

# Owner's Manual

## Fendock Truss Docks (12' wide)

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(info PN02081)

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**\*\* SEE [WWW.FENDOCK.COM](http://WWW.FENDOCK.COM) FOR ASSEMBLY VIDEOS \*\***

Questions or Comments?

(613) 722-6581 (888) 336-3625 [info@fendock.com](mailto:info@fendock.com) / [www.fendock.com](http://www.fendock.com)

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## **GENERAL INFO**

Being one of the first aluminum dock manufacturers, Fendock has been continually developing and manufacturing lightweight portable aluminum docks since 1955. Our fully engineered products now utilize a wide range of manufacturing technologies, including computer aided manufacturing and robotics providing the highest quality and component fit.

***With new technology, innovative ideas & customer feedback, Fendock continues to research, design and manufacture products to complement and/or make improvements to our product lineup. Fendock reserves the right to change products & specifications without notice.***

## **IMPORTANT SAFETY INFORMATION**

- Read all instructions
- If purchasing more than one dock, open only the package for one dock assembly at a time
- Wood decking must be made to specifications, using 2" x 6" nominal lumber
- Aluminum docks must be removed from the water for the winter
- Decking must be removed before moving the aluminum frame in or out of the water
- Aluminum docks are meant to be moved by hand, not with the aid of motorized vehicles (lifting bar accessory available and are strongly recommended)
- If the legs and base plates are stuck in mud, the suction must be released before pulling dock out of the water.
- Truss Docks can accommodate water depths up to 6.5" with the standard 8' leg
- Additional "Deep Water Stabilizer" is recommended for water depths over 3'
- Attaching a boat to an aluminum dock changes the dynamics of the dock. Aluminum docks are not meant for permanent mooring of boats. **Damage may occur if care is not exercised with heavy boats and/or rough water.** In such case, boats should be anchored away from the dock. Talk to your dock expert on how to protect your investments.
- Before installing your dock in the spring, a yearly inspection of your dock is recommended. Checking that all parts are without damage and fully tightened is good practice.

Recommended safe carrying capacity 20 P.S.F or 3000lbs. uniform load

## **TRUSS DOCKS**

Fendock "Truss" docks can accommodate water depths of up to 6.5' (the standard recommended leg that comes with the "Truss" dock is 8'). Water depths up to 8' can be accommodated with an optional 10' leg (PN30003), in this case telescopic deep water braces will be mandatory. The "Truss" docks come in three different widths 4' (46" outside width), 6' (72" outside width), 12' (144" outside width).

Each "Truss" Dock comes with the appropriate number of legs for its length. There are always 2-4' legs for the shallow end of the dock, and the remainder are 8' legs

8' Truss Dock modules are connected using couplers (PN97303) to create the length of dock required. These form a permanent connection that is not meant to be taken apart.

When connecting one dock to another dock or ramp, dock/ramp connectors are used (PN98016). This will allow you to disconnect the two docks from one another, for removal from the water or for storage purposes.

# 1.0 Truss Dock Frame Component Chart

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(LxW) Size	Type	Requires	Description	Part No.
8X4	RAMP	=1X	KIT E, RAMP, 8X4	PN99206
8X6	RAMP	=1X	KIT F, RAMP, 8X6	PN99207
8X12 (PN99402)	DOCK	=2X +2X	KIT J, SIDE MODULE, 8X12 KIT H, BRACING KIT, 12' WIDE	PN99254 PN99263
16X12 (PN99400)	DOCK	=4X +2X	KIT G, CORNER MODULE KIT H, BRACING KIT, 12' WIDE	PN99253 PN99263
24X12 (PN99401)	DOCK	=4X +2X +3X	KIT G, CORNER MODULE KIT B, EXPANSION MODULE KIT H, BRACING KIT, 12' WIDE	PN99253 PN99252 PN99263

## 2.0 Application

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### About the instructions....

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Reading all of the instructions that pertain to a particular step before proceeding, and following the order of the steps, will ensure easy assembly, and proper use of all hardware provided

### Tools and Tips

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Keep nuts, bolts & hardware for one assembly step separate from hardware for the next assembly step. Keeping nuts, bolts & other components that have been emptied from opened hardware kits in a container may help to avoid losses during the assembly. Some extra nuts & bolts may be in the hardware kits, these are for different applications.

#### **Do not mix hardware from different boxes**

The only tools required to assemble the dock frame are  $\frac{7}{16}$ " and  $\frac{9}{16}$ " wrenches, short & deep  $\frac{7}{16}$ " and  $\frac{9}{16}$ " sockets, a ratchet handle and a sharp knife or cutters for un-packaging

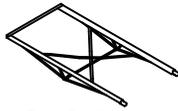
### Unpackaging

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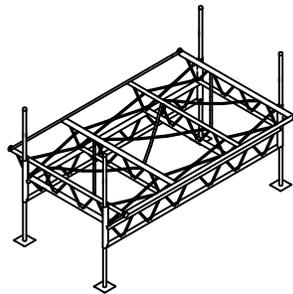
Unwrap the kits (for one dock at a time), cut tie straps and shrink wrap. Gather similar parts into groups and empty the hardware bags (for one step at a time) into a suitable container. Removing the larger components (clip bags, connectors, caps etc) from the container may ease access to the smaller parts during assembly.

## 2.1 General Arrangement

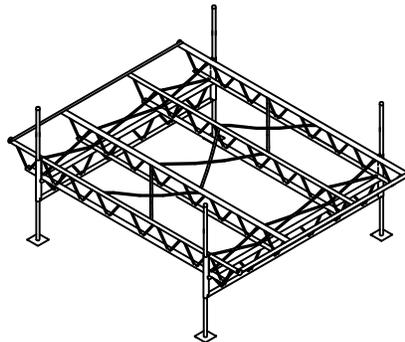
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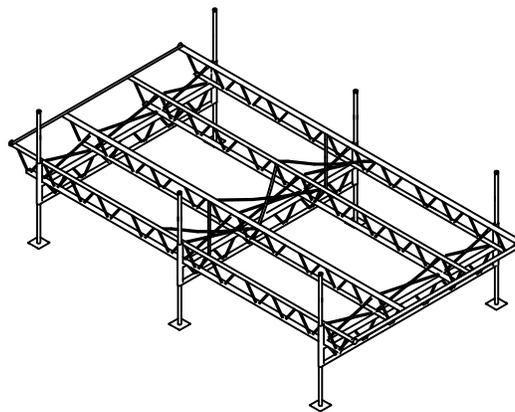
8X4 and 8X6 Approach Ramp



8X12 Truss Dock



16X12 Truss Dock



24X12 Truss Dock

# 3.0 Assemble Trusses

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## 3.1 Truss Configurations

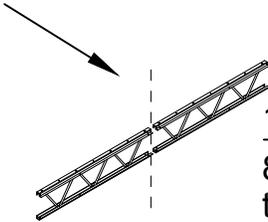
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### 8' Ramp

8X4 or 8X6 approach ramp, require 2-8' pre-assembled ramp trusses

coupler pair locations



### 12' Wide Docks

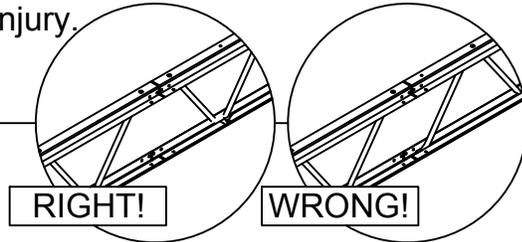
8X12 or 16X12 dock, require 2-12' assembled cross trusses

24X12 dock, requires 3-12' assembled cross trusses (\*6' sections require coupling\*)

### 3.2 Truss Coupling

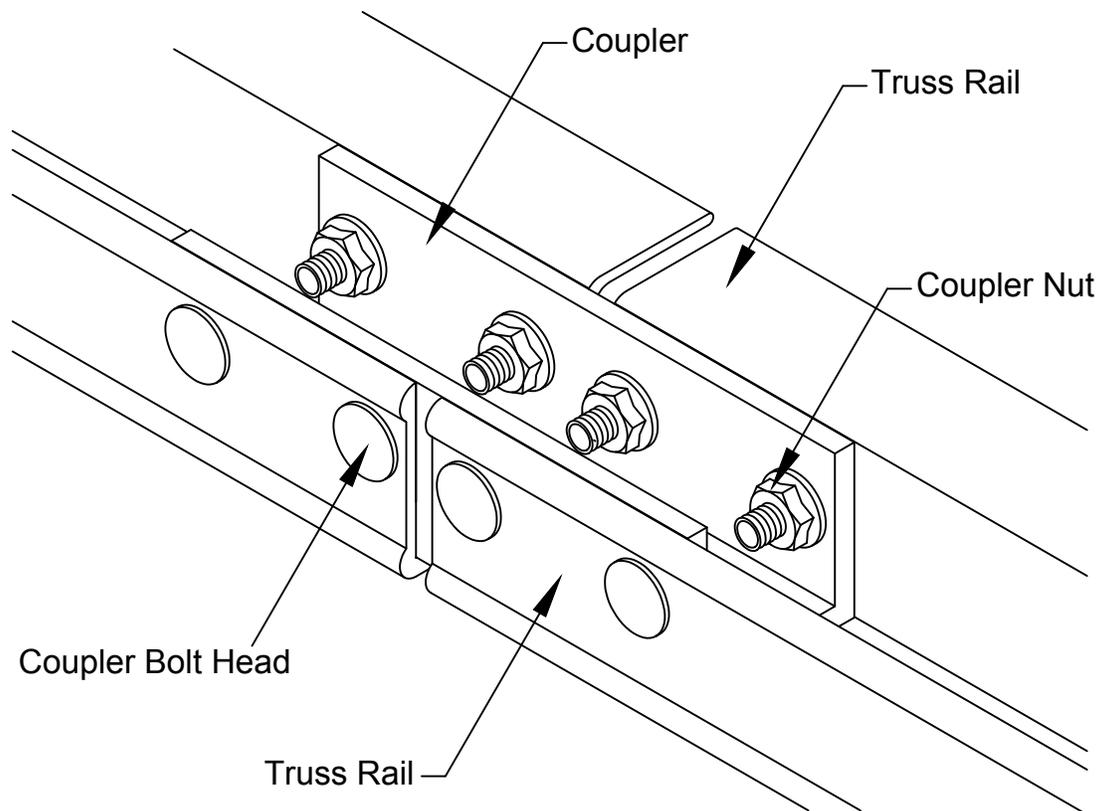
Note: Trusses and couplers form permanent assemblies and are not intended to be taken apart after assembly.

**Warning:** Failure to couple trusses correctly may result in damage or personal injury.



Selecting a flat work area may ease the assembly of the precision manufactured trusses and couplers. Using leveled saw horses and an assistant is an acceptable substitute.

The square shanks of the bolt heads must be fully seated in the square holes in the truss rails before installing nuts. Thumb pressure will seat bolt heads. Install only one bolt and nut at a time, tightening only with one's fingers. **(DO NOT TIGHTEN COMPLETELY UNTIL ALL BOLTS ARE IN PLACE)**



Install all 16 bolts and nuts (per truss connection) before wrench tightening (about 9 ft-lbs). Assemble all trusses referring to 2.1 General Arrangement and 3.1 Truss Configurations.

(Over tightening may result in stainless steel bolt snapping)

# 4.0 12' Wide Dock Assembly

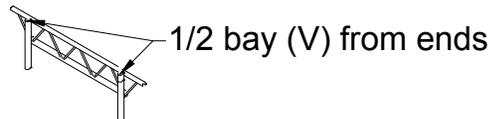
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**NOTE:** For a 12' wide dock you should have 4 assembled trusses ( the length of the dock, 8', 16', or 24') as well as two or three 12' trusses depending on the length of the dock.

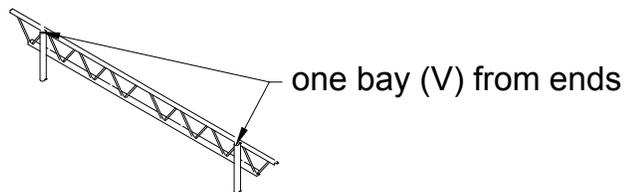
## 4.1 Leg Retainer Locations - 12' Wide Docks

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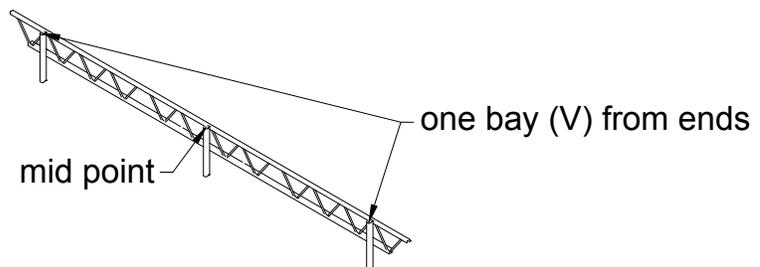
8X12 Dock Outer Truss  
See 4.3 (Build two)



16X12 Dock Outer Truss  
See 4.3 (Build two)

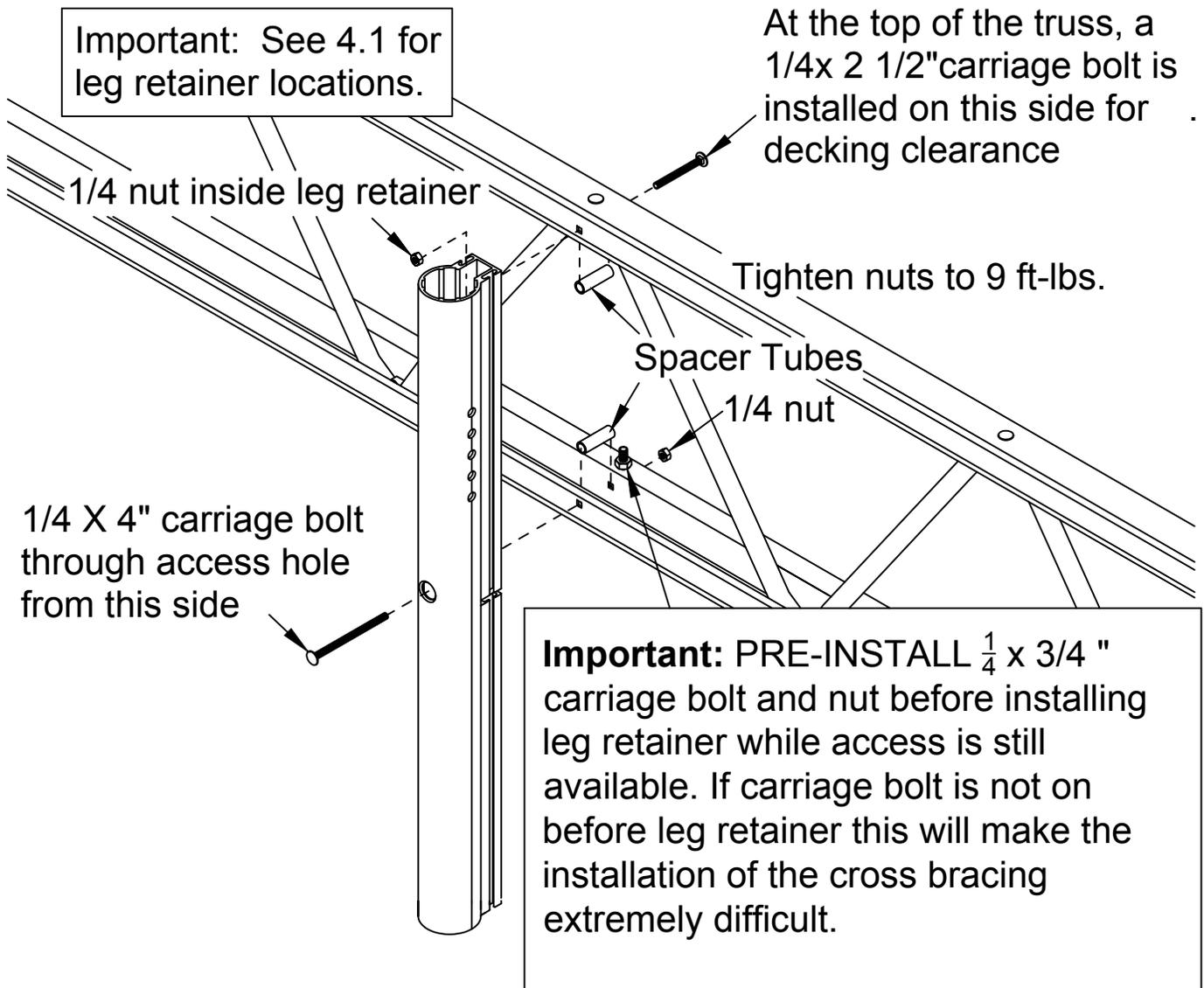


24X12 Dock Outer Truss  
See 4.3 (Build two)



The two inner trusses for 12' wide docks (2 per 8X12, 16X12 and 24X12) and the 12' cross trusses (2 per 8X12 and 16X12, 3 per 24X12) do not receive leg retainers.

#### 4.1.1 30" Leg Retainer Installation for 12' Wide Docks



Note: Do not fully tighten bolts and nuts until all components (sections 4.2, 4.2.1, and 4.3) have been installed, unless specified otherwise.

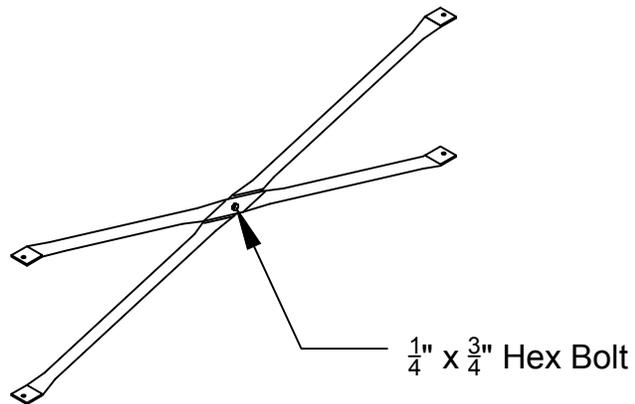
#### 4.2 Assemble Vertical Cross Bracing for 12' Wide Docks

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Assemble pairs of vertical cross braces (1" dia. tubes) with one 1/4X3/4" hex bolt and nut each. (\*CRIMPED ENDS SHOULD BEND TOWARDS EACH OTHER\*)

##### Vertical Cross Brace Pair Usage

8X12	4 X 43" + 2 X 60"
16X12	4 X 43" + 2 X 60"
24X12	6 X 43" + 3 X 60"



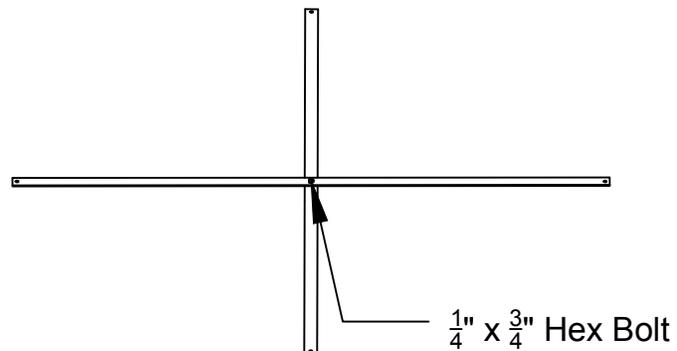
#### 4.2.1 Assemble Horizontal Flat Cross Bracing

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Assemble pairs of horizontal flat cross braces with one 1/4X3/4" hex bolt and nut each

##### Horizontal Flat Cross Brace Pair Usage

8X12	2 X 60" + 1 X 72"
16X12	2 X 60" + 1 X 72"
24X12	2 X 60" + 1 X 72"



Note: 24X12 docks are supplied with one extra flat brace that is not used.

### 4.3 Cross Bracing Installation for 12' Wide Docks

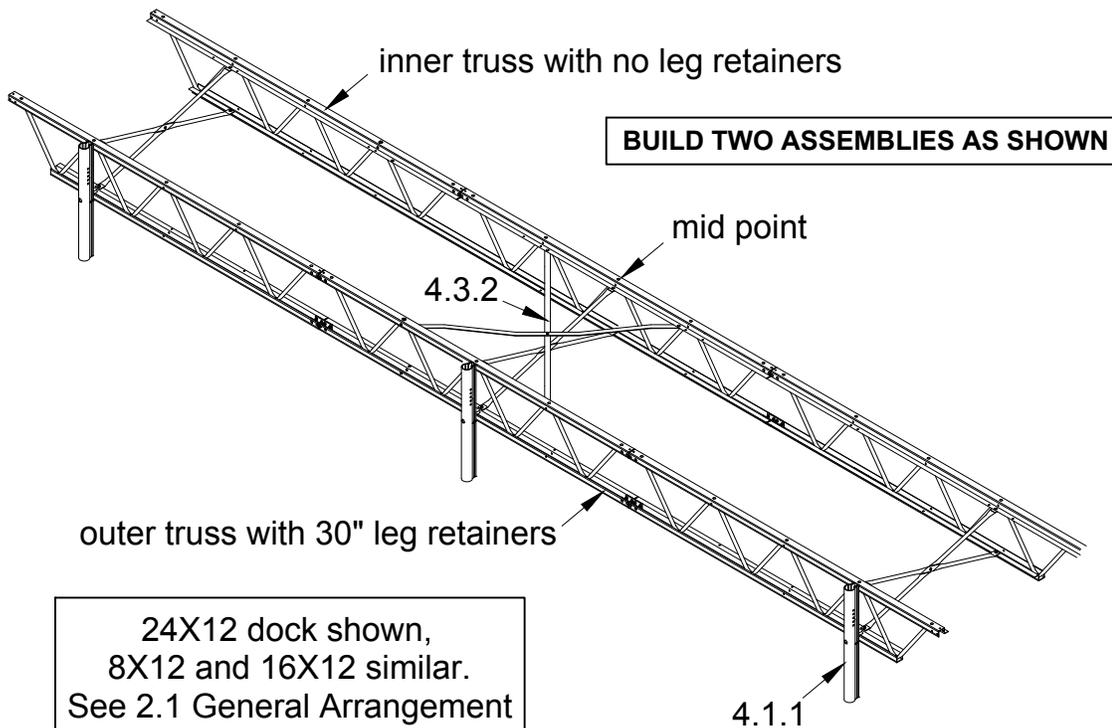
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**NOTE:** For a 12' wide dock you should have 4 assembled trusses ( the length of the dock, 8', 16', or 24') Two or three 12' trusses depending on the length of the dock.

4.3.1 Install an assembled pair of 43" vertical cross braces to the rail flange holes that are closest to each leg retainer with four  $\frac{1}{4}$ " x  $\frac{3}{4}$ " carriage bolts and nuts each.

4.3.2 Install an assembled pair of 60" horizontal flat cross braces to the rail flange holes closest to the mid point of the truss assemblies. Once installed, the horizontal flat brace assembly will be "bowed" down in the center.

4.3.3 Repeat 4.1, 4.2, 4.3 for second assembly

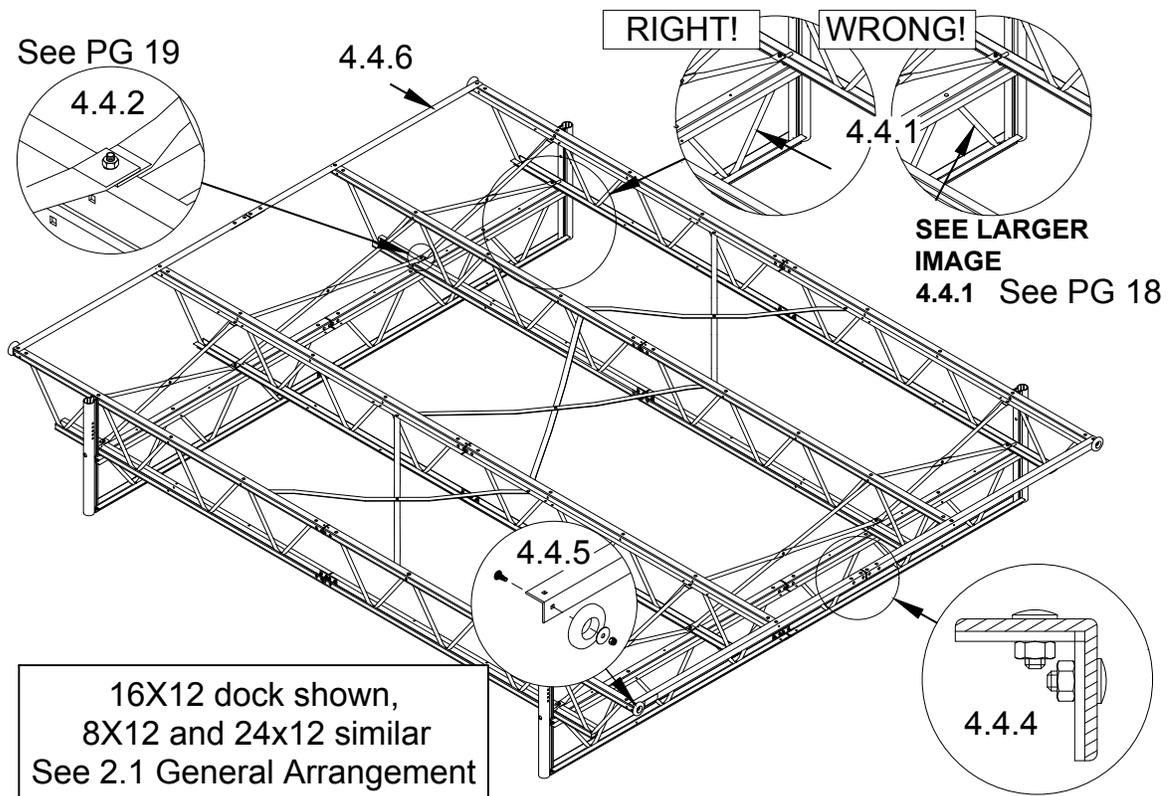


## 4.4 Connect Assembled Trusses for 12' wide Dock

**4.4.1** Install 12' cross truss assemblies onto lower portion of leg retainers using two 1/4X2 1/2" carriage bolts and nuts at each end, connecting the two halves of the dock together.

**4.4.2** Install assembled pairs of 60" vertical cross braces between the inner trusses sharing the existing vertical cross brace bolts that were installed at 5.4.1.

**4.4.3** Install the assembled pair of 72" horizontal flat cross braces between the inner trusses sharing the existing horizontal cross brace bolts that were installed at 5.4.2.

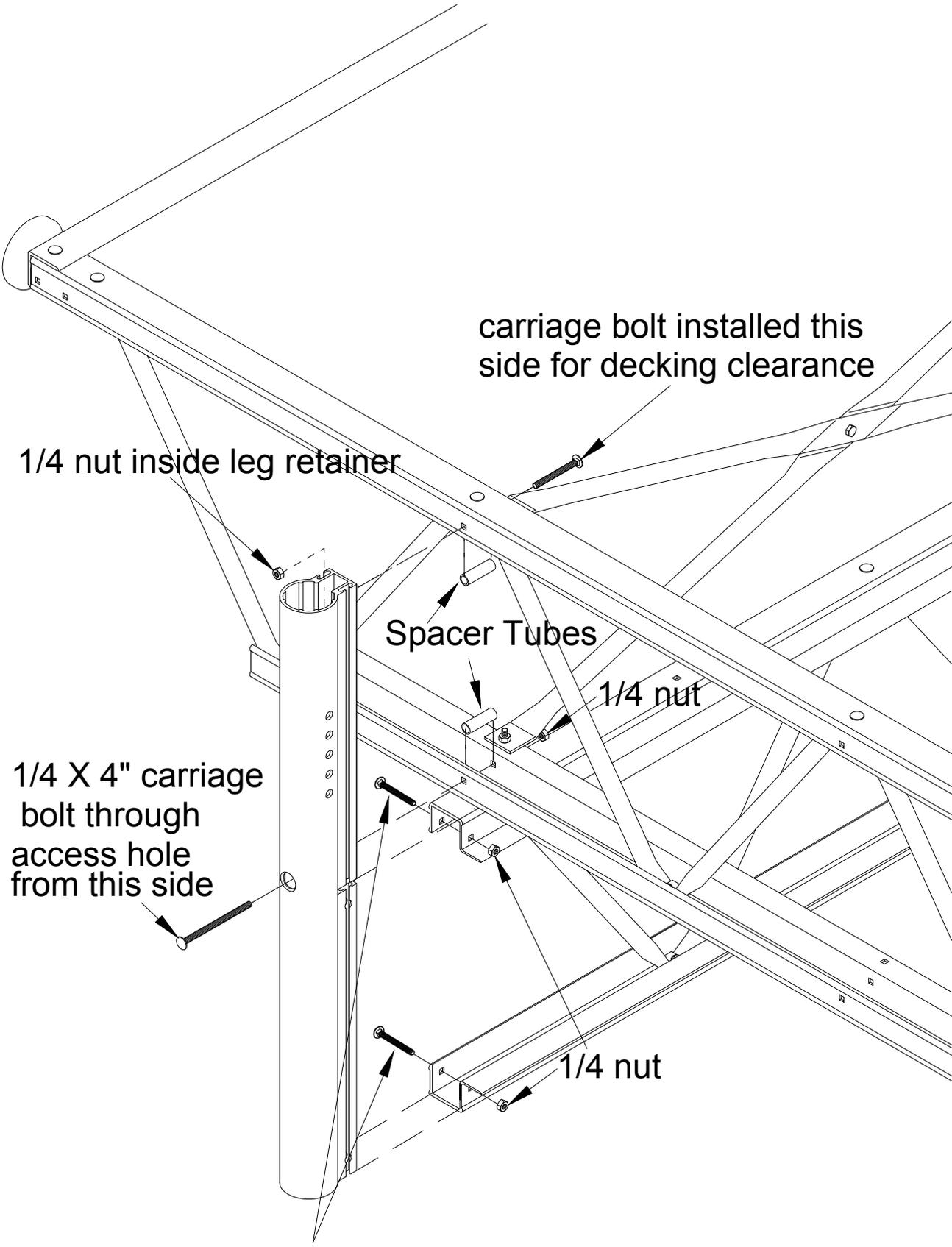


**4.4.4** Assemble two end braces (72" long angles) with two couplers (9" long flats) and eight 1/4X5/8" carriage bolts and nuts. Tighten fully to 9 ft-lbs.

**4.4.5** Install one bumper donut to each end of the assembled end brace with one 1/4X3/4" carriage bolt, fender washer and nut each. 24X12 docks include two extra bumpers that may be installed to any remaining holes.

**4.4.6** Install assembled end braces to ends of dock trusses using four 1/4X3/4" carriage bolts and nuts each. Tighten all nuts and bolts installed in steps 4.1 and 4.4.1 through 4.4.6 to about 9 ft-lbs.

4.4.1



carriage bolt installed this side for decking clearance

1/4 nut inside leg retainer

Spacer Tubes

1/4 nut

1/4 X 4" carriage bolt through access hole from this side

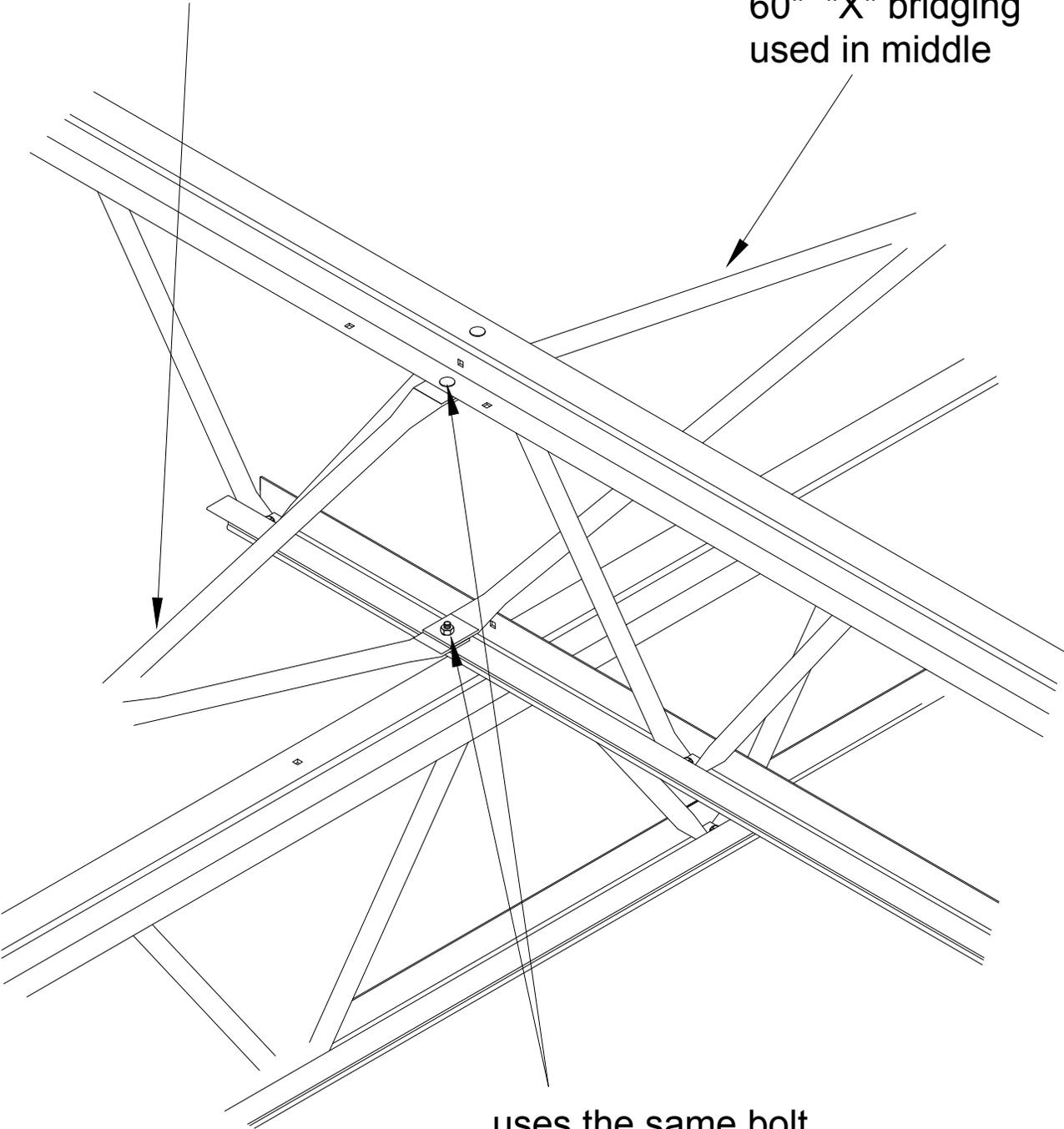
1/4 nut

2 1/2" carriage bolt

4.4.2

43" "X" bridging  
used on both sides

60" "X" bridging  
used in middle



uses the same bolt

## 5.0 Install Legs

Install legs down through leg retainers.  
(15" Leg Retainer for 4' & 6' wide docks)  
(30" Leg Retainer for 12' wide docks)

8' legs install to the deep end of the dock,  
4' legs install to the shallow end.

The ends of the 4' legs that have their  
holes closest to the end must be at  
the bottom end of the leg for base  
plate attachment.

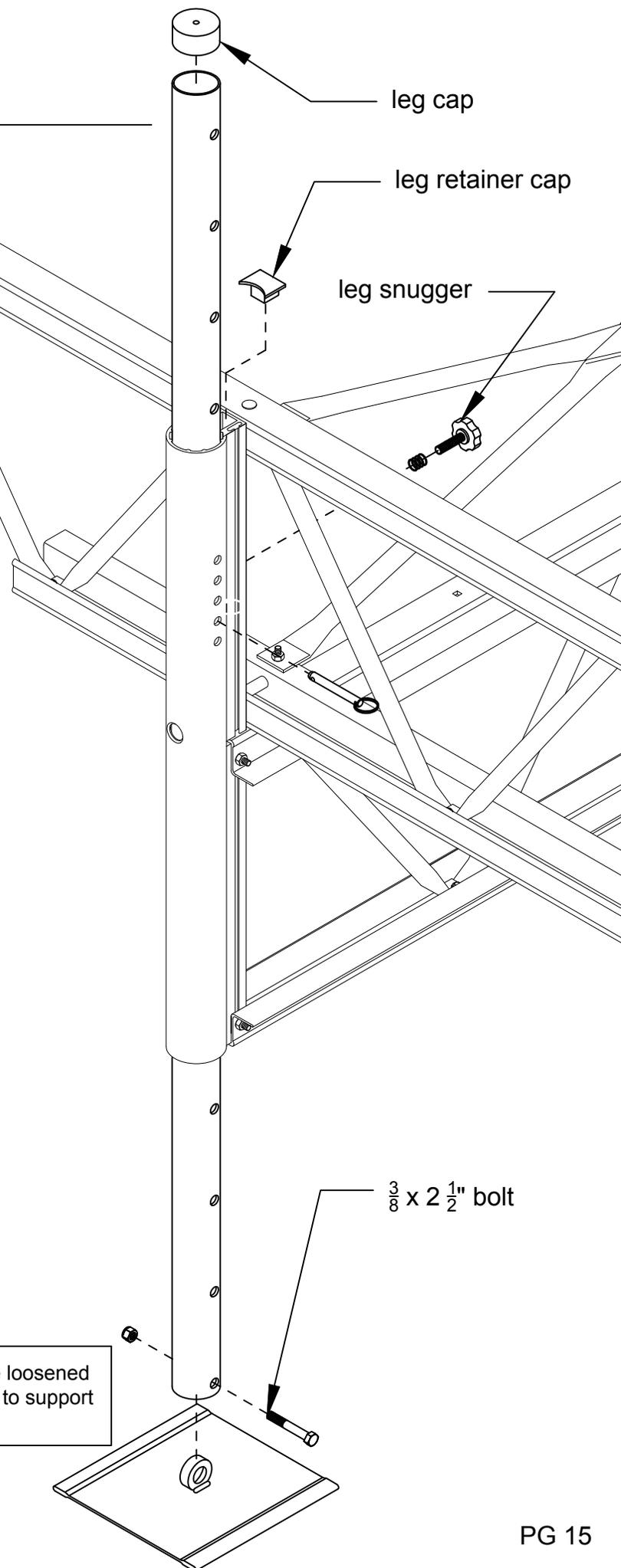
Temporarily install the fast pins so the  
leg is at a comfortable working height

Install the optional wheel kit and/or  
deep water stabilizer (recommended  
for water depths greater than 3  
feet) according to the instructions  
supplied with the kits.

Place the base plates under the legs  
and install them with one  $\frac{3}{8}$ X2  $\frac{1}{2}$ "  
bolt and brass nut each. Install leg caps,  
and leg retainer caps.

Install the leg snuggler kit supplied,  
following the instructions provided.

**NOTE:** Leg snugglers and deep water stabilizers must be loosened when adjusting legs. The Leg snugglers are not intended to support the dock without the fast pins installed



# 6.0 Building Decking

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## 6.1 Overview

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Fendock stationary docks and access ramps utilize removable decking panels that are sized to be easily portable making seasonal installation and removal as easy as possible.

Quick release hold down clips are provided to reduce the possibility of the decking panels floating away during unexpected high water or wave conditions. The clips also maintain proper spacing between panels. The clips secure the decking which adds structure to the dock.

There are options available as to what type and configuration of decking that may be used on a Fendock truss system.

**For inside the rail decking (standard Decking) an additional part is required. One (PN96162) 8' mid rail decking support will be required for every 8' of dock**

## 6.2 Decking Types

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### Wood Decking

**\* 2 X 6 LUMBER MUST BE USED TO CONSTRUCT THE WOOD DECKING \***

Strong, lightweight, durable and affordable, wood is the most common choice among Fendock owners. Prefabricated panels may be ordered through a Fendock dealer or one may easily make their own panels by following the instructions provided in this manual.

Typically, unfinished local cedar provides the best balance with regards to weight, strength, appearance, maintenance and cost. The truss rails are designed to accept standard 2 x 6 nominal lumber which provides the necessary strength required to span the width of the dock frame when the decking panels are fabricated according to the instructions provided.

Pressure treated lumber may also be used, but check with your lumber supplier to be certain that the preservative is compatible with aluminum. Treated lumber may be subject to local restrictions and bylaws.

**\*  $\frac{5}{4}$  LUMBER (DECK BOARDS) DOES NOT PROVIDE ADEQUATE STRENGTH, WEIGHT OR STRUCTURE TO THE DOCK.\***

**\*IMPROPER ASSEMBLY OF DECKING MAY AFFECT STABILITY OF YOUR DOCK\***

## Composite Decking

Not recommended due to its high weight, and **low strength**. Composite decking is not strong enough to span from one rail to the next.

## Aluminum Decking

Surprisingly cooler than wood in the hot summer sun, aluminum decking is a virtually maintenance free alternative that provides a clean modern look for your waterfront. Pre-assembled aluminum decking panels weigh approximately the same as dry cedar panels, but will have an infinitely longer life span. Aluminum decking is available in plain mill finish or an anodized finish (light bronze or black) and may be ordered through your Fendock dealer.

\*Anodized Finish is a special order\*

## 6.3 Decking Configurations

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There are two ways to configure the decking installation.

### Standard Decking

\*\*One (PN96162) 8' mid decking support will be required for every 8' of dock\*\*

Following the original Triodock design from 1955, Fendock truss docks are engineered for the decking to rest upon the inner rail flange with the upper surface of the decking flush with the top of the truss rail providing a clean smooth look.

### Top Of Rail Decking

Twelve foot wide docks are designed to use this decking configuration, providing continuous 12' planking above the truss rails from one side of the dock to the other.

Four and six foot wide docks may also use this configuration, and in doing so, provide a consistent appearance when used in conjunction with a 12' wide dock's "top of rail" decking.

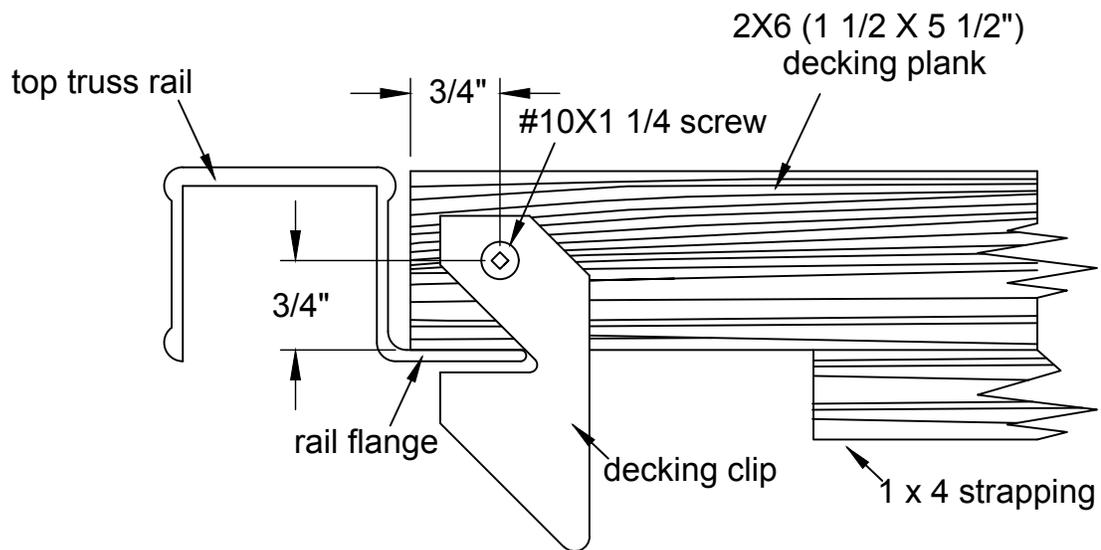
**Note:** When ordering aluminum decking for a 12' wide dock, extra angles will be provided to allow the aluminum decking to sit down inside the rail like the standard decking panel. (Extra angles will have to be secured to the inside of rails in the middle section of the dock).

Note: Decking retaining clips should not be "floppy" but also should not be so tight as to be difficult to pivot up and down.

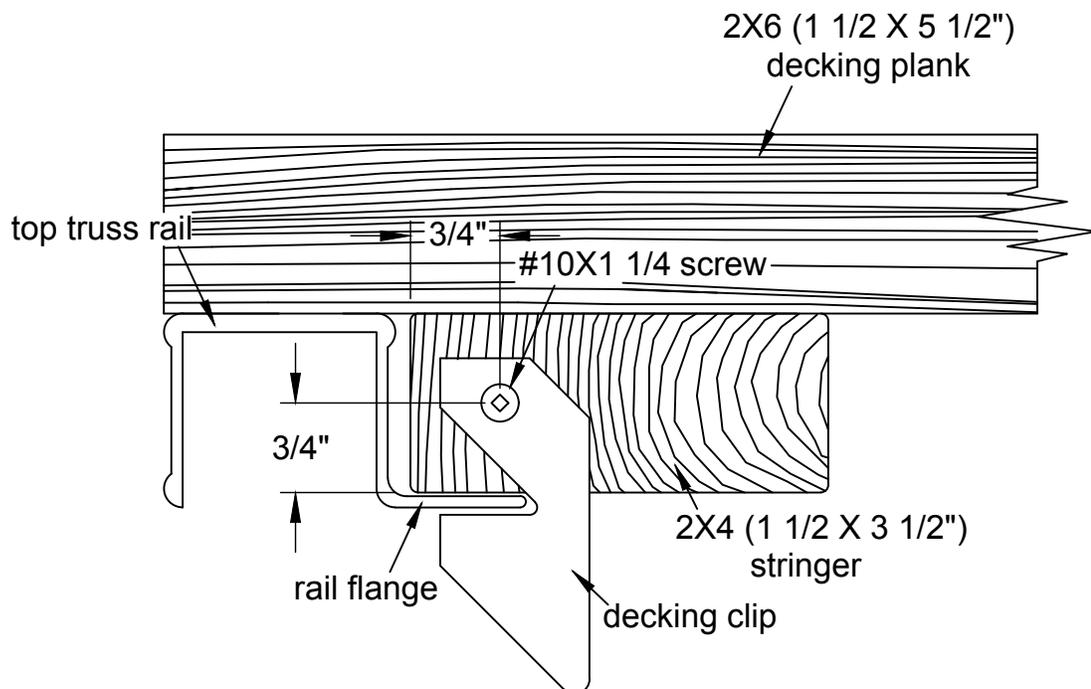
Decking retaining clips are provided for all clip locations for consistency. There may be some clips that are not lockable due to interference with the vertical cross braces. (These clips can be repositioned on an adjacent plank)

### 6.4 Standard Decking Retaining Clip Installation

\*\* (PN96162) 8' mid decking supports will be required for this application\*\*



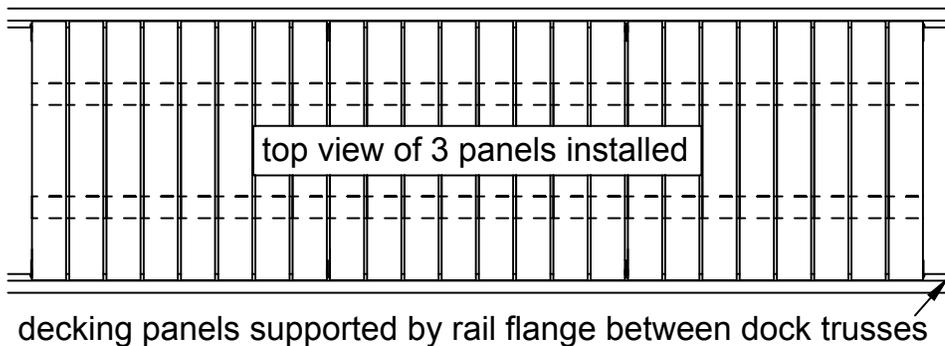
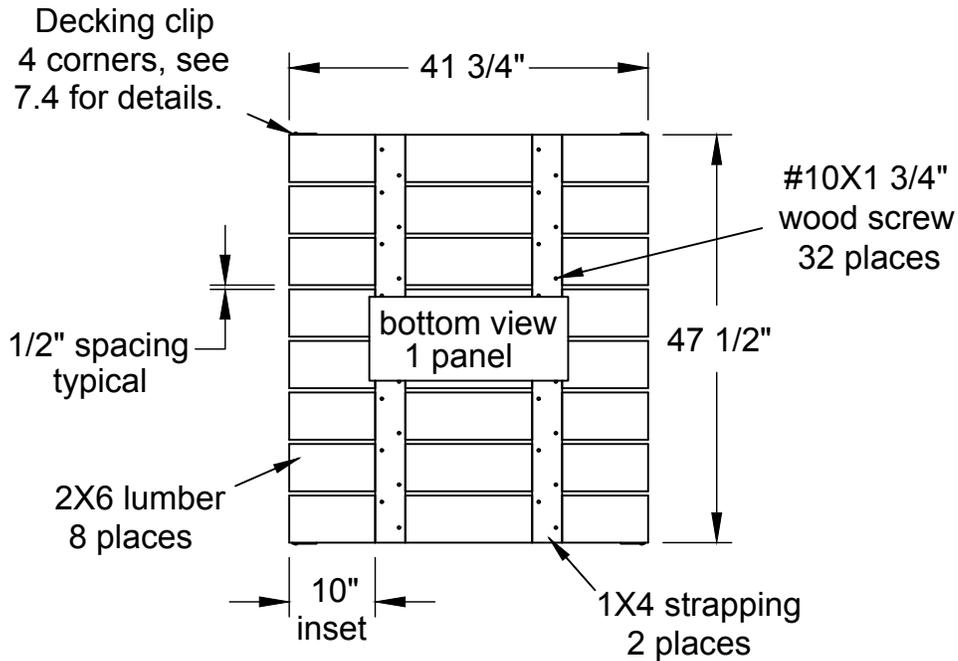
### 6.5 Top of Rail Decking Retaining Clip Installation



## 6.6 4' Wide Standard Decking Panels for 12' Inside Rail (Left / Right Side)

### Material List

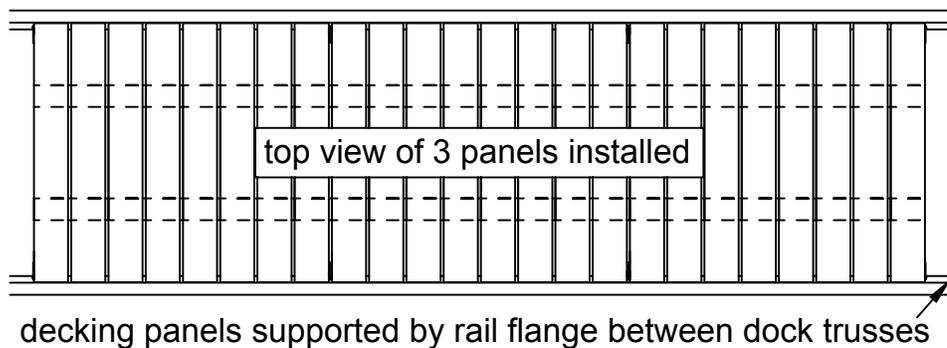
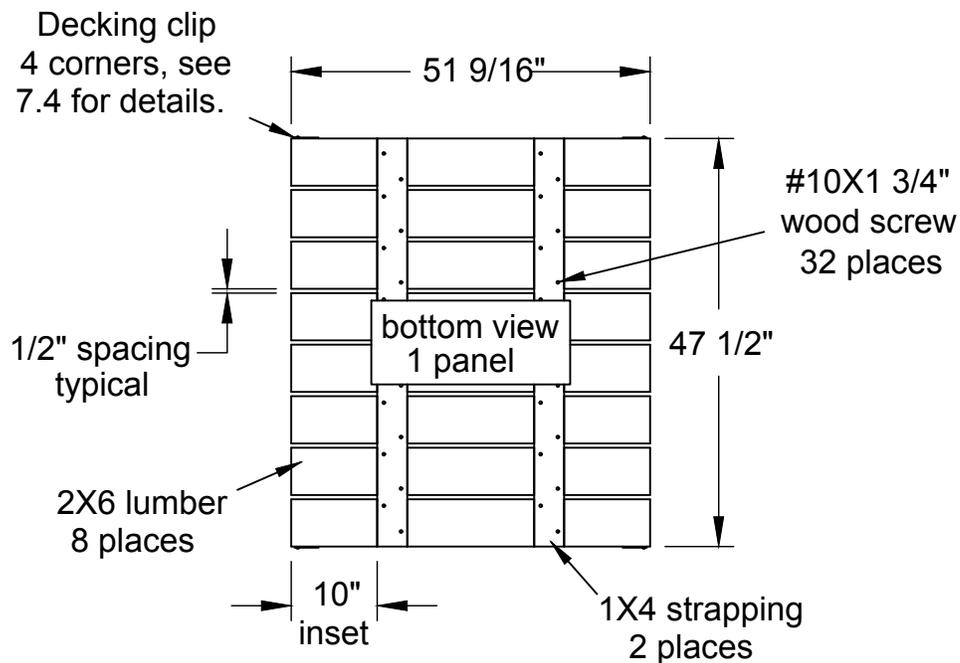
Material Type	Length	Quantity per Dock Length		
		8'	16'	24'
2X6 lumber (1 1/2X5 1/2)	41 3/4"	32	64	96
1X4 strapping (3/4X3 1/2)	47 1/2"	8	16	24
#10 wood screws	1 3/4"	128	256	384
completed panels	41 3/4" x 47 1/2"	4	8	12



### 6.7 4' Wide Standard Decking Panels for 12' Inside Rail (Mid Panel)

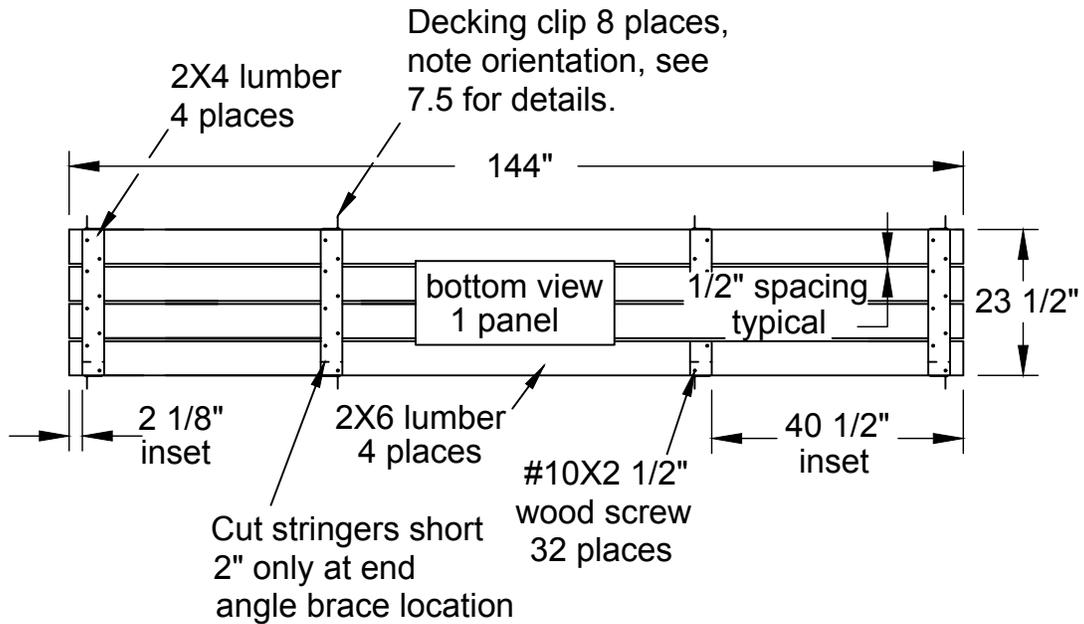
Material Type	Length	Quantity per Dock Length		
		8'	16'	24'
2X6 lumber (1 1/2X5 1/2)	51 9/16"	16	32	48
1X4 strapping (3/4X3 1/2)	47 1/2"	4	8	12
#10 wood screws	1 3/4"	64	128	192
completed panels	51 9/16" x 47 1/2"	2	4	6

**\*\*One (PN96162) 8' mid decking support will be required for every 8' of dock\*\***



## 6.8 12' Wide Decking Fabrication

Material Type	Length	Material List		
		Quantity per Dock Length		
		8'	16'	24'
2X6 lumber (1 1/2X5 1/2)	144"	16	32	48
2X4 lumber (1 1/2X 3 1/2)	23 1/2"	16	32	48
#10 wood screws	2 1/2"	128	256	384
completed panels	144" x 23 1/2"	4	8	12



## 7.0 Accessory Selection

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### Aluminum Decking

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While most purchasers opt for fabricating their own wood decking according to the instructions included in the owner's manual, prefabricated decking panels may be ordered from a Fendock dealer. As a maintenance free option, aluminum panels (cooler than wood in the summer sun) may be ordered. Aluminum panels may be ordered in mill finish or a durable anodized finish that is available in either light bronze or black.

**Note: Aluminum & Wood Decking must be removed during off season storage**

### Deep Water Stabilizer.

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Fully adjustable, the quick release telescopic deep water stabilizer is recommended for wobble resistant "rock steady" performance in water depths greater than 3 feet. Typically only one stabilizer is required per dock frame unit. Deep water stabilizer kits are available for 4' (PN98012) and 6' (PN98013) wide docks. Two 6' wide stabilizers are usually required for 12' wide dock systems.

### Wheel Kit.

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Although a Fendock is light and easy to carry, a wheel kit can make the installation and removal of a Fendock a one person job.

### Leveling Kit.

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A Fendock is easiest to level at installation time, before the decking is in place. A leveling kit is designed to help cope with the mid season water depth fluctuations while the decking is installed and the dock is in service. Also useful when the spring and fall water temperatures are uninviting.

### Lift Kit.

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The lift kit allows a Fendock to be hinged to a permanent structure at the shoreline. A fold away tower (that lays beneath the decking during the summer) provides an attachment point for cables & straps for easy winching. (winch supplied in kit) Once hinged up, Fendock can be left up for the winter.

### Stairs, Ladders, and Mooring.

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In addition to our "Dock stairs" and complete line of swim ladders, boat roller ramps, dock cleats and bumpers are also available. Please see your local dealer for our full line or visit us online at [www.fendock.com](http://www.fendock.com)

## 8.0 Fendock's Guarantee & Warranty Registration

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Fendock is proud to offer a 5 year warranty, which is testimony to the quality workmanship and materials used in the manufacturing of our products. This warranty is valid only upon normal use and under normal conditions. Our detailed warranty is available upon request.

Improper assembly of the dock, and / or improper assembly of decking panels including the materials used to assemble panels, may affect warranty.

Any damage to the dock as a result of removing or installing with a motorized vehicle will not be covered under warranty.

Proudly manufactured in Canada by

Fendor Glass and Aluminum  
46 Auriga Drive  
Ottawa, ON, Canada  
K2E 7Y3  
Tel.(613) 722-6581 Fax.(613) 722-3168  
Toll Free 1-888-FENDOCK (336-3625)  
email: [info@fendock.com](mailto:info@fendock.com)

# INSTRUCTIONS