MULTI NAUTIC®

BOAT RAMP WHEEL KIT

(#34110)

Assembly Guide

This set of wheels is one of the components to build a mooring ramp for small boats of up to 1200 lbs.
This assembly sheet will guide you through the steps to complete this project.

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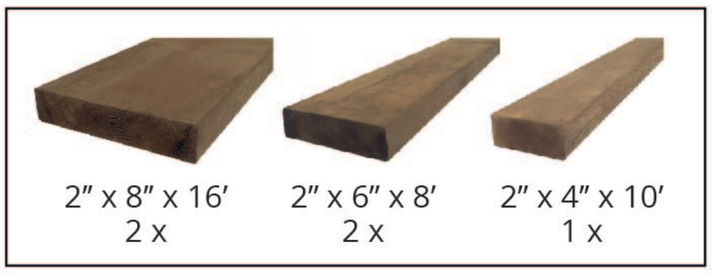
Please contact our Customer Service at
1-800-585-1237 or by email: **info@multinautic.com**

Thanks for choosing Multinautic !

STRUCTURE



TOOLS for the structure:
Miter saw or saw
Level
Tape measure
Square bit screwdriver

	Qty	Size	Length
Side beams	2	2'' x 8"	192'' (16')
End beam (for leg holders)*	1	2'' x 6"	72'' (6')*
Cross members*	5 or 6	2'' x 6"	21''
Winch post	2	2'' x 4"	29"
Diagonal winch post brace	1	2'' x 4"	23"
Post brace strengthener	2	2'' x 4"	6"
Wood screws	± 50	#10	3"

*Cross members and End beam length may slightly vary depending on boat width or type

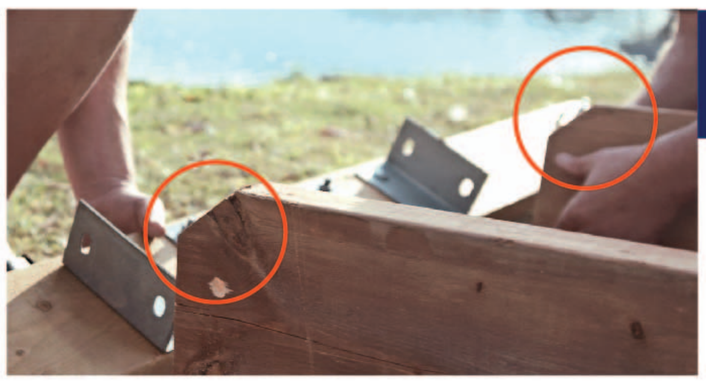
We recommend to be 2 people to assemble and install this mooring ramp. The time required is estimated at 4 hrs.

As each boat has its own characteristics, some preparations will be necessary to adjust the suggested layout for your situation.

1- To evaluate the width of your ramp, measure the ideal location of the wheels under the hull. This dimension will the same as your cross members.
For "V" shaped hulls, keep in mind that the greater the distance between the wheels, the lower the boat will be.

2- To make sure that your piles are straight, position the end of a 2" x 8" beam on the shore, where the ramp will be installed, and the other end 2 inches under water surface. Using a long level maintained straight, mark a cutting line. Mark the other end of the 2" x 8" at 25° for the installation of the winch. Copy those marks on the other beam and cut them.

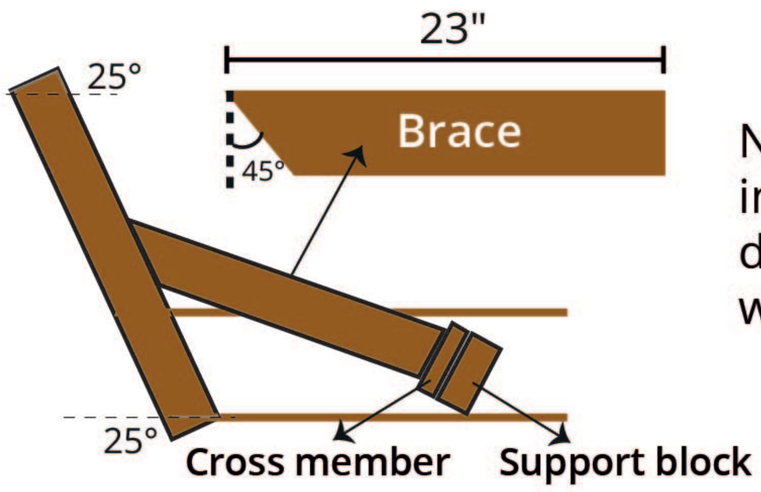
3- Cut the 2" x 8" ends above the keel roller at 45° as shown.



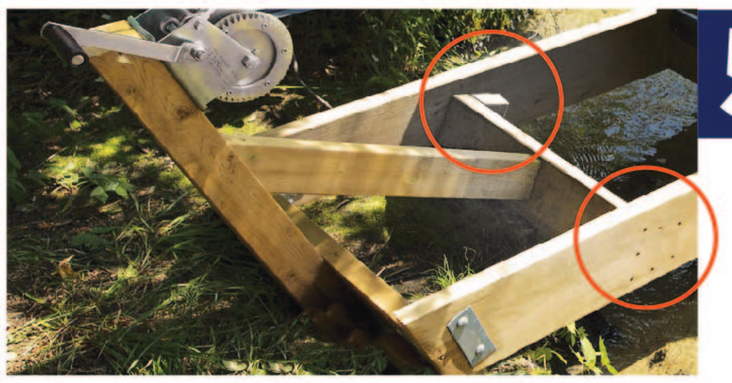
4- Assemble the structure with screws according to **Image A.** Be careful not to screw where the bolts will be.

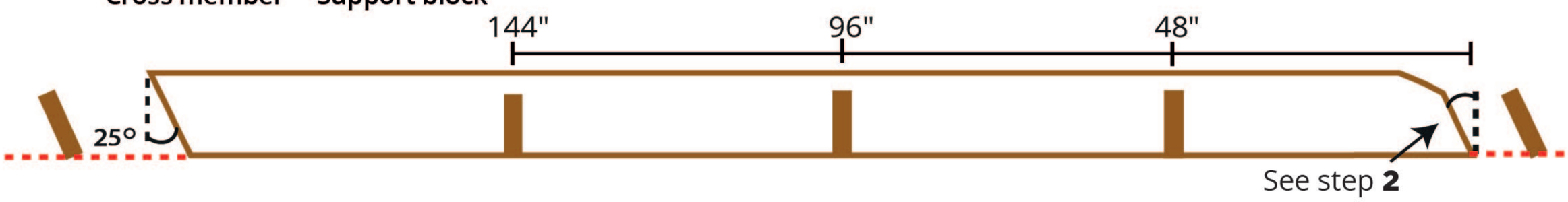
5- To create the winch post, you can combine two lengths of 2" x 4" or one 4” x 4”. The assembly of the brace with the cross beam can be done separately to then be connected to the structure and winch post. Screws some 2" x 4" or 2" x 6" support blocks at the rear of the winch’s cross member.

Image A



Note: The winch post can be installed inside or outside the wood frame depending on your needs. If you wish, you can cut the ends at 25°.



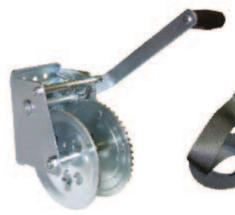


HARDWARE


Inside Corners 6 x


Back Plates 18 x


Leg Holder 2 x


Winch 1 x


Winch Strap 1 x


Kell Roller 1 x


Bumper 24"

TOOLS :

Pen
Drill
7/16” drill bit
Hammer
3/4” wrench
Tape measure
Screwdriver

	Qty	Size	Length
Carriage bolts w/ nuts & lock washers*	36	3/8"	2 ½"
Carriage bolts w/ nuts, lock & flat washers*	2	3/8"	4 ½"
S.s. Truss head screws	6	#8	1"

* We recommend galvanized steel bolts

You can install the hardware once the entire structure is assembled with screws or pre-assemble some parts that you will connect later. The concept is the same:

1- Note the hardware locations according to **Image B**.

2- Position the hardware parts and mark the holes with a pen.

3- Drill holes with the 7/16” drill bit.

4- Install the components with the 3/8" x 2 1/2" bolts except for the winch bolts which are 4 1/2" long with flat washers.

5- Complete by screwing the bumper length that will protect the hull of your boat to the front. Note that the cross member could be doubled for better support.


2


3






4


5

Image B

1

WHEELS & INSTALLATION

1

Posts
2 x

PVC Caps
2 x

Base Plates
2 x

TOOLS :
Tape measure
Pen
Drill with 7/16” drill bit
9/16” & 3/4” Wrenches

1- Assemble the wheels as shown above with the nylon bushing, the 2 triangular plates and the center axle bolt.

2- Mark the structure at the distances shown in **Image C** with dashes at 1 in. from the top.

3- Position the wheels by aligning the holes on your marks and note with a pen the location of the holes to be drilled.

4- Drill the holes. Install the wheels and adjust the assemblies.

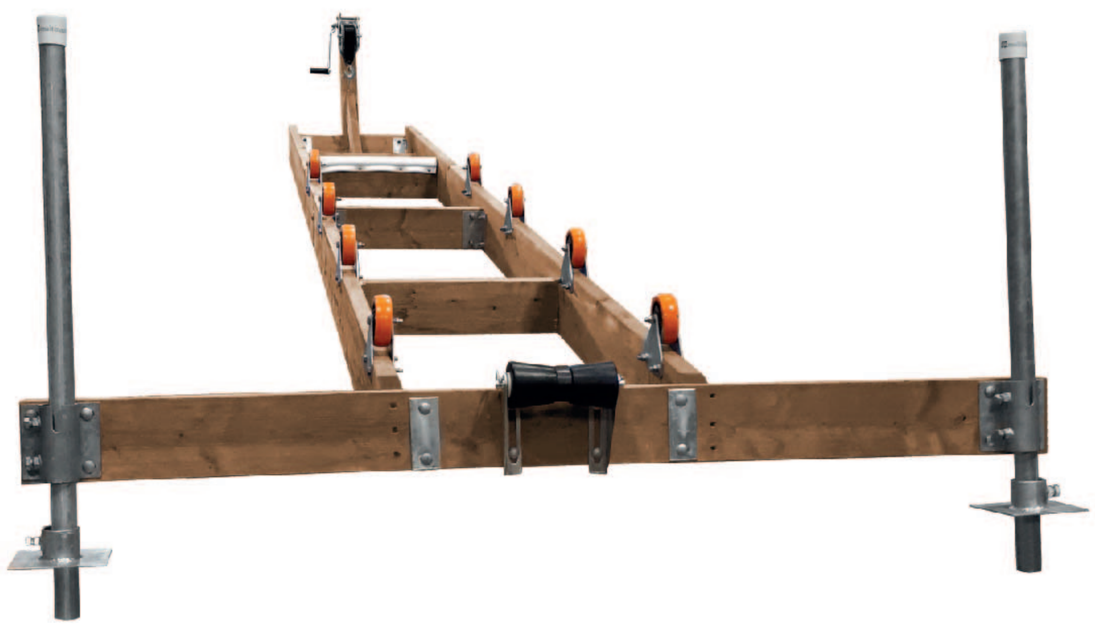
5- Slide the posts into the leg holders and slightly tight them temporarily with one of the hex bolts. Install the base plates at +/- 6" from the ends of the piles.

6- Move the ramp to its final location.

If the ramp floats, pound the posts more deeply in the ground for a better grip.

Depending on the quality of the terrain where the structure will be positioned, it may be wise to use larger bottom plates (#11108), or to add planks in the water under the base plates to prevent the piles from continually sinking.

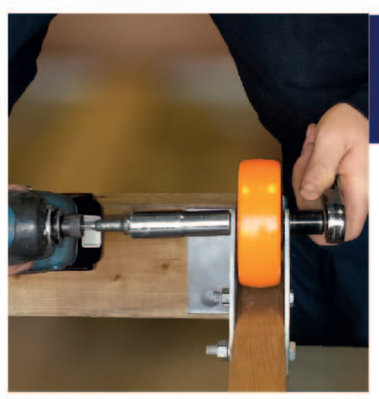
To prevent ice damage, it is suggested that this ramp be removed from the water during the winter.



2

3

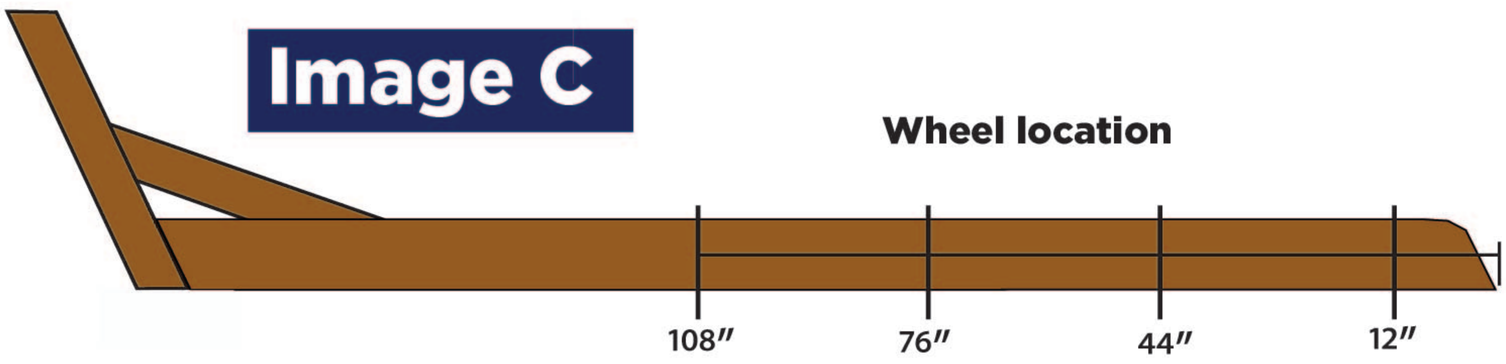
4



5

6

Image C



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