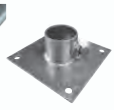
MULTI NAUTIC®

BOAT RAMP ASSEMBLY GUIDE

(using wheel kit **# 34110)**

This set of wheels is one of the components to build a mooring ramp for small boats of up to 1200 lbs.
This leaflet will guide you through the steps to complete your project.
If this box is not part of a complete ramp kit, here are the products to purchase. Look inside this Assembly Guide for the required lumber, screws and bolts listing. Note that some ramp kits include the screws.

6 x	18 x	2 x	1 x	1 x	1 x	+/- 24"	2 x	2 x	1 pair
									
Inside Corner	Back Plate	Leg Holder	Winch	Winch Strap	Kell Roller	Bumper	3 ft. Post	Base Plate	Post Cap BL or WH
# 10002	10003	10011	34202	34300	34106	Choices	11007	11107	15055 or 15025

Help line :
1-800-585-1237
info@multinautic.com

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* *Multinautic #10200 (8/pk)*	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.

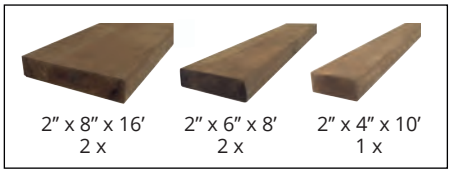
3- Drill holes with the 7/16” drill bit.

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.

1
Image B

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 vary depending on boat width or type. Read step 1.
**Read step 5.
***Note that some complete ramp kits include the required screws.

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.

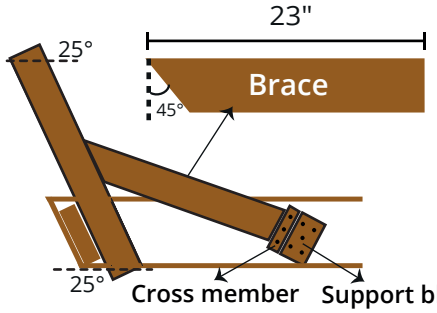
2- To make sure that your Posts are straight, position the end of a 2" x 8" beam on the shore, where the ramp will be installed, and the other end 2 inches under water surface. Using a long level maintained straight, mark a cutting line. Mark the other end of the 2" x 8" at 25° for the installation of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

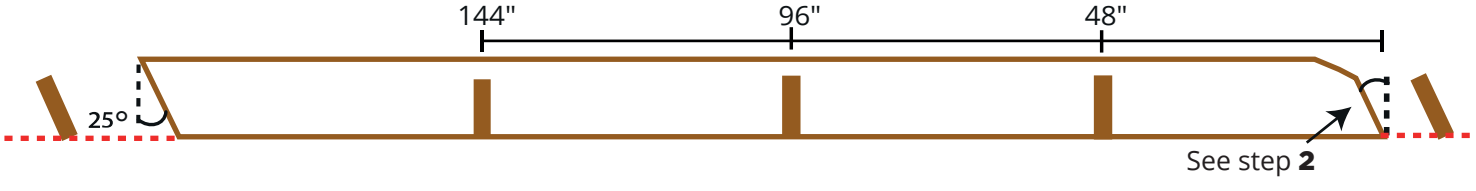
4- Assemble the structure with screws according to **Image A.** Be careful not to screw where the bolts will be.

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.

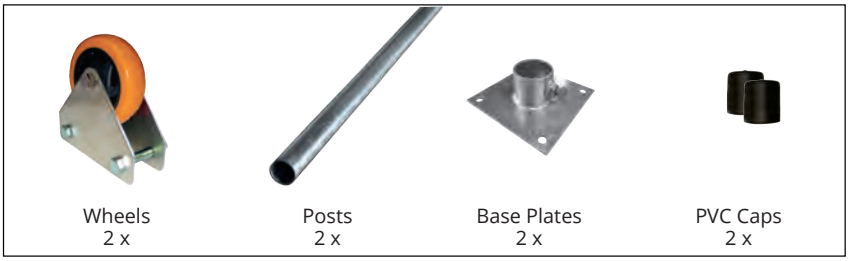
Image A



Note: The winch post can be installed either inside or outside the wood frame. It can be outside if your boat is liteweight. If you wish, you can cut the ends at 25°.



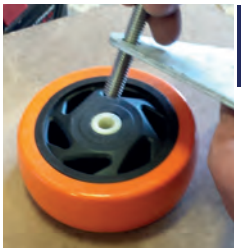
WHEELS & INSTALLATION



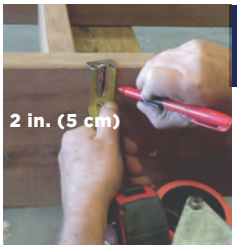
Wheels 2 x | Posts 2 x | Base Plates 2 x | PVC Caps 2 x

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 stainless steel center axle bolt and the 2 triangular plates.



2- Mark the side beams at the distances shown in **Figure C** with lines 2" from the top of the beams. It is on these lines that the triangular plates will line up to mark the mounting holes.



3- Position the Wheels by aligning their plate bases to your marks and note in pencil the location of the holes to be drilled.
Drill the holes straight. Install the Wheels and adjust the assembly.

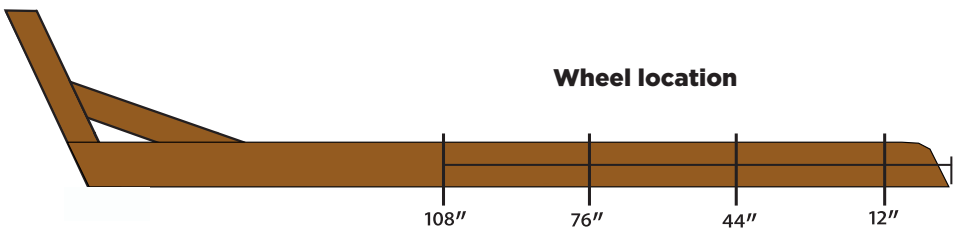
4- Slide the Posts into the Leg Holders and slightly tight them temporarily with one of the hex bolts. Install the Base Plates at +/- 6" from the ends of the piles.

5- 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 base plates (#11108), or to add planks under them to prevent the Posts from continually sinking.

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

⚠ Do not attempt to move your boat up the ramp using the engine's propulsion, as this could cause serious damage. Hoist it manually using the Winch.

Image C



If you have any concern with this product, do not return it to the store. Please contact our Customer Service at **1-800-585-1237**