRE-ASSEMBLY STEP)



H100880 | BOLT WH BLK
(x8) | 5/16x7



H100198 | WASHER LOCK EXT BLK
(x16) | 8x19



H100205 | BOLT WH BLK
(x8) | 5/16x2-1/4



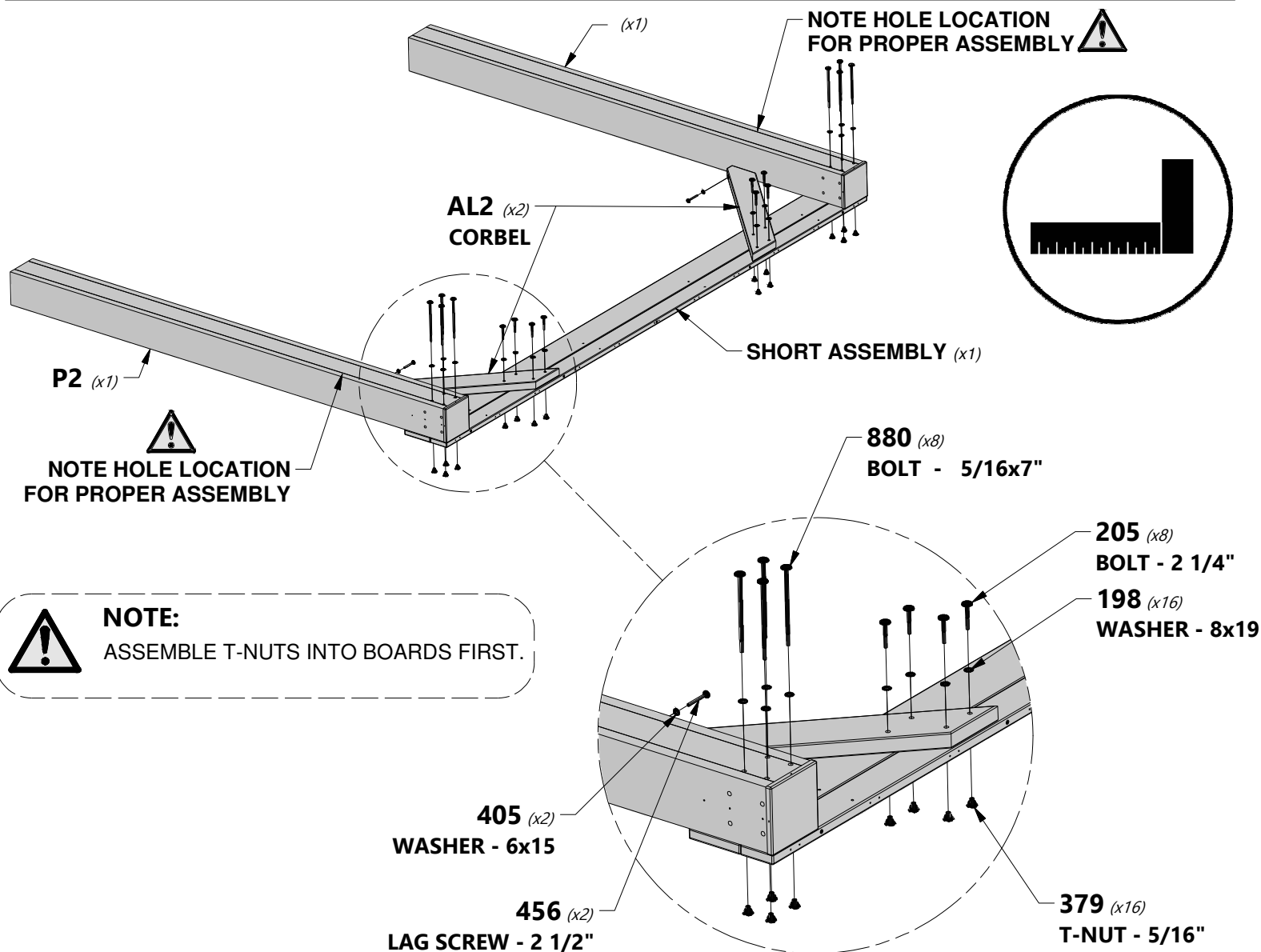
H100379 | T-NUT BLK
(x16) | 5/16



H100456 | LAG SCREW WH BLK
(x2) | 1/4x2 1/2

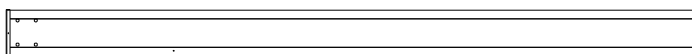


H100405 | WASHER LOCK EXT BLK
(x2) | 6x15





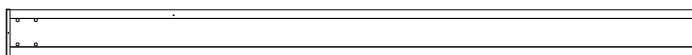
STEP 2



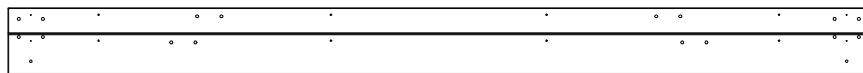
P1 | POST - W2A03088
(x1) | 6"x6"x92 1/16" (152x152x2274)



AL2 | CORBEL - W4L13558
(x2) | 1 3/8"x4 3/8"x33 3/8" (36x112x849)



P2 | POST - W2A03089
(x1) | 6"x6"x92 1/16" (152x152x2274)



(x1) | **SHORT ASSEMBLY**
(FROM PRE-ASSEMBLY STEP)



H100880 | BOLT WH BLK
(x8) | 5/16x7



H100198 | WASHER LOCK EXT BLK
(x16) | 8x19



H100205 | BOLT WH BLK
(x8) | 5/16x2-1/4



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



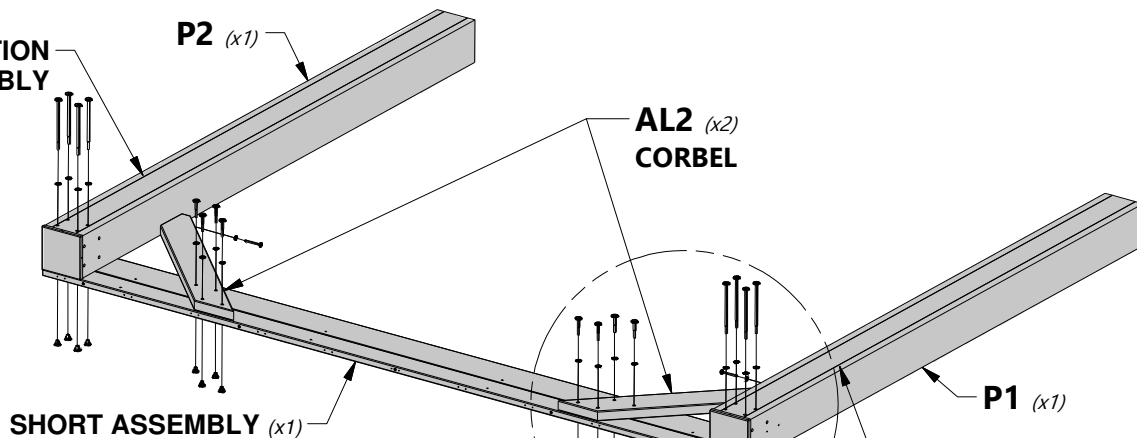
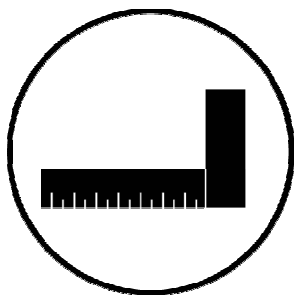
H100456 | LAG SCREW WH BLK
(x2) | 1/4x2 1/2



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



**NOTE HOLE LOCATION
FOR PROPER ASSEMBLY**



**NOTE HOLE LOCATION
FOR PROPER ASSEMBLY**

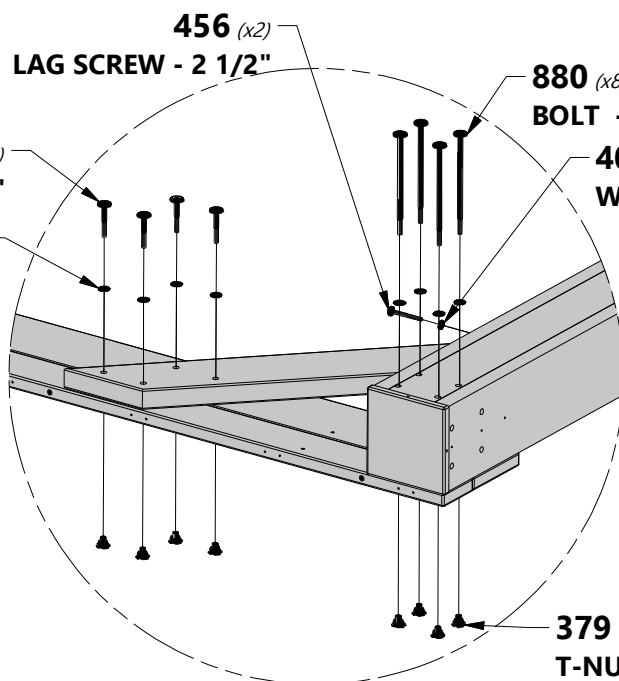
456 (x2)
LAG SCREW - 2 1/2"

205 (x8)
BOLT - 2 1/4"

198 (x16)
WASHER - 8x19

880 (x8)
BOLT - 5/16x7"

405 (x2)
WASHER - 6x15



379 (x16)
T-NUT - 5/16"



NOTE:

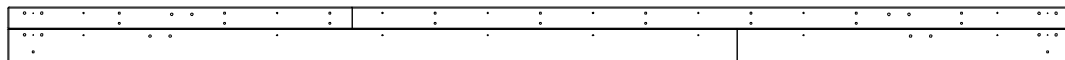
ASSEMBLE T-NUTS INTO BOARDS
FIRST.



STEP 3



AL2 | **CORBEL - W4L13558**
(x4) | 1 3/8"x4 3/8"x33 3/8" (36x112x849)



(x2) | **LONG ASSEMBLY**
(FROM PRE-ASSEMBLY STEP)



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



H100198 | **WASHER LOCK EXT BLK**
(x16) | 8x19

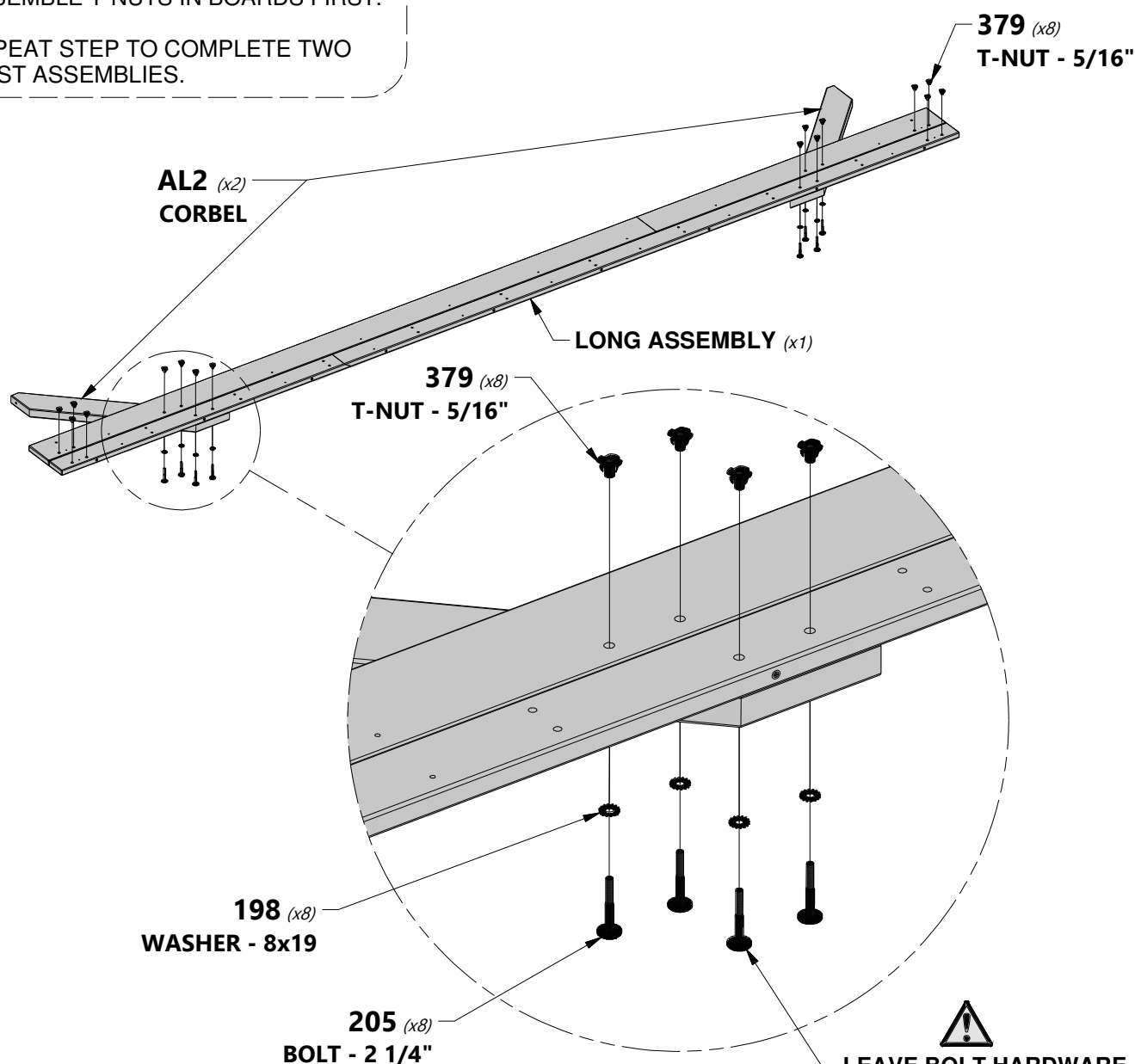


H100379 | **T-NUT BLK**
(x32) | 5/16



NOTE:

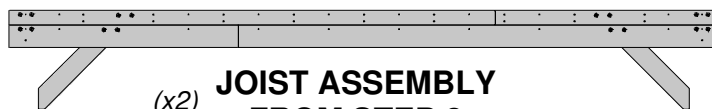
1. ASSEMBLE T-NUTS IN BOARDS FIRST.
2. REPEAT STEP TO COMPLETE TWO JOIST ASSEMBLIES.



**LEAVE BOLT HARDWARE
LOOSE FOR EASE OF
ASSEMBLY IN FUTURE
STEPS.**



STEP 4



(x2) **JOIST ASSEMBLY
FROM STEP 3.**



H100880 | BOLT WH BLK
(x16) | 5/16x7



H100198 | WASHER LOCK EXT BLK
(x16) | 8x19



H100456 | LAG SCREW WH BLK
(x4) | 1/4x2 1/2

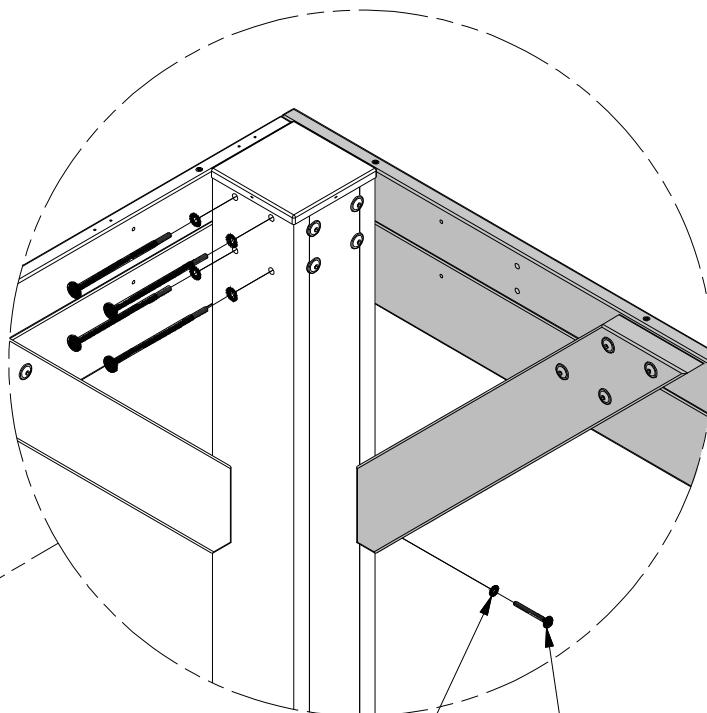
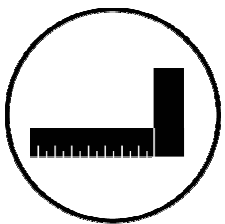


H100405 | WASHER LOCK EXT BLK
(x4) | 6x15



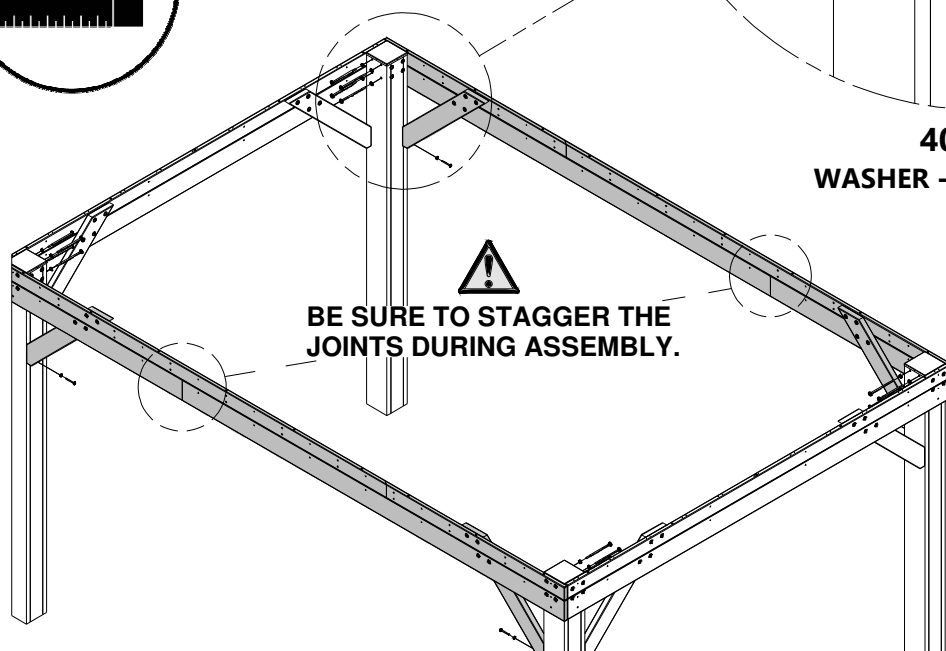
NOTE:

ASSEMBLE T-NUTS INTO BOARDS
FIRST.

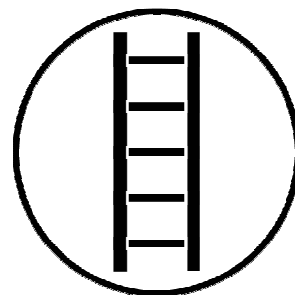


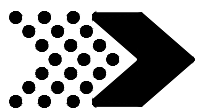
405 (x4)
WASHER - 6x15

456 (x4)
LAG SCREW - 2 1/2"



**BE SURE TO STAGGER THE
JOINTS DURING ASSEMBLY.**





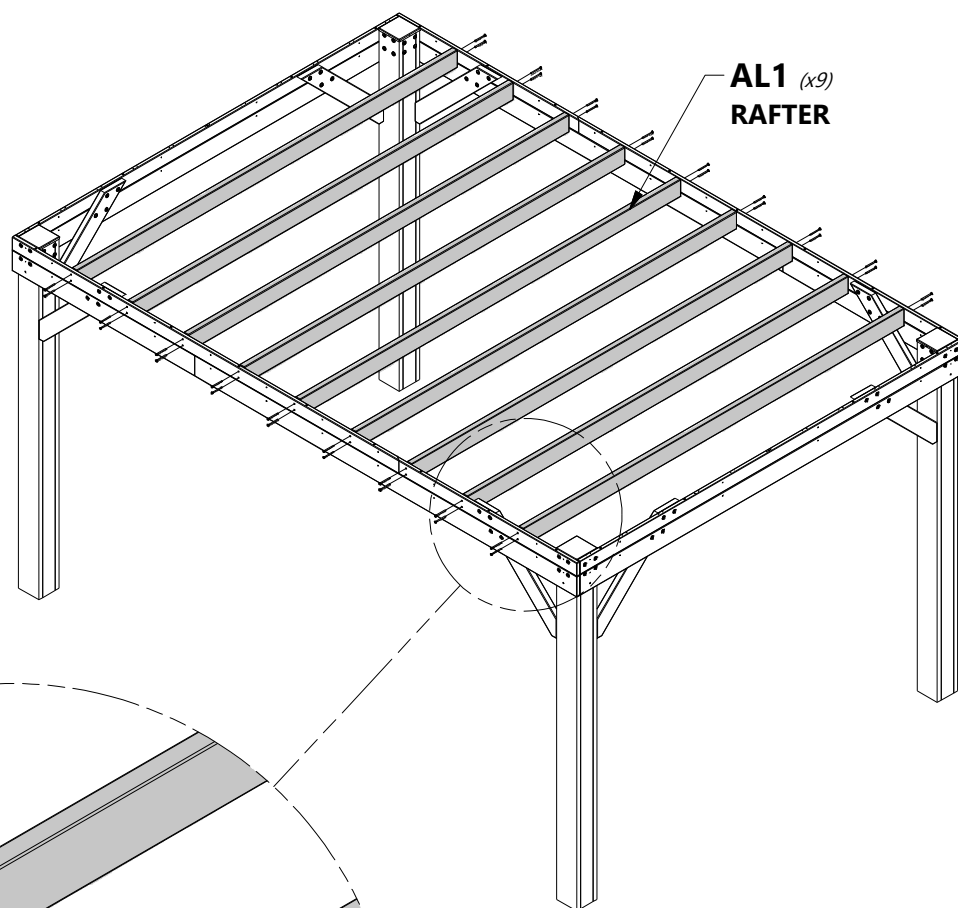
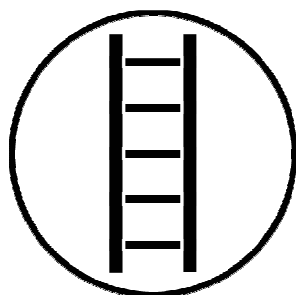
STEP 5



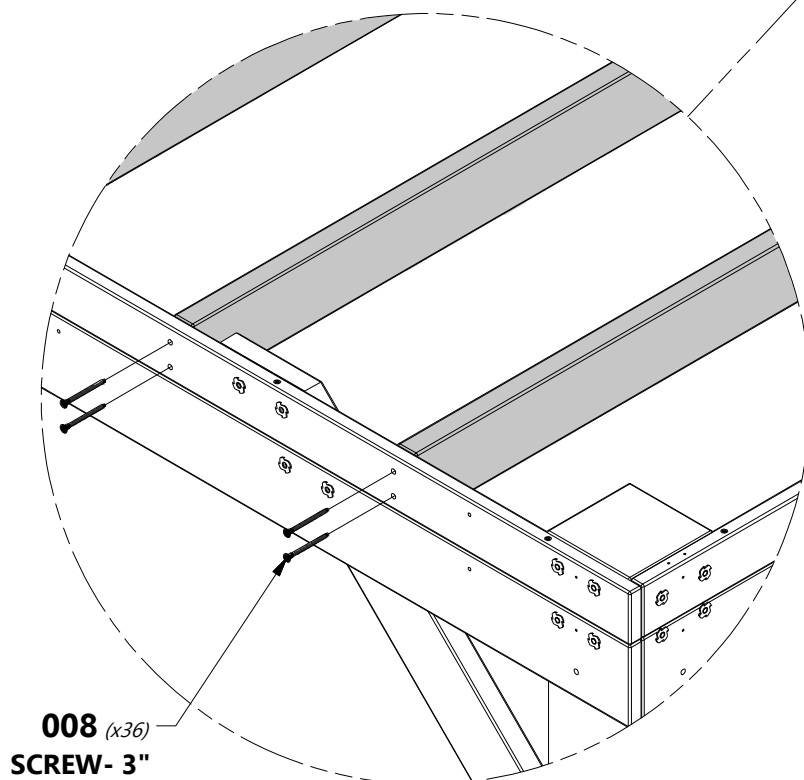
AL1 | RAFTER - W4L13562
(x9) | 1 3/8"x4 3/8"x112 1/4" (36x112x2852)



H101008 | SCREW CONFIRMAT BLK
(x36) | 7x3



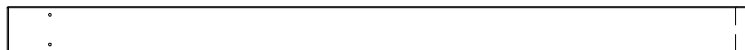
AL1 (x9)
RAFTER



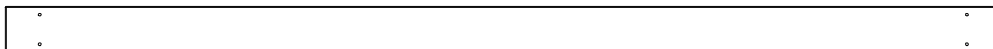
008 (x36)
SCREW- 3"



STEP 6



G4 | FASCIA - W4L13563
(x4) | 1"x5 1/4"x84 7/8" (24x134x2155)



G5 | FASCIA - W4L13564
(x2) | 1"x5 1/4"x114 1/8" (24x134x2900)



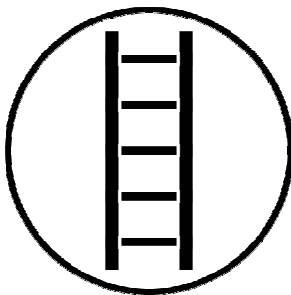
H100456 | LAG SCREW WH BLK
(x24) | 1/4x2 1/2



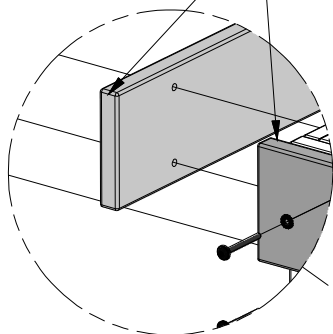
H100382 | SCREW PFH BLK
(x48) | 8x1 3/4



H100405 | WASHER LOCK EXT BLK
(x24) | 6x15



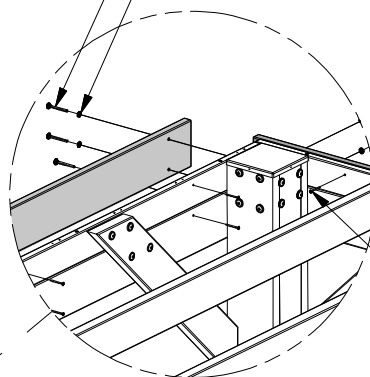
NOTE OVERLAP
OF BOARDS.



NOTE:
FOLLOW SEQUENCE 1
THRU 6 FOR ATTACHING
FASCIA BOARDS.

456 (x24)
LAG SCREW - 2 1/2"

405 (x24)
WASHER - 6x15



382 (x44)
SCREW - 1 3/4"

G5 (x2)
FASCIA

1

6

5

2

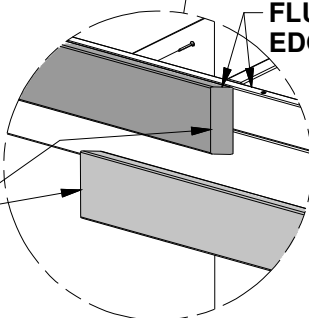
G4 (x4)
FASCIA

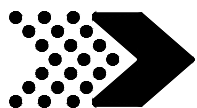
3

4


FLUSH TOP
EDGES


NOTE OVERLAP
OF BOARDS.





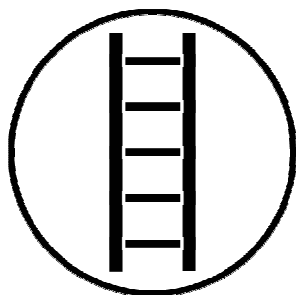
STEP 7

N1 | PURLIN - W4L13565
(x11) 5/8"x2 3/8"x100 3/8" (16x60x2549)

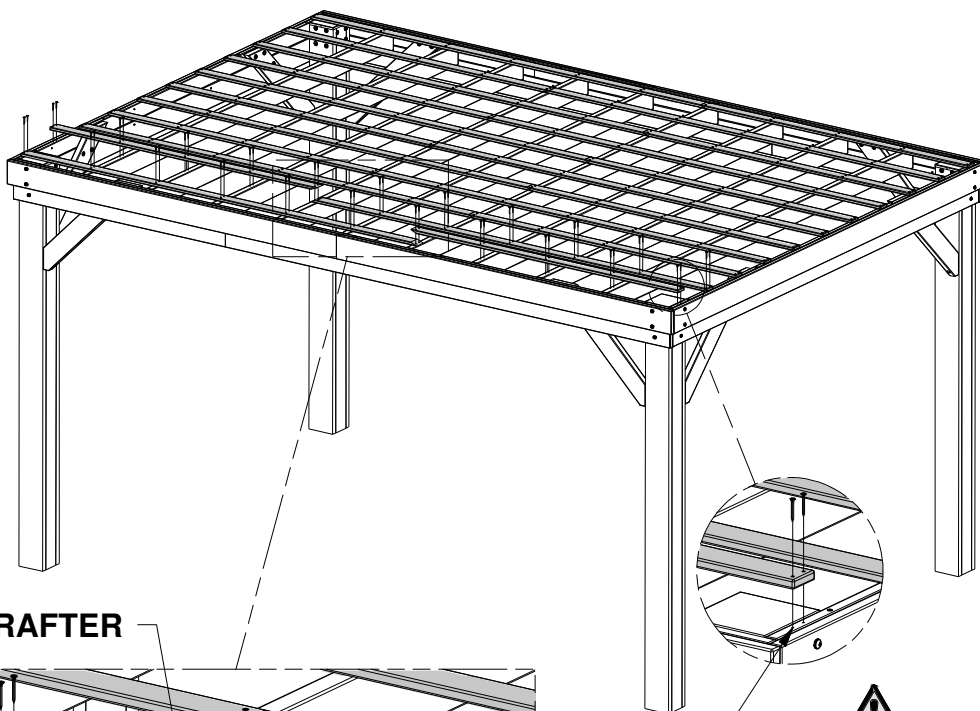
N2 | PURLIN - W4L14114
(x11) 5/8"x2 3/8"x67 5/8" (16x60x1719)



H100200 | SCREW PFH BLK
(x242) 8x1 1/2



PURLIN SPACING



**USE PILOT HOLES TO
HELP SPACE PURLINS.**

**200 (x242)
SCREW - 1 1/2"**

CENTER RAFTER

**N1 (x11)
PURLIN**

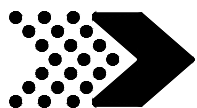
**NOTE OVERLAP
OF BOARDS.**

**N2 (x11)
PURLIN**

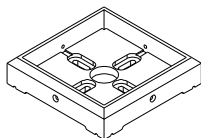


NOTE:

ALTERNATE SHORT AND
LONG PURLIN ACROSS THE
RAFTERS FOR STABILITY, AS
SHOWN.



STEP 8



A6P00433

(x4)

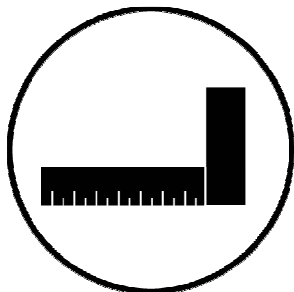
FOOT 154 SQUARE POST



NOTE:

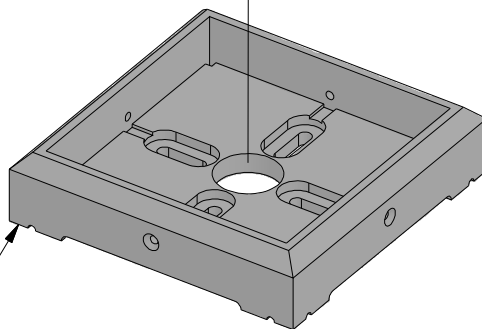
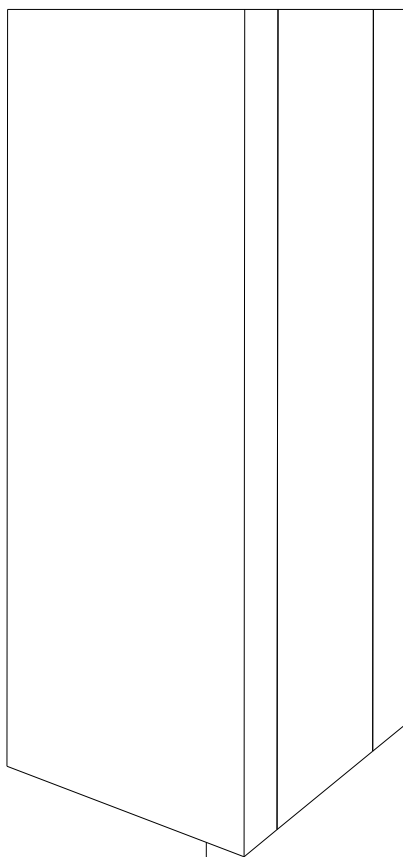
DECIDE WHERE TO PLACE THE PERGOLA. NOTE THIS MOUNTING PROCEDURE IS MEANT TO BE USED ON CONCRETE ONLY.

PLACE THE PERGOLA EXACTLY WHERE IT WILL BE ANCHORED WHEN COMPLETED AND SLIDE A FOOT UNDER EACH POST.



NOTE:

SQUARE POSTS AND
TIGHTEN ALL BOLTS AND
SCREWS AT THIS TIME.



433 (x1)

FOOT 154 SQUARE POST

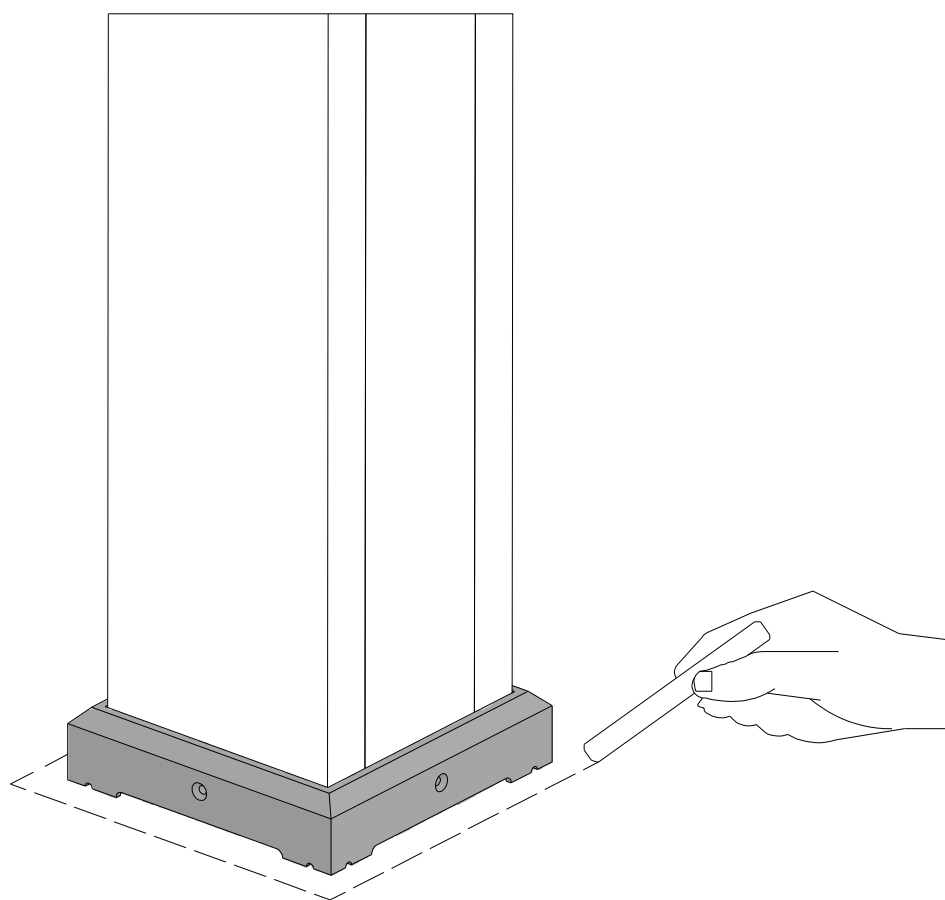


STEP 9



NOTE:

USE CHALK TO TRACE AROUND THE EDGES OF EACH FOOT TO MARK THE FEET LOCATIONS.





STEP 10



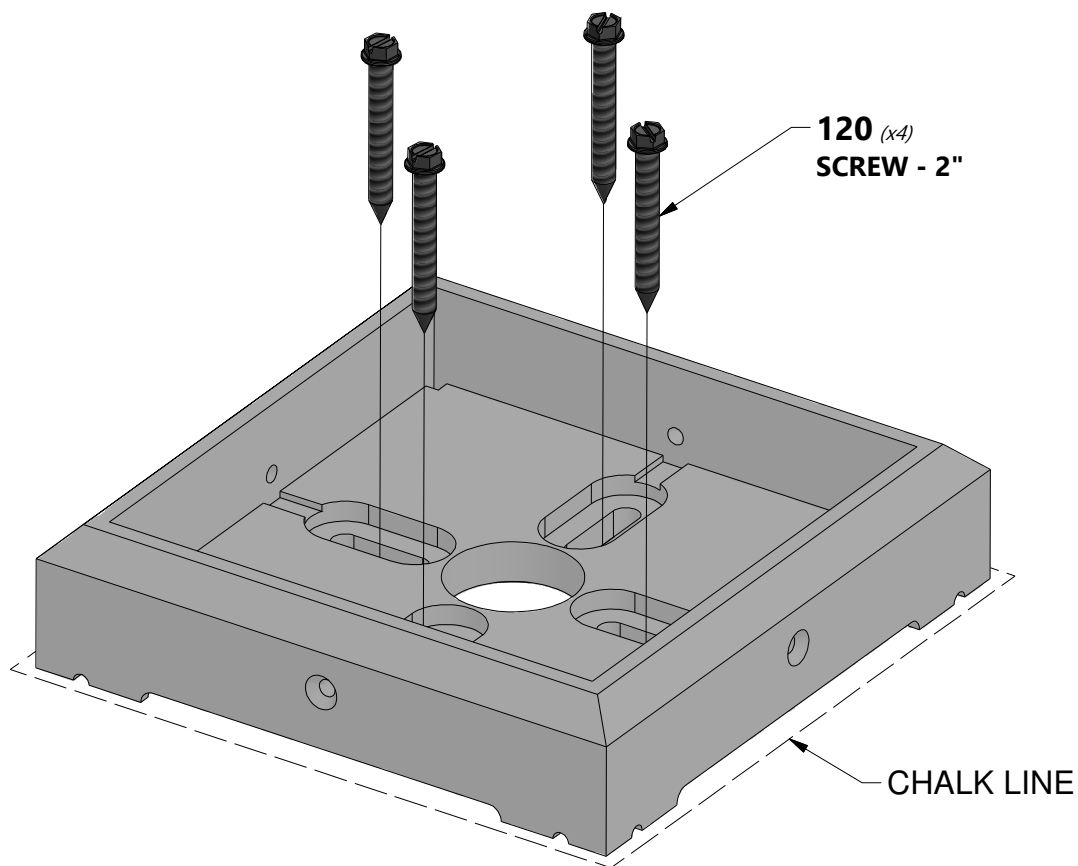
H100120 | SCREW CONCRETE ANCHOR
(x16) | 1/4x2



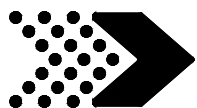
NOTE:

MOVE THE PERGOLA ASIDE AND PLACE EACH FOOT INSIDE THE LINES DRAWN IN THE PREVIOUS STEP. NOW, USE A 3/16" CONCRETE DRILL BIT TO DRILL PILOT HOLES INTO THE CONCRETE PAD.

NEXT, USE THE PROVIDED CONCRETE ANCHORS TO ATTACH EACH FOOT TO THE CONCRETE SURFACE.



REPEAT FOR ALL FEET.



STEP 11

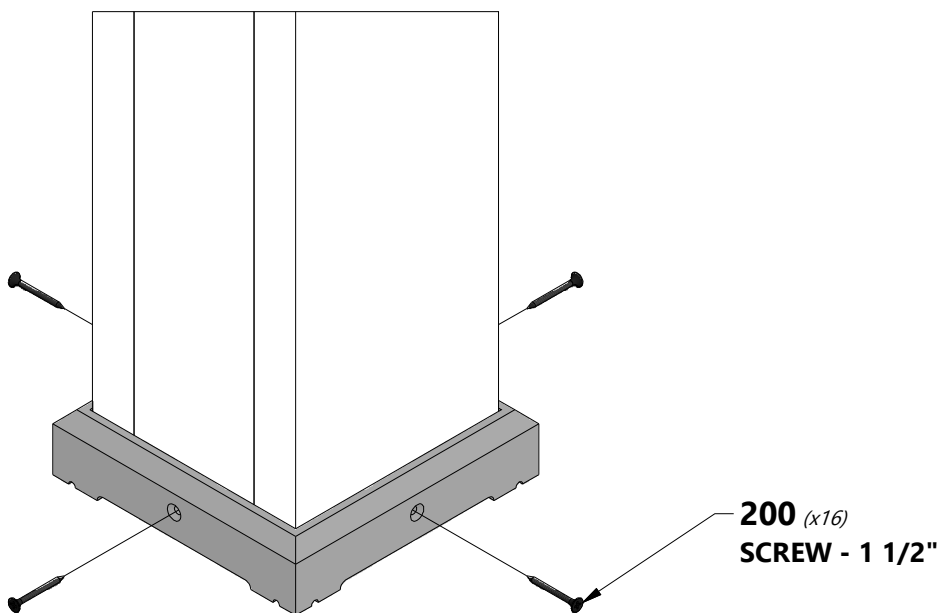


H100200 | SCREW PFH BLK
(x16) | 8x1 1/2



NOTE:

MOVE THE PERGOLA BACK INTO PLACE,
SETTING EACH POST INSIDE A FOOT AND
MOUNT AS SHOWN USING THE PROVIDED
HARDWARE.



REPEAT FOR ALL POSTS.



STEP 12

A100314
(x1)



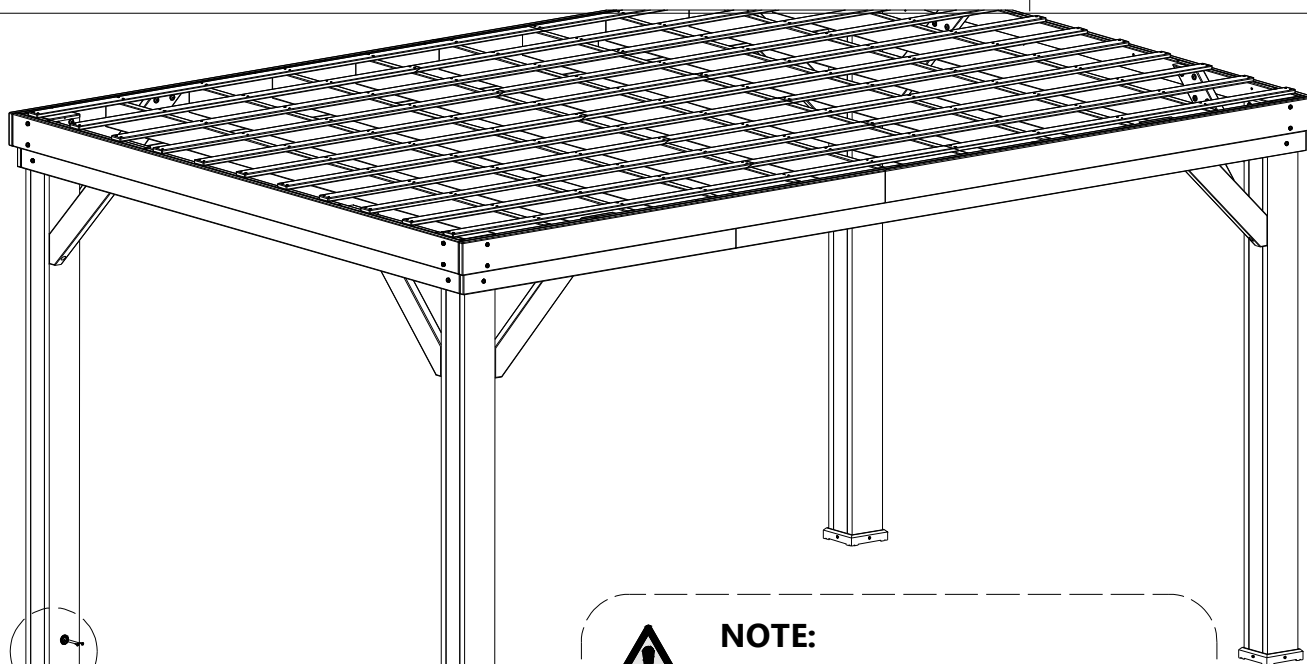
"A" REVISION TAG

A100241
(x1)



BYD ID TAG (SMALL) WITHOUT AGES

H100392
(x4) | SCREW PWH BLK
8x3/4



NOTE:

CENTER THE REVISION TAG AND ID TAG ON THE POST AND CENTER VERTICALLY APPROX. 6-1/2" FROM THE GROUND.

6 1/2 in
[165 mm]

314 (x1)
"A" REVISION TAG

392 (x2)
SCREW - 3/4"

6 1/2 in
[165 mm]

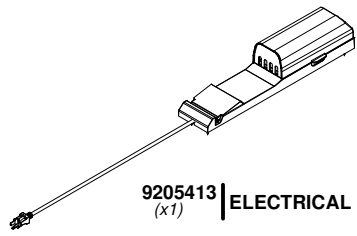
241 (x1)

BYD ID TAG (SMALL) WITHOUT AGES

392 (x2)
SCREW - 3/4"



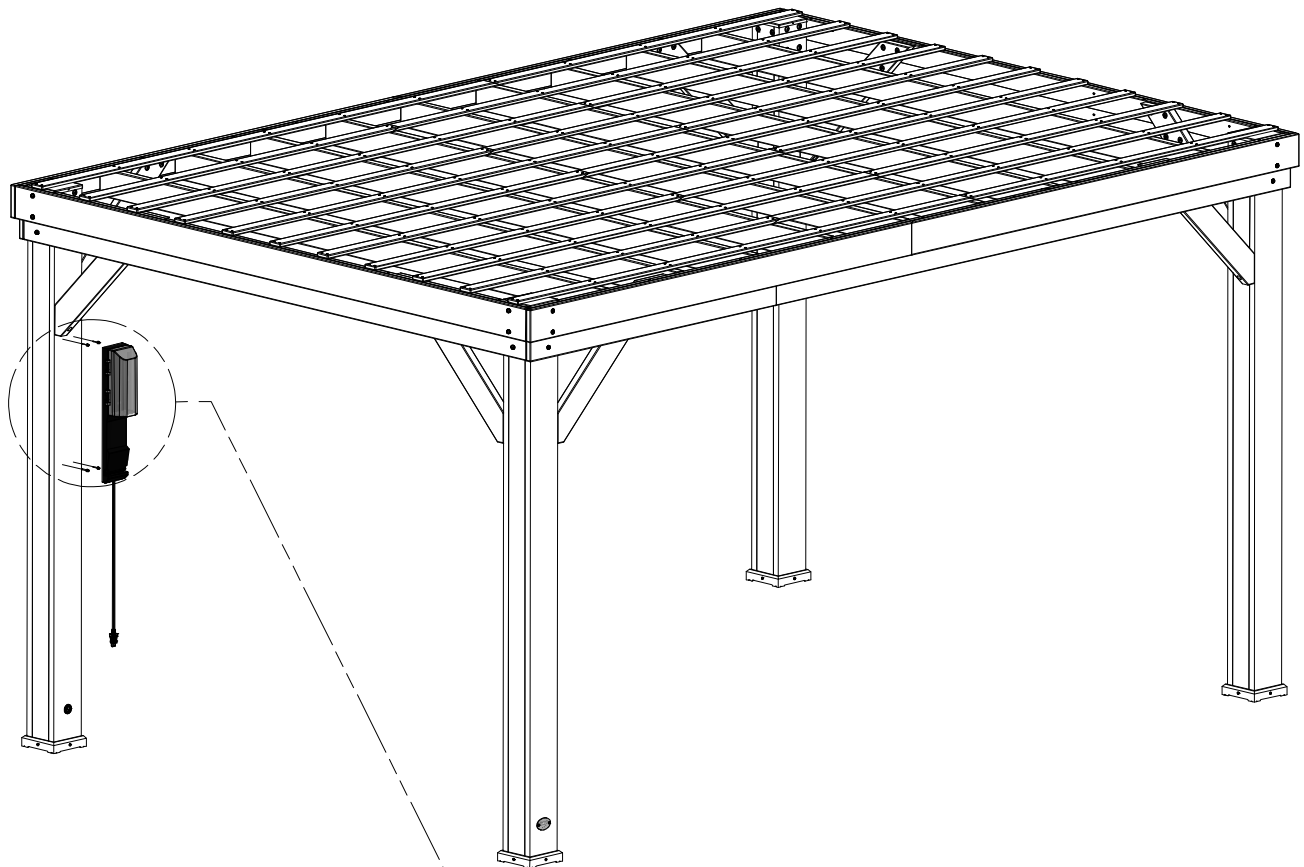
STEP 13



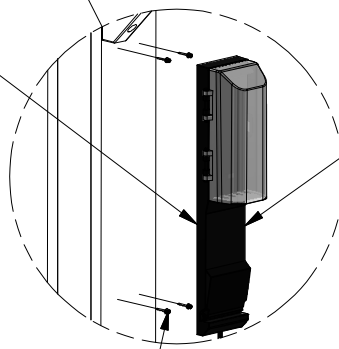
9205413
(x1) | **ELECTRICAL ENCLOSURE**



H100966
(x4) | **SCREW RAISED HEAD**
8x1 1/2



**REFER TO ELECTRICAL
ENCLOSURE MOUNTING
INSTRUCTIONS.**



413 (x1)
ELECTRICAL ENCLOSURE

966 (x4)
SCREW - 1 1/2"