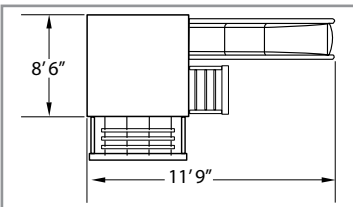


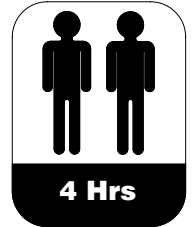
SKY RANCH PLAY SYSTEM

ASSEMBLY INSTRUCTIONS



Play System dimension with safety allowance: 20' 6" x 23' 9"

12/17/07



Prior to assembly, you MUST read the Owner's Manual for important safety warnings and details on installing a shock absorbing surface. This unit's maximum fall height is 7.8 feet and is intended for a maximum of 4 users, ages 3 to 10 (110 lbs. per child).

Please call toll free: 1-877-WOODSET (966-3738)

For questions, assembly help or assistance with missing or defective parts.



Solowave Design

375 Sligo Rd. West • PO Box 10 • N0G 2L1 • Mount Forest, Ontario • Canada

General Inquiries: 8:00am - 4:30pm EST

Toll Free: 1-877-966-3738 • Email: support@solowavedesign.com

ABOUT OUR WOOD

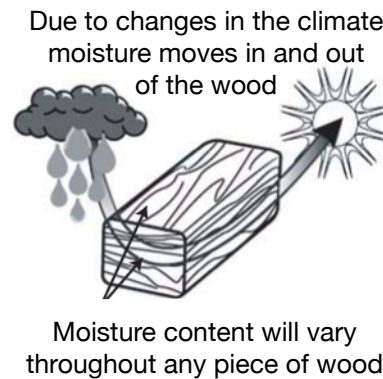
Solowave Design™ uses only Premium playground lumber, ensuring the safest product for your children's use. Although great care has been taken in selecting the best quality lumber available, wood is a product of nature and susceptible to weathering (changes in the aesthetics of the wood). A light sanding may be required to remove minor splinters. For your information, we have described some changes that may occur as a result of weathering:

1. Checking - checks are surface cracks in the wood along the grain. 4" x 4" material will experience more checking than 2", 1-1/4" or 1" material because the surface and interior moisture content will vary more widely than in thinner wood.
2. Warping - warping refers to any distortion (twisting, cupping) from the true plane that may take place during weathering.
3. Fading - wood exposed to sunlight, will over time, turn a grey colour.

Note: The above changes will not affect the strength of the product

What causes weathering?

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 moisture moves in or out of the wood (result of climate changes), the different moisture content causes tension in the wood, which can result in checking and/or warping.



How can I reduce the amount of weathering to my Play Center?

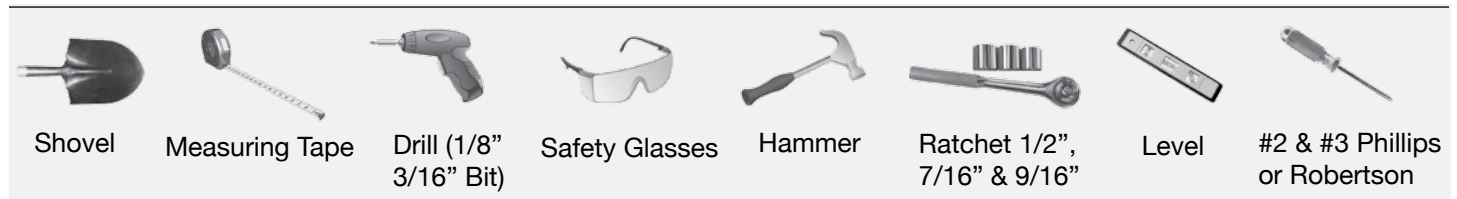
At the factory we have added water repellent to the stain. This water repellent decreases the amount of water absorption during rain or snow thus decreasing the tension in the wood. Sunlight will break down the water repellent, so we recommend applying a water repellent on a yearly basis (see your local stain and paint supplier for a recommended product). Also if storing the product before installation, make sure you store out of direct sunlight in a cool dry place.

Will weathering affect the strength of my Play Center?

Most weathering is just the normal result of nature and will not affect safe play and enjoyment for your child. However if you are concerned that a part has experienced a severe weathering problem please call our consumer relations department for further assistance.

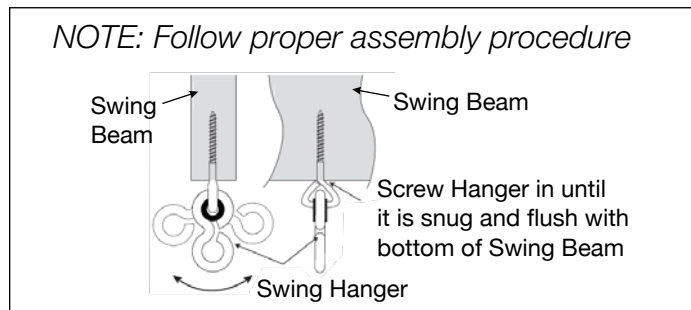
HELPFUL HINTS

Tools Required



Swing Hangers

Swing hangers must be screwed into the wood the full length of the shaft, so that the triangular head is touching the wood (see swing hanger diagram). Failure to correctly install swing hangers may result in the hanger itself breaking, or the hanger becoming dislodged from the wood. Either circumstance can cause serious injury. Big Backyard cannot assume any responsibility for incorrect installation of swing hangers. (Liquid soap may be used as a lubricant for ease of installation).



Hardware

When making the selection of 1/4" and 5/16" hardware, carefully read the instructions in each step of this manual to ensure the proper hardware is used.

NOTE: 5/16" Hardware is larger in diameter than 1/4".

The Swing Triangle Plate has a total of 5 holes, and they are all used depending on where you are installing it. When installing the plates, pay close attention to the holes required. When complete, the swing end should be angled out (away from fort) approx. 110°

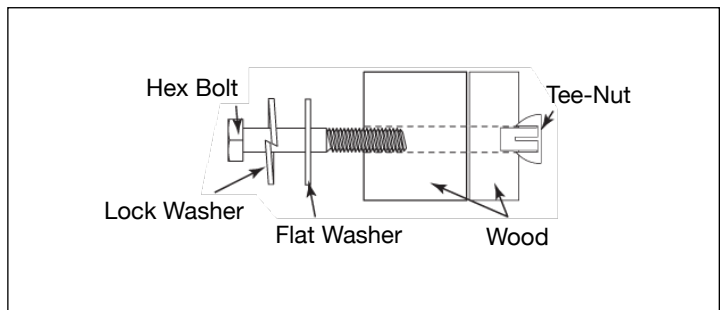
NOTE: In the event that Hex Bolt is exposed beyond the tee-nut, please disassemble, add another flat washer to head of hex bolt and then reassemble unit correct.

Solowave assures product quality and safety through third party testing conducted in North America.

Tee - Nuts & Lock washers

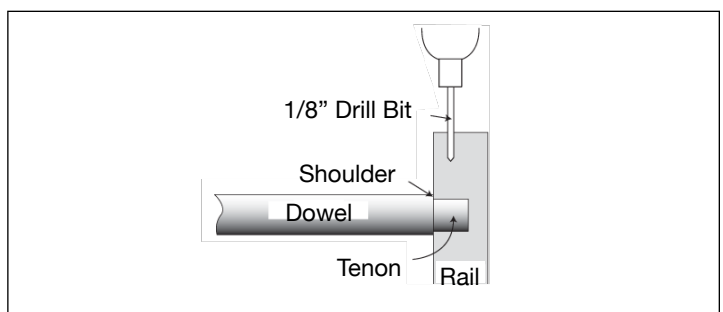
Place tee-nut in hole and tap into place with hammer. Insert the hex bolt through, first the lock washer and then the flat washer, and feed through hole. Hand tighten to ensure bolt and tee-nut connection (this may not be possible due to coating on hardware, if not use a ratchet), and then proceed with ratchet. DO NOT over tighten. Hardware should not crush wood.

A 1/4" lock washer and flat washer, are used with 1/4" hex bolt or 5/16" with 5/16".



Dowel Installation

1. Insert Dowel into provided holes until the shoulder of tenon is flush to the face of the Swing Rail or Access Rail or Ladder Post.
2. Pre-drill a 3 x 1/8" hole through Rail or Post prior to securing with wood screw. Securing with screw prior to pre-drilling may lead to cracking and must be avoided.
3. Secure dowel in place with appropriate wood screws and instructed within manual.



WOOD PARTS IDENTIFICATION

Parts Identification Helpful Hints:

Due to the fact that wood is a natural substance, slight warping or twisting may occur while it is in the carton. However, slight twisting or warping will not affect the structural integrity of your play center. Also, due to weather changes, expansions and contraction of wood may cause slight checking and distortion. This is a natural characteristic of wood and will not affect the structural integrity of the play center.

Wood Parts actual dimensions vary due to finishing profiles. For example a 2" x 4" piece of wood after milling will be 1-3/8" x 3-3/8".

7 - Cedar Wall Boards
1" x 6" x 34-1/4"



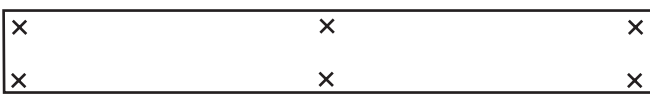
1 - Rope Ladder Bottom
5/4" x 6" x 46-3/4"



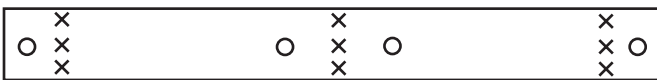
1 - Front Divide
2" x 4" x 43-3/8"



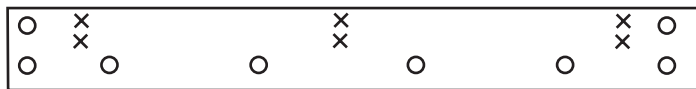
1 - Gap Board
1" x 6" x 40-1/2"



1 - Floor Front
2" x 4" x 45-1/2"



1 - Rope Top
5/4" x 6" x 46-3/4"



Nominal Material Sizes

Named Size in Inches	True Size in Inches
5/4 x 4	1 x 3-1/2
5/4 x 5	1 x 4-1/2
5/4 x 6	1 x 5-1/2
2 x 3	1-3/8 x 2-1/2
2 x 4	1-3/8 x 3-3/8
3 x 6	2-3/8 x 5-3/8
4 x 4	3-3/8 x 3-3/8

Estimated Size After Molding

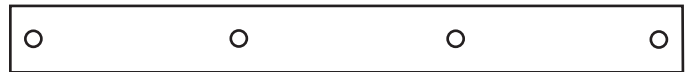
1 - Floor Side
5/4" x 6" x 46-3/4"



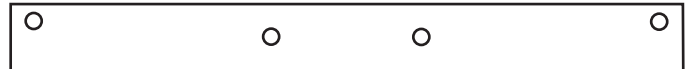
3 - Floor Joist
2" x 3" x 43-1/8"



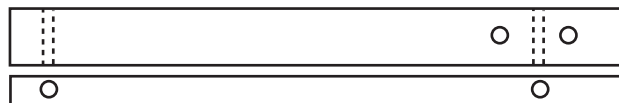
3 - Top Side
5/4" x 4" x 46-3/4"



2 - Top End
5/4" x 4" x 46-3/4"



2 - Swing Mount
2" x 3" x 35-1/2"



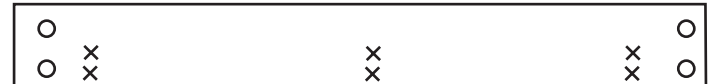
2 - Sandbox Diagonal
2" x 3" x 35"



2 - Gingerbread Trim
1" x 3" x 35-1/2"



1 - Floor Back
5/4" x 6" x 46-3/4"



WOOD PARTS IDENTIFICATION

7 - Cedar Floor Boards
1" x 6" x 47-1/2"



1 - Swing Safety Rail
1" x 6" x 20"



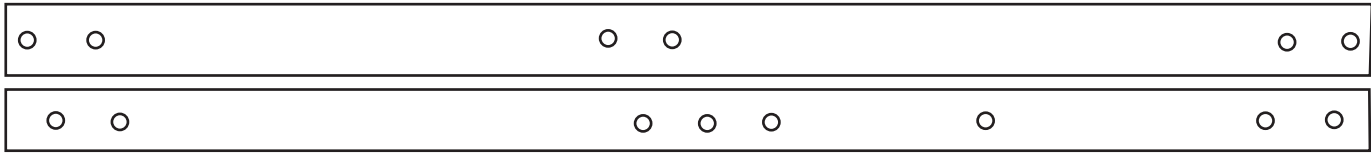
1 - Roof Ridge
2" x 2" x 47-3/4"



1 - Ladder Bottom
5/4" x 6" x 20"



4 - Post
4" x 4" x 94-1/4"



2 - Sandbox Sides
1" x 6" x 65"



2 - Ground Stake
2" x 2" x 14"



2 - Access Rails (1 Left & 1 Right)
2" x 3" x 63"



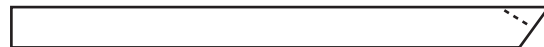
2 - Gusset
5/4" x 4" x 18-1/2"



1 - Sandbox
1" x 6" x 46-3/4"



4 - Roof Support
2" x 2" x 31"



4 - Tennon Dowel
1-1/8" x 18-5/8"



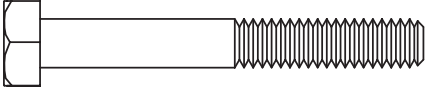
HARDWARE PARTS IDENTIFICATION

Parts Identification Helpful Hints:

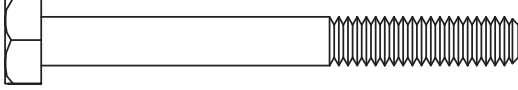
1. During assembly DO NOT fully tighten bolts unless instructed. Fully tightened bolts may not allow for other hole alignments.
2. Before children use the play center, make sure all hardware is tightened, all ground stakes are installed, and any remaining wood, hardware and packaging materials are removed from the play area.
3. Be careful not to over-tighten hardware as it will crush wood fibers and result in splintering.

NOTE HARDWARE IS TO SCALE.

2 - 1/4" x 2" Hex Bolts



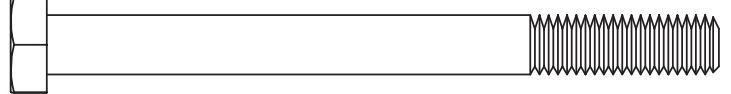
2 - 1/4" x 2-1/2" Hex Bolts



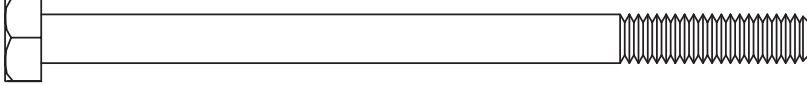
5 - 1/4" x 2-1/2" Lag Bolts



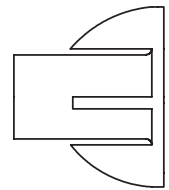
4 - 5/16" x 3-1/2" Hex Bolts



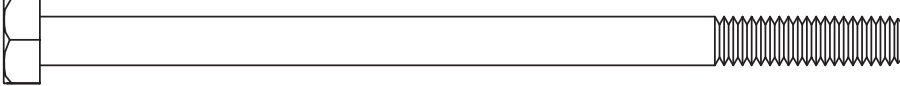
12 - 1/4" x 4" Hex Bolts



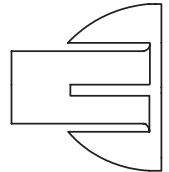
4 - 5/16" Tee Nuts



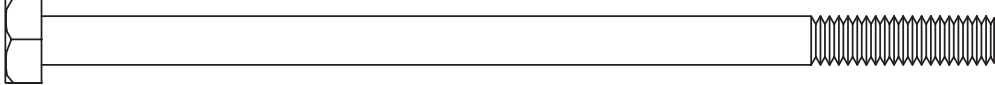
23 - 1/4" x 4-1/2" Hex Bolts



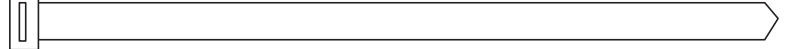
43 - 1/4" Tee Nuts



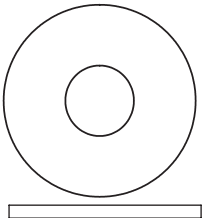
6 - 1/4" x 5" Hex Bolts



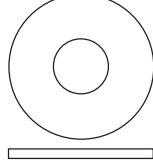
8 - Cable Ties



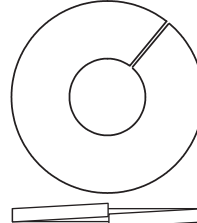
4 - 5/16" Flat Washers



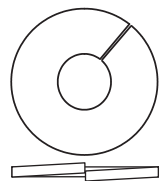
48 - 1/4" Flat Washers



4 - 5/16" Lock Washers



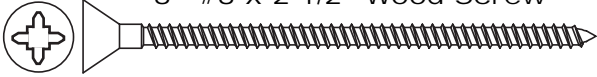
43 - 1/4" Lock Washers



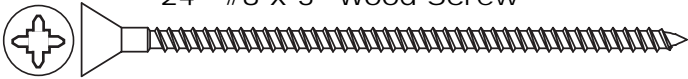
HARDWARE PARTS IDENTIFICATION

NOTE HARDWARE IS TO SCALE.

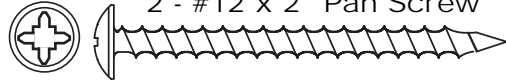
14 - #8 Flat Washers



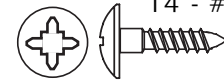
8 - #8 x 2-1/2" Wood Screw



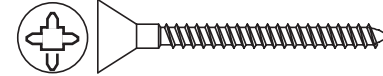
24 - #8 x 3" Wood Screw



2 - #12 x 2" Pan Screw



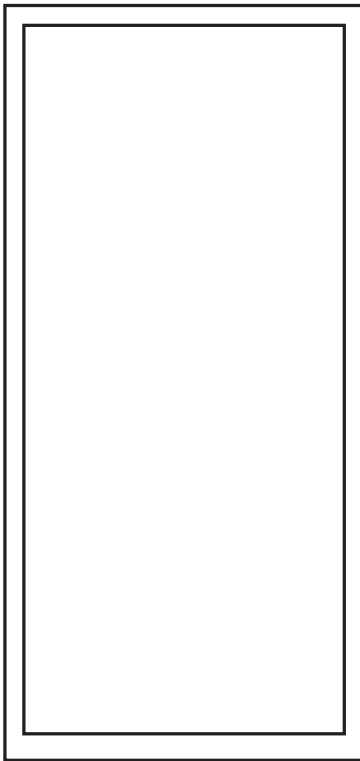
14 - #8 x 1/2" Pan Screw



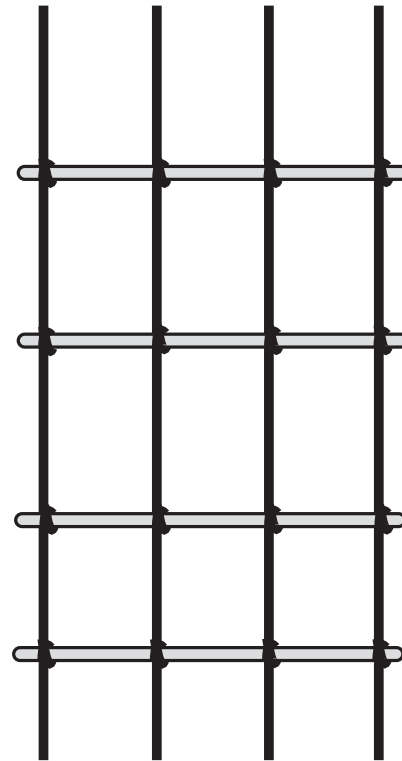
84 - #8 x 1-1/2" Wood Screw

ACCESSORY PARTS IDENTIFICATION

1 - Tarp



1 - Cargo Rope Ladder



STEP 1 - ASSEMBLE ACCESS SIDE WALL

A. Using two 1/4" x 4-1/2" Hex Bolt attach one Top End 5/4"x 4" x 46-3/4" to two Posts 4" x 4" x 94-1/4".

NOTE: T-Nut is secured into Top End NOT Post.

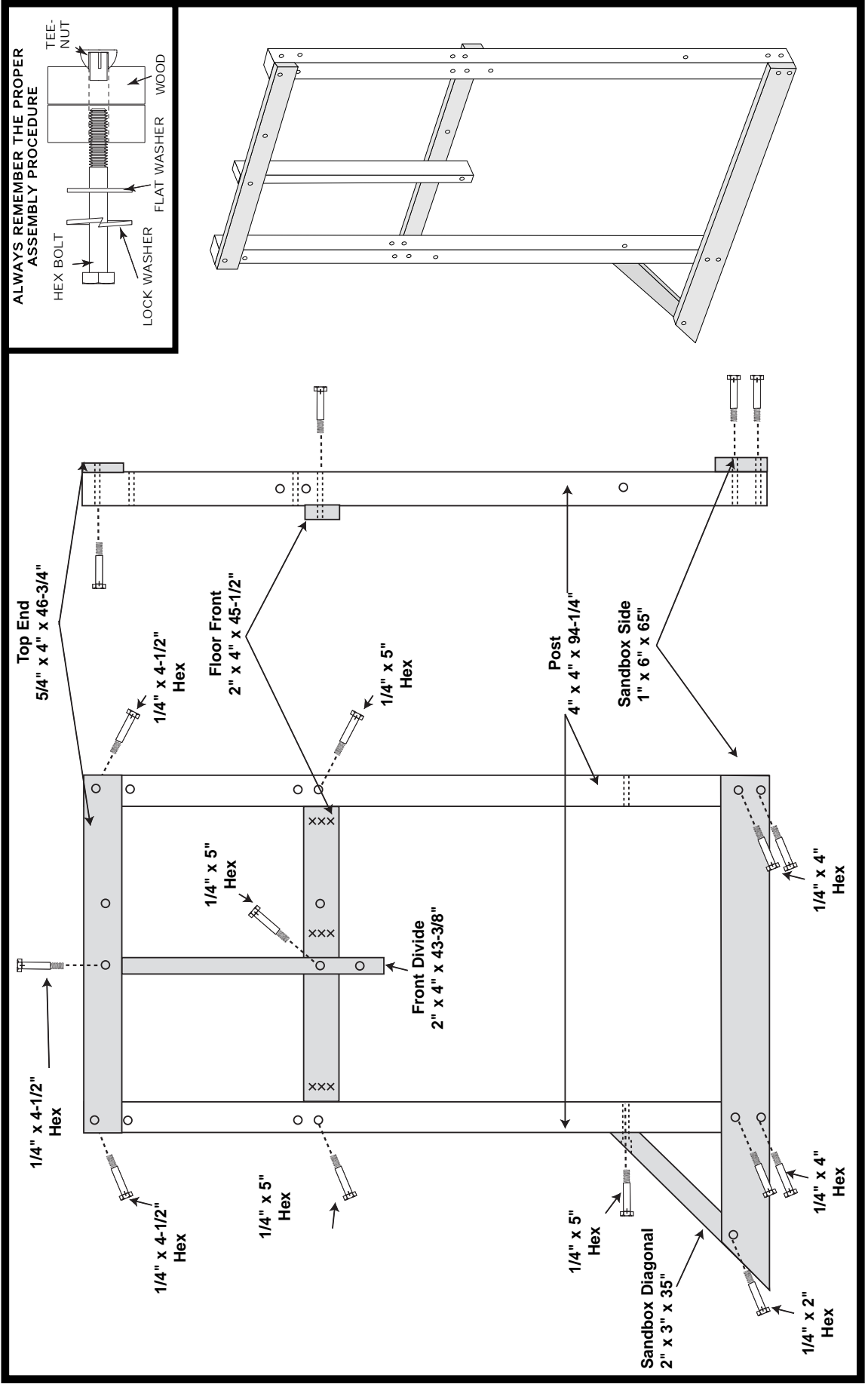
B. Using two 1/4" x 5" Hex Bolt attach one Floor Front 2" x 4" x 45-1/2" to Posts 4" x 4" x 94-1/4".

C. Using four 1/4" x 4" Hex Bolt attach one Sandbox Side 1" x 6" x 65" to Posts 4" x 4" x 94-1/4".

D. Using one 1/4" x 2" Hex and one 1/4" x 5" Hex Bolt attach one Sandbox Diagonal 2" x 3" x 35" to Sandbox Side 1" x 6" x 65" and one Post 4" x 4" x 94-1/4".

E. Using one 1/4" x 4-1/2" Hex and one 1/4" x 5" Hex Bolt attach one Front Divide 2" x 4" x 43-3/8" to Top End 5/4" x 4" x 46-3/4" and one Floor Front 2" x 4" x 45-1/2"

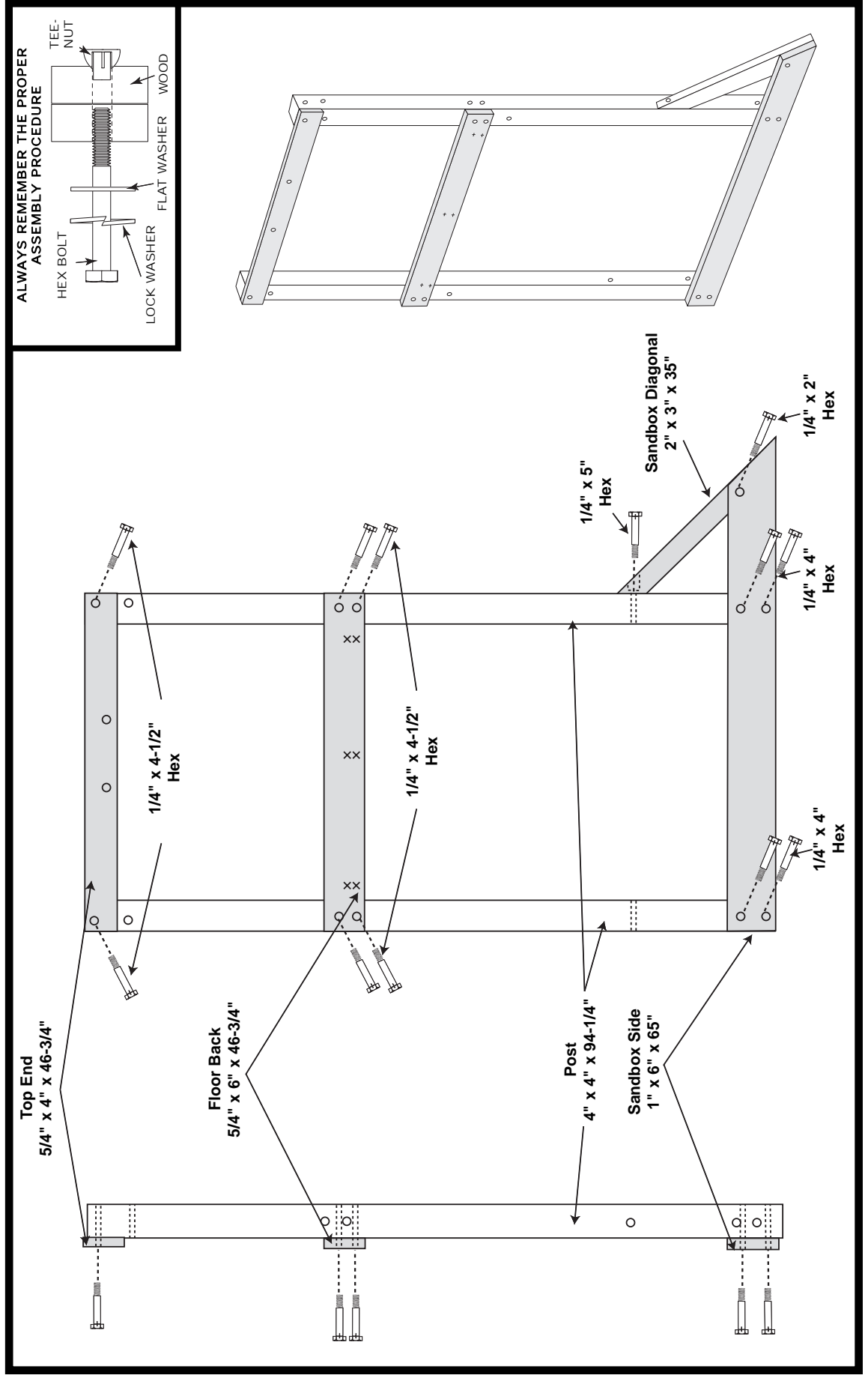
NOTE: Do not tighten bolts until a later step.



STEP 2 - ASSEMBLE BACK WALL

- Using two 1/4" x 4-1/2" Hex Bolt attach one Top End 5/4" x 4" x 46-3/4" to two Posts 4" x 4" x 94-1/4".
- Using four 1/4" x 4-1/2" Hex Bolt attach one Floor Back 5/4" x 6" x 46-3/4" to Posts 4" x 4" x 94-1/4".
- Using four 1/4" x 4" Hex Bolts attach one Sandbox Side 1" x 6" x 65" to Posts 4" x 4" x 94-1/4".
- Using one 1/4" x 2" Hex and one 1/4" x 5" Hex Bolt attach one Sandbox Diagonal 2" x 3" x 35" to Sandbox Side 1" x 6" x 65" and Post 4" x 4" x 94-1/4".

NOTE: Do not tighten bolts until a later step.

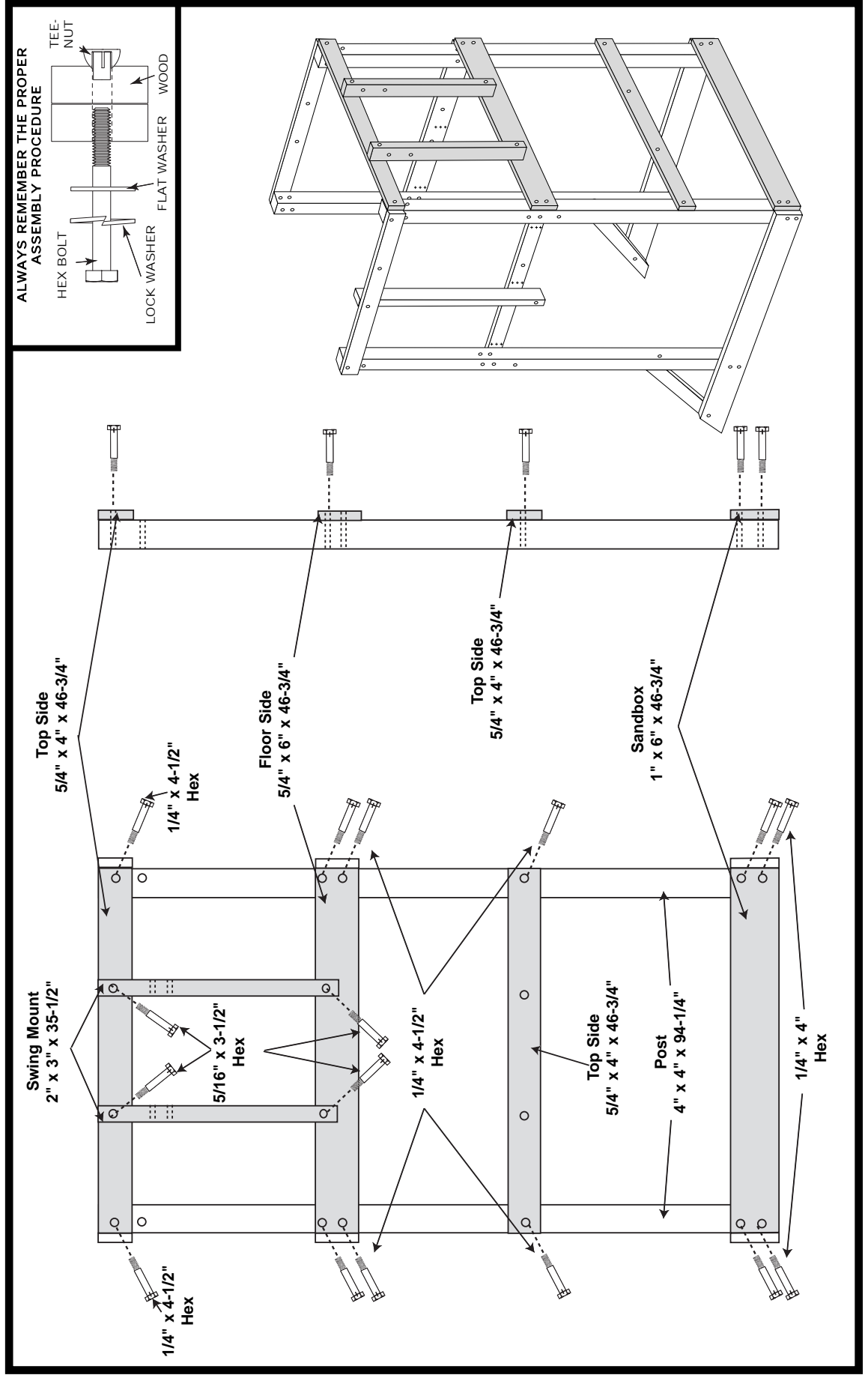


STEP 3 - ASSEMBLE SWING SIDE

With a Helper, stand previously assembled walls up & using the posts from those walls, continue assembly.

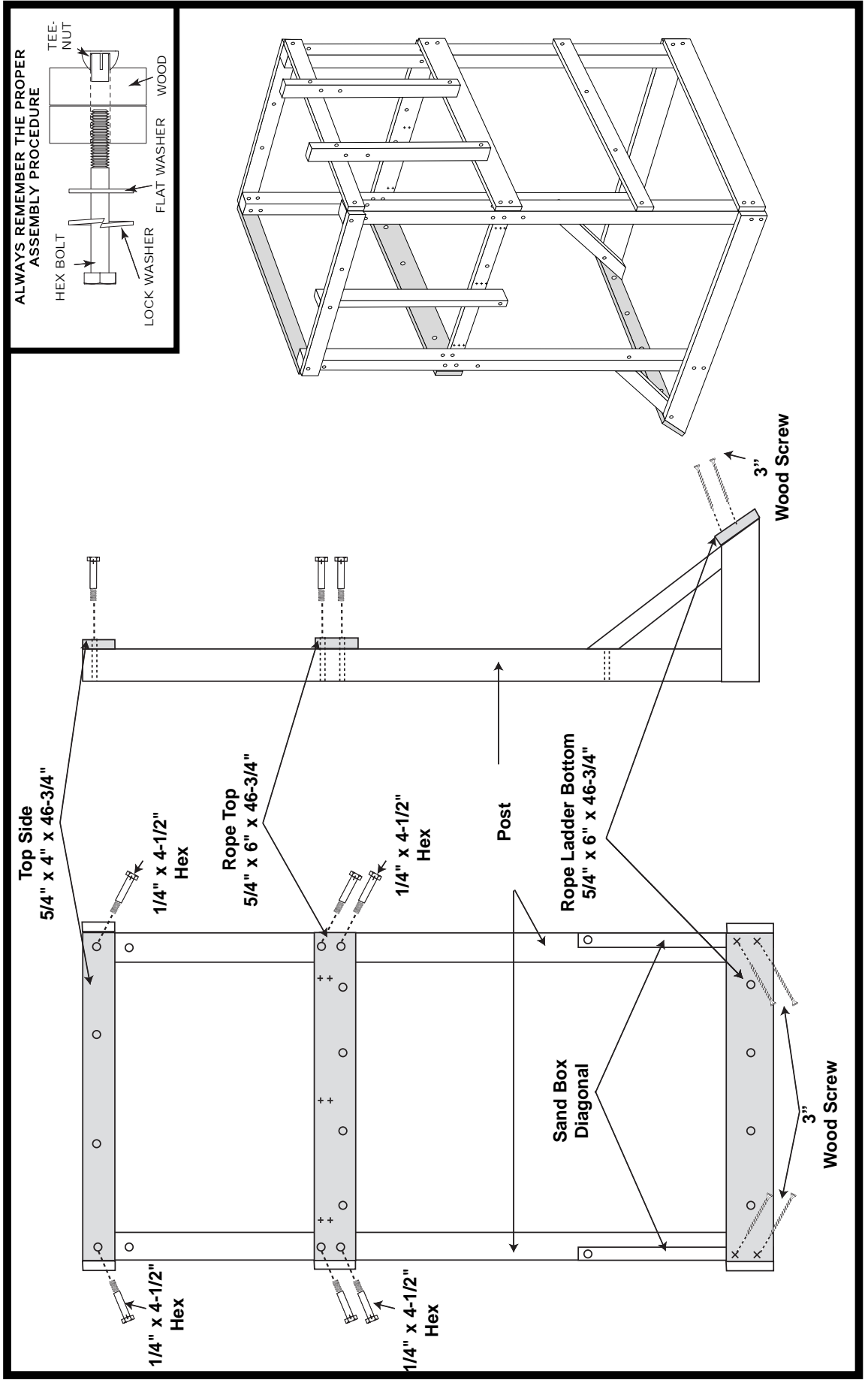
- A. Using two 1/4" x 4-1/2" Hex Bolt attach one Top Side 5/4" x 4" x 46-3/4" to Posts 4" x 4" x 94-1/4".
- B. Using four 1/4" x 4-1/2" Hex Bolt attach one Floor Side 5/4" x 6" x 46-3/4" to Posts 4" x 4" x 94-1/4".
- C. Using two 1/4" x 4-1/2" Hex Bolt attach one Top Side 5/4" x 4" x 46-3/4" to Posts 4" x 4" x 94-1/4".
- D. Using four 1/4" x 4" Hex Bolt attach one Sandbox 1" x 6" x 46-3/4" to Posts 4" x 4" x 94-1/4".
- E. Using four 5/16" x 3-1/2" Hex Bolt attach two Swing Mounts 2" x 3" x 35-1/2" to Top Side 5/4" x 4" x 46-3/4" and Floor Side 5/4" x 6" x 46-3/4".

NOTE: Do not tighten bolts until a later step.



STEP 4 - ASSEMBLE ROPE LADDER SIDE

- Using two 1/4" x 4-1/2" Hex Bolt attach one Top Side 5/4" x 4" x 46-3/4" to Posts 4" x 4" x 94-1/4".
 - Using four 1/4" x 4-1/2" Hex Bolt attach one Rope Top 5/4" x 6" x 46-3/4" to Posts 4" x 4" x 94-1/4".
 - Using four 3" Wood Screw attach one Rope Ladder Bottom 5/4" x 6" x 46-3/4" to Sandbox Diagonals 2" x 3" x 35".
- NOTE: Do not tighten bolts until a later step.



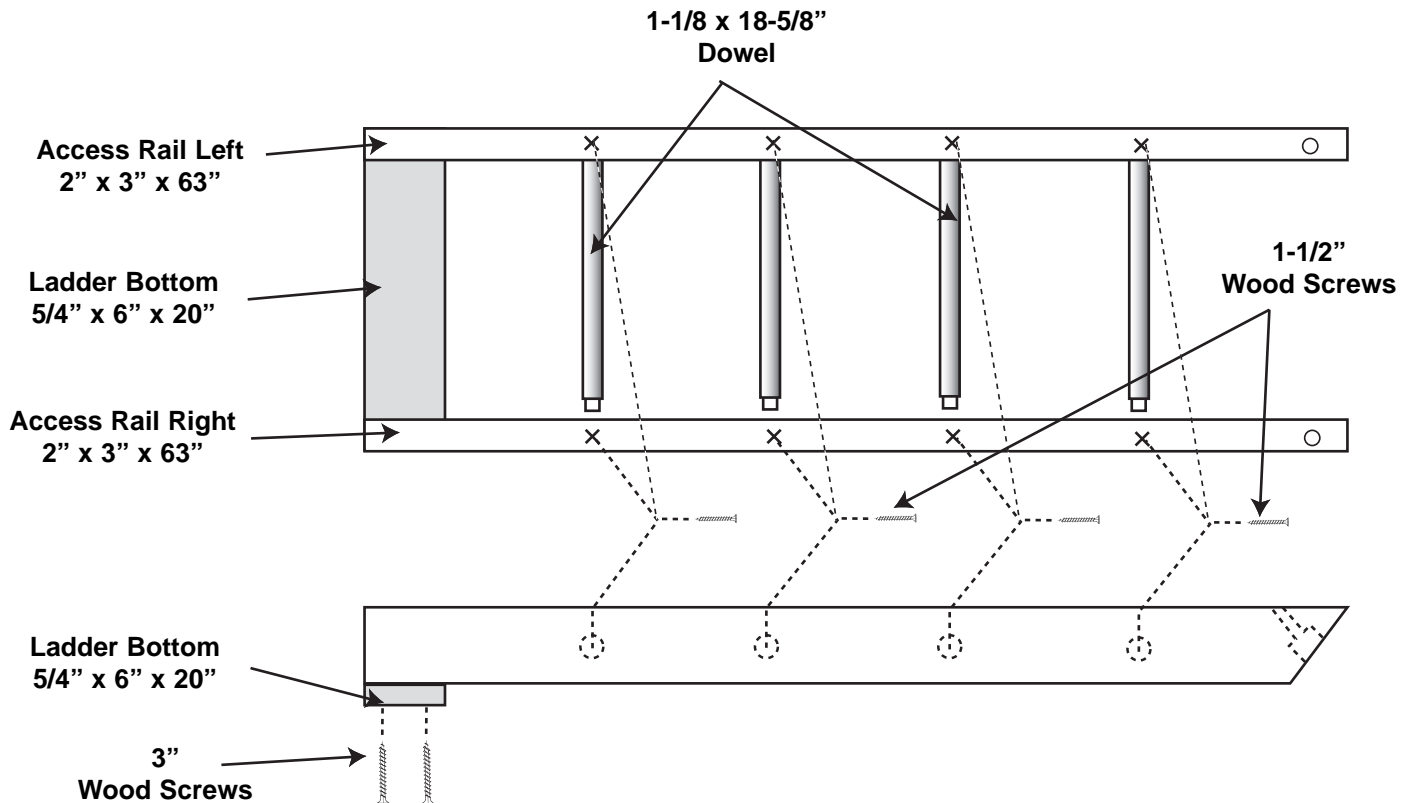
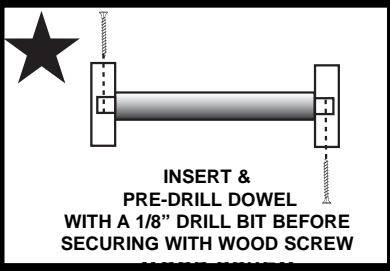
STEP 5 - ASSEMBLE ACCESS LADDER

NOTE: Prior to securing Dowels with Screws, see "Dowel Installation" on the Helpful Hints page at the beginning of this manual.

A. Using one 1/2" Wood Screws, insert and secure four Tennon Dowels 1-1/8" x 18-5/8" to Access Rails (left & Right) 2" x 3" x 63"

NOTE: Insert Dowel & pre-drill a 1/8" hole through both Access Rails and Dowel prior to securing with screw.

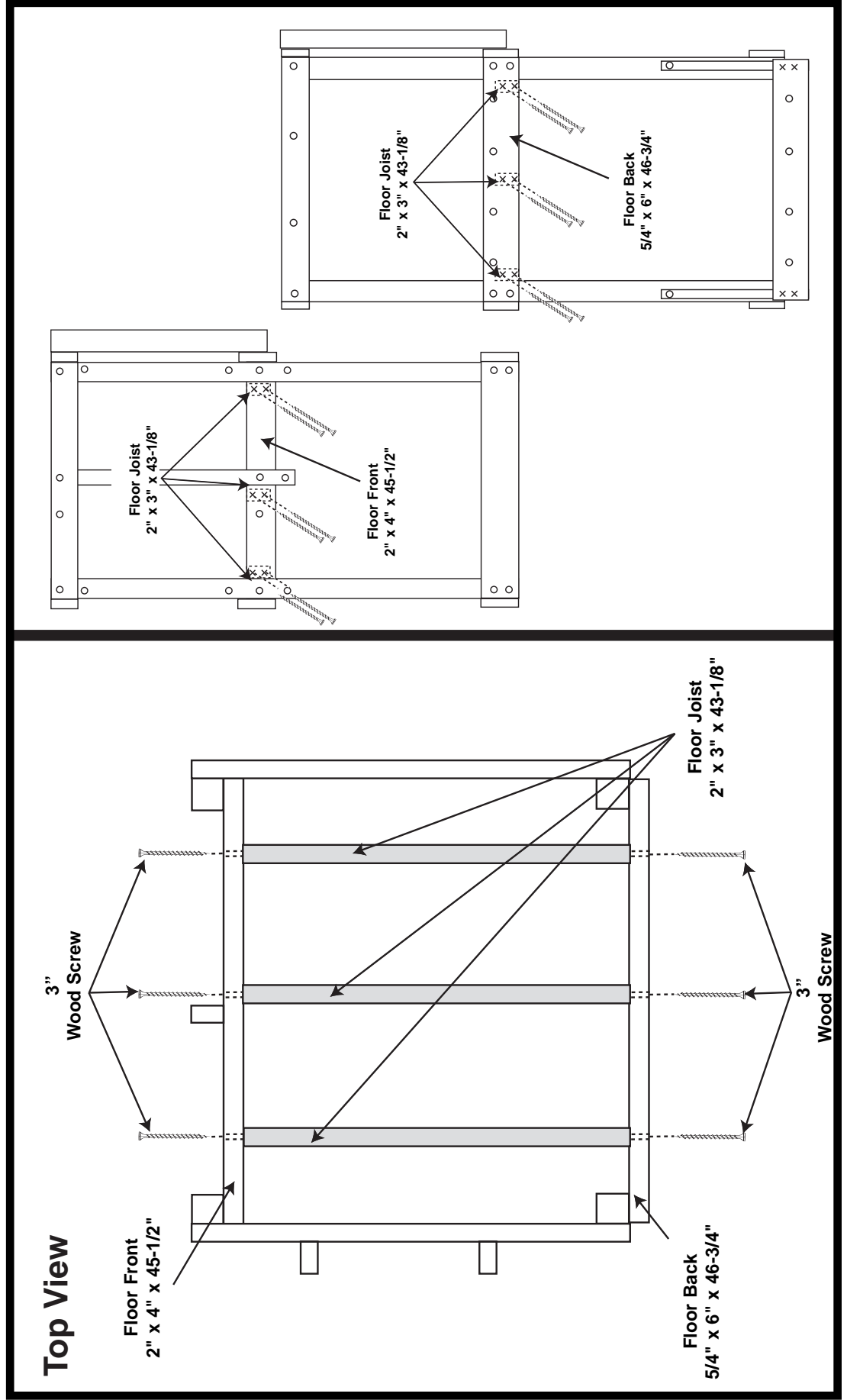
B. Using four 3" Wood Screws, attach Ladder Bottom 5/4" x 6" x 20" to bottom of Access Rails 2" x 3" x 63".



STEP 6 - ASSEMBLE PLAY DECK

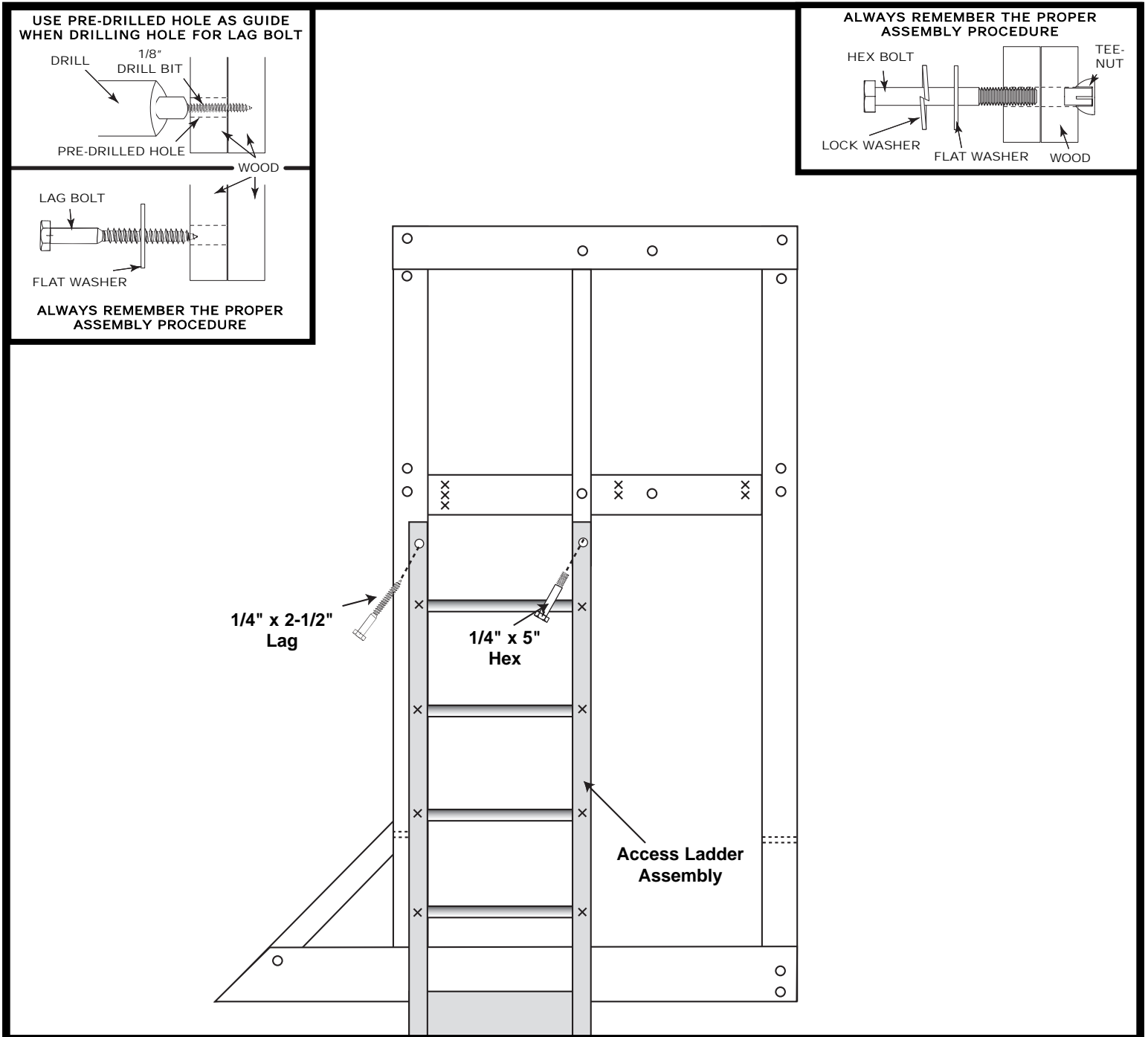
- A. Using twelve 3" Wood Screws connect three Floor Joists 2" x 3" x 43-1/8" to Floor Front 2" x 4" x 45-1/2" and Floor Back 5/4" x 6" x 46-3/4" x

NOTE: Floor Joists sit flush at the top of Floor Front 2" x 4" x 45-1/2" and flush at the bottom of Floor Back 5/4" x 6" x 46-3/4".



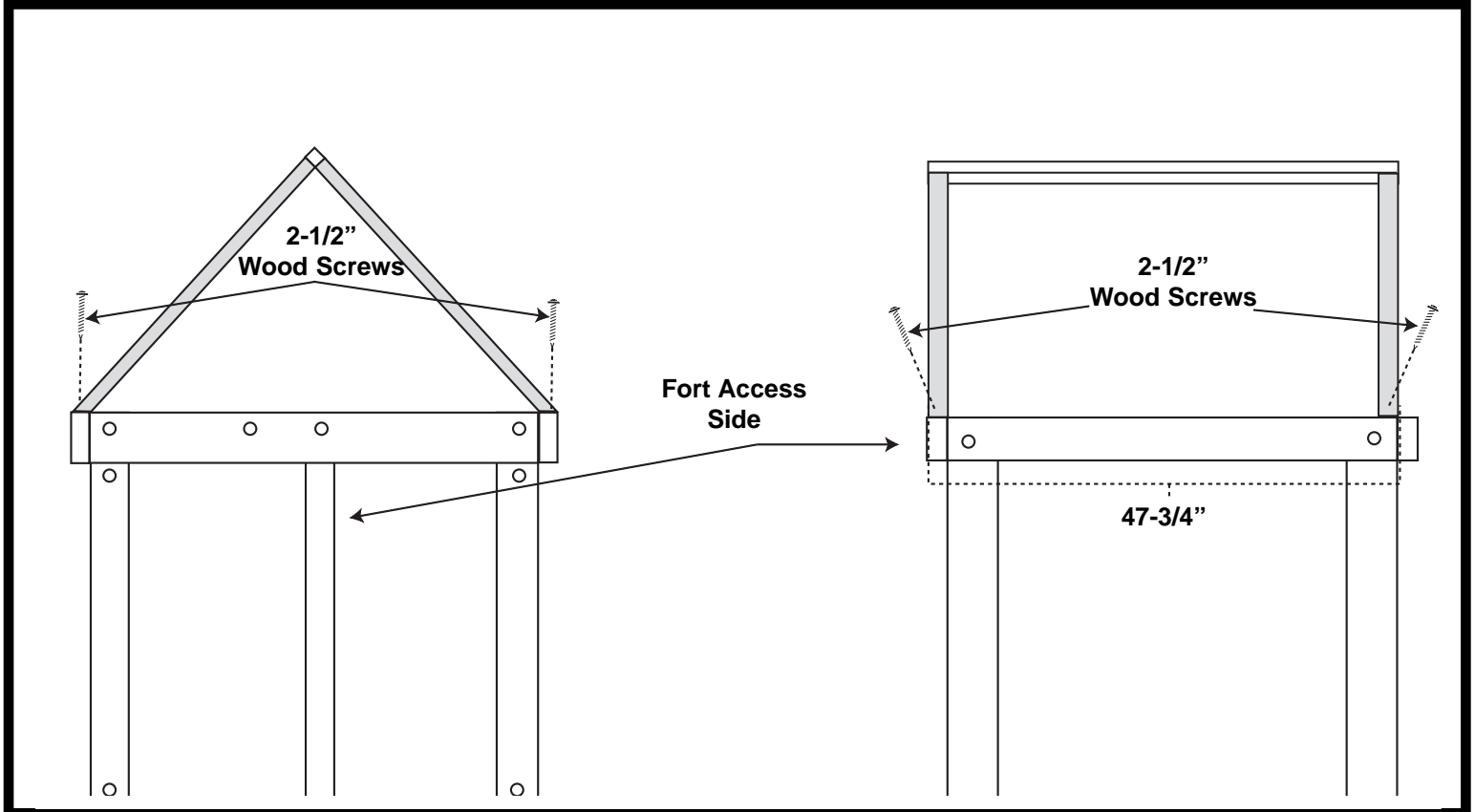
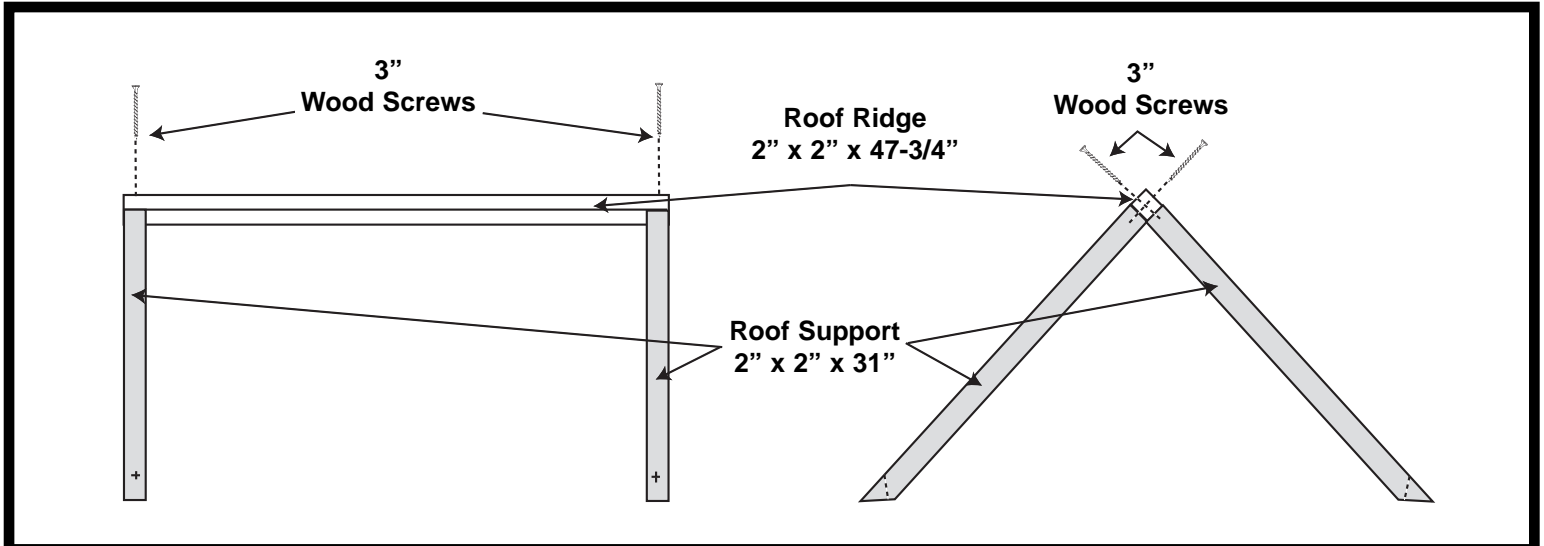
STEP 7 - ATTACH ACCESS LADDER

- A. Using one 1/4" x 5" Hex Bolt connect Access Ladder assembly to Front Divide 2" x 4" x 43-3/8".
 - B. Using one 1/4" x 2-1/2" Lag Bolt connect Access Ladder assembly to Post 4" x 4" x 94-1/4".
- NOTE: Prior to Installing Lag Bolt pre-drill a 1/8" pilot hole into Post 4" x 4" x 94-1/4"



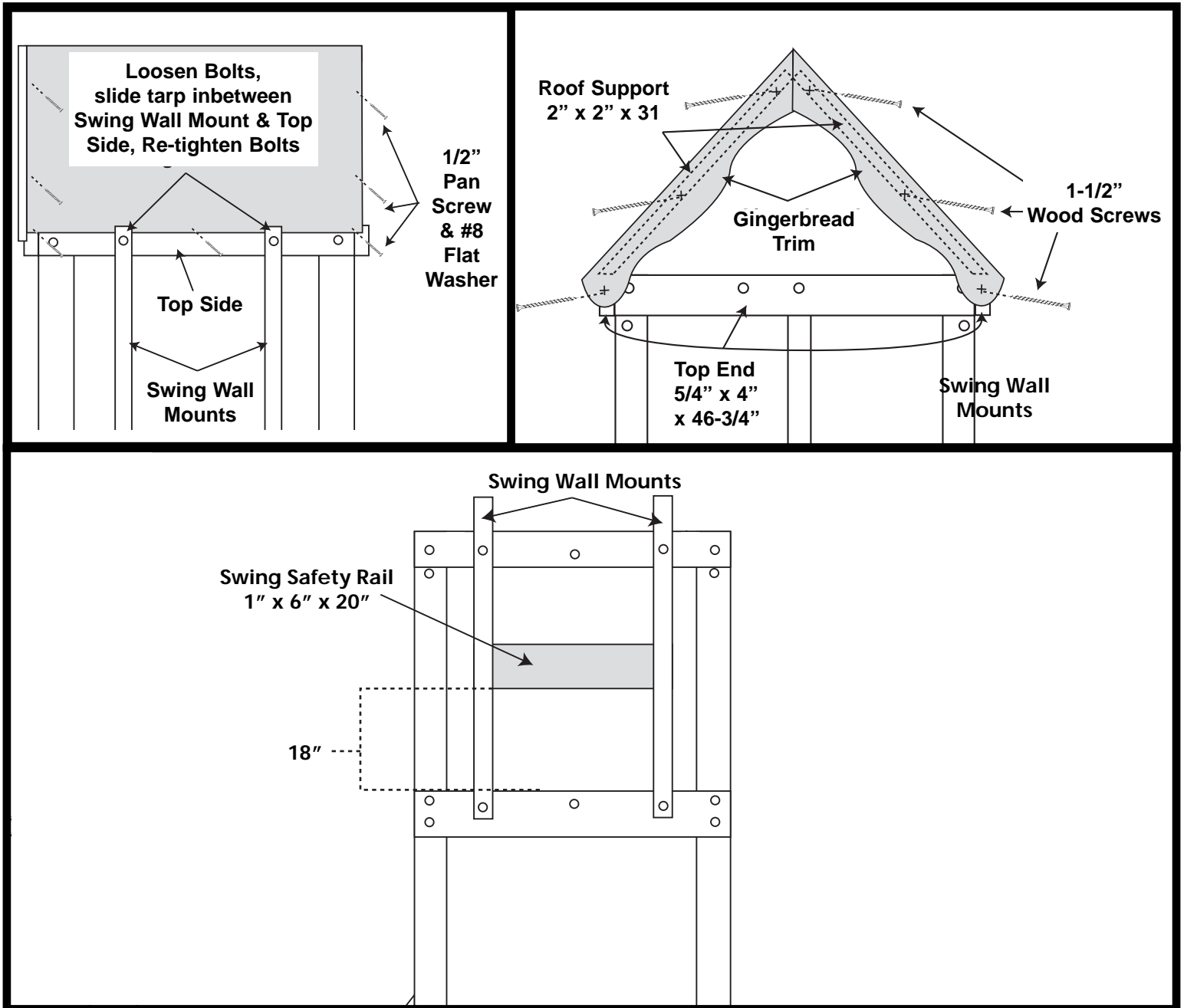
STEP 9 - ASSEMBLE AND ATTACH ROOF FRAME

- A. Using four 3" Wood Screws, attach four Roof Supports 2" x 2" x 31" to Roof Ridge 2" x 2" x 47-3/4"
 - B. Move Roof Assembly to Fort and place on top of unit, ensure that the Roof Assembly is flush to the front (fort access side) of the fort
- NOTE: Measurement of Roof Supports prior to securing.
- C. Secure Roof Assembly to Fort using one 2-1/2" Wood screw per Roof Support.



STEP 10 - ATTACH GINGERBREAD TRIM & FORT CANOPY

- A. Attach Gingerbread Trim 1" x 3" x 35-1/2" to Roof Frame Assembly using three 1-1/2" Wood Screws per Trim, approx. 3/8" above roof frame.
- NOTE: two screws should penetrate Roof Supports 2" x 2" x 31" and one screw should penetrate Top End 5/4" x 4" x 46-3/4".
- B. Lay Tarp over top of Roof Frame, center tarp and attach to Roof Supports 2" x 2" x 31" and Top Sides 5/4" x 4" x 46-3/4" using a total of fourteen 1/2" Pan Screws and #8 Flat Washers, as per detail.
- NOTE: Attach Tarp to swing side first. Loosen Swing Wall Mounts, insert tarp, retighten Swing Wall Mounts.
- D. Using four 1-1/2" Wood Screws attach Swing Safety Rail 1" x 6" x 20" to the inside of Swing Wall Mounts.



STEP 11 - ATTACH ROPE LADDER

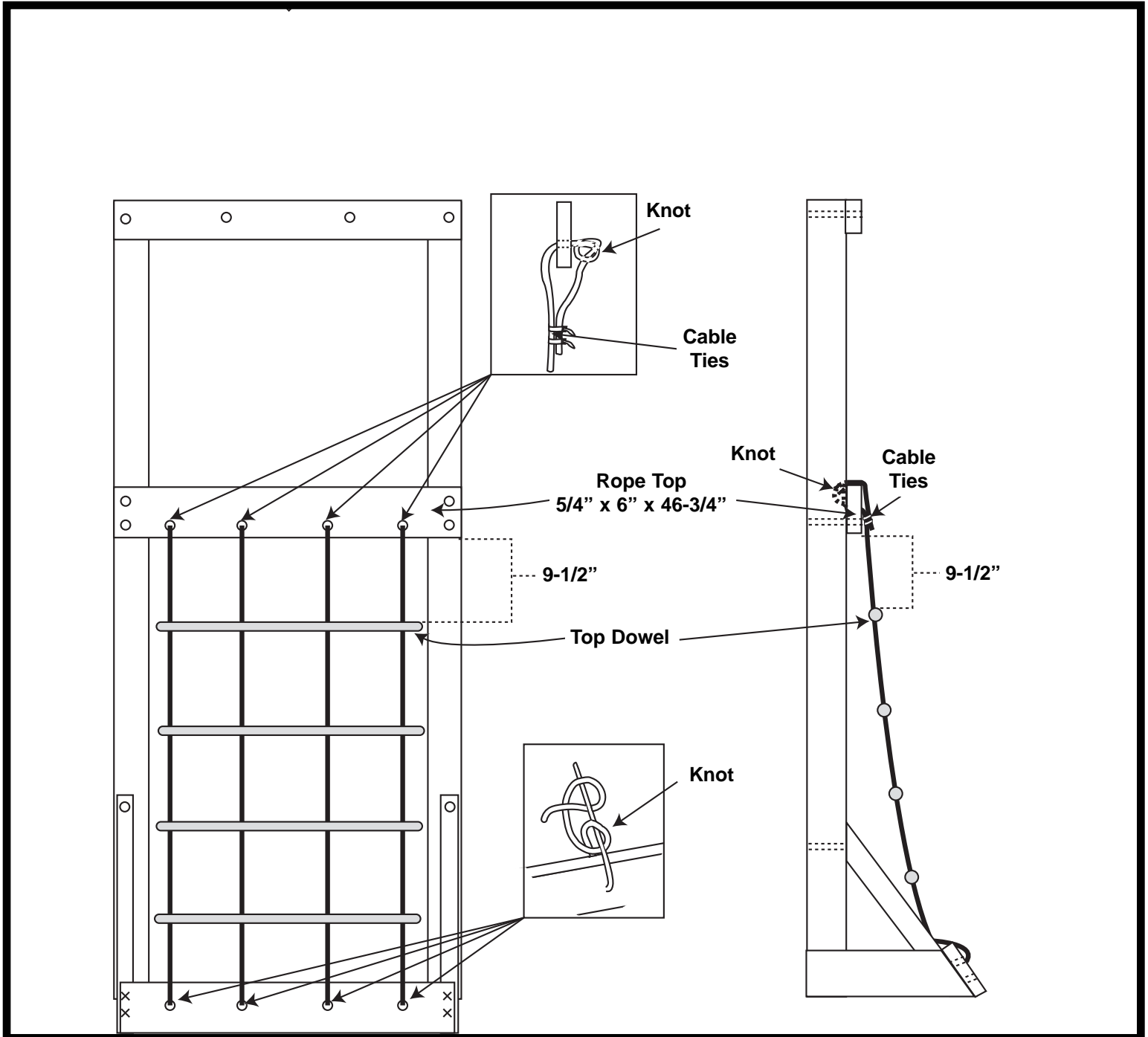
A. Insert rope ends and tie knots as per diagrams.

NOTE: Do Not fully tighten knot until ladder is level and rope is taught.

NOTE: Ensure that there is a 9-1/2" space between the top dowel of the rope ladder and the bottom of the Rope Top.

B. Using two Cable Ties per rope, secure excess rope as per diagram.

NOTE: Cut off excess Cable Tie while ensuring that the cut end is not sharp.



STEP 12 - ATTACH GROUND STAKES & SLIDE

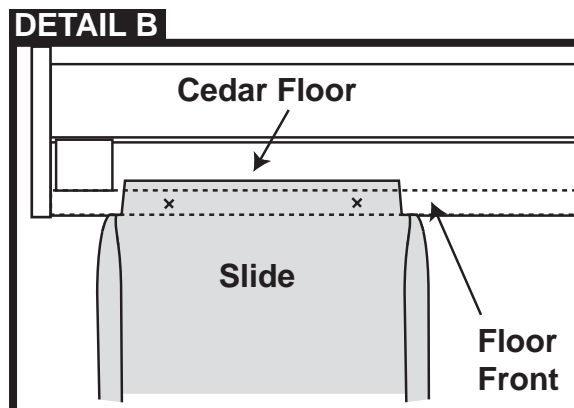
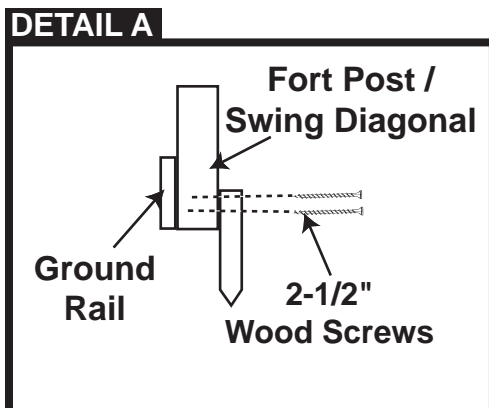
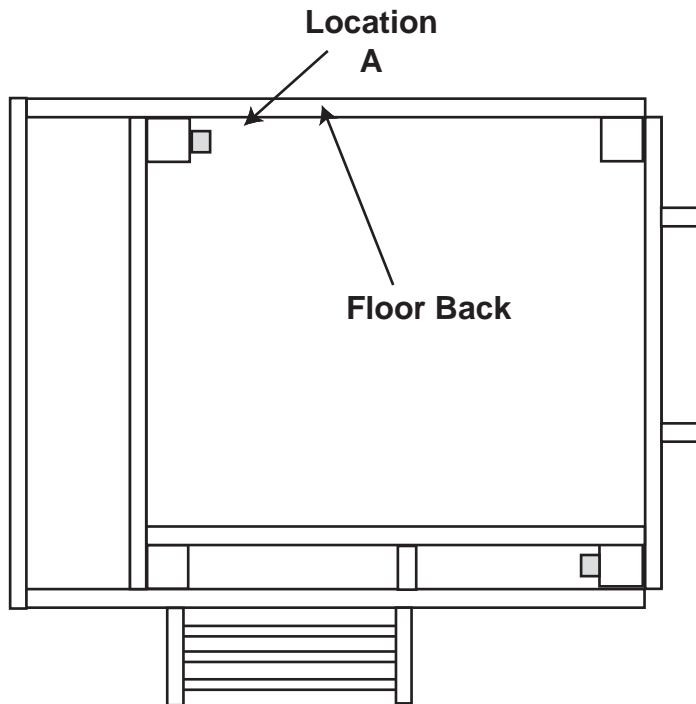
NOTE: Ground Stakes 2" x 2" x 14" must be used and installed in proper location. Drive Ground Stakes into firm ground.

A. Using two 2-1/2" wood screws per Ground Stake 2" x 2" x 14", secure one Ground Stake 2" x 2" x 14" to both fort posts 4" x 4" x 94-1/4".

NOTE: To avoid damaging the ground stake it is recommended that a separate piece of wood is used between the ground stake and the hammer.

C. Using two #12 x 2" pan head screws, center and attach Slide to fort at location A, as per Detail B.

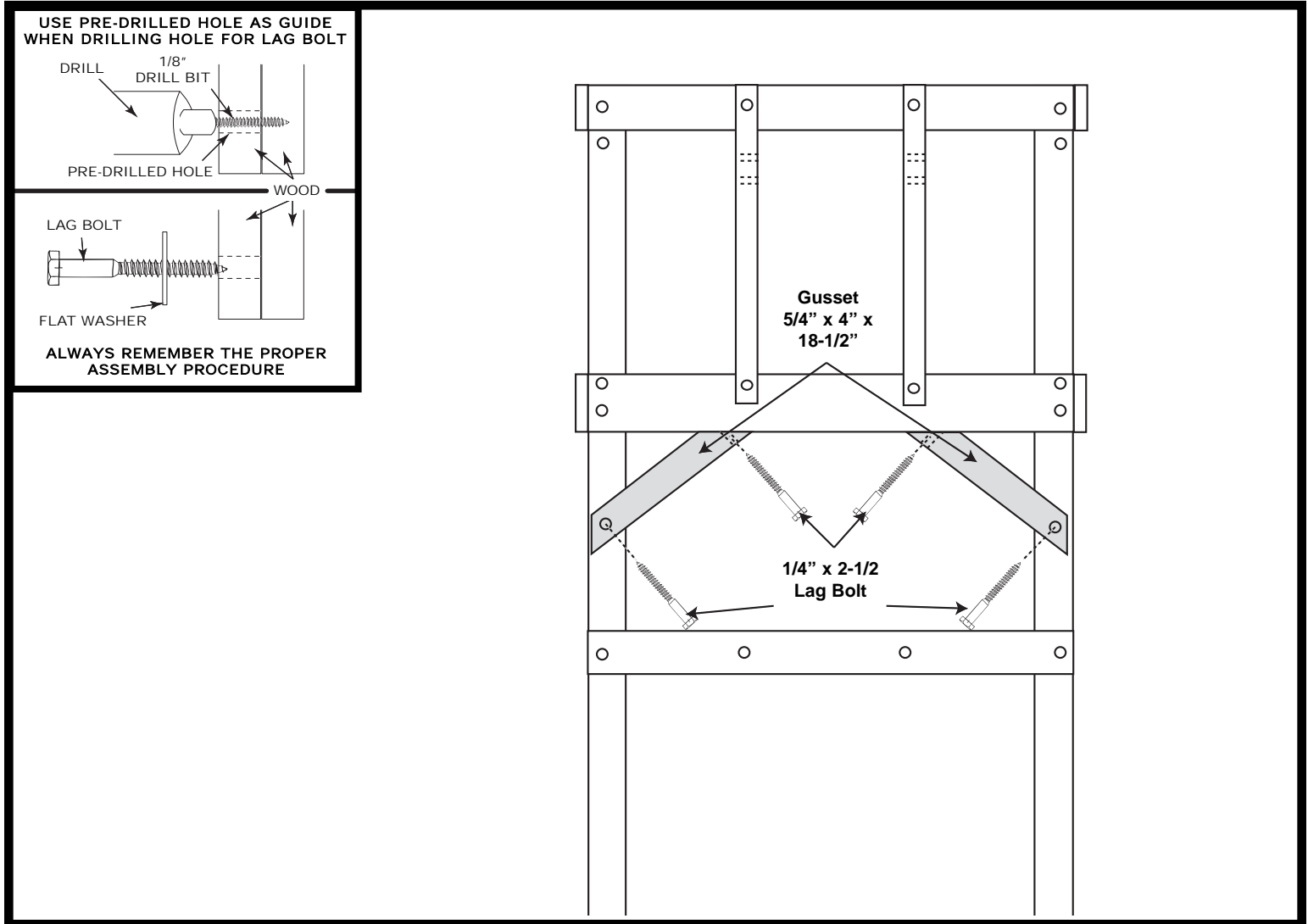
NOTE: Screws must penetrate Floor Front 5/4" x 4" x 21"



STEP 13 - ATTACH GUSSETS

A. Using four 2-1/2" Lag Bolts, attach two Gussets 5/4" x 4" x 18-1/2" to Floor Side 5/4" x 6" x 46-3/4" and Post 4" x 4" x 94-1/4".

NOTE: Pre-drill with 1/8" drill bit prior to installing Lag Bolt.



ATTENTION

* RE-TIGHTEN ALL HEX BOLTS, LAG BOLTS, AND WOOD SCREWS TO ENSURE SAFETY. DO NOT OVER TIGHTEN TO AVOID CRUSHING WOOD.

* THOROUGHLY READ INSTRUCTIONS, AND THE OWNERS MANUAL, BEFORE USING PLAY CENTER.