# Owner's Manual Fendock Truss Docks (4' \& 6' Wide) 

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Questions or Comments?
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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 3000 lbs . 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 24 ' 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

| (LxW) <br> Size | Type | Requires | Description | Part No. |
| :---: | :---: | :---: | :---: | :---: |
| 8X4 | RAMP | $=1 X$ | KIT E, RAMP, 8X4 | PN99206 |
| 8 X6 | RAMP | $=1 X$ | KIT F, RAMP, 8X6 | PN99207 |


| 16X4 DOCK | $=2 X$ | KIT A, END MODULE | PN99251 |
| :---: | :--- | :--- | :--- |
| $($ PN99403 $)$ | $+1 X$ | KIT C, BRACING KIT, 4' WIDE | PN99261 |
| 16X6 DOCK | $=2 X$ | KIT A, END MODULE | PN99251 |
| $($ PN99404 $)$ | $+1 X$ | KIT D, BRACING KIT, 6' WIDE | PN99262 |


| 24X4 DOCK | $=2 X$ | KIT A, END MODULE | PN99251 |
| :---: | :--- | :--- | :--- |
| (PN99405) | $+1 X$ | KIT B, EXPANSION MODULE | PN99252 |
|  | $+1 X$ | KIT C, BRACING KIT, 4' WIDE | PN99261 |
| 24 D6 DOCK | $=2 X$ | KIT A, END MODULE | PN99251 |
| (PN99406) | $+1 X$ | KIT B, EXPANSION MODULE | PN99252 |
|  | $+1 X$ | KIT D, BRACING KIT, 6' WIDE | PN99262 |


| 32X4 DOCK | $=2 X$ | KIT A, END MODULE | PN99251 |
| :---: | :--- | :--- | :--- |
| (PN99423) | $+2 X$ | KIT B, EXPANSION MODULE | PN99252 |
|  | $+1 X$ | KIT C, BRACING KIT, 4' WIDE | PN99261 |
|  | $+1 X$ | KIT, K 32'/40' SUPPORT KIT, 4' WIDE | PN99264 |
|  |  |  |  |
| 32X6 DOCK | +2X | KIT A, END MODULE | PN99251 |
| (PN99424) | $+2 X$ | KIT B, EXPANSION MODULE | PN99252 |
|  | $+1 X$ | KIT D, BRACING KIT, 6' WIDE | PN99262 |
|  | $+1 X$ | KIT, L 32'/40' SUPPORT KIT, 6' WIDE | PN99265 |

continued on next page

## Truss Dock Frame Component Chart

| (LxW) Size Type | Requires | Description | Part No. |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 40X4 DOCK } \\ & \text { (PN99425) } \end{aligned}$ | $=2 \mathrm{X}$ | KIT A, END MODULE | PN99251 |
|  | +3X | KIT B, EXPANSION MODULE | PN99252 |
|  | +1X | KIT C, BRACING KIT, 4' WIDE | PN99261 |
|  | +1X | KIT, EXTRA LEG PAIR/CLIPS | PN97360 |
|  | +1X | KIT, K 32'/40' SUPPORT KIT, 4' WIDE | PN99264 |
| $\begin{gathered} \text { 40X6 DOCK } \\ \text { (PN99426) } \end{gathered}$ | $=2 \mathrm{X}$ | KIT A, END MODULE | PN99251 |
|  | +3X | KIT B, EXPANSION MODULE | PN99252 |
|  | +1X | KIT D, BRACING KIT, 6' WIDE | PN99262 |
|  | +1X | KIT, EXTRA LEG PAIR/CLIPS | PN97360 |
|  | +1X | KIT, L 32'/40' SUPPORT KIT, 6' WIDE | PN99265 |

Also Available
8X4 EXTENSION =1X PN99208

8X6 EXTENSION =1X

### 2.0 Application

About the instructions....
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

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

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.


### 3.0 Assemble Trusses

### 3.1 Truss Configurations



16' Docks
16X4 or 16X6 dock, requires 2-16' assembled trusses
16X12 dock, requires 4-16' assembled trusses (*8' sections require coupling*)

## 24' Docks

24X4 or 24X6 dock, requires 2-24' assembled trusses $24 \times 12$ dock, requires 4-24' assembled trusses
(*8' sections require coupling*)

## 32' Docks

32X4 or 32X6 dock, requires 2-32' assembled trusses
(*8' sections require coupling*)
coupler pair locations

40' Docks
40X4 or 40X6 dock, requires 2-40' assembled trusses (*8' sections require coupling*)

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


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 $9 \mathrm{ft}-\mathrm{lbs}$ ). 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 Leg Retainers (4' \& 6' Wide Docks)

### 4.1 Leg Retainer Locations

16X4, 16X6 Dock Truss
See 4.2 (Build two)

24X4, 24X6 Dock Truss
See 4.2 (Build two) one bay $(\mathrm{V})$ from ends
-one bay (V) from end
32X4, 32X6 Dock Truss Build one left and one right.
.

8X4, 8X6 Dock Extension Truss Build one left and one right.

Note: Top and bottom leg retainer bolts install in opposite directions!

> Important: See 4.1 for leg retainer locations.


### 5.0 Cross Bracing (4' + 6' Wide Docks)

Note: Do not fully tighten bolts and nuts until all components (sections $5.1,5.2$, and 5.3 ) have been installed, unless specified otherwise.

### 5.1 Assemble Vertical Cross Bracing

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

8X4 Ext. $2 \times 43^{\prime \prime}$

16X4 Dock 4X43"
24X4 Dock 4X43"
32X4 Dock $6 \times 43$ "
40X4 Dock 7X43"
8X6 Ext. $2 \times 69$
16X6 Dock 4X69"
24X6 Dock 4X69"
32X6 Dock $6 \times 69$ "
40X6 Dock 7X69"


### 5.2 Assemble Horizontal Flat Cross Bracing

Assemble pairs of horizontal flat cross braces with one 1/4X3/4" hex bolt and nut each (preassembled for 4 ' and 6 ' wide docks).

Horizontal Flat Cross Brace Pair Usage
8X4 Ext. $1 \times 60$
16X4 Dock $1 \times 60 "$
24X4 Dock 1 X60"
32X4 Dock $1 \times 60$
40X4 Dock $1 \times 60 "$
8X6 Ext. 1 X80"
16X6 Dock $1 \times 80 "$
24X6 Dock $1 \times 80$ "
32X6 Dock 1 X80"


40X6 Dock 1X80"

### 5.3 Cross Bracing Installation for 4' and 6' Wide Docks

5.3.1 Install an assembled pair of vertical cross braces to the upper rail flange holes that are closest to each leg retainer using four $\frac{1}{4}$ " $\times \frac{3}{4}$ " carriage bolts and nuts per brace pair. See 2.1 General Arrangement for cross bracing location detail specific to dock size.

Note: Vertical cross braces attach under the upper rail \& above lower rail (See picture below)
Note: There should always be one set of cross braces at leg retainer locations.
Note: Expansion modules (KIT B) that do not have legs, should have two sets of cross braces. (Except on the 12' wide docks)
5.3.2 Install the assembled horizontal flat cross brace to the upper rail flange holes that are closest to the mid point of the trusses using four $\frac{1}{4}$ " $\times \frac{3}{4}$ " carriage bolts and nuts.

## Note: Flat brace attaches to the bottom side of the rail flange

Note: It is important that the dock is square, otherwise the flat brace pieces won't line up
Once installed, the horizontal flat brace assembly will be "bowed" down in the center. The bowing provides clearance for the decking panel stringers (Section 7)

5.3.3 Install the remaining vertical cross brace pairs to the holes provided. Refer to 2.1 General Arrangements for cross bracing locations
5.3.4 Install the pre-assembled end brace to the " lake end " of the dock using two $\frac{10}{4}$ " $\times \frac{3}{4}$ " carriage bolts and nuts. (A long socket will be required to tighten nut) Tighten all nuts and bolts installed in steps 5.1 through 5.3.4 to approximately 9 ft -lbs.

### 6.0 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 $3 / 8 \times 2$ 1/2" bolt and brass nut each. Install leg caps, and leg retainer caps.

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


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### 7.0 Building Decking

### 7.1 Overview

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.

### 7.2 Decking Types

## 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 $2 \times 6$ 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.

## 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.


#### Abstract

Aluminum Decking Suprisingly 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 though your Fendock dealer.


*Anodized Finish is a special order*

### 7.3 Decking Configurations

There are two ways to configure the decking installation.
Standard Decking
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)

### 8.4 Standard Decking Retaining Clip Installation



### 8.5 Top of Rail Decking Retaining Clip Installation



| Material Type | Material List |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length | Quantity per Dock Length |  |  |  |  |
|  |  | 8' | $16{ }^{\prime}$ | 24 | 32' | 40' |
| 2 X 6 lumber ( $11 / 2 \mathrm{X} 51 / 2$ ) | $413 / 4 "$ | 16 | 32 | 48 | 64 | 80 |
| 1X4 strapping (3/4X3 1/2) | 47 1/2" | 4 | 8 | 12 | 16 | 20 |
| \#10 wood screws | 13/4" | 64 | 128 | 192 | 256 | 320 |
| completed panels | 3/4" x 47 1/2" | 2 | 4 | 6 | 8 | 10 |



\#10X 1 3/4" wood screw 16 places


| Material Type | Material List |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Length | Quantity per Dock Length |  |  |  |  |
|  |  | 8' | 16' | 24' | 32' | 40' |
| $2 \mathrm{X6}$ lumber ( $11 / 2 \times 51 / 2$ ) | 46" | 16 | 32 | 48 | 64 | 80 |
| 2X4 lumber (1 1/2X 3 1/2) | 47 1/2" | 4 | 8 | 12 | 16 | 20 |
| \#10 wood screws | 2 1/2" | 64 | 128 | 192 | 256 | 320 |
| completed panels | 46" x 47 1/2" | 2 | 4 | 6 | 8 | 10 |

Decking clip 4 corners, see 7.4 for details.


| Material List |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Material Type | Length | Quantity per Dock Length |  |  |  |  |
|  |  | 8' | 16' | 24' | 32' | $40^{\prime}$ |
| 2X6 lumber ( $11 / 2 \times 5$ 1/2) | 72 | 16 | 32 | 48 | 64 | 80 |
| 2X4 lumber ( $11 / 2 \times 31 / 2$ ) | 23 1/2" | 8 | 16 | 24 | 32 | 40 |
| 1X4 strapping (3/4X3 1/2) | 26 " | 8 | 16 | 24 | 32 | 40 |
| \#10 wood screws | $13 / 4 "$ | 64 | 128 | 192 | 256 | 320 |
| \#10 wood screws | $21 / 2{ }^{\prime \prime}$ | 64 | 128 | 192 | 256 | 320 |
| completed panels | 72" x $231 / 2^{\prime \prime}$ | 4 | 8 | 12 | 16 | 20 |



### 8.0 Accessory Selection


#### Abstract

Aluminum Decking 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.

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.

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.
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.
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.
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

### 9.0 Fendock's Guarantee \& Warranty Registration

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.

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[^0]:    NOTE: Leg snuggers and deep water stabilizers must be loosened when adjusting legs. The Leg snuggers are not intended to support the dock without the fast pins installed

