

J EXPANSION RACK

Model # 44-0144



PARTS LIST	
Qty	Part Name
2	Expansion J-Rack
2	Tie Down Strap
2	Bow & Stern Tie Down
4	Underside Bracket
8	SS Bolt Set (60mm)
8	SS Bolt Set (75mm)
8	SS Plastic T-Knob
8	SS Washer

Holds up to 80lbs.



2 INCLUDED



**MOUNTING
HARDWARE**



**TIE DOWN
STRAPS**




**BOW & STERN
TIE DOWNS**

Rev. 4.21

SAFETY INFORMATION

SuspENZ® is very serious about safety. It is critical that you properly secure this rack to your vehicle. Failure to do so could result in serious bodily injury or property damage. Before assembly read the complete manual. Be sure that you have all the parts and that they are not damaged in any way. Do not modify the rack or the mounting hardware in any manner. Check to make sure that both the rack and watercraft are secure before driving. Periodically inspect the rack and all parts for signs of wear or damage.

 This symbol in the instructions indicates an important warning. Please heed these warnings.

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NOTE: The *J Expansion Roof Rack* is an add-on piece to an existing *Suspenz Adjustable J-Rack Roof Carrier* (SKU 44-0143) mounted on a vehicle. It converts the existing *Roof Carrier* in to a *Suspenz Double J-Rack Roof Carrier*. It is also compatible with J Type Racks from other manufacturers as long as the arm of the rack is in a fully vertical position. It is also compatible with "Stacker Bars". The *J Expansion Roof Rack* cannot be used by itself.

With this addition, two watercraft can be transported on the roof of a vehicle.

Install Racks on Vehicle

This carrier mounts to an existing crossbar on your vehicle. *Suspenz* carriers are compatible with factory mounted crossbars and with after market crossbars.



The crossbars must be spaced a minimum of 24" apart.



Do not exceed the vehicle manufacturers rated loading for roof racks shown in the owners manual.

*For factory installed crossbars add the combined weight of these *Suspenz* roof racks (7.5 lbs. for the set of two) to the weight of your existing J-Racks to the weight of your watercraft and compare to the allowable load in the vehicle owners manual.*

For after market crossbars also add the weight of the crossbars before comparing to the allowable load in the vehicle owners manual.

STEP 1: Prepare Existing J-Rack

- Start by setting the arm of the existing J-Rack in its' vertical locked position (Fig. 1).



STEP 2: Mount the *J Expansion Rack* on the backside of the existing rack.

- 60mm and 75mm bolts are supplied. Select the longer bolts for thick crossbars and the 60mm bolts for thin crossbars.
- Insert 2 bolts in the J-Rack as shown. Put an underside bracket on each bolt (you may need to push a little). Secure loosely with a washer and T-Knob.
- Place the J-Rack on the back crossbar of the vehicle (Fig. 2).



NOTE: If the 75mm bolts are not long enough, contact *Suspenz* as 100mm bolts are available.

STEP 2 (CONTINUED): Mount Brackets on *J Expansion Rack*

- Swing the brackets around, push bolts into the brackets, and secure with a washer and T-Knob (Fig. 3).



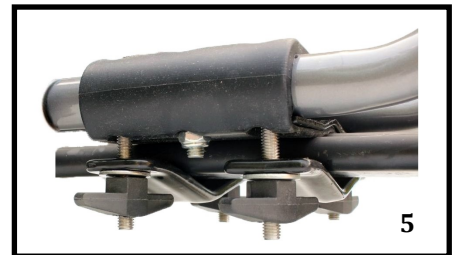
STEP 3: Position the *J Expansion Rack*

- The *J Expansion Rack* can be moved along the crossbar to best fit the watercraft on the backside of the *Adjustable J-Rack* (Fig. 4).
- Sliding the *J Expansion Rack* so it contacts the *Adjustable J-Rack* creates a backside with the same dimensions as the front side.
- Moving the *J Expansion Rack* away from the *Adjustable J-Rack* can aid in accommodating watercraft with larger cross sections.



STEP 4: Fully tighten all four T-Knobs by hand (Fig. 5)

- Switch between the T-Knobs during tightening so that each bolt protrudes from the knob by the same amount
- If the bolts protrude too far such that they may damage the vehicle roof when the crossbar flexes, change to shorter bolts.



The T-Knobs must fully engage each of the four bolts. Check to make sure each bolt sticks through the nuts in the T-Knobs. If they do not, switch to the longer 75mm bolts (supplied). If these are still too short, contact Suspenz for 100mm bolts.



*After fully tightening the T-Knobs, try sliding and twisting the *J Expansion Rack* on the crossbar. If the *J Expansion Rack* moves or twists retighten the T-Knobs to eliminate this play.*

STEP 5: Repeat steps 1-4 for the second *J Expansion Rack*.

- Mount all Racks so they are aligned along the length of the vehicle.



*The *Adjustable J-Racks* must not extend beyond the width of the vehicle.*

Removal of J Expansion Rack

Remove the Racks when not being used.

- On each of the four components:
 - Loosen all four T-Knobs.
 - Remove two of the T-Knobs from one side of the Rack and rotate the brackets to free the rack.
 - Reattach washers and T-Knobs so they do not get lost.



Always remove the Double J-Racks before going through a carwash.

Loading and Securing

Watercraft can be loaded on either the frontside or the backside rack first. These instructions show the first watercraft going on the front side.

STEP 5: Prepare Straps and Load Watercraft

- Verify the rotating arm on the *Adjustable J-Rack* is in the vertical position.
- Loop tie down strap around top of each arm (Fig. 6)
- Place watercraft on racks with the cockpit facing out. Center watercraft fore-aft on the crossbars.
- Watercraft should rest on the conformal rubber pads. The pads can be moved along the frame to customize the fit. Use a rotating motion to move the pads.



STEP 6: Strap the Watercraft to Vehicle

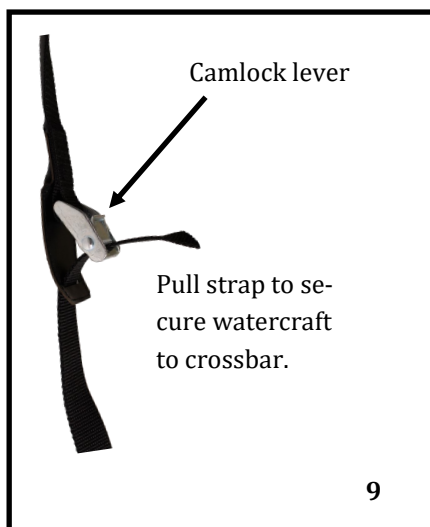
- From backside of watercraft, toss strap ends over the watercraft. Take care with the buckle end to hold it about a foot from the buckle so buckle does not hit vehicle (Fig. 7).
- From frontside of watercraft, thread the strap around the crossbar such that the strap is inside the *Adjustable J-Rack* base loop (Fig. 8).
- Depress the camlock lever on the buckle and thread end of strap through buckle from the underside (Fig. 9).
- Ensure the fabric buckle protector sits against the watercraft then pull down on free end of the strap to tighten (Fig. 10).



Pro Tip: Putting a couple twists in the strap can reduce noise due to strap hum



It is important that the straps loop around the crossbar so that the watercraft is secured to the crossbar.



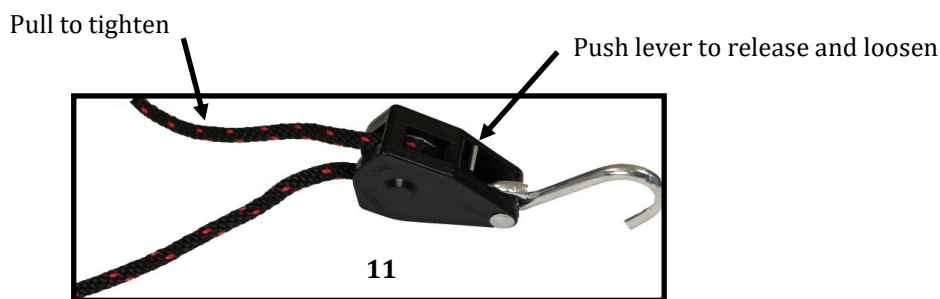
Repeat step 6 for the second Double J-Rack.

STEP 7: Strap Second Watercraft to Vehicle

Repeat Steps 5 and 6 to load and strap down a second watercraft.

STEP 8: Attach Bow & Stern Tiedowns

- Push the lever down to release the rope and lengthen the distance between the hooks (Fig. 11)
- Attach one hook to a secure point near the bow of the watercraft. Attach the other hook end to the metal frame of the vehicle. Tighten by pulling on the loose end of the rope.
- Repeat for the stern of the watercraft. (Fig. 12)
- Attach the Bow & Stern Tiedowns to the second watercraft.



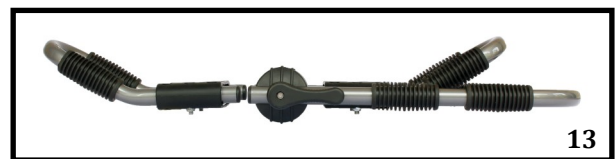
The Bow & Stern tiedowns must connect to metal not plastic on the vehicle.



Use caution when tightening Bow & Stern tiedowns as over-tightening can deform the watercraft.



The Adjustable J-Racks can be lowered when not in use (Fig. 13).



These instructions cover the installation and use of Suspenz Roof Rack Carriers. It is important to read & understand the requirements and limitations of the roof rack on the vehicle and the operating instructions for the vehicle.

Installation, maintenance and use must comply with product and vehicle instructions. It is important to securely mount these Roof Rack Carriers and to adequately secure the load to the Vehicle. Failure to do so can result in the racks and/or load coming loose during travel causing a serious accident.

Suspenz is not responsible for the installation, condition, or security of after market roof racks and crossbars.

Crossbar attachment points must be spaced a minimum of 24" apart along the length of the vehicle.

Modification of the Suspenz mounting hardware and carriers is not safe, not permitted, and will void the warranty.

Be aware that during transportation ropes and straps can stretch and shift. In addition, attachment hardware can loosen. Check and tighten straps, ropes, and hardware at the start of a trip and at intervals along the way. These intervals can depend on distance travelled, speed, weather (rain and wind), severity of terrain.

If you have stopped and left your vehicle unattended, inspect the security of the load for possible damage by others.

Do not exceed the maximum loads specified for the vehicle roof, the roof racks, or this Suspenz Carrier.

Water can add significant weight to watercraft, exceeding the load capacity of racks, carriers, and vehicle roof.

- Before loading a watercraft on the Carriers, empty all water that may have entered into hatches and bulkhead areas.
- During and after rain, check the load to verify water has not become trapped. Empty all trapped water.

Supplied straps must be used (according to instructions) on each Carrier along with the supplied Bow & Stern straps to secure the load.

Loads attached to the roof of the vehicle can affect the handling characteristics of the vehicle (steering, braking, and cornering, for example). This is especially true in areas of high side winds.

Do not take the roof rack carriers through an automated carwash. Remove the roof rack carriers first.

Be aware of the total height of the carriers and watercraft. Be sure there is adequate clearance before entering a garage, carport, fast food drive through or other area of restricted height.

Maintain the roof rack carrier using fresh water and mild cleaning solutions. Do not use bleach, ammonia, or alcohol solutions which can damage the plastic and rubber parts.

In saltwater environments, rinse off the salt spray with fresh water.

Do not use these Roof Rack Carriers for the storage of your Watercraft.