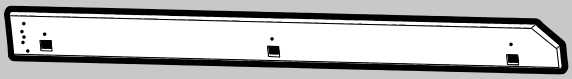
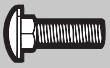
INCLUDED IN KIT:

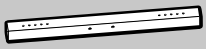
- ISR1  x2
- ISR2  x2

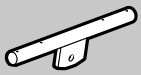
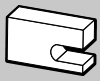
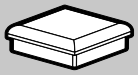
- B3  x24
- B2525  x4
- B175  x18
- B575  x8
- CB15S  x10
- CB25S  x1
- CB35S  x2

- NLN38  x8
- NLN25  x4
- NL38  x48

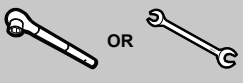
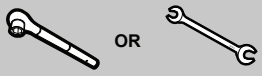
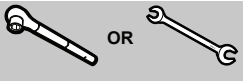
- W7838  x46
- W151116  x32
- RRTB  x2
- RRCB1  x4
- CAB1  x10
- WSB1  x4
- AK1  x4

- RLB1  x2
- EMT17  x2
- RRA1  x1
- FOOT-01  x1

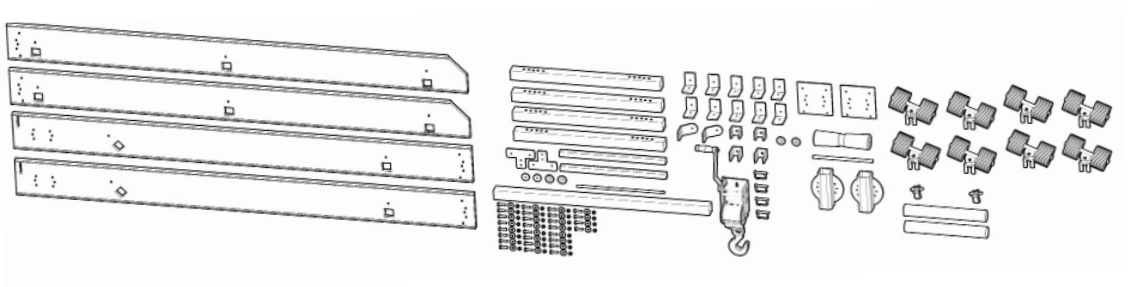
- RRE1  x1
- RRA1  x3
- RRN1  x1
- RRWS1  x1
- RRC1  x2

- RRW1  x16
- RKB1  x8
- SRA1  x8
- CPP2  x32
- RRMB1  x2
- SCAP1  X1

TOOLS REQUIRED:

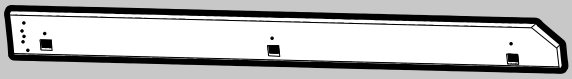
- 5/16" SOCKET WITH RATCHET TO SUIT OR 5/16" WRENCH 
- 9/16" SOCKET WITH RATCHET TO SUIT OR 9/16" WRENCH 
- 7/16" SOCKET WITH RATCHET TO SUIT OR 5/16" WRENCH 
- NEEDLE-NOSE PLIERS 

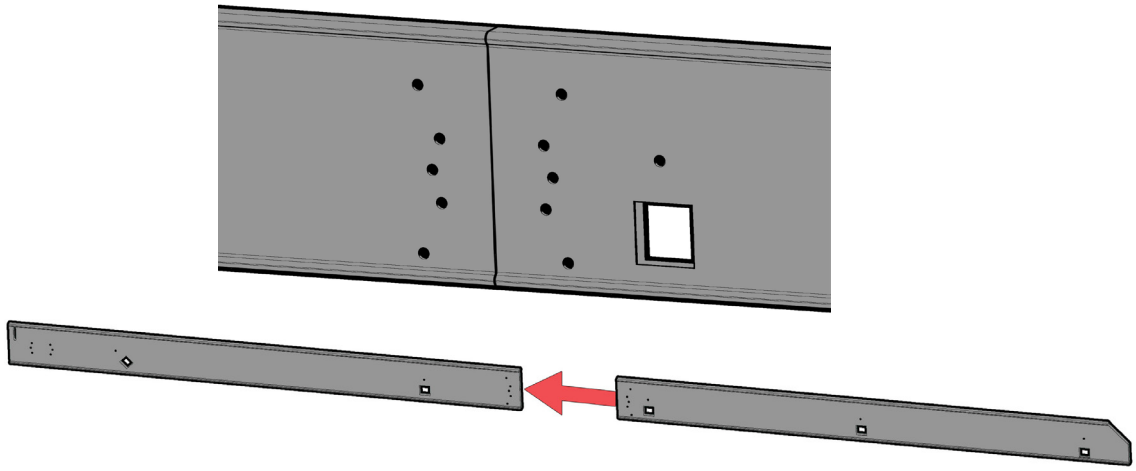
1



Lay out your roller ramp componens on a flat area for assembly.

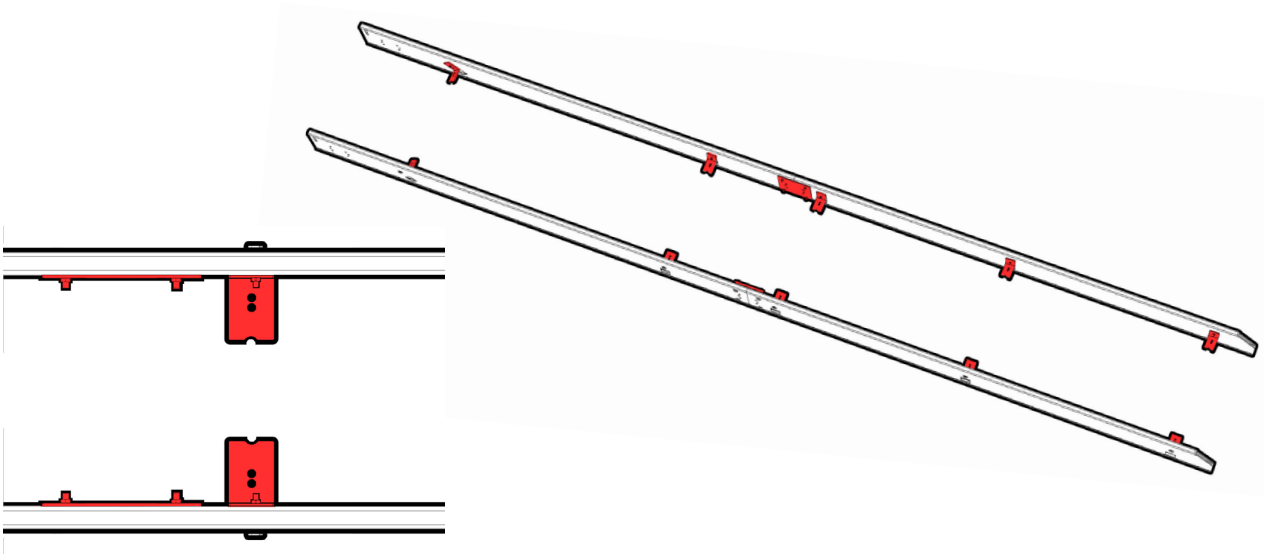
2

ISR1		x2
ISR2		x2



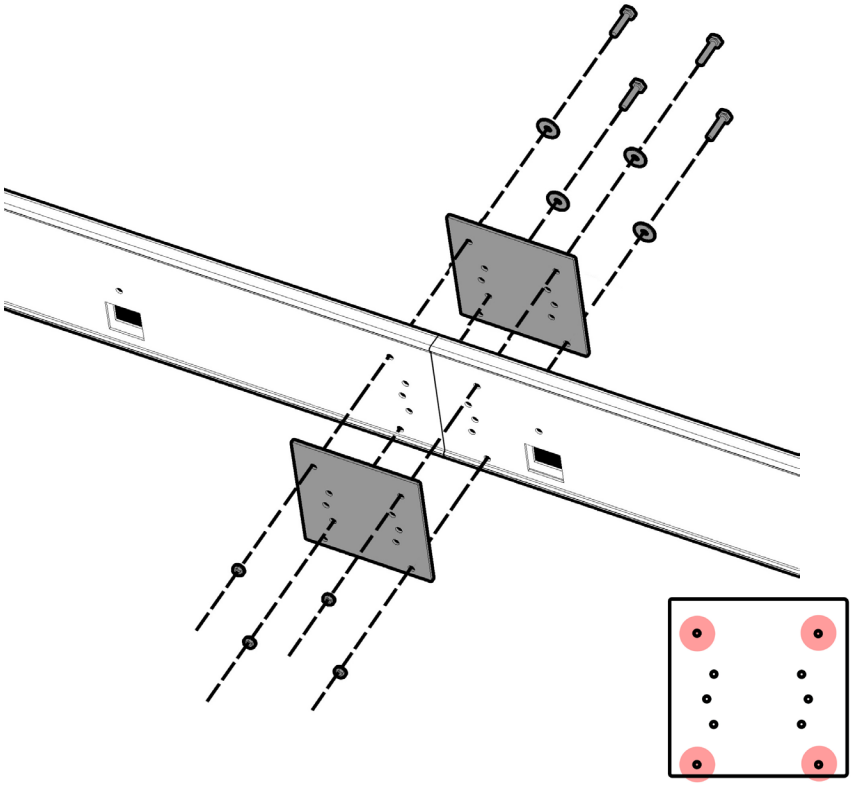
Connect both support rails together. Repeat **STEP 2** for the rail supports on the opposite side of the roller ramp.

3

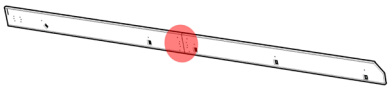


For **STEPS 4,5 & 6** be sure to build both support rail assemblies so the components attached are on the inside and facing each other. Ensure the inside components are initially fastened finger tight to make it easier to connect support rails together and change the width of the rail supports if needed.

4

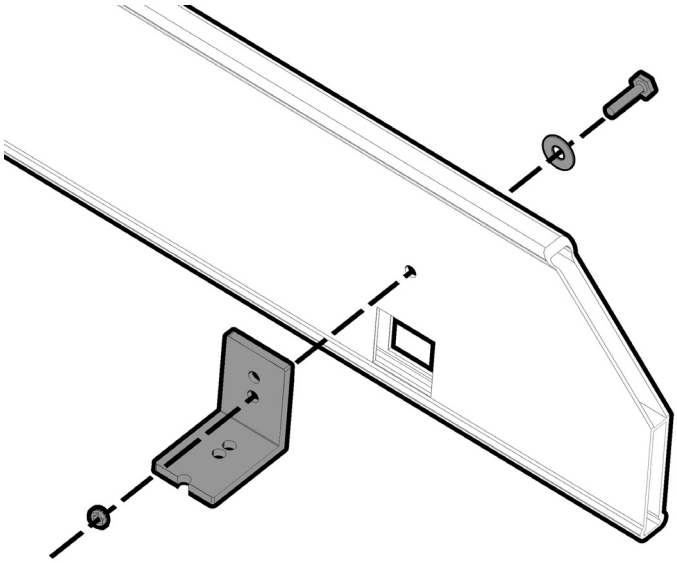


B175	x8
W7838	x8
RRCB1	x2
NL38	x8

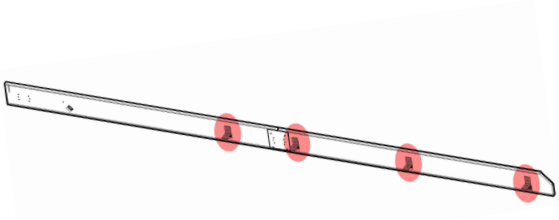


Fasten support rails together using the connection bracket (**RRCB1**). Repeat **STEP 4** for the other rail support assembly.

5

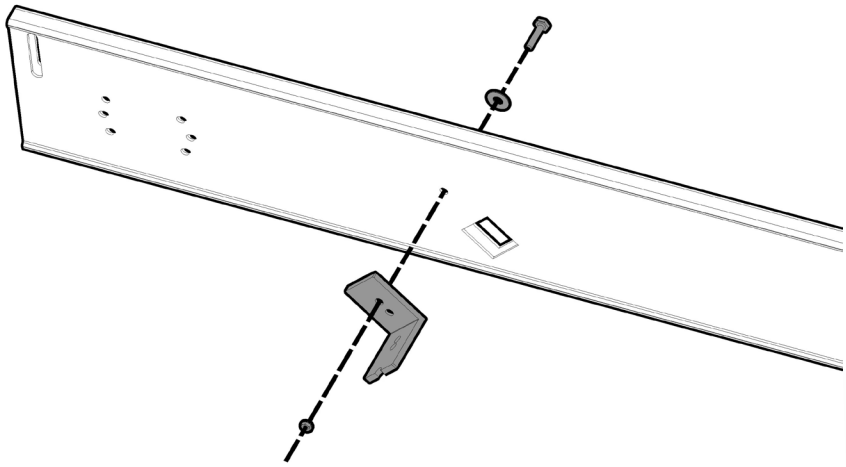


B175	x8
W7838	x8
CAB1	x8
NL38	x8



Fasten the four cross arm brackets (**CAB1**) to the support rail. Repeat **STEP 5** for the other support rail assembly. Keep each fastened bracket finger tight so they may be adjusted later.

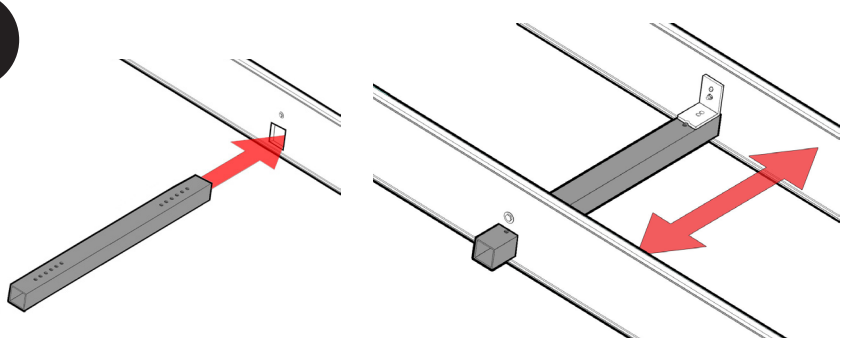
6



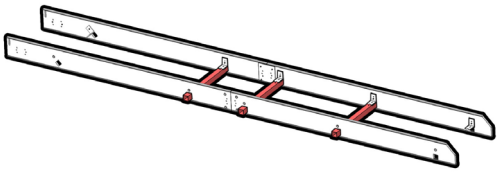
B175	x2
W7838	x2
CAB1	x2
NL38	x2

Fasten the cross arm bracket (**CAB1**) to the arm support. Repeat **STEP 6** for the other support rail assembly. Keep each fastened bracket finger tight so they may be adjusted later.

7

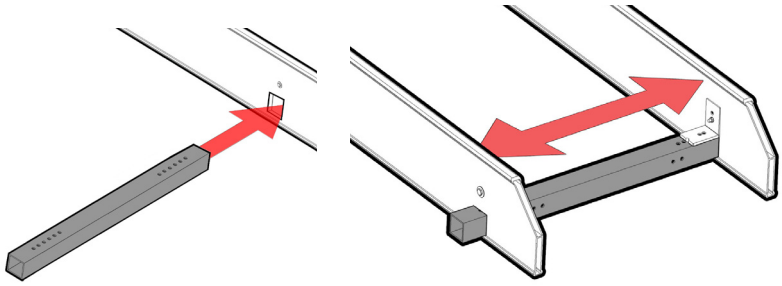


RRA1	x3

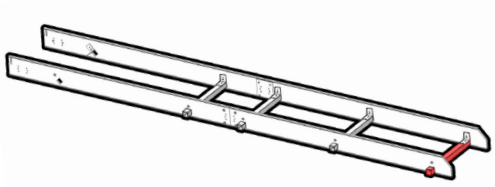


Insert the cross arms into the support rails. Ensure all cross arms are evenly spaced between the support rails.

8

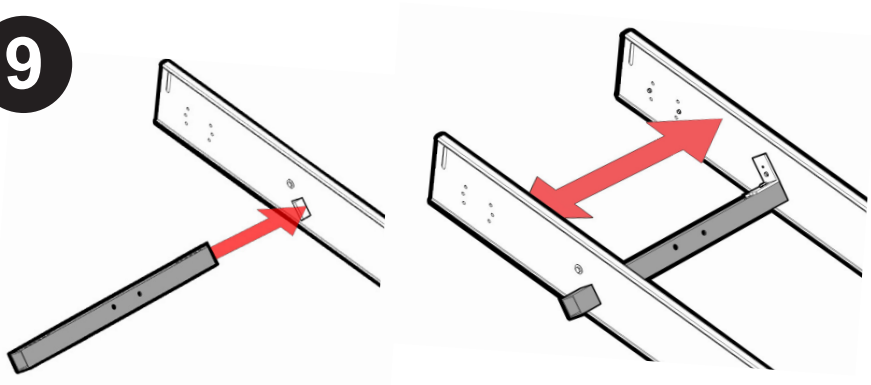


RRE1	x1

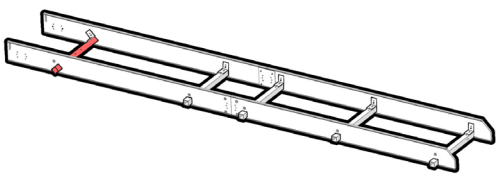


Insert the cross arm into the support rails. Ensure the cross arm is evenly spaced between the support rails.

9



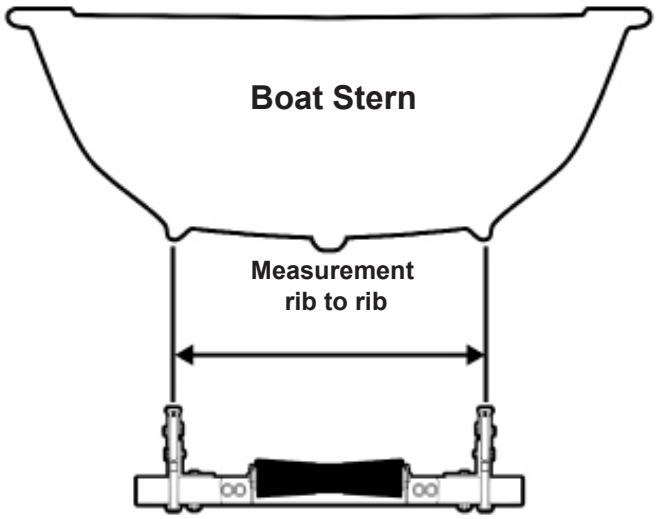
RRWS1	x1

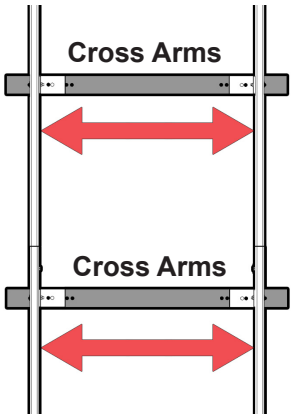


Insert the cross arm into the support rails. Ensure the cross arm is evenly spaced between the support rails.

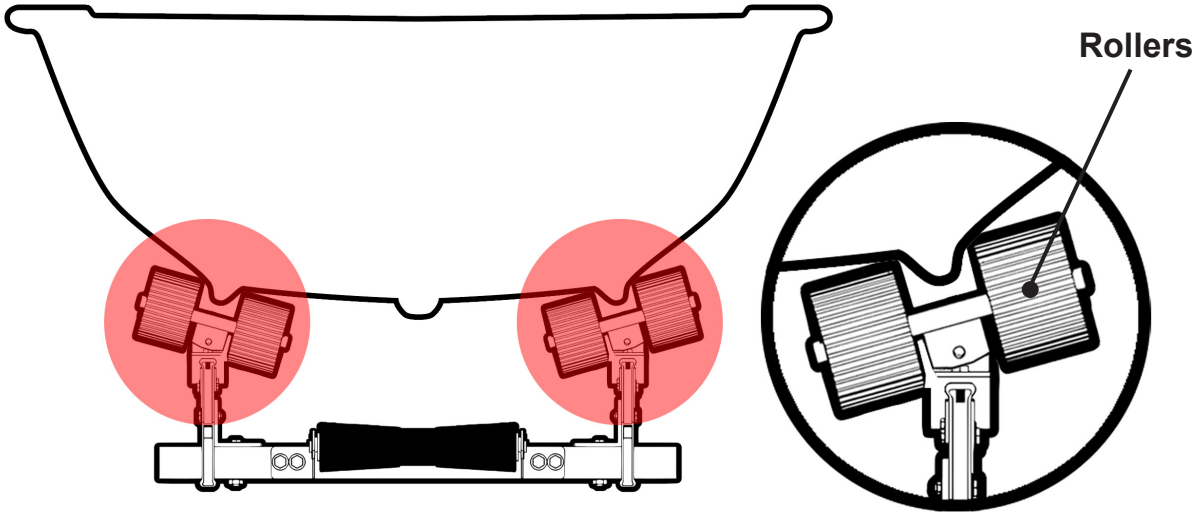
10

The width of the roller ramp can be modified depending on the width boat that it will carry. To determine the width you need measure the bottom of your boat's hull from rib to rib (see image below). Spread the cross arms evenly on the roller ramp to match this measurement.



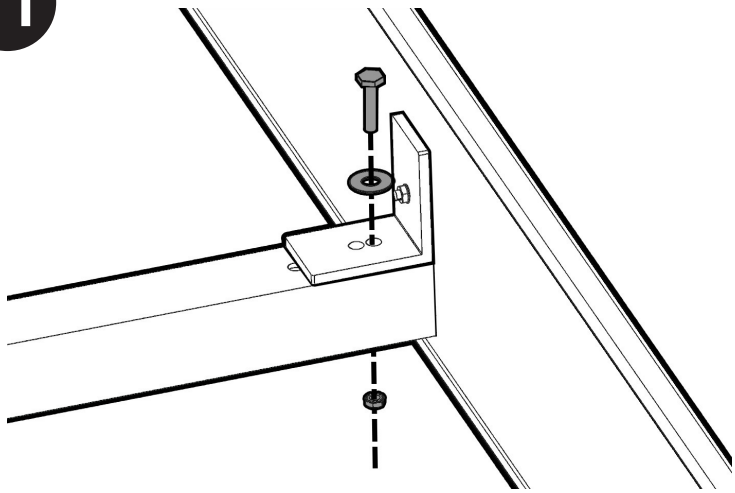


Slide and measure from the center of both support rails matching the length of your boat (rib to rib).

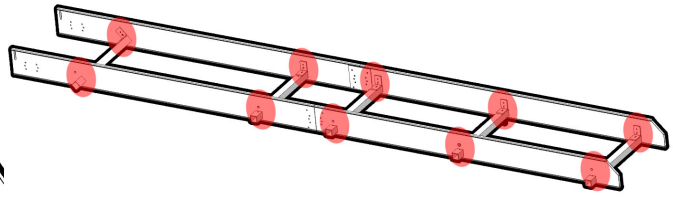


After the roller ramp has been completely assembled ensure that the boat ribs rest between the rollers on the roller ramp.

11



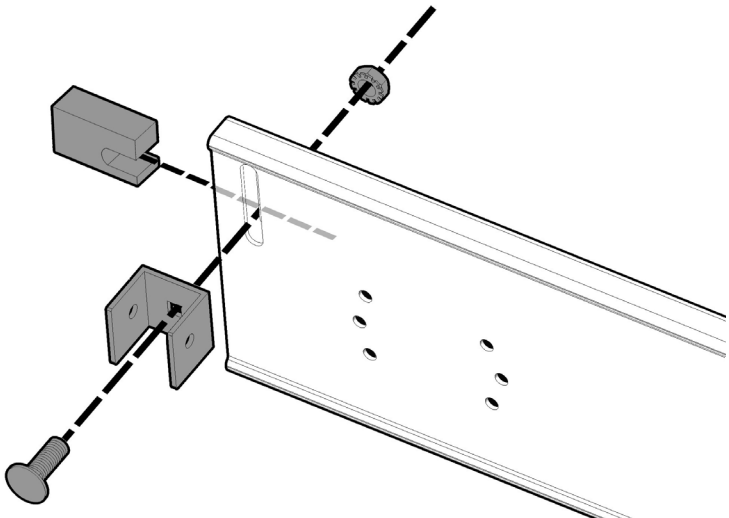
B3	x10
W7838	x10
NL38	x10

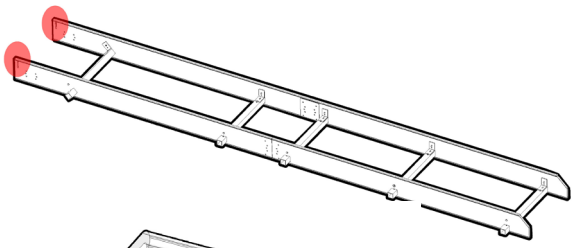


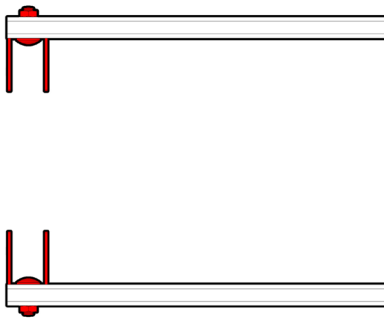
After you have determined the length of the ribs on your boat and have moved the cross arms to match this measurement, fasten each side of the roller ramp.

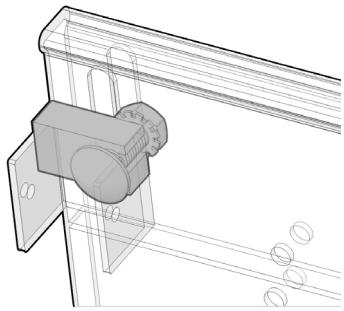
12

NL38	x2
WSB1	x2
CB15S	x2
RRMB1	x2





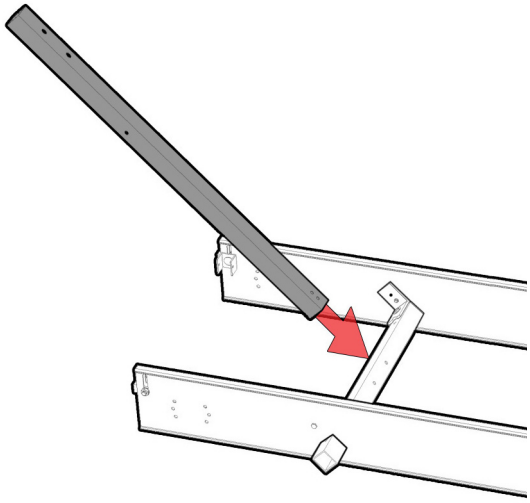


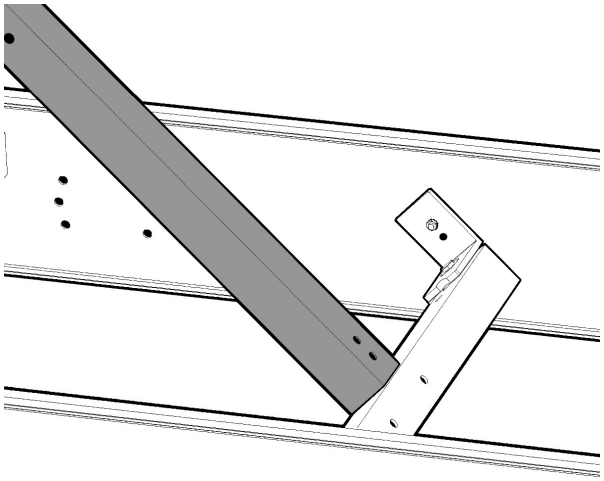


Follow **STEP 12** for the bracket assembly on both sides of the frame. Be sure to keep the brackets on the inside of the assembly facing each other. (See image above) Keep bracket bolts loose as they may need to be adjusted when adding components for **STEP 17**.

13

RRN1 x1





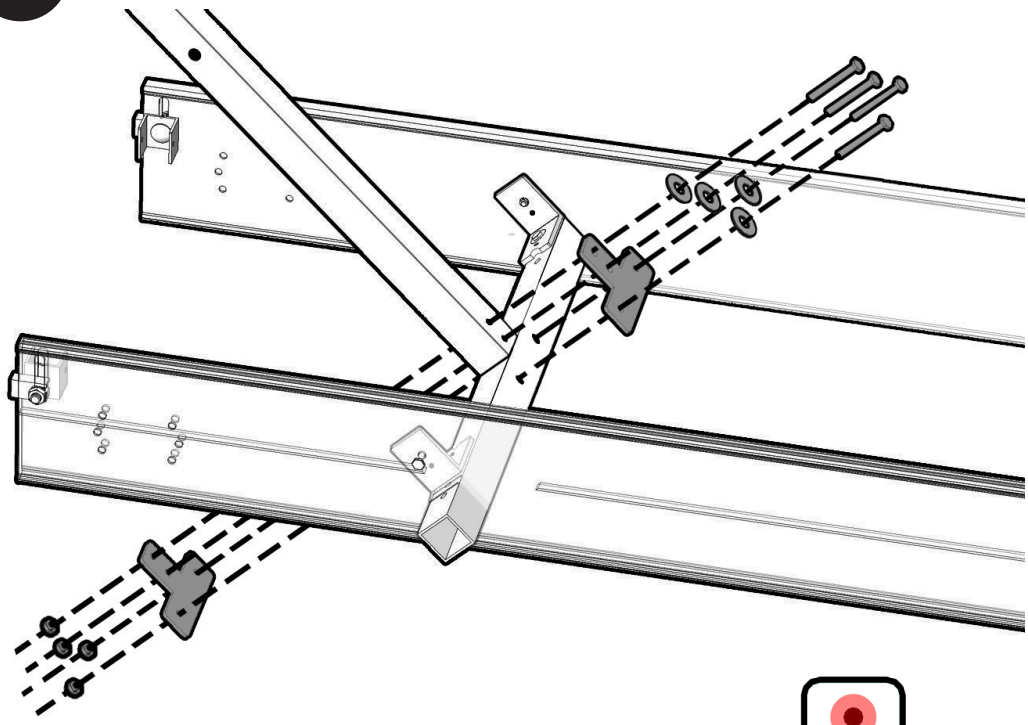
14

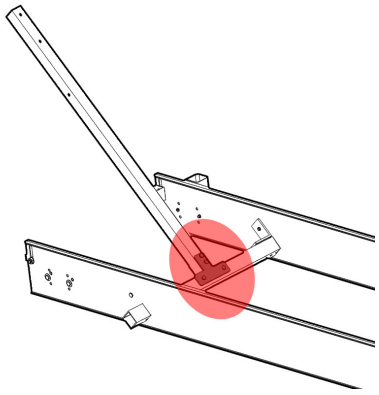
B3 x4

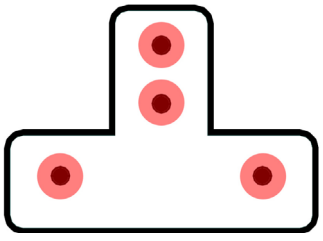
RRTB x2

NL38 x4

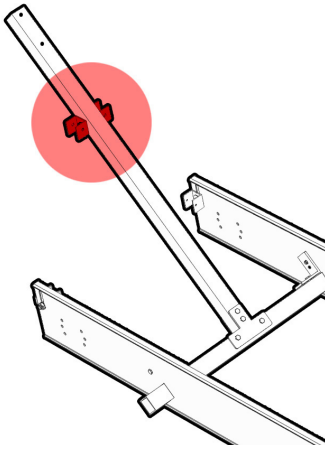
W7838 x4

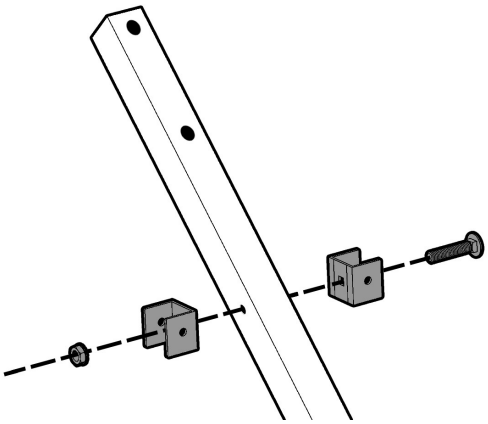






15

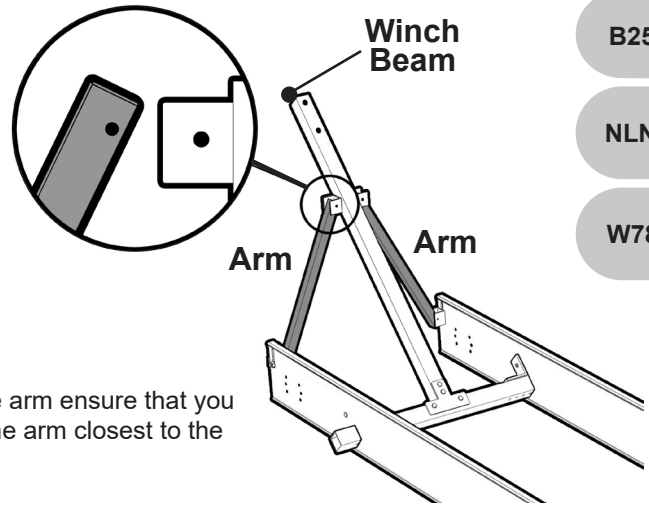




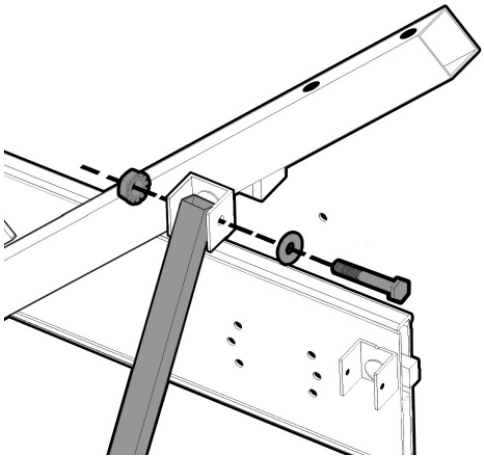
CB25S	x1
WSB1	x2
NL38	x4

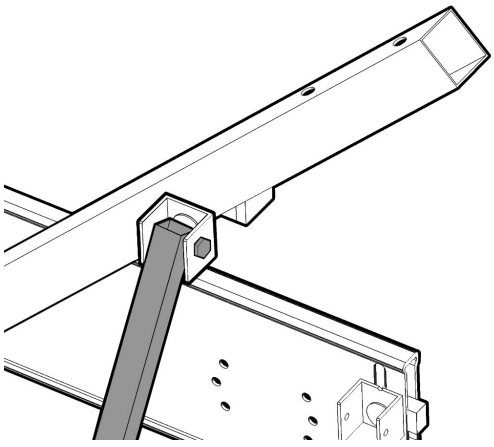
16

RRC1	x2
B2525	x2
NLN25	x2
W7838	x2



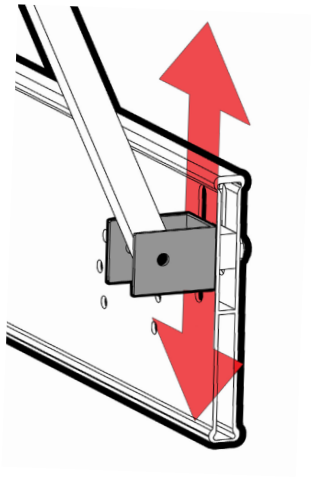
PLEASE NOTE: When installing the arm ensure that you place the hole of the arm closest to the winch beam.

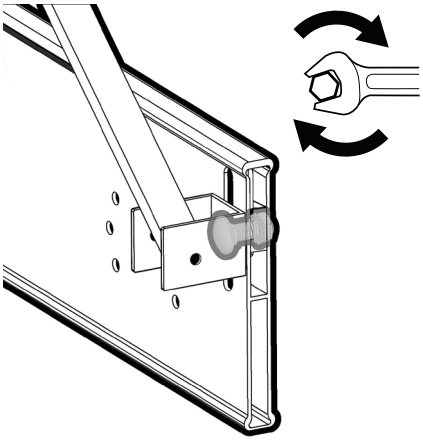




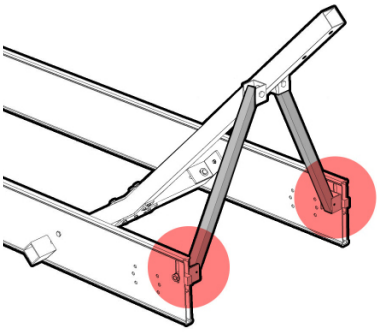
Follow **STEP 16** for both arms of the winch beam.

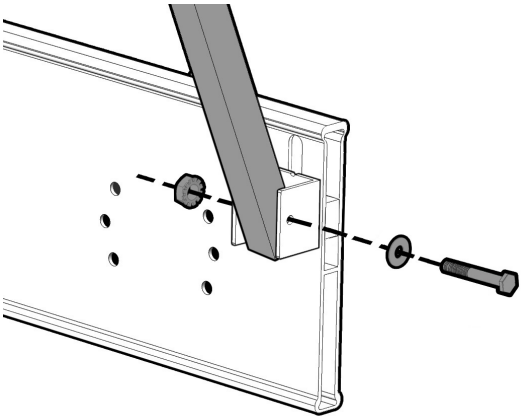
17

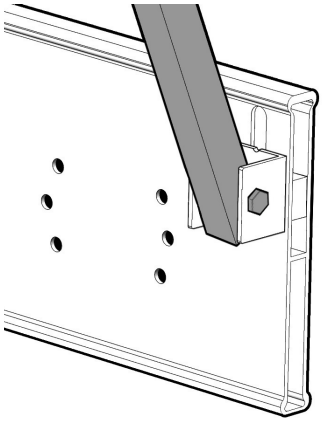




B2525		x2
NLN25		x2
W7838		x2

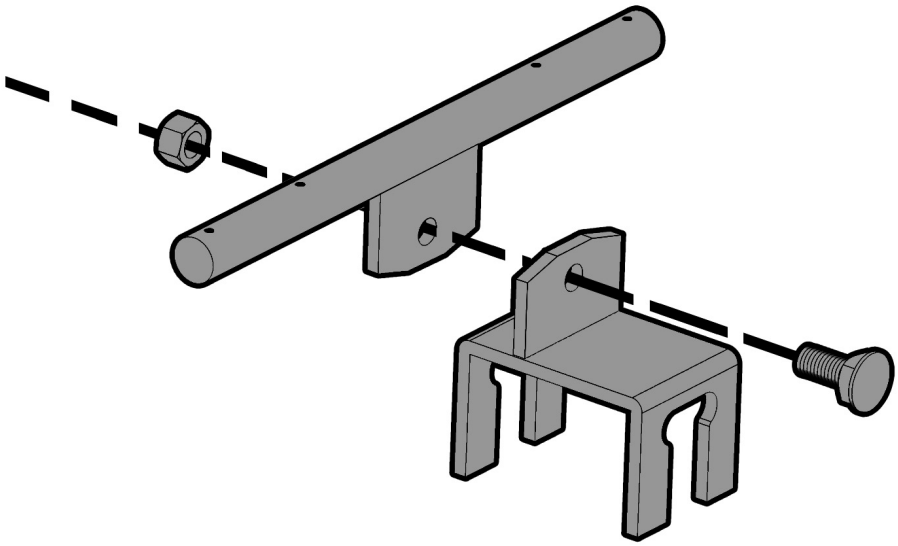


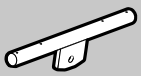
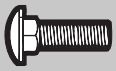




Position the bracket up or down to align the bracket hole with the arm hole. Slide the gated pin through the hole and fasten. Tighten the bolt. Repeat **STEP 17** for the second arm on the opposite side of the roller ramp.

18

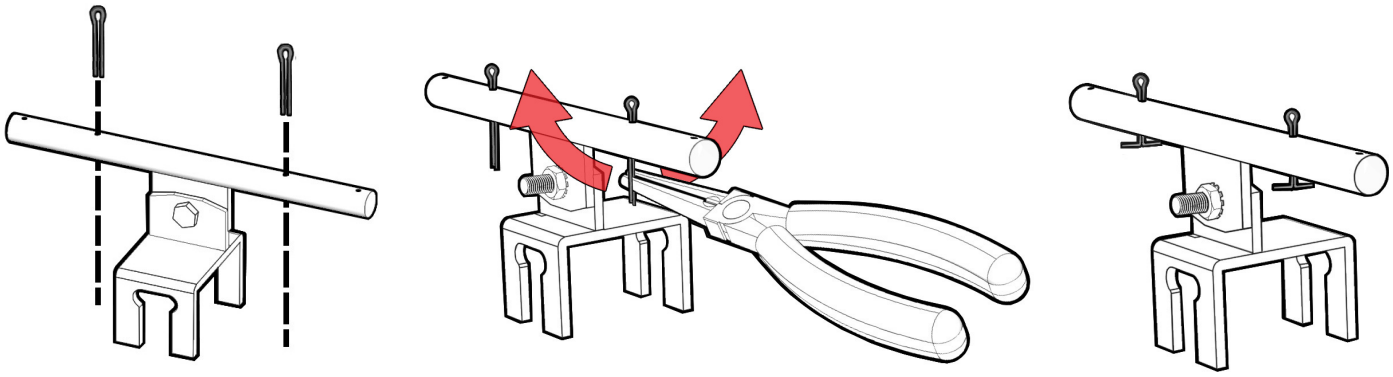


LN38		x8
SRA1		x8
RKB1		x8
CB15S		x8

Repeat **STEP 18** for all 8 roller assemblies.

19

CPP2 x16

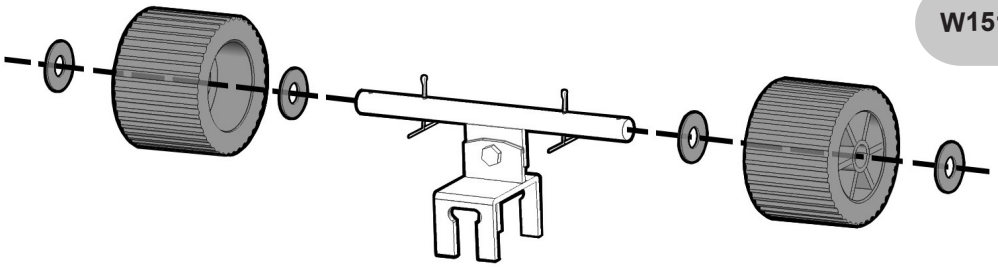


Use needle-nose pliers to bend back the ends of the cotter pins (See image above).
Repeat **STEP 19** for all 8 roller assemblies.

20

RRW1 x16

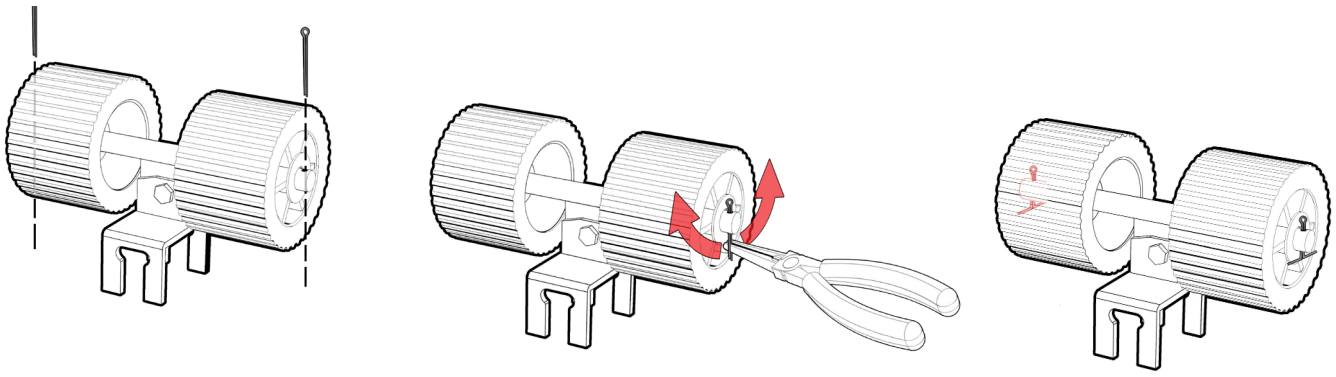
W151116 x32



Repeat **STEP 20** for all 8 roller assemblies.

21

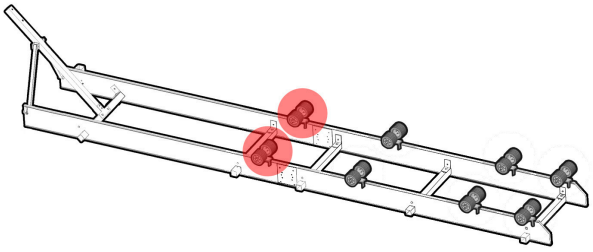
CPP2 x16

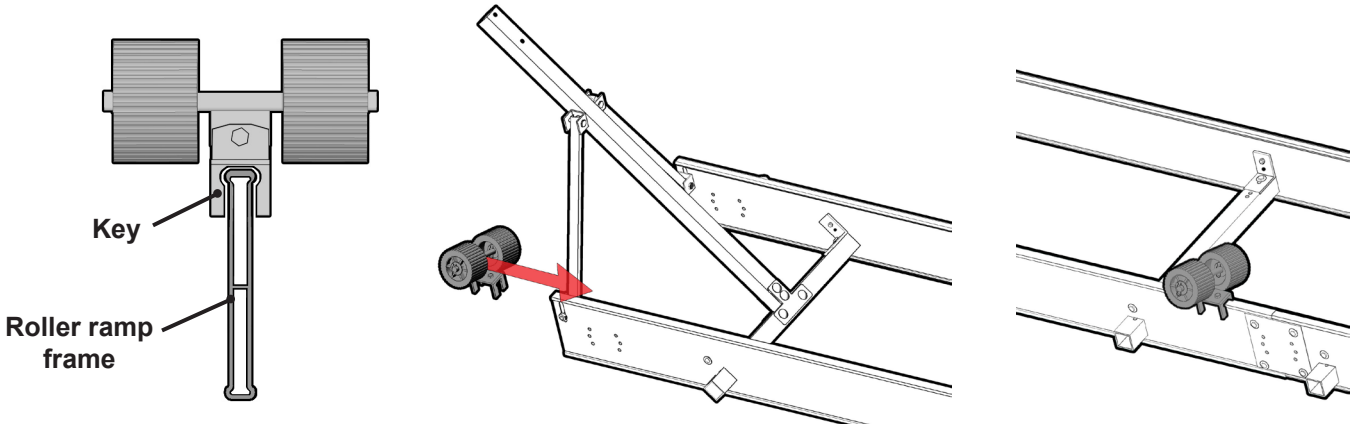


Ensure you bend both cotter pins on the outside of both wheels.
Repeat **STEP 21** for all 8 roller assemblies.

22

Slide Roller Assembly  x2

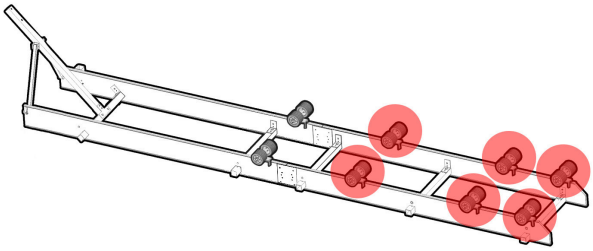


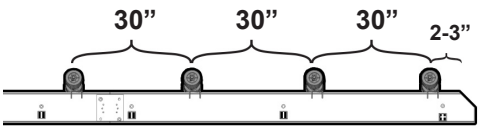


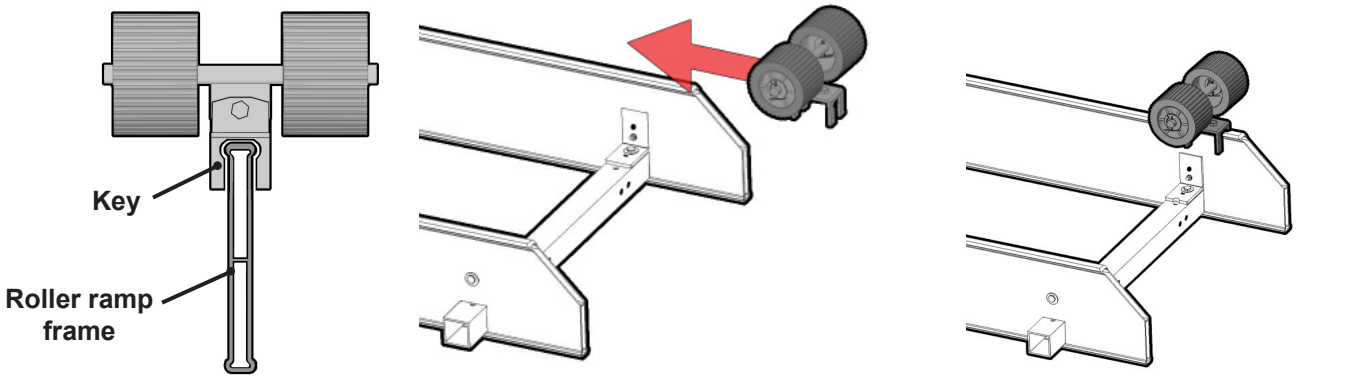
Position a slide roller assembly onto the tracks of the roller ramp frame using the key at the bottom of the slide roller (see image above). Repeat **STEP 22** for the opposite track of the roller ramp frame.

23

Slide Roller Assembly  x6



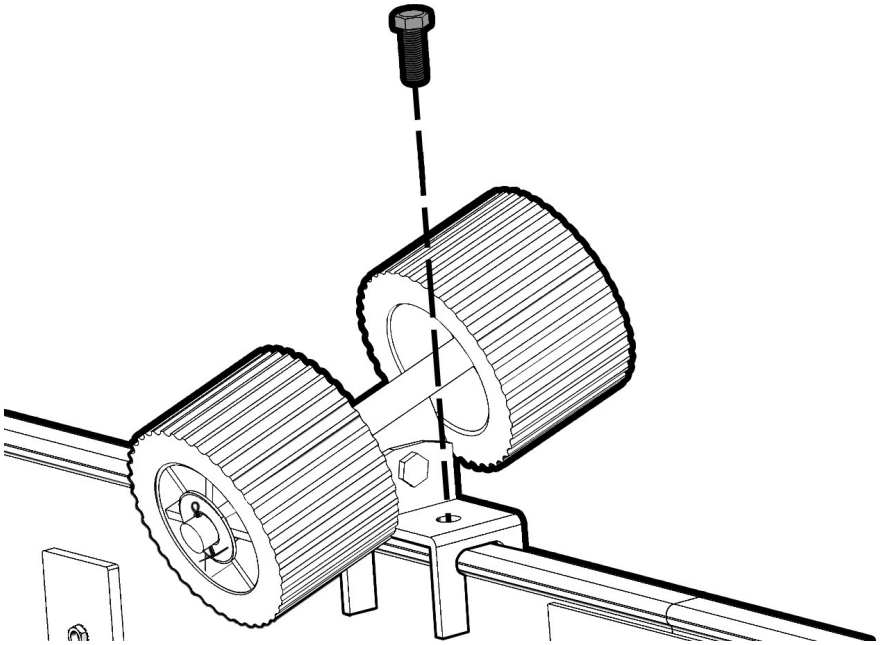


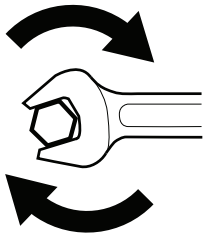


Position a slide roller assembly onto the tracks of the roller ramp frame using the key at the bottom of the slide roller (see image above). Repeat this for the three additional rollers on the same side of the ramp frame spacing them approximately 30 inches apart. The last set of rollers at the end should be approximately 2 to 3 inches from the end of the support. Repeat **STEP 23** for the opposite track of the roller ramp frame.

24

B575 x8





Do Not Overtighten

After sliding each slide roller assembly in place, tighten the bolt for each.

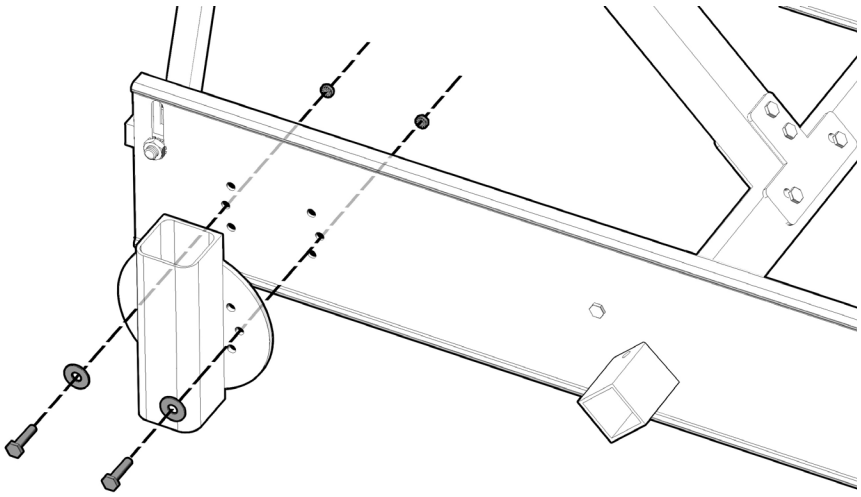
25

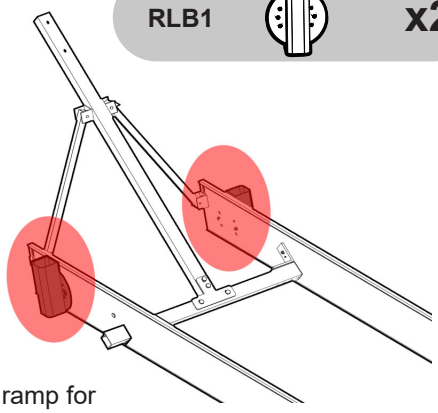
NL38 x4

W7838 x4

B3 x4

RLB1 x2



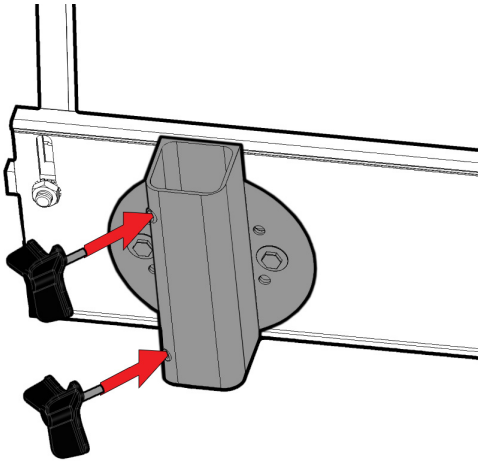


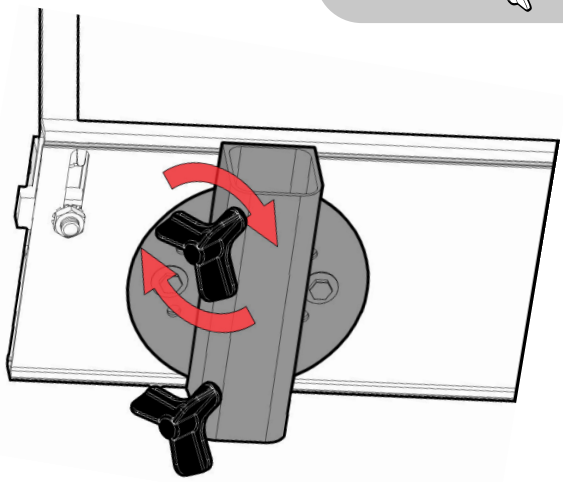
Follow **STEP 25** for both sides of the roller ramp.

PLEASE NOTE: The rotating bracket is an option that may be added to your roller ramp for stability in areas with uneven and challenging terrain. Please see **STEP 28** for more details.

26

AK1  x4

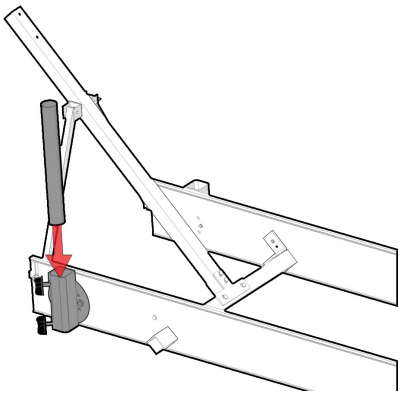


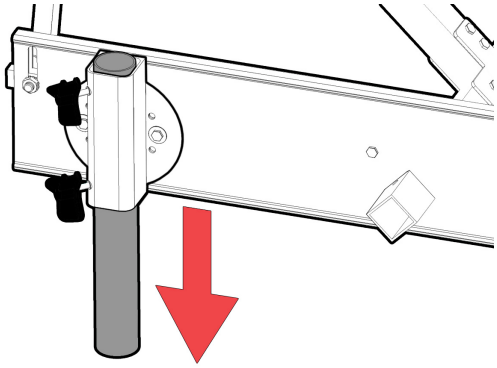


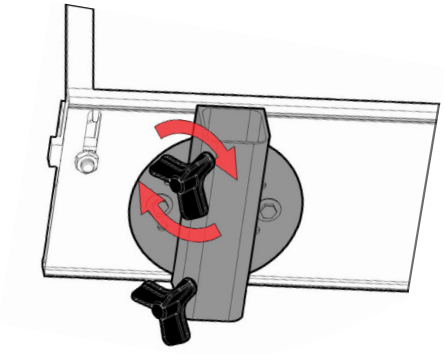
Follow **STEP 26** for both sides of the roller ramp.
Leave the knobs loose for **STEP 27.**

27

GL 17  x2





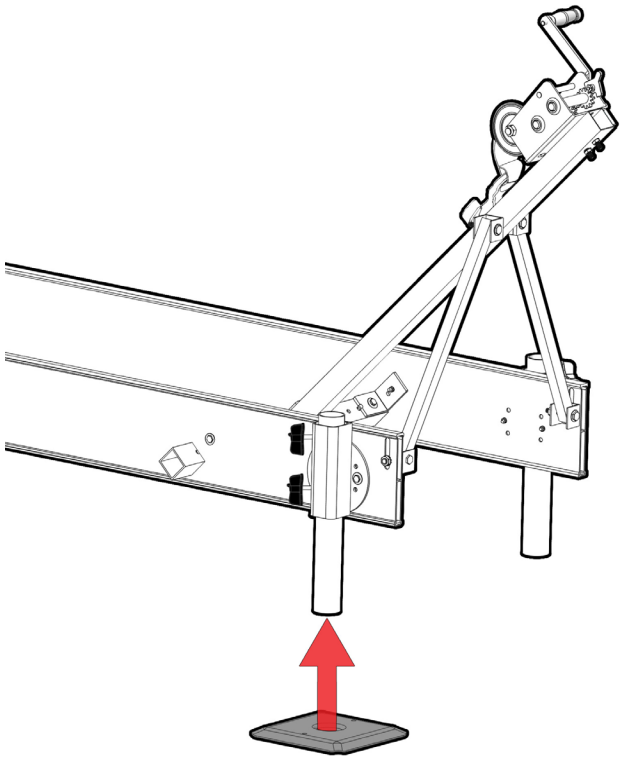


Tighten both
Adjustment Knobs

After you have adjusted the legs to the appropriate height for your roller ramp ensure that you tighten the adjustment knobs. Follow **STEP 27** for both sides of the roller ramp.

28

Foot-01 x1

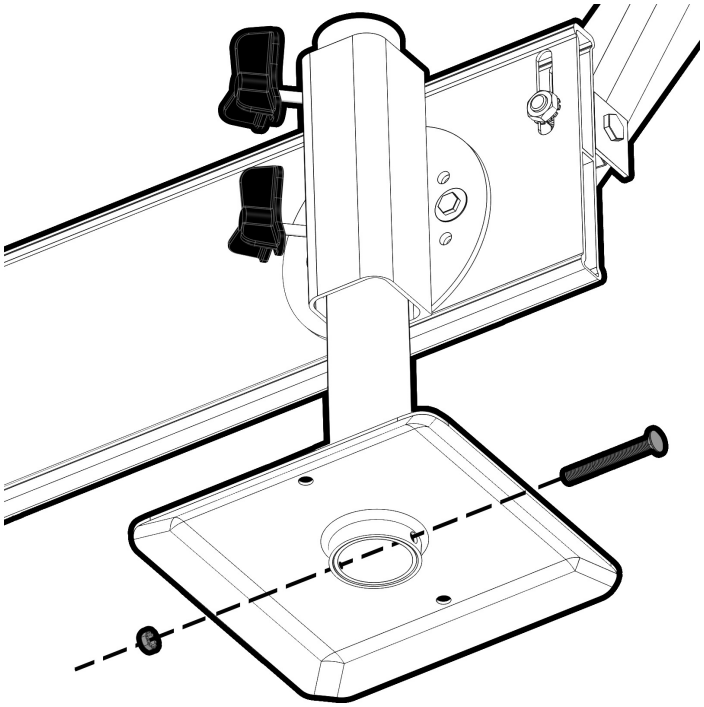


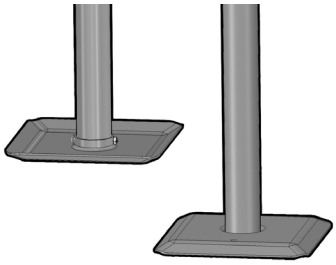
Fasten the foot pad onto the bottom of the leg. Continue to follow **STEP 28** for the second leg.

29

NL38 x2

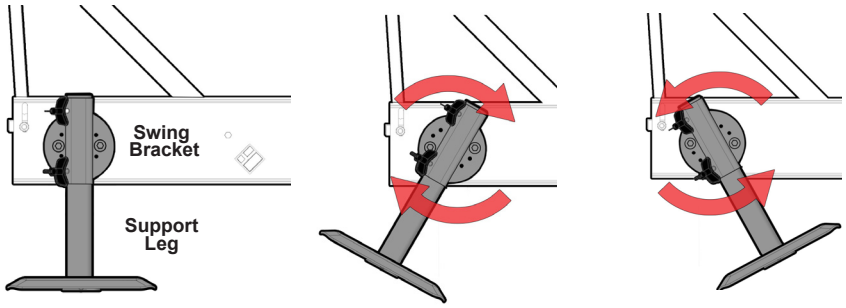
NL38 x2



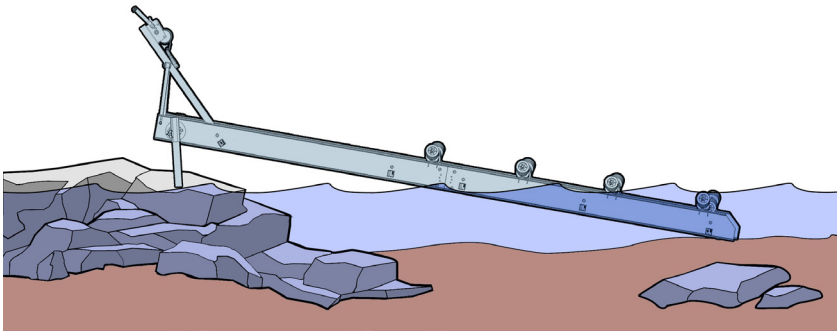


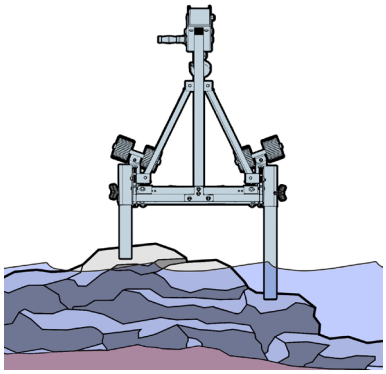
Depending on the terrain where you place your roller ramp, you may change the orientaton of the feet.

30

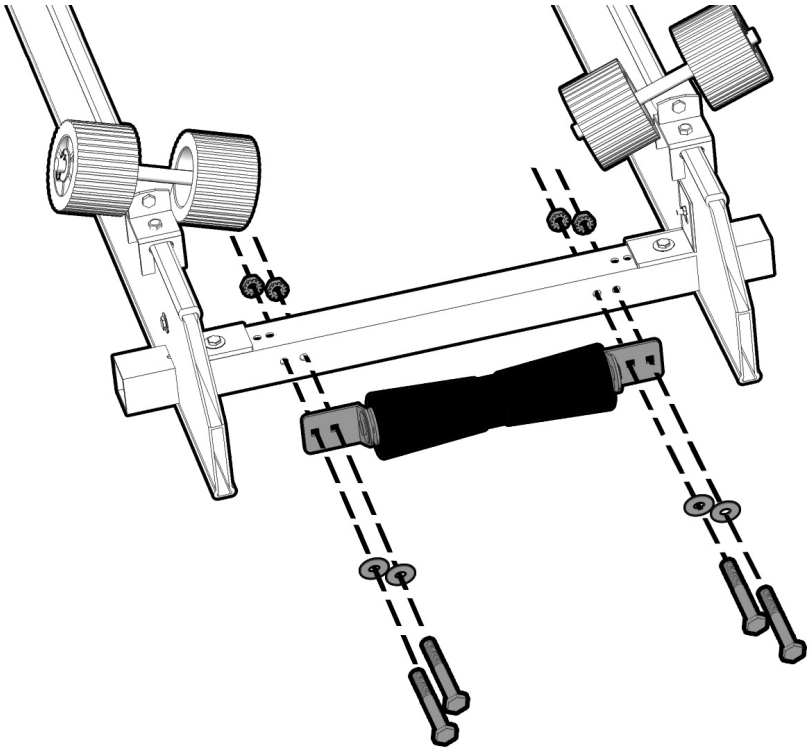


For uneven terrain the swing bracket may be used to stabilize the roller ramp. The legs of the swing bracket may be adjusted at different lengths to level the support legs with the terrain (See image below). The swing brackets may also be rotated for conforming to the challenging terrain.(See image above).





31

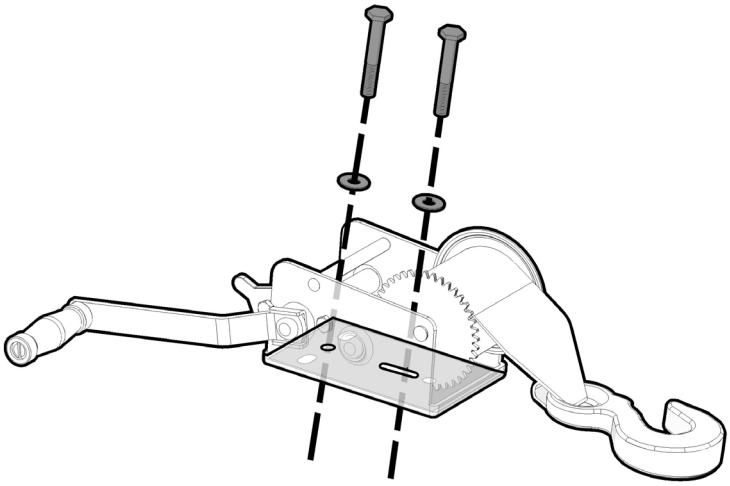


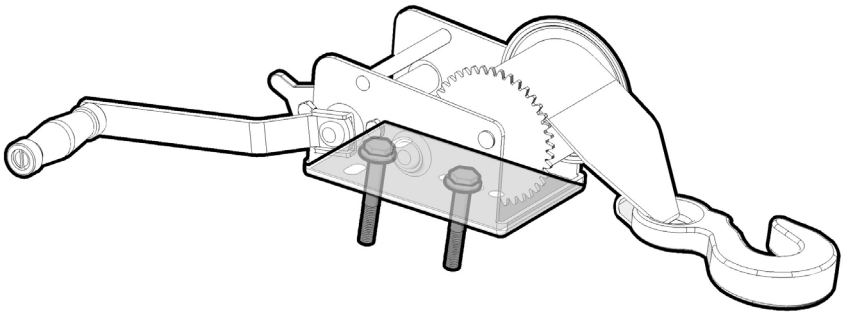
NL38		x4
W7838		x1
RRA1		x4
B3		x4

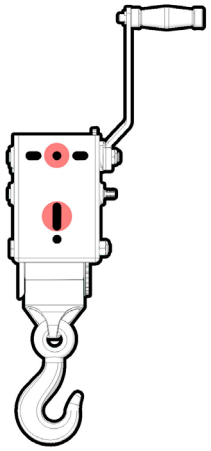
32

B3 x2

W7838 x2

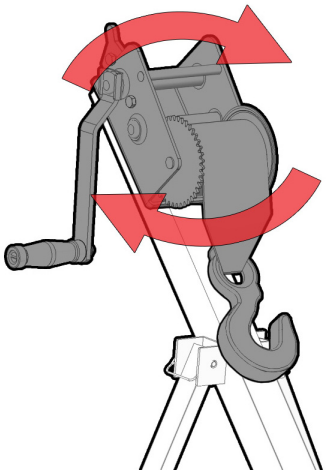


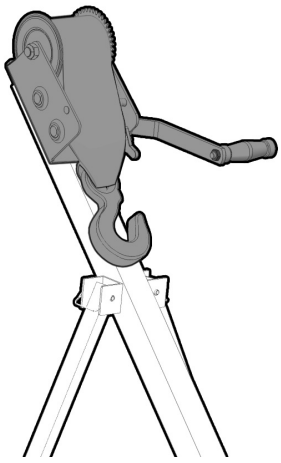




Hole Location

33

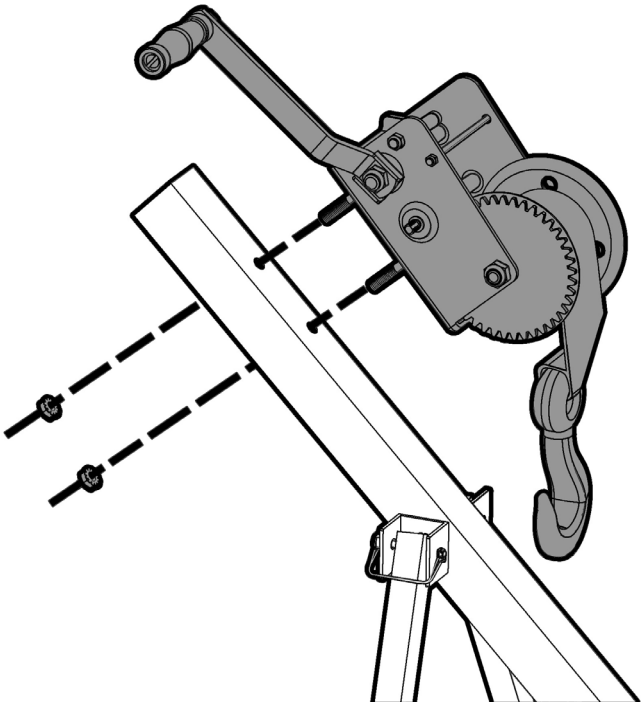


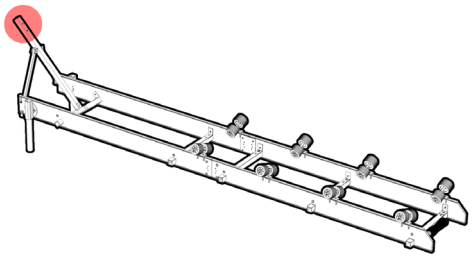


You may rotate the winch to orient the winch for either right-handed or left-handed use.

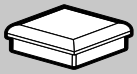
34

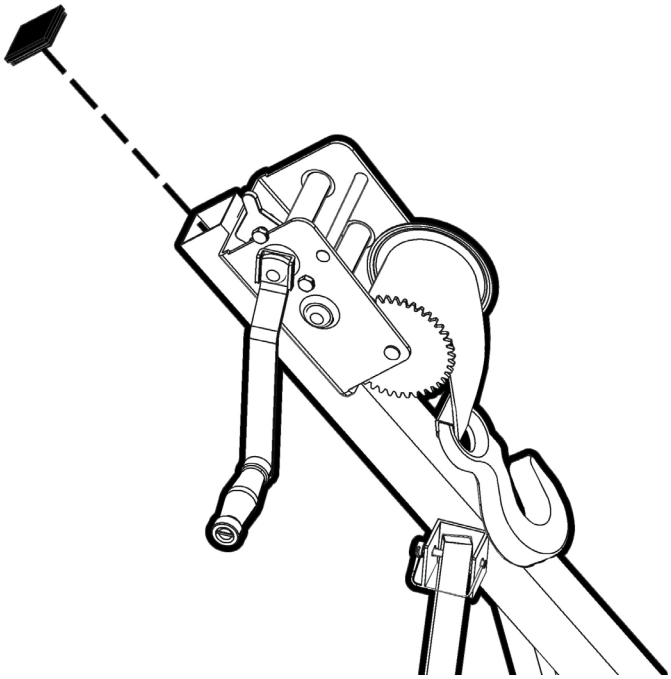
NL38  x2

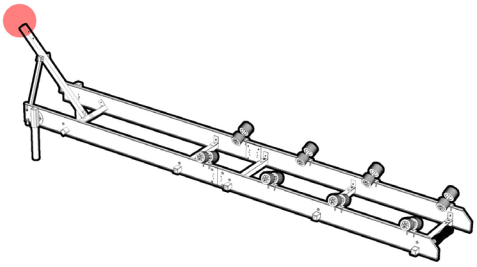




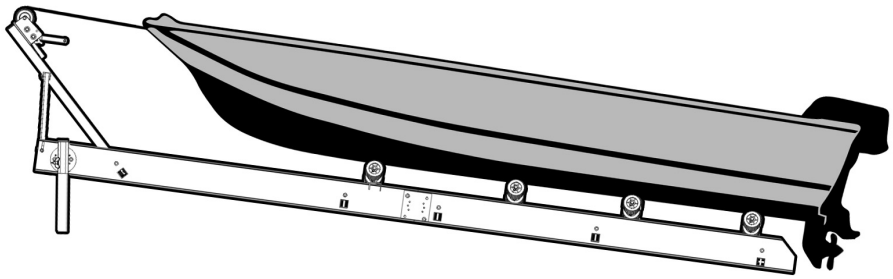
35

SCAP1  X1





36



Before positioning your boat in the water winch your boat onto the roller ramp for a trial run. Inspect and mark any areas along the rollers where there is not even distribution and coverage along the bottom of the boat. After removing the boat, use the areas you have marked to reposition any necessary rollers.