

CHAPTER 6. TIRE SWING ADD-ON

* CHILDREN SHOULD NEVER LEAN ALL THE WAY BACK WHILE SPINNING ON THE TIRE SWING. THIS COULD LEAD TO SERIOUS HEAD INJURIES FROM THE SUPPORTING POSTS.

Required materials – Supplied

- (2) A-Frame Brackets
- Truss Bracket
- (1) Residential Tire Swivel
- (3) Quick Links
- (3) Chains with attached tire-eye bolts
- (4) 3/8"x7" Carriage Bolts
- (2) 3/8"x4" Lag Screws
- (22) 8x2-1/2" decking screws
- (4) 5/16"x2-1/2" Lag Screws
- (2) 5/16" x 3-1/2" Lag Screws
- (7) 3/8" Flat Washers
- (7) 3/8" Lock Washers
- (6) 5/16" Flat Washers
- (6) 5/16" Lock Washers
- (5) 3/8" Hex nuts
- (2) 1/2" Flat Washers

Required materials - NOT Supplied

- (1) 4x6x10' – do not trim
- (2) 4x4x8' - cut each to 4x4x71"
- (1) 2x6x6' – cut to 2x6x45"

STEP 1. Assemble Tire Swing A-frame (Diagram 1)

Lay the two 4x4x71" on the ground at an angle to each other. Position the two 4x4s inside one of the A-frame bracket provided, adjusting the angle between them to make sure that the edges of the bracket are fully contacting the edges of the 4x4s. Attach the bracket to the legs using (8) 8x2-1/2" decking screws in the smaller holes. Turn the assembly over and repeat for the other A-frame bracket.

Cut and drill the 2x6 as shown in Diagram 2. Place the 2x6 on the outside of the 4x4s until the edges line up. Mark hole locations on the 4x4s using the holes in the 2x6 as a guide. Drill 1/4" pilot holes in the 4x4s and use the (2) 3/8"x4" lag screws and washers to attach the 2x6 to the 4x4s.

STEP 2. Drill Holes in Tire Swing Beam for Tire Swivel/Attach Swivel

Drill holes in the swing beam and attach the swivel to the swing beam using the 3/8"x7" carriage bolts, with the head of the bolt and a 1/2" washer on the top of the swing beam (opposite the swivel), through the swivel flange, and followed by a 3/8" flat washer, a 3/8" lock washer, and a hex nut.

STEP 3. Modify Fort for Tire Swing Beam

Remove one of the wall boards of the fort so that you will have enough room to attach the tire swing beam to the fort post. Drill two 7/16" through holes (2-1/2" apart) in the center of the fort post, starting the first hole at 64-1/2" height from the bottom of the fort post. Drill the holes through the face that you will be attaching the tire swing beam.

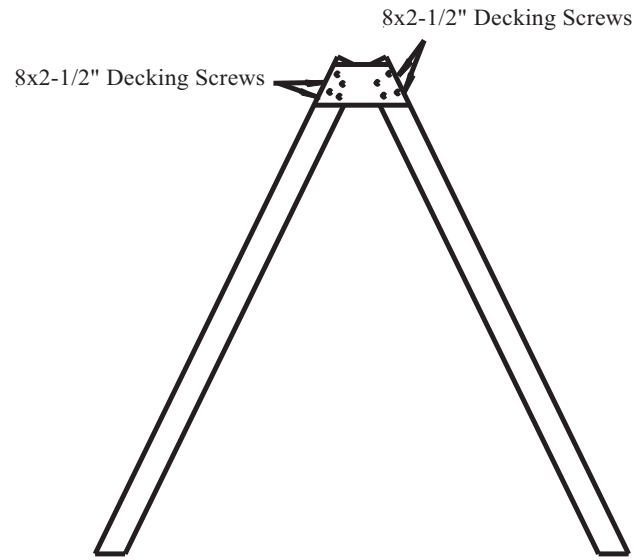
STEP 4. Assemble Tire Swing Beam

Have someone hold the swing beam against the fort post while you use the 3/8"x7" carriage bolts, washers, and nuts to attach it. Then, while the second person is still holding up the swing beam, move the tire swing a-frame into position under the swing beam. Attach the outside a-frame bracket to the swing beam with a 5/16" x 3-1/2" lag screw, washers, and two decking screws. Attach the inside a-frame bracket using the same procedure. Attach the truss bracket to one side of the assembly using the 5/16" x 2-1/2" lag screws and (4) decking screws. Replace the wall board that you removed earlier.

STEP 5. Assemble Tire Swing

Use the quick links to attach the tire swing chains to the swivel. Adjust the height of the tire swing as needed.

Diagram 1. ASSEMBLE TIRE SWING A-FRAME



Cut 2x6x8' to 2x6x45". Cut along diagonal dotted lines
 Hole Diameters: 1-1/8" (1" deep) for countersink
 7/16" through holes for bolts

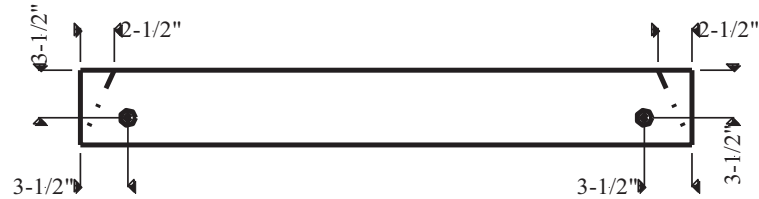
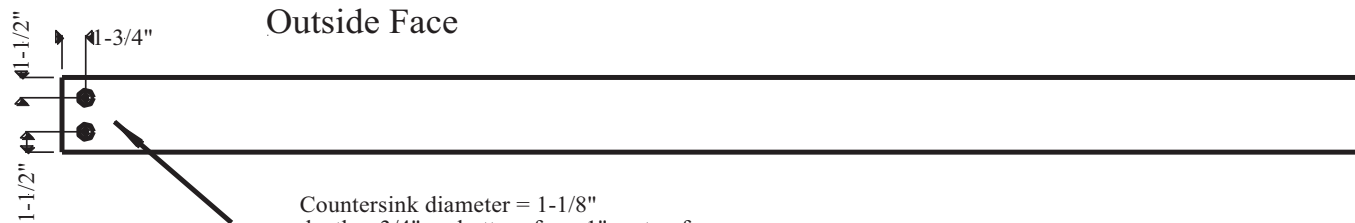
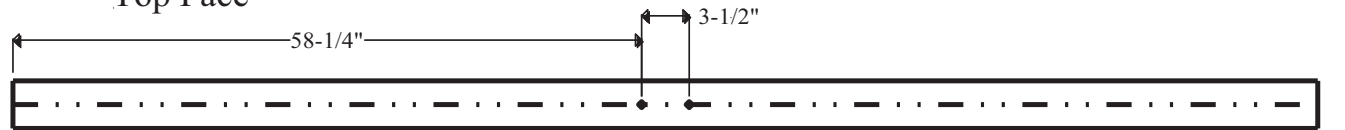


Diagram 2. DRILL TIRE SWING BEAM



Countersink diameter = 1-1/8"
 depth = 3/4" on bottom face, 1" on top face

Bolt hole diameter = 7/16"
 depth = thru