

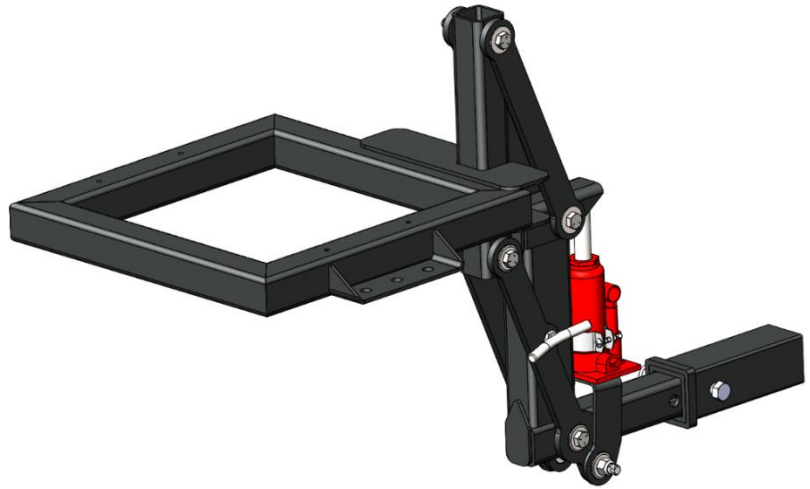
Bowhead Hauler Assembly and Installation Instructions





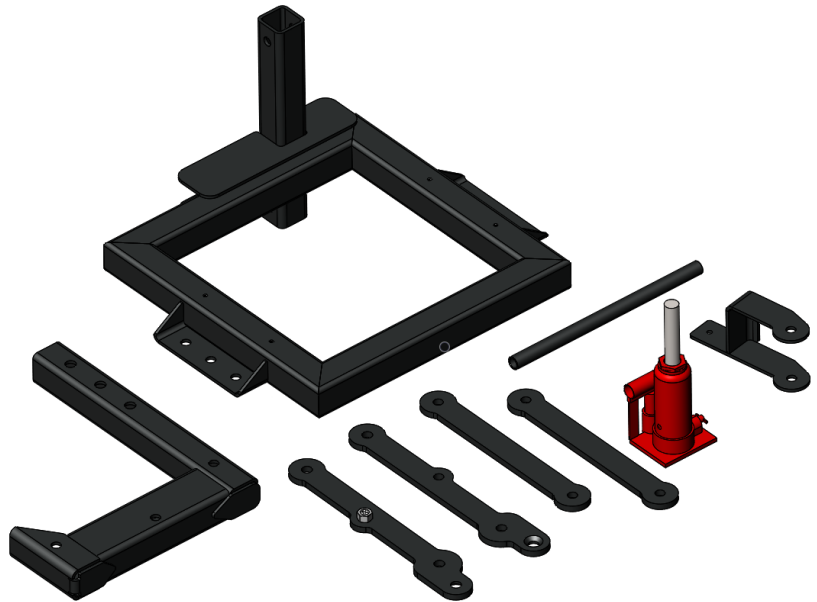
TOOLS REQUIRED:

- (2) 3/4" Wrenches
- (1) 7/16" Wrench
- (1) 5/16" Allen Wrench
- (1) Phillips Head Screwdriver

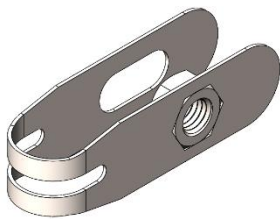


**CONTENTS
(PARTS)**

- (1) Receiver tube assembly
- (1) Platform assembly
- (1) Jack tube
- (1) Bottle Jack Platform
- (2) Upper Control Arms
- (1) Lower Control Arm with nut
- (1) Lower Control Arm
- (1) 2 Ton Bottle Jack

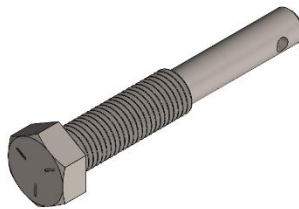


**CONTENTS
(HARDWEAR)**



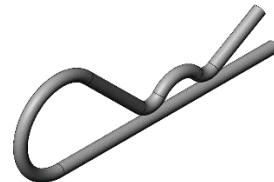
1

(1) 5/8" U Nut



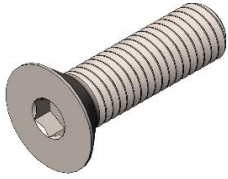
2

(1) 5/8" Hitch Bolt



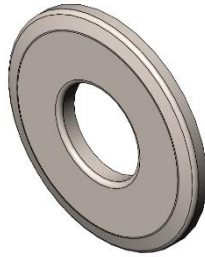
3

(1) Cotter Pin



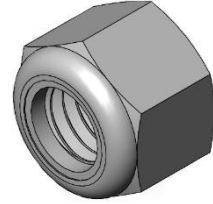
4

(2) 1/2" x 1 3/4"
Flathead Machine
Screws



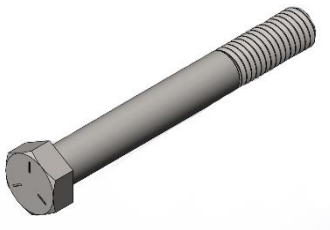
5

(21) 1/2" Washers



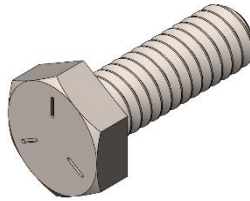
6

(6) 1/2" Nylock Nuts



7

(4) 1/2" Machine
Screws



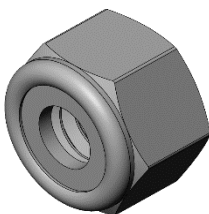
8

(1) 1/4" x 3/4" Machine Screw



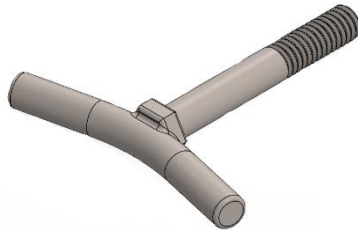
9

(1) Bell clamp with
Screw and Nut



10

(2) 1/4" Nylock Nut



11

(1) 1/2" Winged Safety Screw



12

(1) 1/2" Lock Washer



REACH SPECIFIC HARDWARE



25
(2) 5/8" Washer



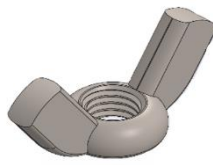
26
(2) 5/8" Lock Washer



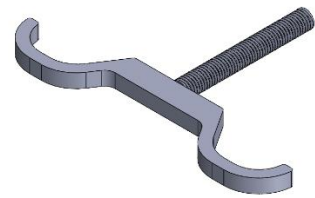
13
(4) M6 x 35mm FHCS



15
(4) M6 Washer



16
(2) 5/8" Wing Nut



17
(1) Double Sided Hook



18
(1) Short Single Sided Hook



19
(2) REACH/RX Cradle

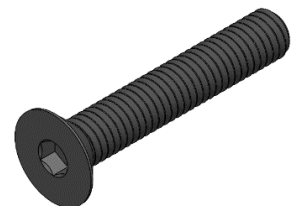
ROGUE SPECIFIC HARDWARE



25
(2) 5/8" Washer



26
(2) 5/8" Lock Washer



13
(4) M6 x 35mm FHCS



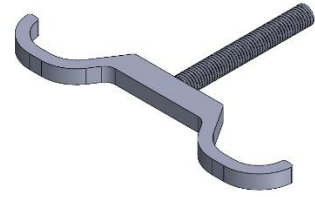
15

(4) M6 Washer



16

(2) 5/8" Wing Nut



17

(1) Double Sided Hook



18

(1) Short Single Sided Hook



20

(1) Rogue Tube Cradle



21

(1) Rogue Skid Plate Cradle

RX SPECIFIC HARDWARE



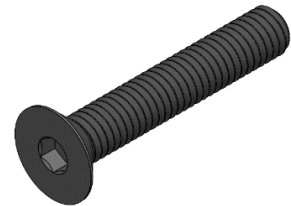
25

(2) 5/8" Washer



26

(2) 5/8" Lock Washer



13

(2) M6 x 35mm FHCS



14

(2) M6 x 90mm FHCS



15

(4) M6 Washer



16

(2) 5/8" Wing Nut



23

(2) Long Single Sided Hook



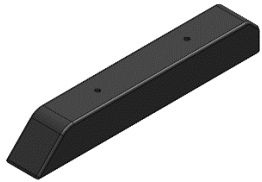
22

(1) RX Cradle



19

(1) REACH/RX Cradle



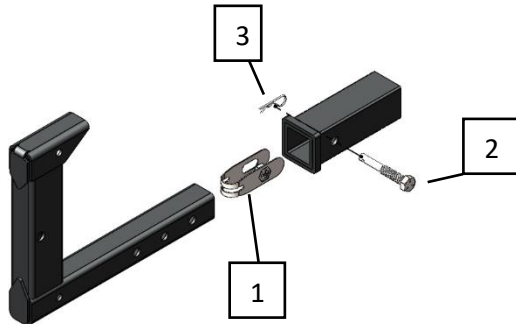
24

(1) RX Cradle Spacer



27

(1) Tie-down strap

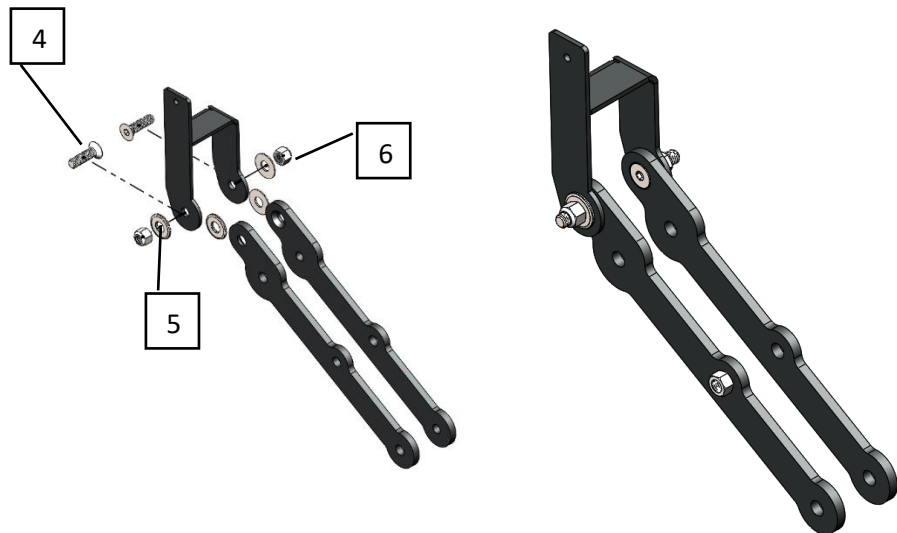


Step 1

Insert receiver tube assembly into a hitch receiver (typically your vehicle's hitch receiver) and insert the hitch retaining system. This may vary with your hitch.

Step 2

Lay out jack platform and lower control arms as shown in the picture. Note the position of the arms with the jack platform. Insert the $\frac{1}{2}$ " x $1\frac{3}{8}$ " flathead machine screws into the recessed (chamfered) holes on the lower control arms, insert into holes on jack platform, slide a $\frac{1}{2}$ " washer on each screw, and one in between each of the control arms and the jack platform. Then, screw on two $\frac{1}{2}$ " Nylock nuts. Tighten the two Nylock nuts to a snug fit but not too tight. You should be able to rotate the control arms with a moderate amount of friction between the two.



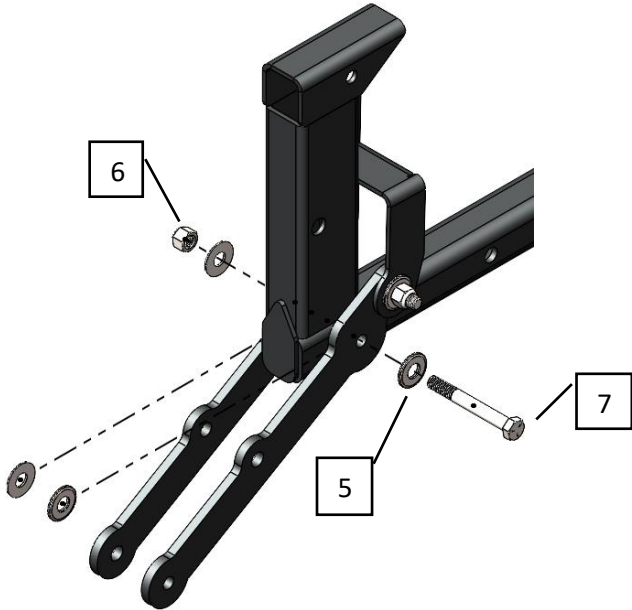
Step 3

Slide the assembly completed in step two over the receiver tube as show in the picture. Note the orientation of the jack platform and arms with the receiver tube.



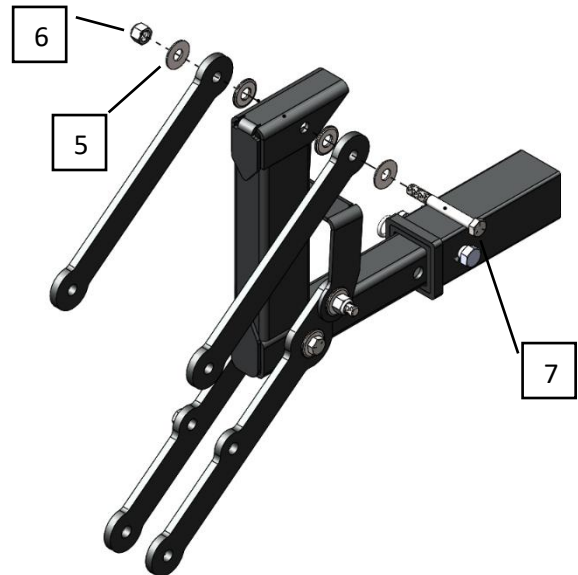
Step 4

Use a 1/2" machine screw, four 1/2" washers and one 1/2" Nylock nut. Slide a washer onto the screw and insert the screw through the hole in the lower control arm. Add two more washers, one on each side, between the control arms and the receiver tube. Push the screw through the holes in both control arms and the receiver tube. Put another washer on the end of the screw and attach a 1/2" Nylock nut. Spin on the nut by hand until it stops, you will be tightening all the control arm nuts later.



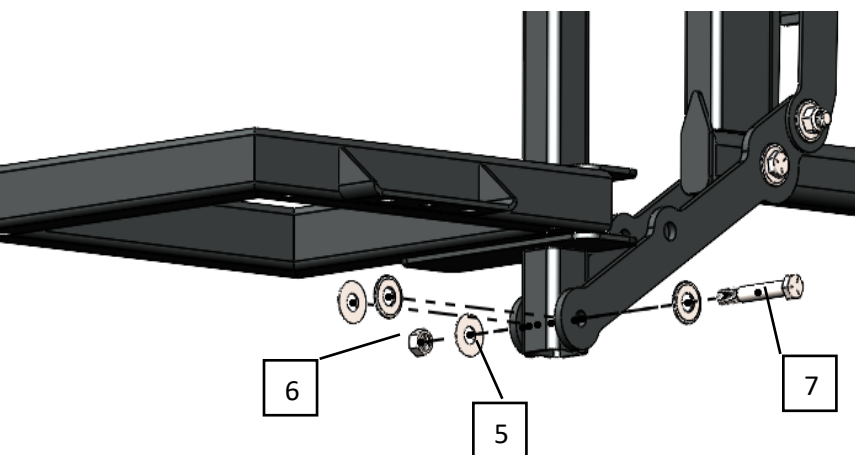
Step 5

Attach the upper control arms to the receiver tube using one 1/2" machine screw, four 1/2" washers and one 1/2" Nylock nut. Place a washer onto the screw and insert the screw through the hole in the upper control arm. Slide a washer onto both sides of the receiver tube between the control arms and push the screw through the holes in both control arms and the receiver tube. Put another washer on the end of the screw and attach the Nylock nut. Do not tighten the nuts yet.



Step 6

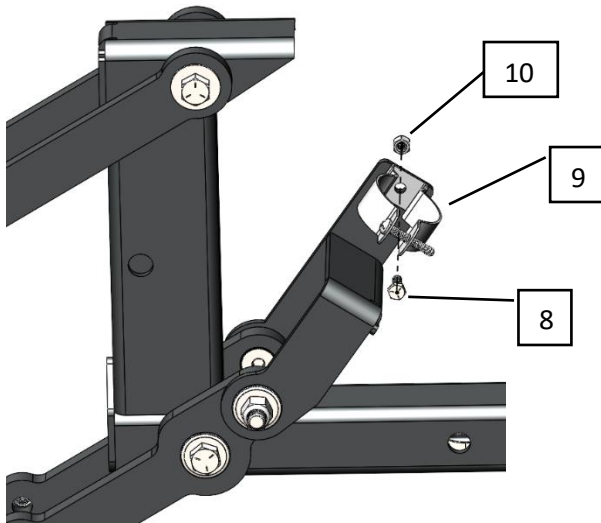
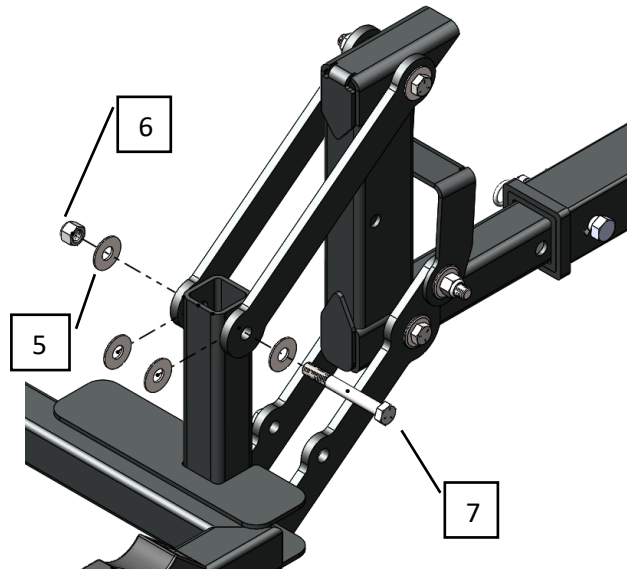
Attach the platform assembly to the other end of the lower control arms as illustrated in the picture. It may be helpful to allow the platform assembly to partially rest on the ground during this step. Use the same sequence of instructions as step 4. Do not tighten the nuts yet.





Step 7

Attach the platform assembly to the end of the upper control arms as illustrated in the picture. Use the same sequence of steps as step 5, at this point you can tighten the 4-control arm Nylock nuts. Tighten nuts until snug, and then back off a $\frac{1}{8}$ to $\frac{1}{4}$ turn.

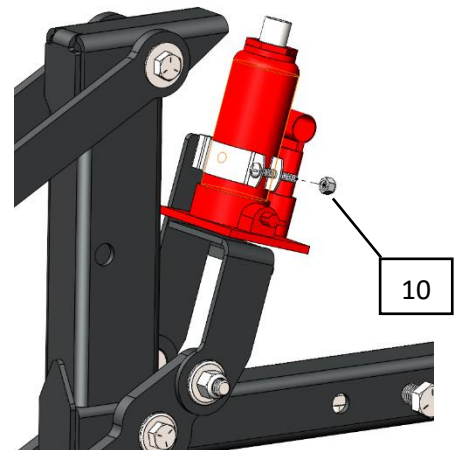


Step 8

Attach bell clamp to jack platform using $\frac{1}{4}$ " x $\frac{3}{4}$ " machine screw and $\frac{1}{4}$ " Nylock nut, tighten nut snugly so that the clamp will not rotate.

Step 9

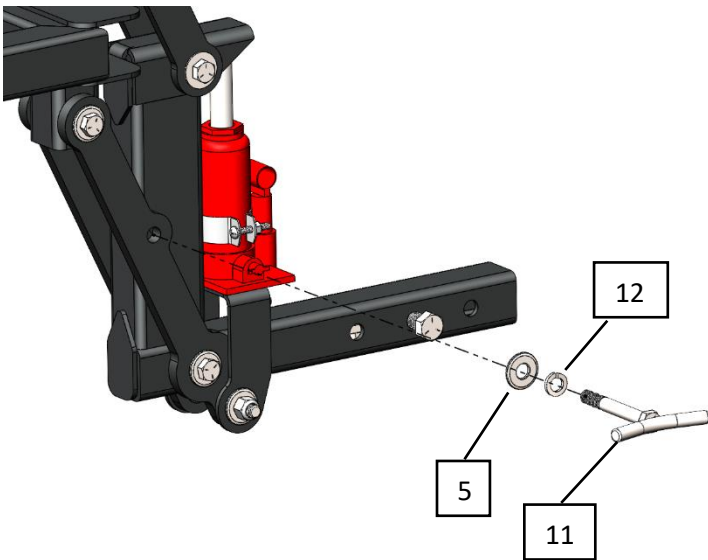
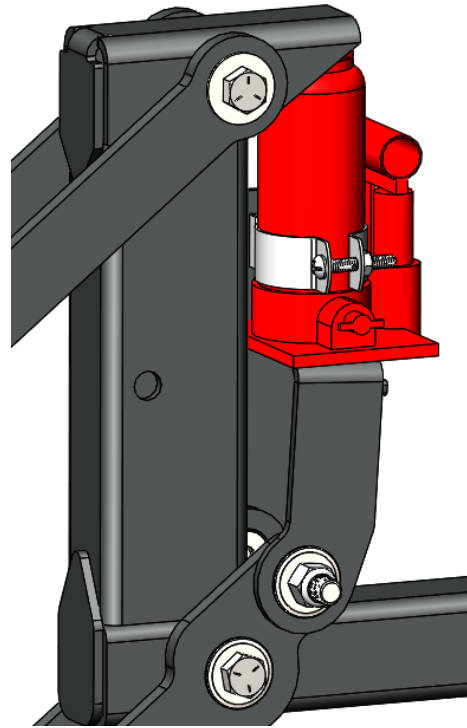
Remove the screw and nut from the flanges of the bell clamp. Bend the bell clamp to a more open position. Slide the bottle jack into the bell clamp, then use the bolt previously removed and a $\frac{1}{4}$ " Nylock nut to loosely fasten the bottle jack in place.





Step 10

Lift the platform assembly and swing the bottle jack towards the vertical part of the receiver tube, insert the top of the bottle jack into the retaining ring on top of the receiver tube. Apply some downwards pressure onto the platform to seat the bottle jack in place. Ensure that the bottle jack fits squarely on top of the jack platform. Finish tightening the nut on the bell clamp to secure the bottle jack in place.



Step 11

Using the jack handle, completely jack up the platform to the full up position. Then insert the 1/2" winged safety screw through a 1/2" washer and a 1/2" lock washer.

Step 12

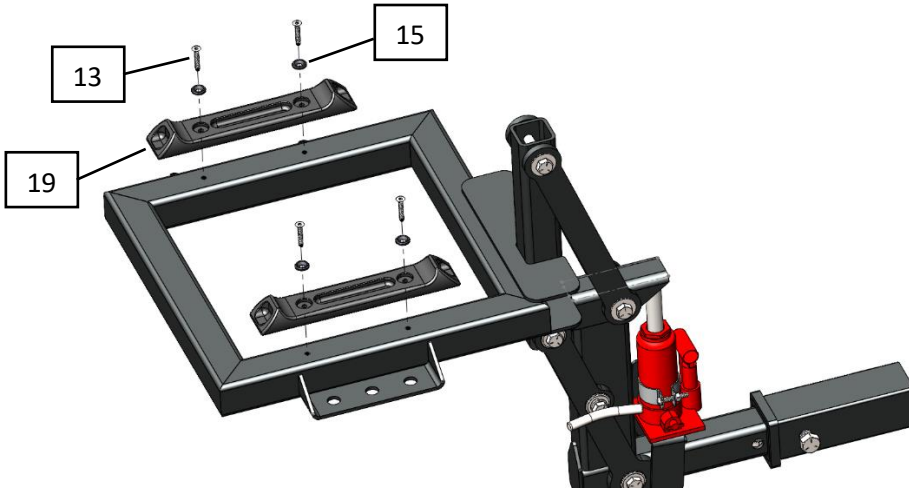
For **REACH** racks please continue to page 11.

For **ROGUE** racks please skip ahead to page 12.

For **RX** racks please skip ahead to page 13.



REACH CRADLE INSTALLATION



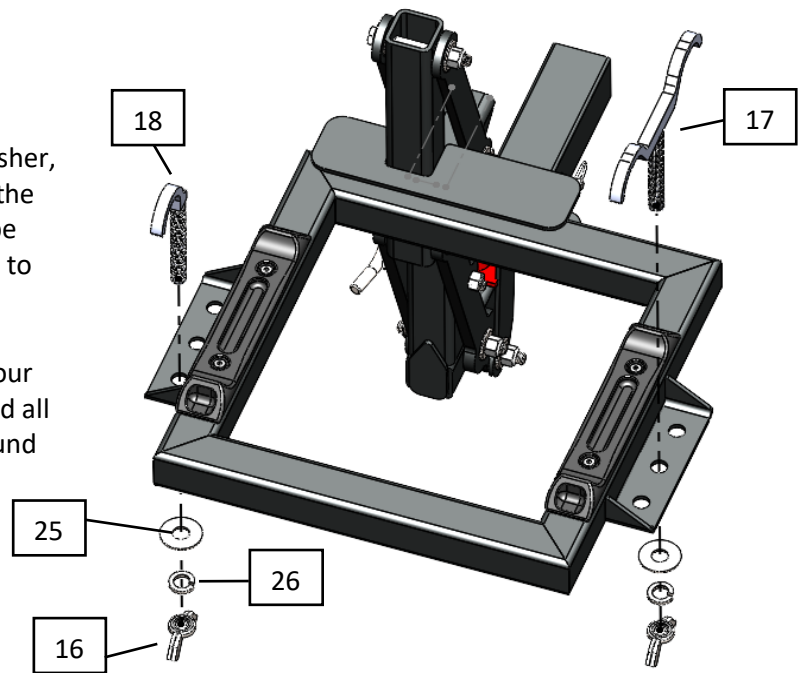
Step 13.1

Attach the two plastic cradles to the platform. Place the plastic cradle on the platform, then insert the Ti washers into the holes as shown. Using the Allen wrench, screw the M6 Flathead Machine Screws into the platform. Tighten the screws until snug but not overly tight. Ensure the plastic cradles do not shift when pushed.

Step 14.1

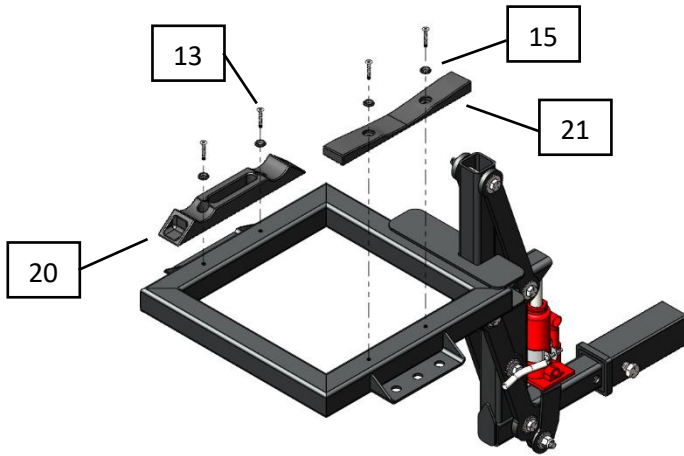
Insert the hooks into their respective holes as shown. To the bottom of the hooks add the washer, lock washer and then screw the wing nut onto the threaded portion of the hooks. These need to be tightened snugly when a bike is being mounted to the hauler.

Congratulations, you are almost ready to use your Bowhead Hauler, but before you do, please read all the safety instructions and user instructions found on page 14.





ROGUE CRADLE INSTALLATION



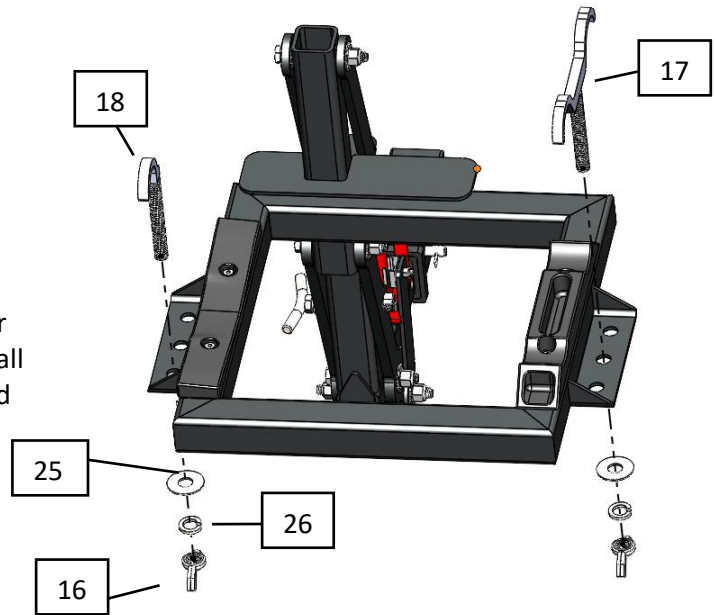
Step 13.2

Attach the two plastic cradles to the platform. Use care to ensure the correct cradle is used on each side. Place the plastic cradle on the platform, then insert the Ti washers into the holes as shown. Using the Allen wrench, screw the M6 Flathead Machine Screws into the platform. Tighten the screws until snug but not overly tight. Ensure the plastic cradles do not shift when pushed.

Step 14.2

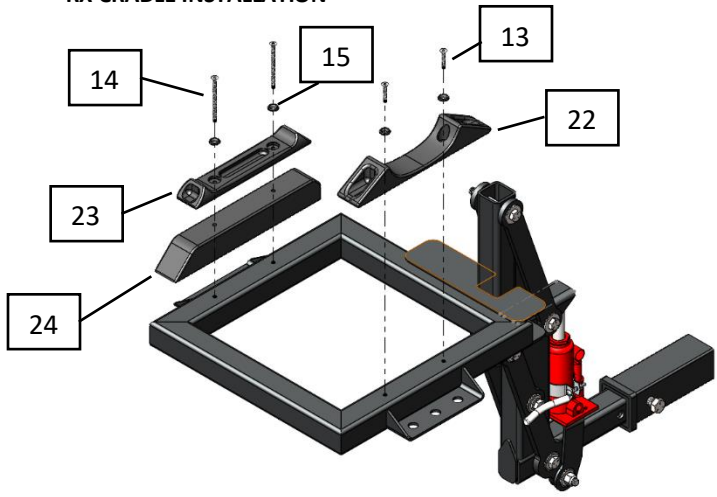
Insert the hooks into their respective holes as shown. To the bottom of the hooks add the washer, lock washer and then screw the wing nut onto the threaded portion of the hooks. These need to be tightened snugly when a bike is being mounted to the hauler.

Congratulations, you are almost ready to use your Bowhead Hauler, but before you do, please read all the safety instructions and user instructions found on page 14.





RX CRADLE INSTALLATION

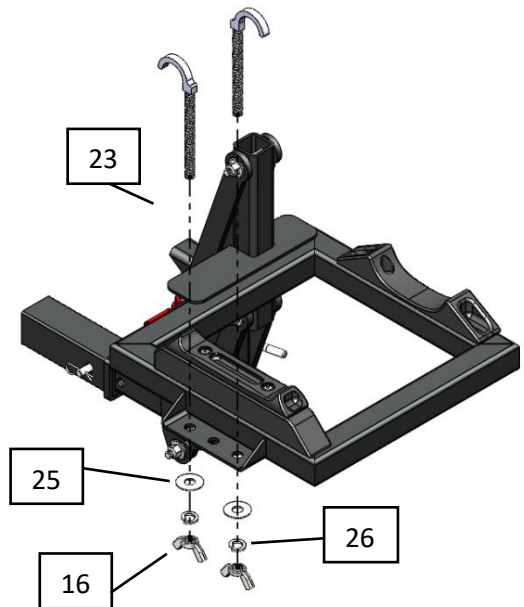


Step 13.3

Attach the two plastic cradles to the platform. **Ensure the cradles and plastic spacer are used on the correct sides as shown.** Place the plastic cradle on the platform, then insert the Ti washers into the holes as shown. Using the Allen wrench, screw the M6 Flathead Machine Screws into the platform. Tighten the screws until snug but not overly tight. Ensure the plastic cradles do not shift when pushed.

Step 14.3

Insert the hooks into their respective holes as shown. To the bottom of the hooks add the washer, lock washer and then screw the wing nut onto the threaded portion of the hooks. These need to be tightened snugly when a bike is being mounted to the hauler.



Step 14.4

Use the tie down strap to secure the rear of the bike. Connect the two straps in an "X" pattern between the bottom of the hauler and the seat post of the bike. Ensure to use the black coated hook on the bike seat post.

Congratulations, you are almost ready to use your Bowhead Hauler, but before you do, please read all the safety instructions and user instructions found on page 14.



Instructions

1. Read all warnings and precautions before use.
2. Install carrier in class three or four vehicle trailer hitch receiver and secure to receiver with 5/8-inch hitch pin and pin retainer.
3. Tighten hitch bolt with suitable wrench.
4. Remove safety pin from carrier.
5. Using jack handle, slowly open bleed valve on jack and allow hauler to drop to its lowest position. Make sure no one is standing behind carrier during this operation to avoid injury.
6. Carefully slide bike onto carrier rack with front of the bike facing the driver's side of the vehicle, with the frame rails of the bike nested into the contoured blocks on the platform.
7. Push the rail clamps through the holes next to the frame rail (one front, one rear) until the clamp fully rests on top of the frame rail.
8. Add flat washers, then lock washers, and then wing nuts onto the clamp shafts and tighten securely. Make sure lock washers are compressed.
9. Close bleed valve on jack and jack up the carrier rack to full up position. Also, if you are getting "bleed by" when operating the hydraulic jack (this sometimes occurs due to shipping or storage of the unit with the jack in a non upright position) you can bleed the air from the jack by opening the valve on the jack and operating the lever about 15-20 times, and then close the valve and the jack should operate normally (refer to jack manufacturers instructions provided in box with jack for additional bleeding procedures and jack trouble shooting). If bleeding still does not solve the problem, unscrew the jack main shaft extension on or two turns and that usually will solve the problem.
10. Insert and thread in safety pin and tighten securely using jack handle until lower arms are clamped against vertical on 2"x2" receiver assembly and tighten until snug but do not over tighten. Do not omit this step, do not depend only on the jack to hold the load.
11. To lower the bike, first make sure no one is standing on the left side of the bike. Remove safety pin and open jack bleed valve slowly to lower the bike at a controlled rate. Do not open the valve too much or too quickly or the bike will slam down uncontrollably and could cause injury or death. Sometimes it may be necessary to apply slight downward pressure on the bike to get it started moving at the top of the arc, applying upward pressure may dislodge the jack from its position and should be avoided. It can be difficult to begin lowering the bike at the top of the arc if some or all the pivot bolts are too tight (pivot bolts should be adjusted to zero clearance or free play, but they do not need to be overly tightened). Also, if jack platform pivot bolts are too tight, the bottle jack retaining clamp may bend and the jack may not stay positioned properly on the jack platform.
12. Remove the rail clamps and remove the bike from the carrier rack.



Warnings and Precautions

1. Ensure the bike does not obscure the driver's rearward vision while they are operating the vehicle.
2. Taillights of the vehicle must not be obscured.
3. Do not overload the vehicle or trailer receiver load capabilities.
4. Check all carrier nuts and bolts for proper tightness before each use and every one hundred miles thereafter. Also, check for any cracks on welds and all other steel parts prior to each use. Nuts on pivot points should be adjusted to zero clearance or free play. If lock washers on rail clamp shafts become worn or loose their spring tension, they must be replaced.
5. This rack is designed for typical use and applications (on paved or smooth gravel roads). Do not use this rack on a vehicle that will be driven on rough roads or where the rack (and bike) will be subject to significant or constant jarring and/or shock, or any vehicle with very stiff springs that will transfer the load shock directly to the rack and bike.
6. Proper lifting and installation of this carrier to your specific vehicle is critical and is not the manufacturer's responsibility.
7. Improper use of this product may result in damage to your carrier, your vehicle, your bike, and vehicles driving behind you.
8. The purchaser should be aware that the load created by a carrier and bike can exceed the maximum rating on the hitch and/or vehicle.
9. Never transport with carrier rack in any position other than the full upright position, and with safety pin installed and tightened securely.
10. Make sure the bike is securely attached to carrier rack before jacking up the rack.
11. Safety pin must be installed after carrier rack is raised to full upright position and prior to transport.
12. Use the jack handle to securely tighten safety pins.
13. Always tighten hitch-stabilizing bolt with suitable wrench prior to loading bike on carrier and insert safety pin clip.
14. When lowering or raising carrier rack, the operator must stand between vehicle and bike. Keep hands, feet, and arms away from all moving parts while jack is in operation.
15. Do not allow anyone to stand on the left side of bike during the raising or lowering operation. The bike could drop quickly causing serious injury or death to anyone standing on the left side of bike (behind the carrier rack).
16. When lowering the bike, open jack bleed valve very slowly to control the rate with which the bike is lowered. Failure to do so could result in the bike lowering very rapidly and in an uncontrollable manner resulting in injury or death. Ensure no one is standing on the left side of the bike during this process.
17. Check tightness of clamp shaft wing nuts and safety pin after first ten miles of transport and every one hundred miles thereafter.



Maintenance

- Before each use check all nuts and bolts for proper tightness and check for any cracks on all welds and steel parts including the rail clamp shafts. Also, check for any bending of any steel parts.
- Lubricate threads on clamp shafts, safety pin, and hitch pin with light oil. Also lubricate the lifting shaft and small pumping shaft on the bottle jack with oil.
- Store carrier in upright position to prevent air from entering bottle jack.
- If powder coat should be scratched off of any part of carrier, remove any rust and touch up any bare spots with suitable non-water-based paint.

REMEMBER, THIS IS A PERFORMANCE PRODUCT, USE AT YOUR OWN RISK

Do not use this product until you have carefully read the following agreement. This agreement sets forth the terms and conditions for use of this product. The installation of this product indicates that the buyer has read and understands all precautions, user instructions, and this agreement and accepts the terms and conditions.

DISCLAIMER OF LIABILITY

Bowhead, its distributors, jobbers, and dealers (hereafter Seller) shall be in no way responsible for the products proper use and service.

THE BUYER HEREBY WAIVES ALL LIABILITY CLAIMS.

The Buyer acknowledges that he is not relying on the Sellers skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof, and the Buyer hereby waives all remedies or liabilities expressed or implied, arising by law or otherwise, (including without any obligation of the Seller with respect to fitness, merchantability and consequential damages) or whether or not occasioned by the Seller's negligence.

The Seller disclaims any warranty and expressly disclaims any liability for personal injury or damages. The Buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the Buyer agrees to indemnify the Seller and to hold the Seller harmless from any claim related to the item of the equipment purchases. Under no circumstances will the Seller be liable for and damages or expenses by reason of use or sale of any such equipment.

The Seller assumes no liability regarding the improper installation or misapplication of its products. It is the installer's responsibility to check for proper installation and if in doubt contact the manufacturer.

The Buyer is solely responsible for all warranty issues from the manufacturer.