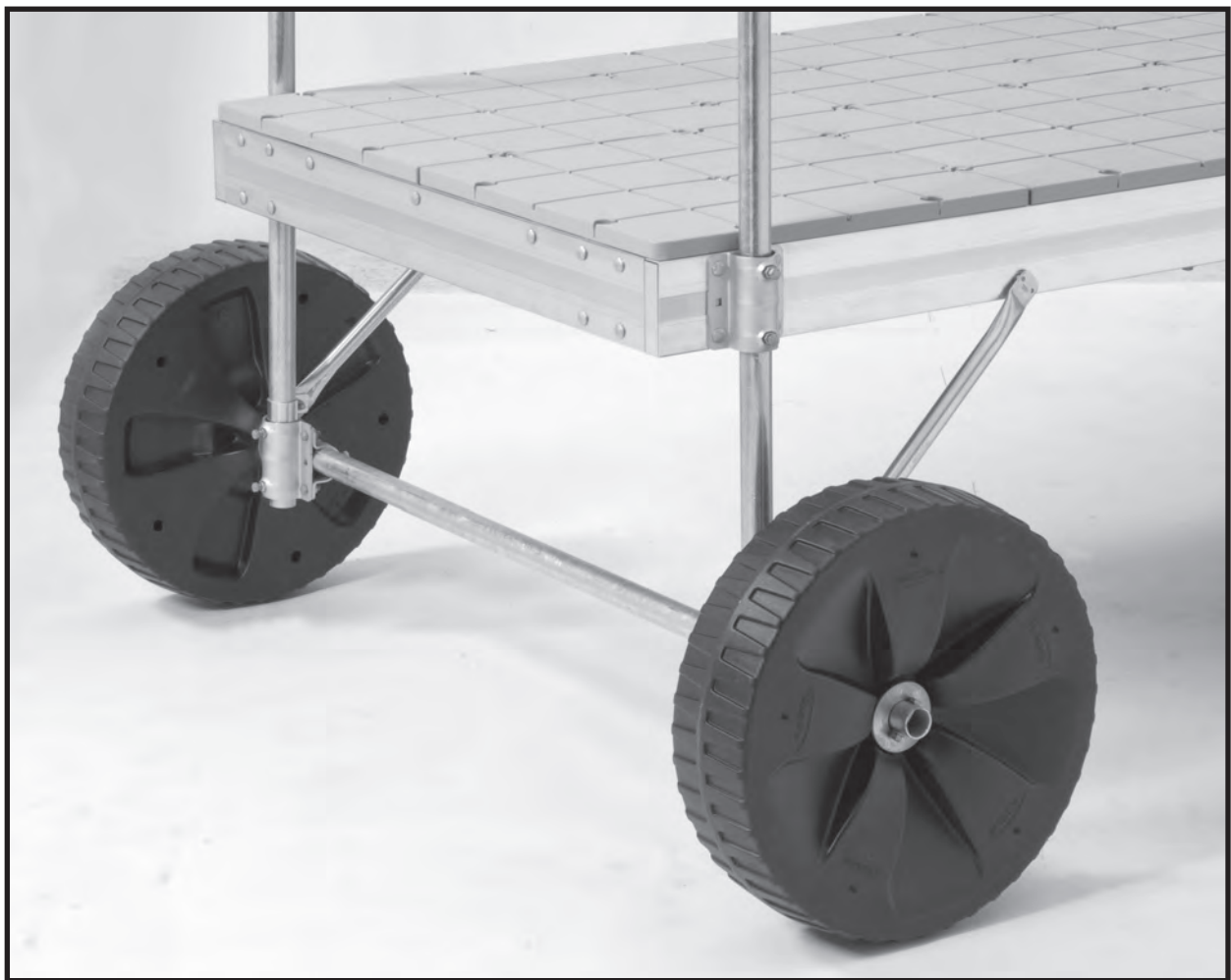




# Dock Axle Kit

## Assembly Instructions

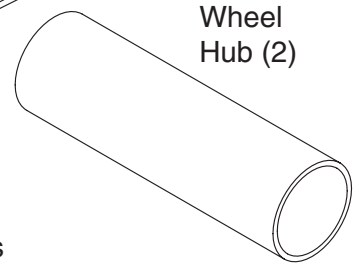
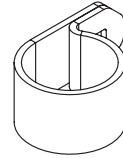
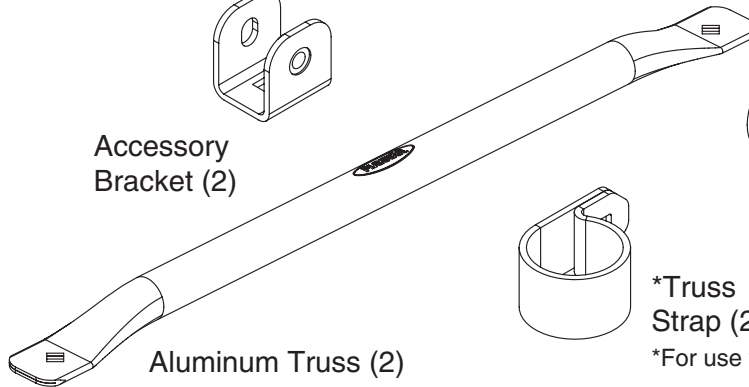
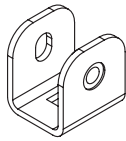
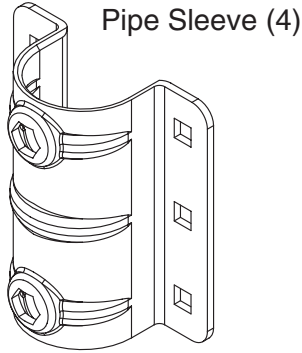


**We're Here To Help!**

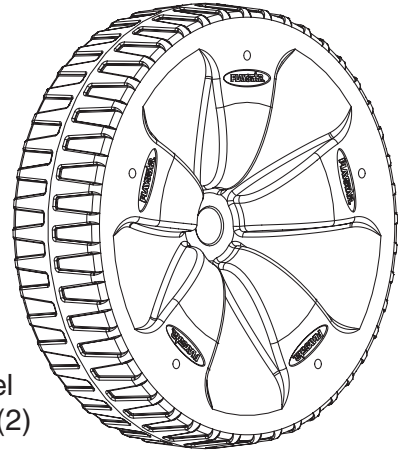
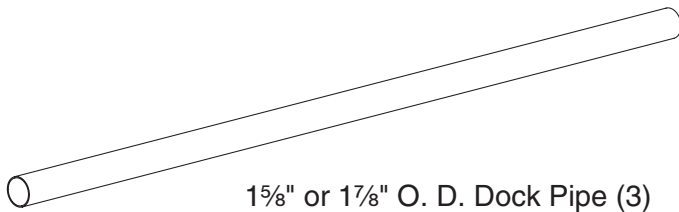
Call Toll Free **1-888-752-9782**  
Customer Service: Monday - Friday, 8:00 A.M. to 5:00 P.M. C.S.T.

**PS 1198**

# COMPONENTS INCLUDED (not actual size)



# COMPONENTS (PURCHASE SEPARATELY)



# TOOLS REQUIRED

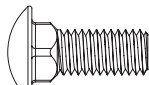
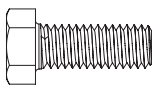
Level  
Square  
Pencil  
Hammer

Hacksaw  
Adjustable Wrench  
Socket Wrench  
Drill

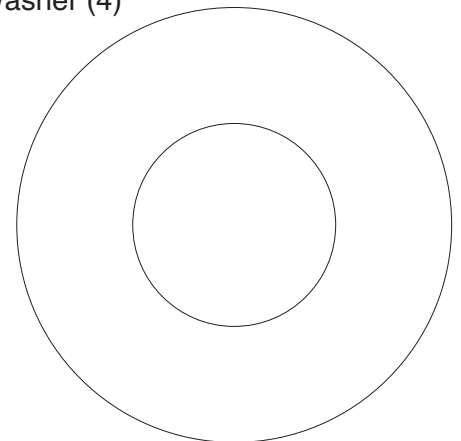
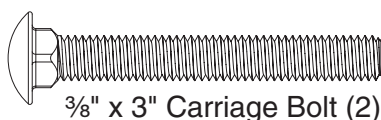
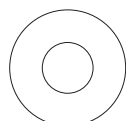
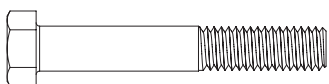
Screwdriver (regular or phillips)  
Tape Measure  
Safety Glasses  
Sawhorses (optional)

1/8" & 3/8" drill bits  
9/16" & 3/4" sockets

# HARDWARE INCLUDED (not actual size)



1 5/8" Washer (4)

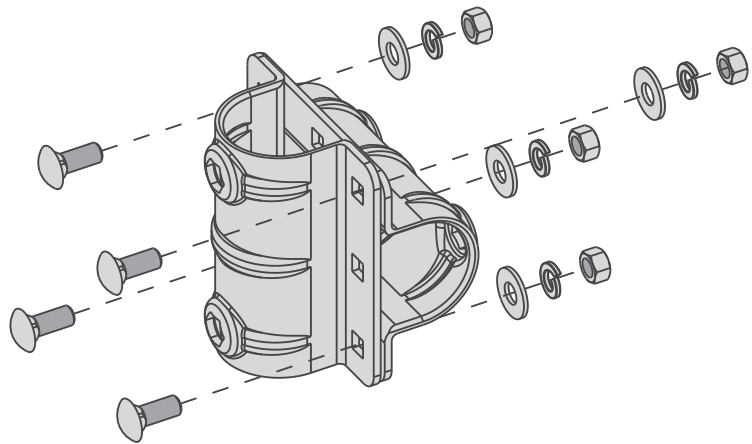


# JOINT ASSEMBLY

## Items for STEP 1:

- (4) pipe sleeves
- (8)  $\frac{3}{8}$ " x 1" carriage bolts
- (8)  $\frac{3}{8}$ " flat washers
- (8)  $\frac{3}{8}$ " lock washers
- (8)  $\frac{3}{8}$ " nuts

Position 2 pipe sleeves back to back rotated 90° from each other as shown. Secure with  $\frac{3}{8}$ " x 1" carriage bolts,  $\frac{3}{8}$ " flat washers,  $\frac{3}{8}$ " lock washers and  $\frac{3}{8}$ " nuts as shown.



Repeat for second assembly.

# SELECT YOUR CONFIGURATION

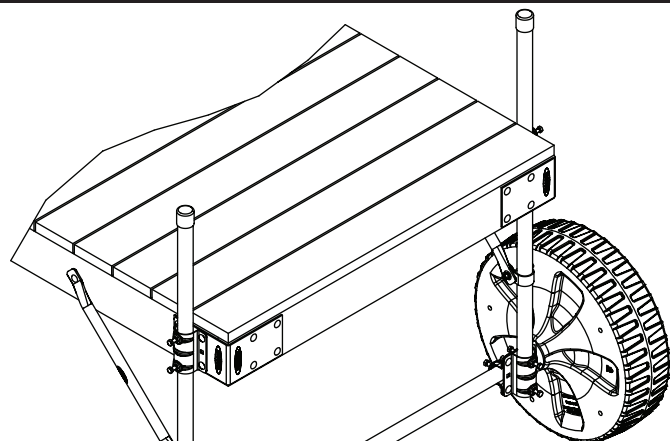
## STEP 2:

Depending on your needs and layout of your dock, select 1 of 3 possible configurations.

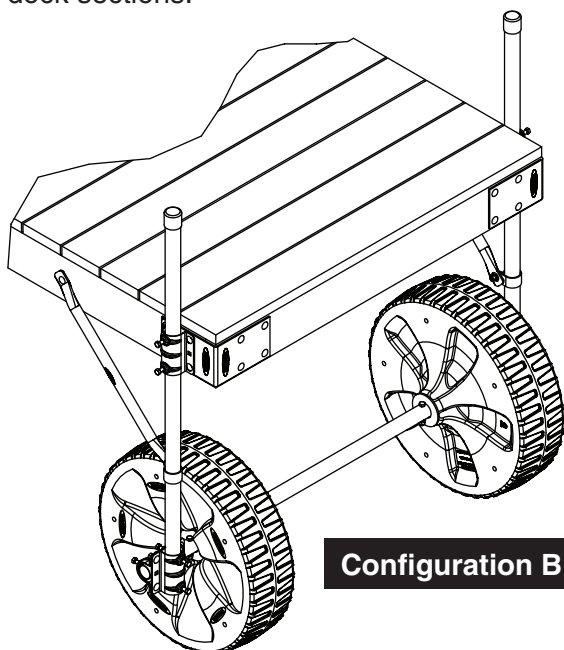
**Configuration A** is the most common and stable option.

**Configuration B** is recommended when it is not desirable to have the wheels extending beyond the sides of the dock.

**Configuration C** is to be used for "T", "L" or END dock sections.

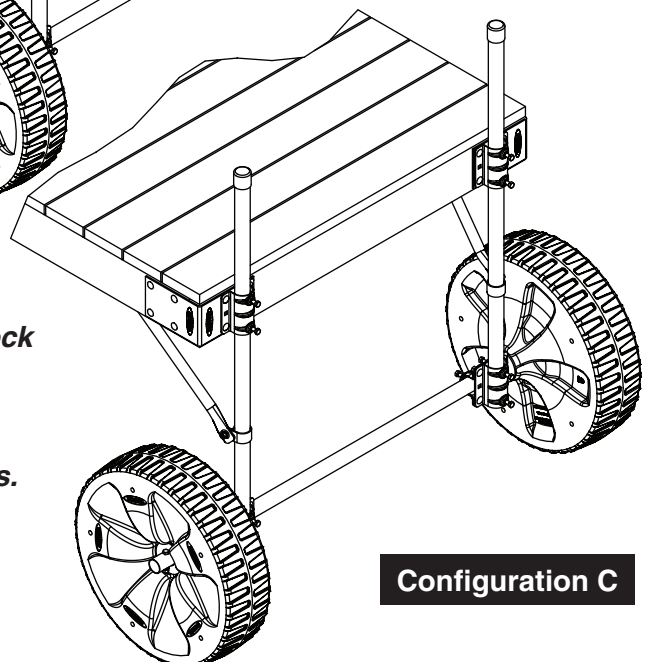


**Configuration A**



**Configuration B**

*Note: Your dock can have a number of different configurations.*



**Configuration C**

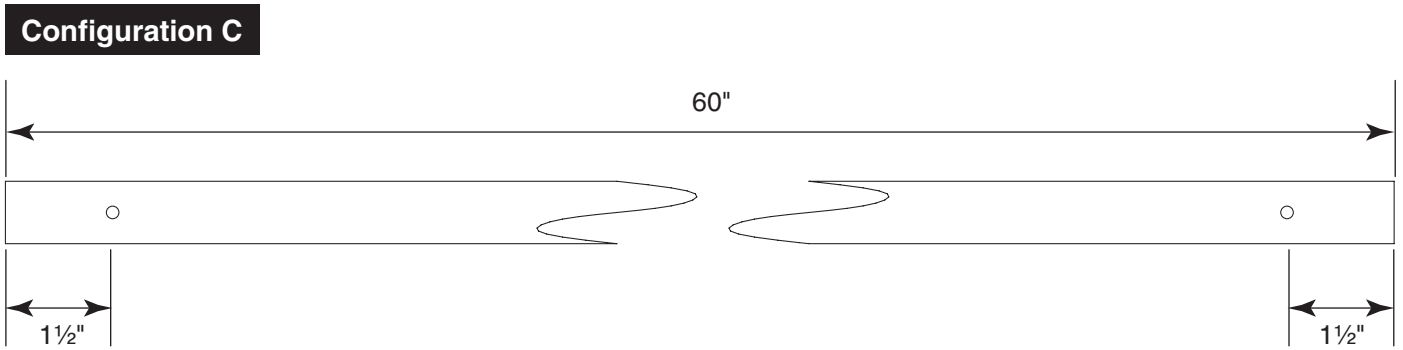
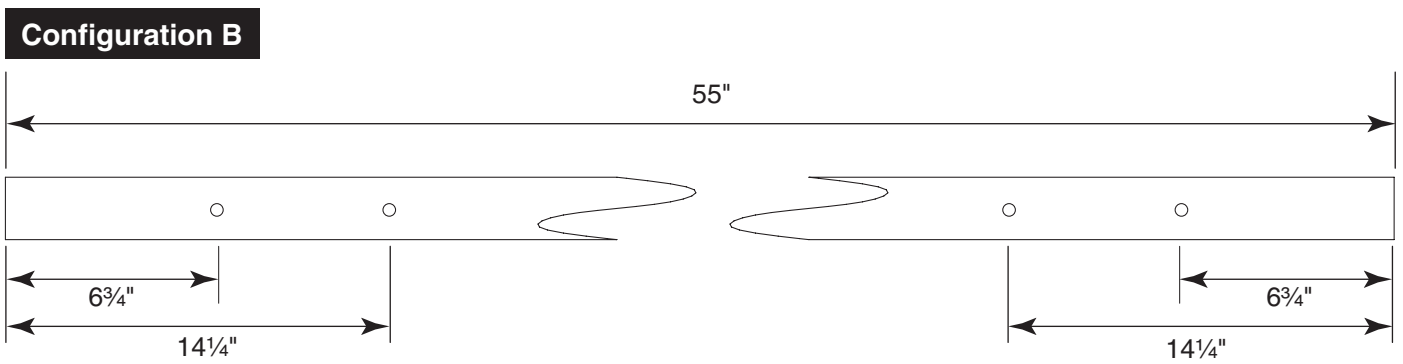
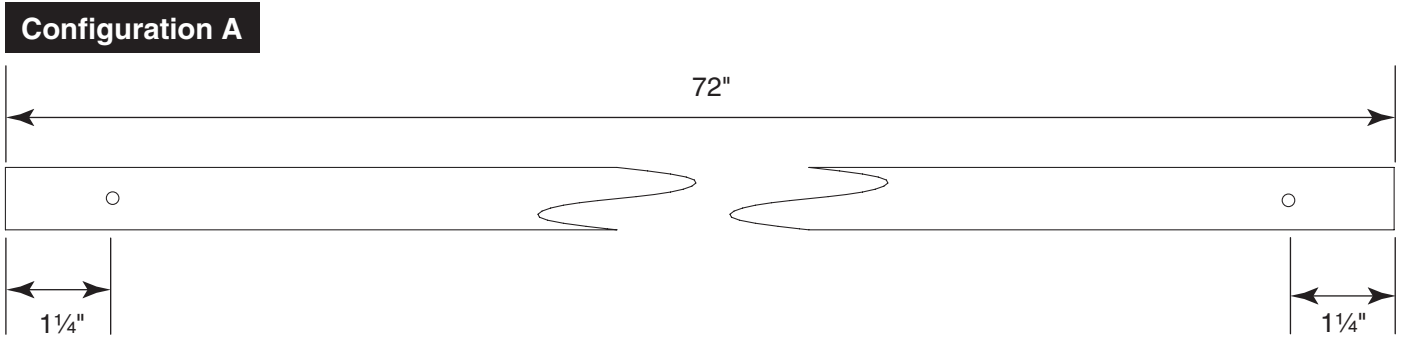
**Items for STEP 3:**

- (1) 1<sup>5</sup>/<sub>8</sub>" or 1<sup>7</sup>/<sub>8</sub>" O. D. Dock Pipe

Depending on your configuration, cut out one dock pipe and drill <sup>3</sup>/<sub>8</sub>" holes as per dimensions shown.

*These dimensions are based on PlayStar 4' wide dock designs.*

**One pipe per axle kit.**



***For Configuration A instructions, continue on the next page.***

***For Configuration B instructions, skip to page 7.***

***For Configuration C instructions, skip to page 9.***

# CONFIGURATION A

## Items for STEP 4:

- (2) truss straps
- (2) joint assemblies from Step 1
- (4)  $\frac{3}{8}$ " x 1" hex bolts
- (4)  $\frac{3}{8}$ " flanged nuts

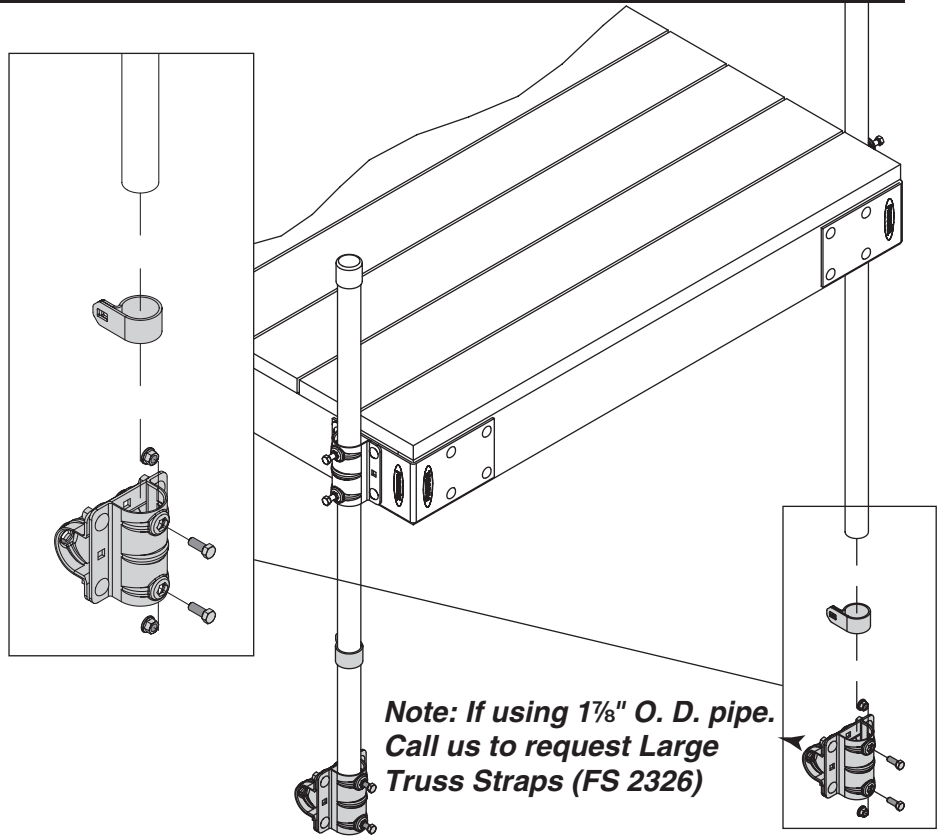
Attach dock pipes to your dock as directed in your dock instructions.

Slide truss strap onto pipe as shown, noting the orientation of the tabs.

Position two  $\frac{3}{8}$ " flanged nuts into joint assembly as shown.

From the outside insert  $\frac{3}{8}$ " x 1" hex nuts into flanged nuts as shown.

Insert the joint assembly into the dock pipe as shown. Make sure the bottom of the pipe is flush with the bottom of the joint assembly. Tighten the set bolts.



**Repeat for the other side.**

## Items for STEP 5:

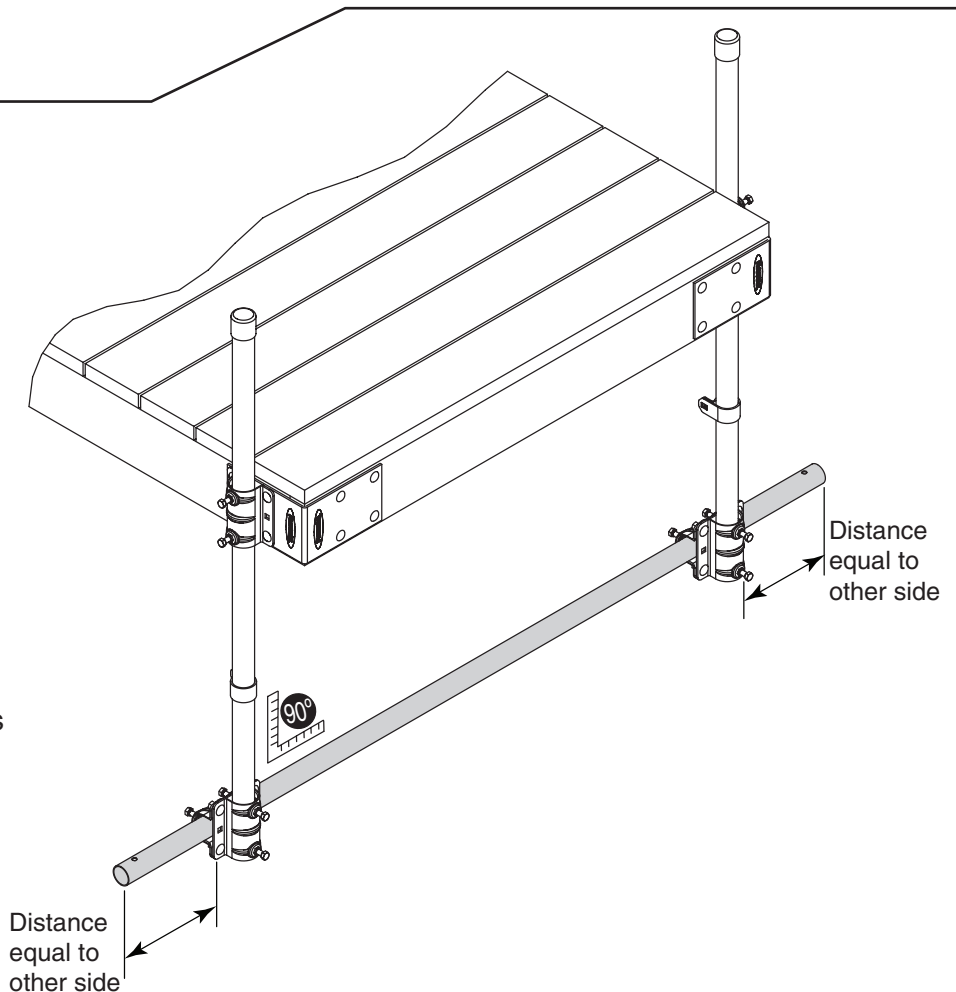
- (1) dock pipe cut & drilled from Step 3
- (4)  $\frac{3}{8}$ " x 1" hex bolts
- (4)  $\frac{3}{8}$ " flanged nuts

Position  $\frac{3}{8}$ " flanged nuts inside joint assembly as in previous step.

From the outside insert  $\frac{3}{8}$ " x 1" hex nuts into flanged nuts as shown.

Insert pipe through pipe sleeves as shown. Make sure the assembly is square and the distance of the pipe extending beyond the pipe sleeves is the same on both sides as shown.

Tighten set bolts to secure the pipe.



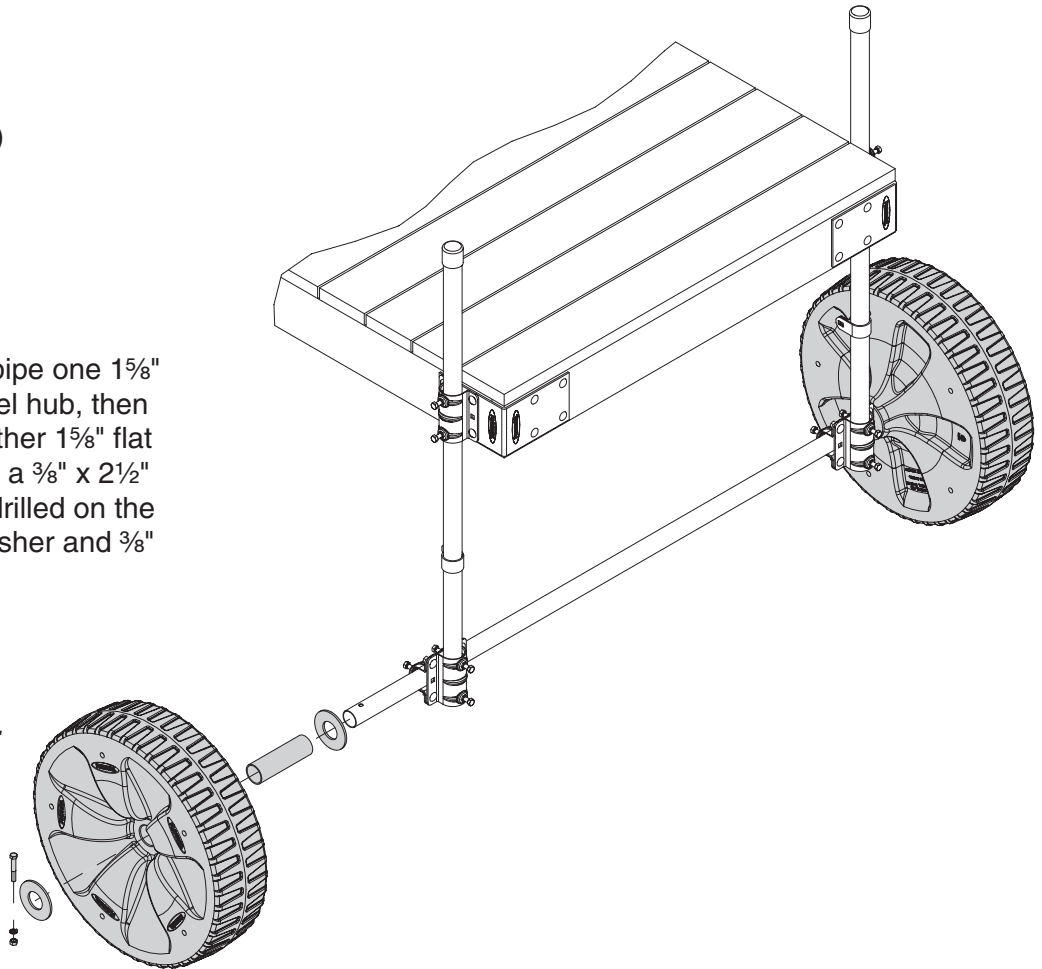
### Items for STEP 6:

- (2) dock wheels (PS 1334)
- (2) wheel hubs
- (4) 1 $\frac{5}{8}$ " flat washers
- (2)  $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " hex bolts
- (2)  $\frac{3}{8}$ " lock washers
- (2)  $\frac{3}{8}$ " hex nuts

Insert through one end of the pipe one 1 $\frac{5}{8}$ " flat washer, followed by a wheel hub, then a dock wheel, followed by another 1 $\frac{5}{8}$ " flat washer as shown. Secure with a  $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " hex bolt through the hole pre-drilled on the pipe, tighten with a  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " nut as shown.

**Repeat for the other side.**

**Note: If using 1 $\frac{7}{8}$ " O. D. pipe. Wheel hubs and washers are not needed.**



### Items for STEP 7:

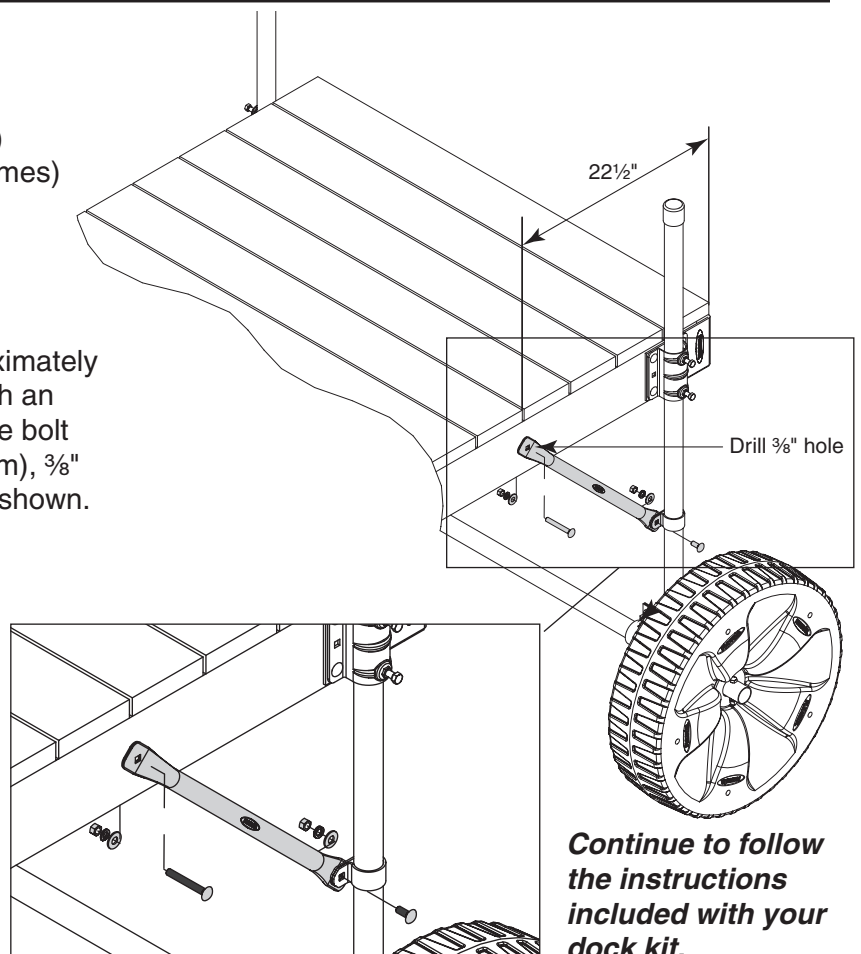
- (2) aluminum trusses
- (2)  $\frac{3}{8}$ " x 3" carriage bolts (for wood frames)
- (2)  $\frac{3}{8}$ " x 1" carriage bolts (for aluminum frames)
- (2)  $\frac{3}{8}$ " x 1" carriage bolts
- (4)  $\frac{3}{8}$ " flat washers
- (4)  $\frac{3}{8}$ " lock washers
- (4)  $\frac{3}{8}$ " hex nuts

Drill a  $\frac{3}{8}$ " hole at the center of the frame approximately 22 $\frac{1}{2}$ " from the end of the dock as shown. Attach an aluminum truss to the frame using a  $\frac{3}{8}$ " carriage bolt (3" long for wood frames or 1" long for aluminum),  $\frac{3}{8}$ " flat washer,  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " hex nut as shown.

Secure the other end of the aluminum truss to the strap with a  $\frac{3}{8}$ " x 1" carriage bolt,  $\frac{3}{8}$ " flat washer,  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " and  $\frac{3}{8}$ " hex nut as shown.

**Note: When adjusting the height of your dock, you will need to loosen these straps to allow the pipe to slide up and down. Re-tighten after setting the desired height.**

**Repeat for other side.**



**Continue to follow the instructions included with your dock kit.**

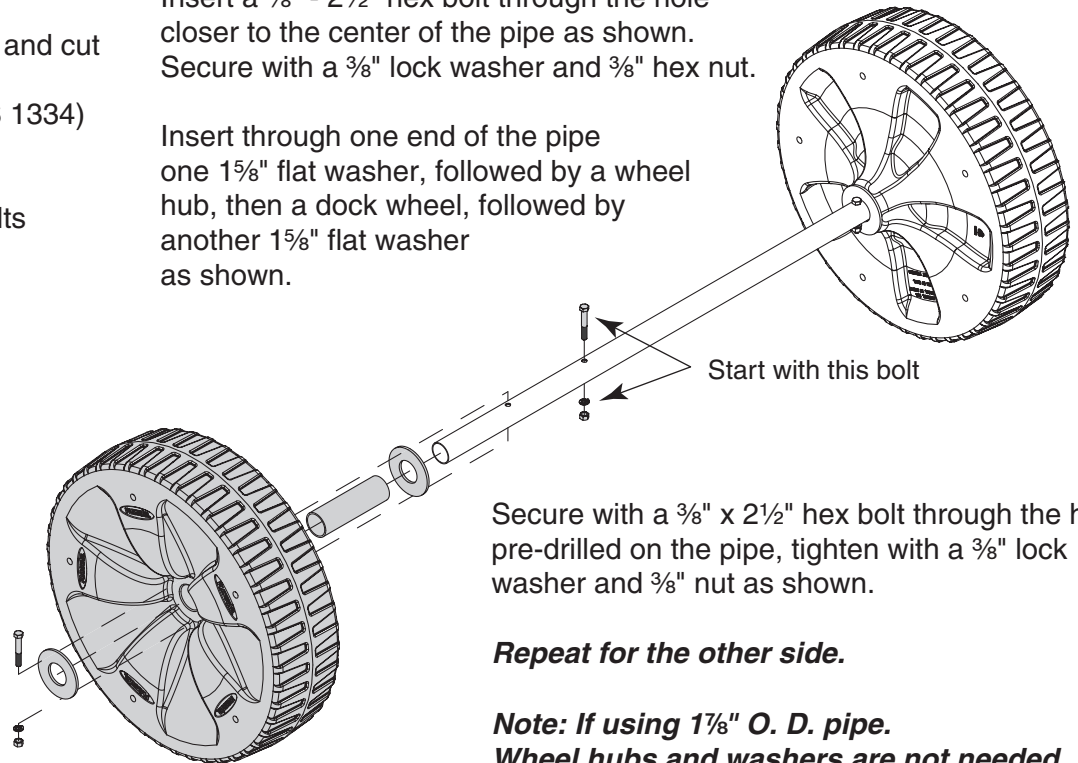
# CONFIGURATION B

## Items for STEP 8:

- (1) dock pipe drilled and cut from Step 3
- (2) dock wheels (PS 1334)
- (2) wheel hubs
- (4) 1 $\frac{5}{8}$ " flat washers
- (4)  $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " hex bolts
- (4)  $\frac{3}{8}$ " lock washers
- (4)  $\frac{3}{8}$ " hex nuts

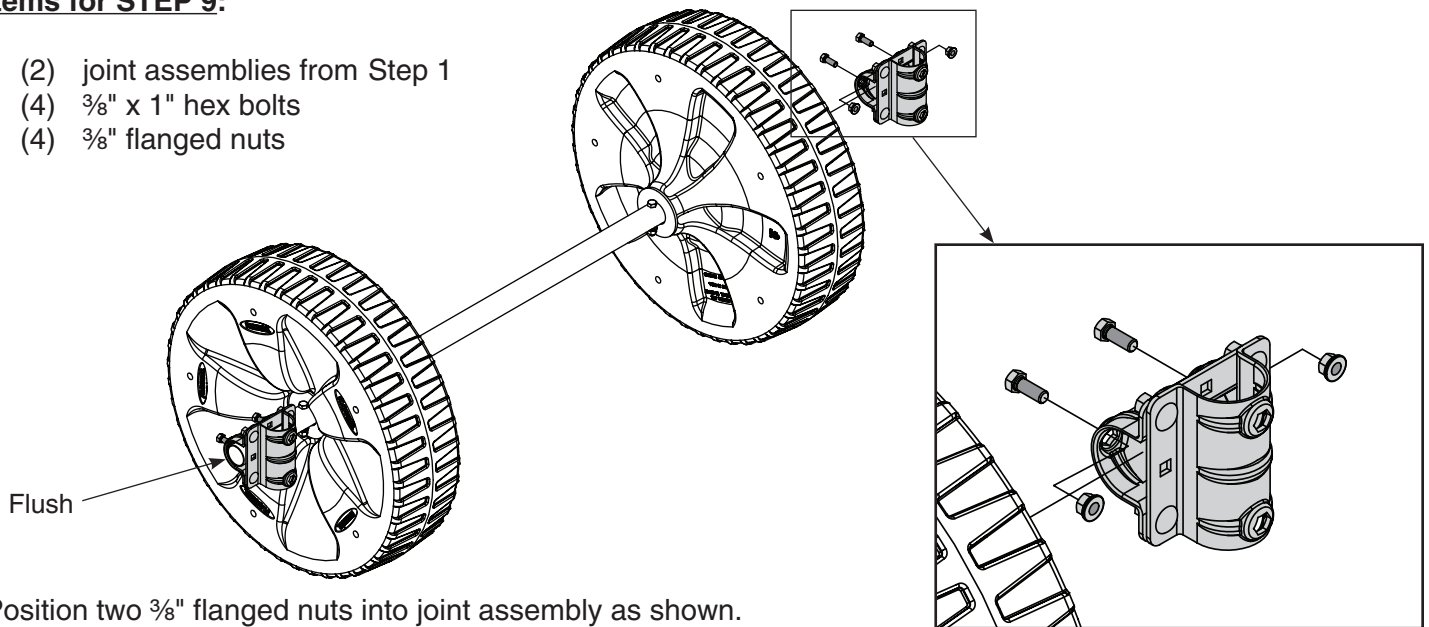
Insert a  $\frac{3}{8}$ " - 2 $\frac{1}{2}$ " hex bolt through the hole closer to the center of the pipe as shown. Secure with a  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " hex nut.

Insert through one end of the pipe one 1 $\frac{5}{8}$ " flat washer, followed by a wheel hub, then a dock wheel, followed by another 1 $\frac{5}{8}$ " flat washer as shown.



## Items for STEP 9:

- (2) joint assemblies from Step 1
- (4)  $\frac{3}{8}$ " x 1" hex bolts
- (4)  $\frac{3}{8}$ " flanged nuts



### Items for STEP 10:

- (2) truss straps
- (4)  $\frac{3}{8}$ " x 1" hex bolts
- (4)  $\frac{3}{8}$ " flanged nuts

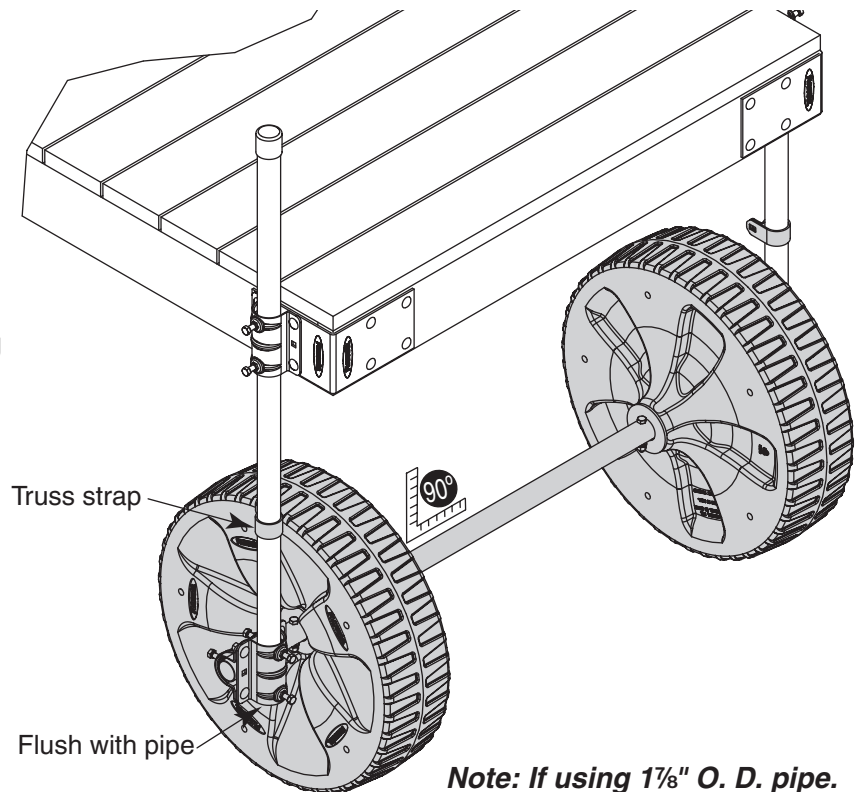
Attach dock pipes as directed in your dock instructions.

Slide truss straps onto pipes as shown, noting the orientation of the tabs.

Position two  $\frac{3}{8}$ " flanged nuts inside joint assembly as in previous step.

From the outside insert  $\frac{3}{8}$ " x 1" hex nuts into flanged nuts as shown.

Insert the axle assembly into the dock pipes as shown. Make sure the bottom of the pipe is flush with the bottom of the joint assembly. Tighten the set bolts.



**Note: If using 1 $\frac{1}{8}$ " O. D. pipe. Call us to request Large Truss Straps (FS 2326)**

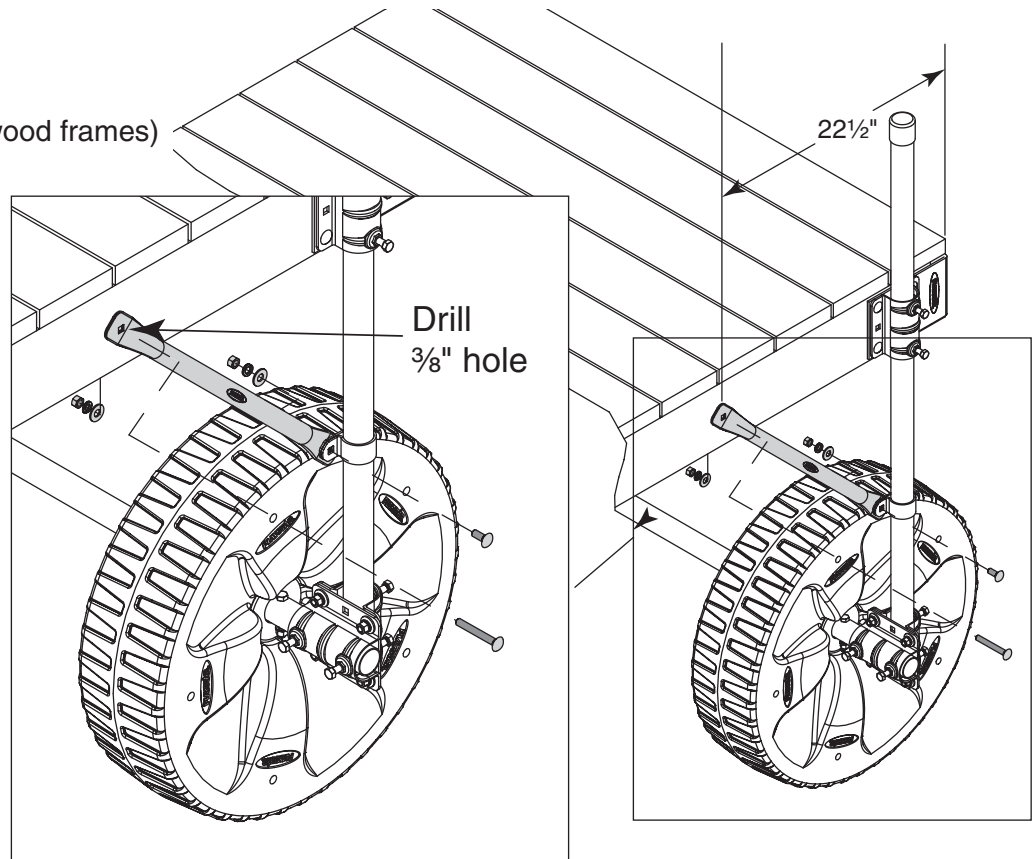
**Repeat for the other pipe, making sure the assembly remains square.**

### Items for STEP 11:

- (2) aluminum trusses
- (2)  $\frac{3}{8}$ " x 3" carriage bolts (for wood frames)
- (2)  $\frac{3}{8}$ " x 1" carriage bolts (for aluminum frames)
- (2)  $\frac{3}{8}$ " x 1" carriage bolts
- (4)  $\frac{3}{8}$ " flat washers
- (4)  $\frac{3}{8}$ " lock washers
- (4)  $\frac{3}{8}$ " hex nuts

Drill a  $\frac{3}{8}$ " hole at the center of the frame approximately 22 $\frac{1}{2}$ " from the end of the dock as shown. Attach an aluminum truss to the frame using a  $\frac{3}{8}$ " carriage bolt (3" long for wood frames or 1" long for aluminum),  $\frac{3}{8}$ " flat washer,  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " hex nut as shown.

Secure the other end of the aluminum truss to the strap with a  $\frac{3}{8}$ " x 1" carriage bolt,  $\frac{3}{8}$ " flat washer,  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " and  $\frac{3}{8}$ " hex nut as shown.



**Note: When adjusting the height of your dock, you will need to loosen these straps to allow the pipe to slide up and down. Re-tighten after setting the desired height.**

**Repeat for other side. Continue to follow the instructions included with your dock kit.**



# CONFIGURATION C

## Items for STEP 12:

- (2) truss straps
- (2) joint assemblies from Step 1
- (4)  $\frac{3}{8}$ " x 1" hex bolts
- (4)  $\frac{3}{8}$ " flanged nuts

Attach dock pipes to your dock as directed in your dock instructions.

Slide truss strap onto pipe as shown, noting the orientation of the tabs.

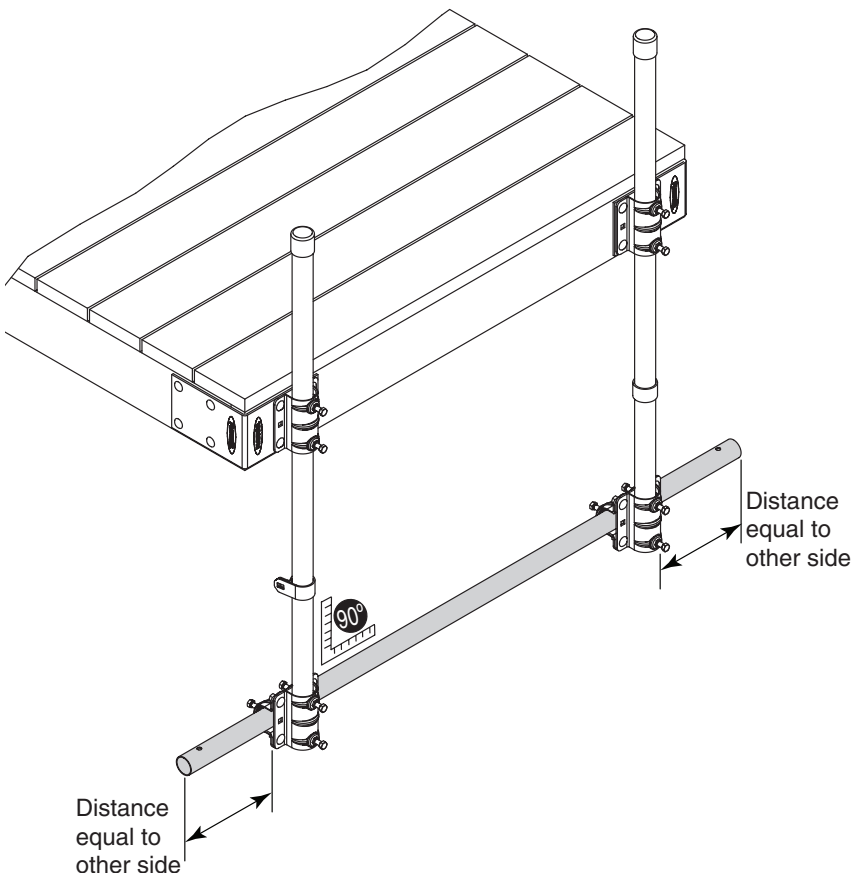
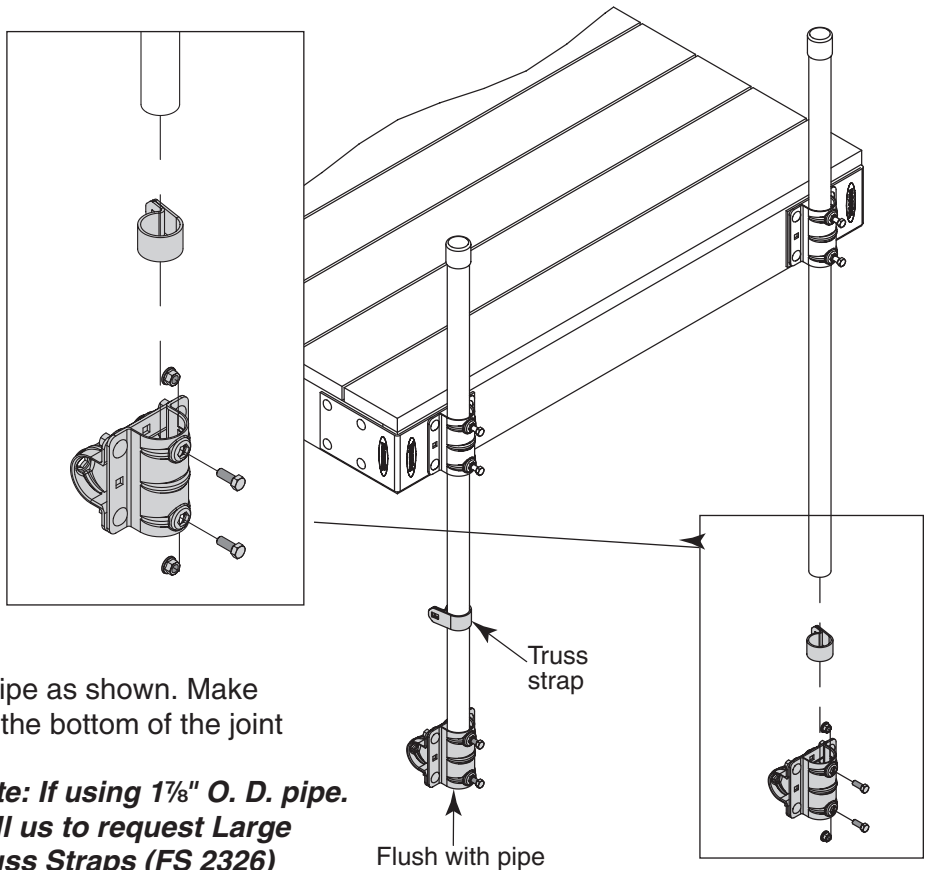
Position two  $\frac{3}{8}$ " flanged nuts into joint assembly as shown.

From the outside insert  $\frac{3}{8}$ " x 1" hex nuts into flanged nuts as shown.

Insert the joint assembly into the dock pipe as shown. Make sure the bottom of the pipe is flush with the bottom of the joint assembly. Tighten the set bolts.

**Repeat for the other side.**

**Note: If using  $1\frac{1}{8}$ " O. D. pipe. Call us to request Large Truss Straps (FS 2326)**



## Items for STEP 13:

- (1) dock pipe cut & drilled from Step 3
- (4)  $\frac{3}{8}$ " x 1" hex bolts
- (4)  $\frac{3}{8}$ " flanged nuts

Position  $\frac{3}{8}$ " flanged nuts inside joint assembly as in previous step.

From the outside insert  $\frac{3}{8}$ " x 1" hex nuts into flanged nuts as shown.

Insert pipe through pipe sleeves as shown. Make sure the assembly is square and the distance of the pipe extending beyond the pipe sleeves is the same on both sides as shown.

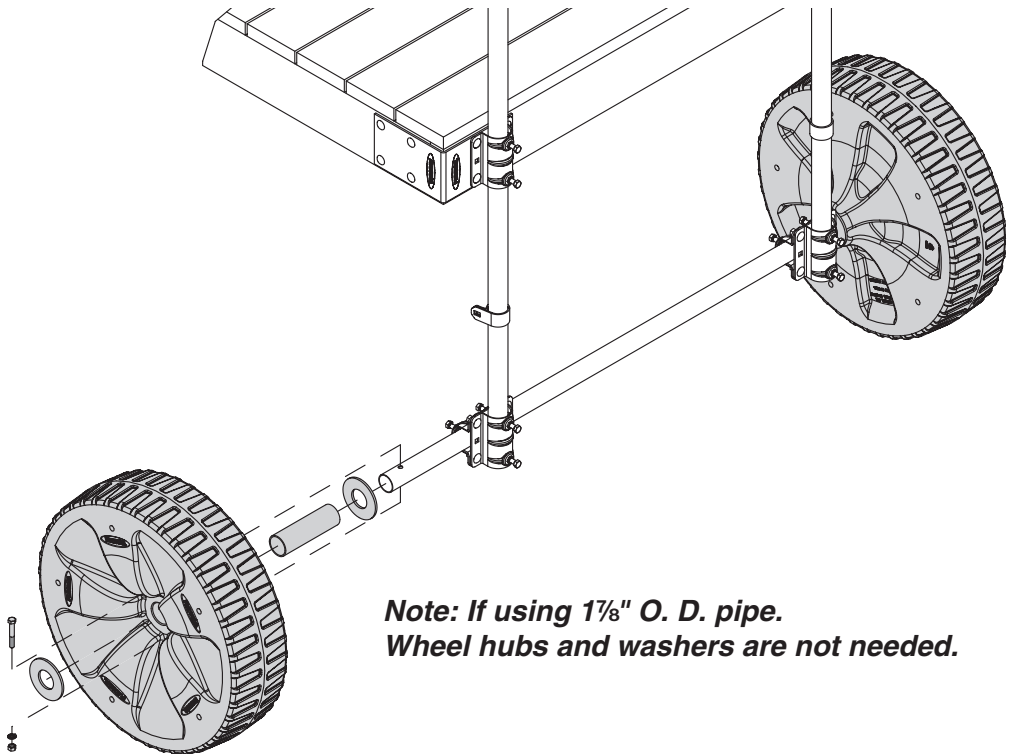
Tighten set bolts to secure the pipe.

**Items for STEP 14:**

- (2) dock wheels (PS 1334)
- (2) wheel hubs
- (4) 1 $\frac{5}{8}$ " flat washers
- (2)  $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " hex bolts
- (2)  $\frac{3}{8}$ " lock washers
- (2)  $\frac{3}{8}$ " hex nuts

Insert through one end of the pipe one 1 $\frac{5}{8}$ " flat washer, followed by a wheel hub, then a dock wheel, followed by another 1 $\frac{5}{8}$ " flat washer as shown. Secure with a  $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " hex bolt through the hole pre-drilled on the pipe, tighten with a  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " nut as shown.

*Repeat for the other side.*



**Note: If using 1 $\frac{7}{8}$ " O. D. pipe. Wheel hubs and washers are not needed.**



**Follow this step only if attaching Axle Kit to a Wood Frame Dock. For Aluminum Frame Dock skip to next step.**

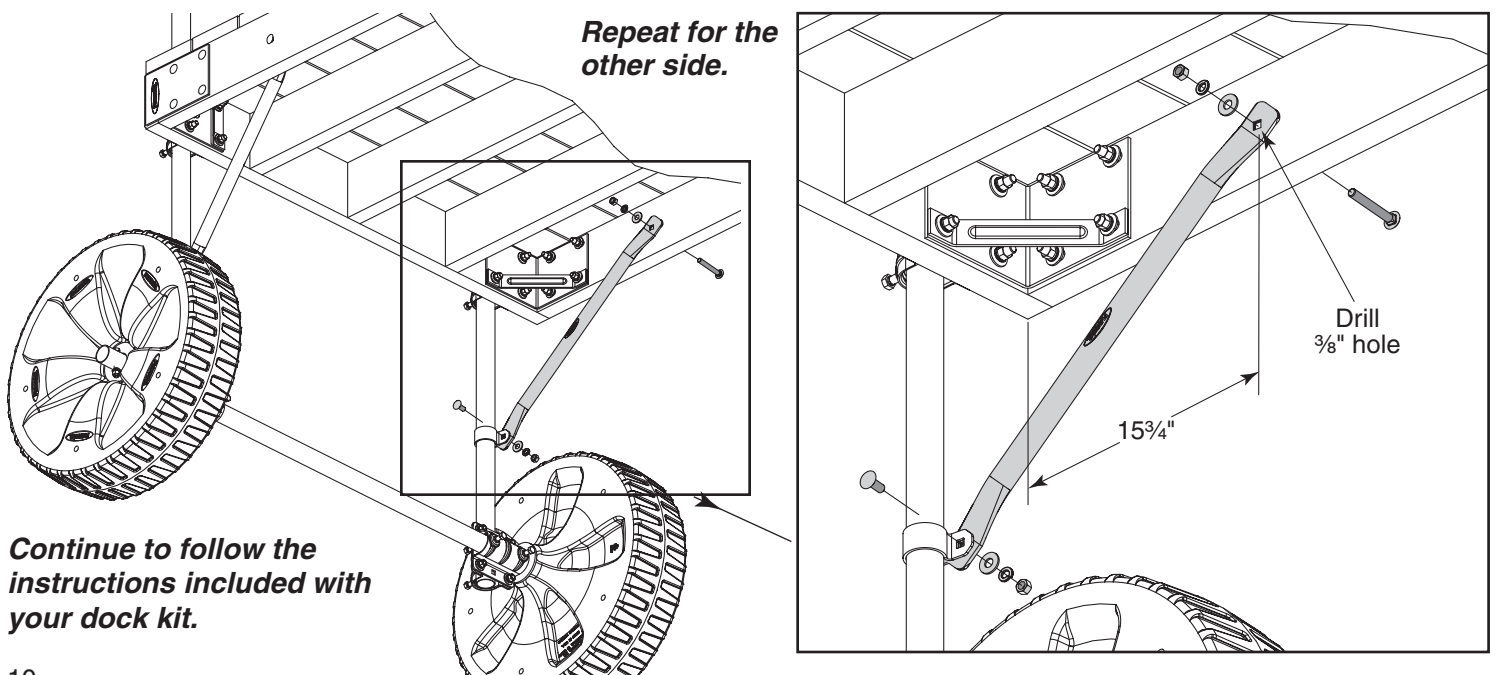
**Items for STEP 15:**

- (2) aluminum trusses
- (2)  $\frac{3}{8}$ " x 1" carriage bolts
- (2)  $\frac{3}{8}$ " x 3" carriage bolts
- (4)  $\frac{3}{8}$ " flat washers
- (4)  $\frac{3}{8}$ " lock washers
- (4)  $\frac{3}{8}$ " hex nuts

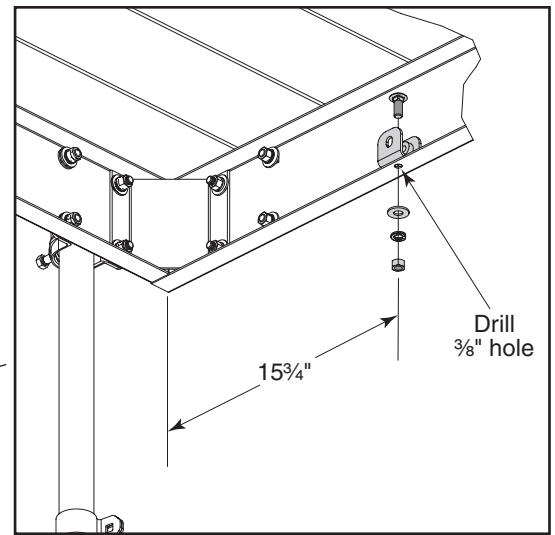
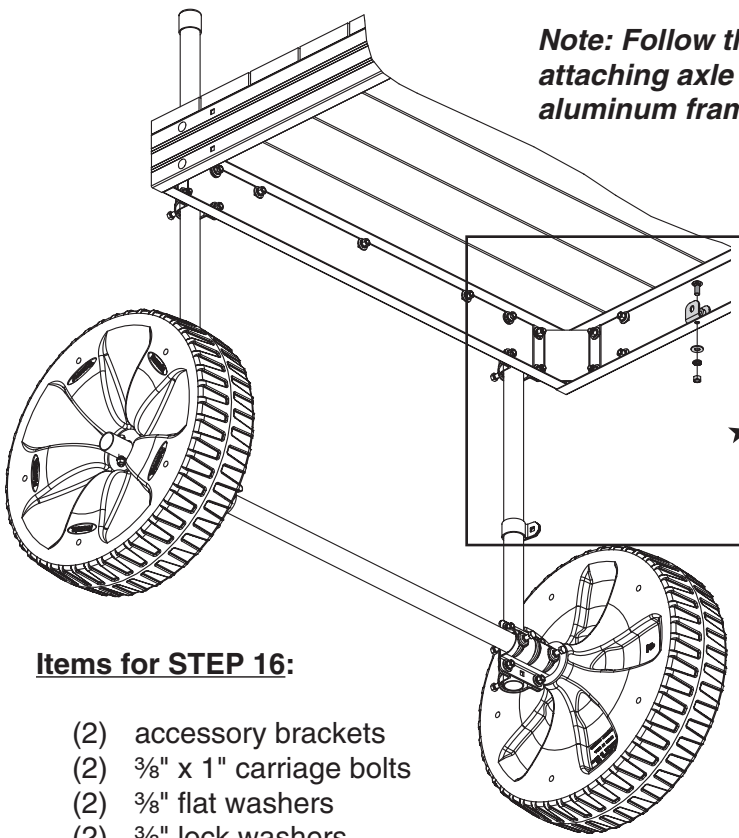
Drill a  $\frac{3}{8}$ " hole at the center of the frame approximately 15 $\frac{3}{4}$ " from the end of the dock as shown. From the underside of your dock, attach an aluminum truss to the frame using a  $\frac{3}{8}$ " x 3" carriage bolt,  $\frac{3}{8}$ " flat washer,  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " hex nut as shown.

Secure the other end of the aluminum truss to the strap with a  $\frac{3}{8}$ " x 1" carriage bolt,  $\frac{3}{8}$ " flat washer,  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " hex nut as shown.

**Note: When adjusting the height of your dock, you will need to loosen these straps to allow the pipe to slide up and down. Re-tighten after setting the desired height.**



**Note: Follow this step *ONLY* if attaching axle kit to an aluminum frame dock.**



Drill a  $\frac{3}{8}$ " hole at the bottom flange of the frame, approximately  $15\frac{3}{4}$ " from the end of the dock as shown.

Attach an accessory bracket on the inside of the frame with a  $\frac{3}{8}$ " x 1" carriage bolt,  $\frac{3}{8}$ " flat washer,  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " hex nut as shown.

**Repeat for the other side.**

**Items for STEP 16:**

- (2) accessory brackets
- (2)  $\frac{3}{8}$ " x 1" carriage bolts
- (2)  $\frac{3}{8}$ " flat washers
- (2)  $\frac{3}{8}$ " lock washers
- (2)  $\frac{3}{8}$ " hex nuts

**Items for STEP 17:**

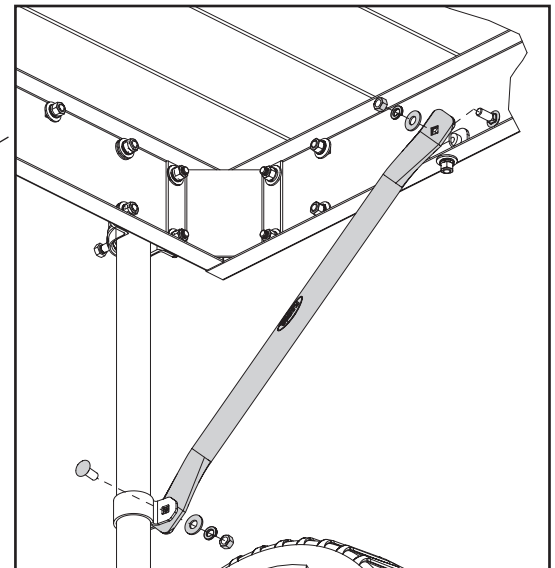
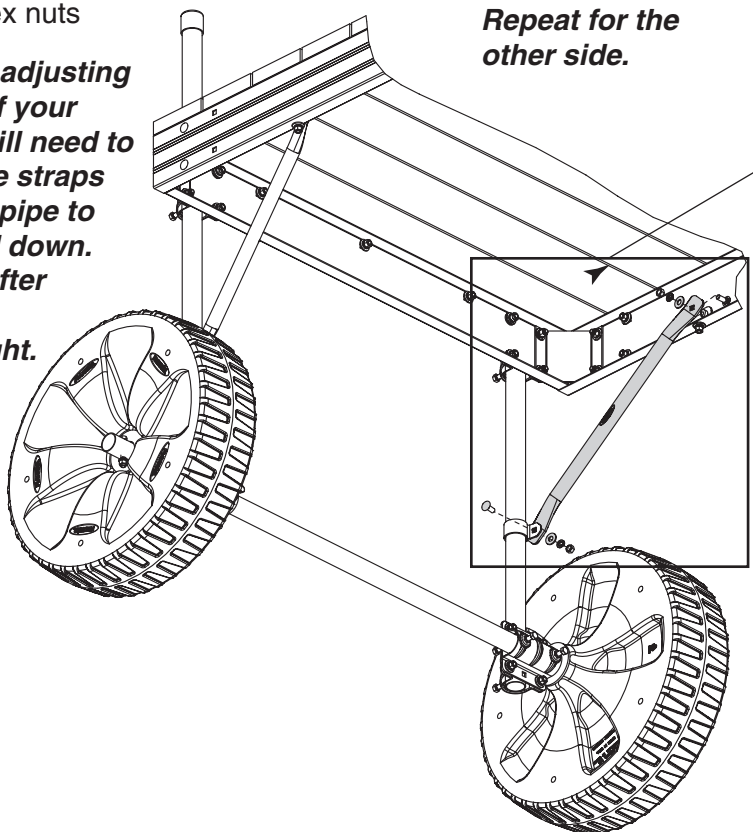
- (2) aluminum trusses
- (4)  $\frac{3}{8}$ " x 1" carriage bolts
- (4)  $\frac{3}{8}$ " flat washers
- (4)  $\frac{3}{8}$ " lock washers
- (4)  $\frac{3}{8}$ " hex nuts

Attach an aluminum truss to the accessory bracket using a 1" carriage bolt,  $\frac{3}{8}$ " flat washer,  $\frac{3}{8}$ " lock washer and  $\frac{3}{8}$ " hex nut as shown.

Secure the other end of the aluminum truss to the strap with a  $\frac{3}{8}$ " x 1" carriage bolt,  $\frac{3}{8}$ " flat washer and  $\frac{3}{8}$ " hex nut as shown.

**Repeat for the other side.**

**Note: When adjusting the height of your dock, you will need to loosen these straps to allow the pipe to slide up and down. Re-tighten after setting the desired height.**



**Continue to follow the instructions included with your dock kit.**



*Thank You for choosing PortSide by PlayStar. Because it is our intention to make this a positive family experience, we have taken great care in preparing this product. Should you have any questions, or if we can assist you in any way, please call our friendly Customer Service Department for immediate action.*

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**Please call us Toll Free at 1-888-PLAYSTAR**  
(752-9782)

Monday through Friday, 8:00 A.M. to 5:00 P.M. C.S.T.

Ask for Customer Service.  
**We Will Gladly Help!**



PlayStar, Incorporated, Janesville, WI 53547

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