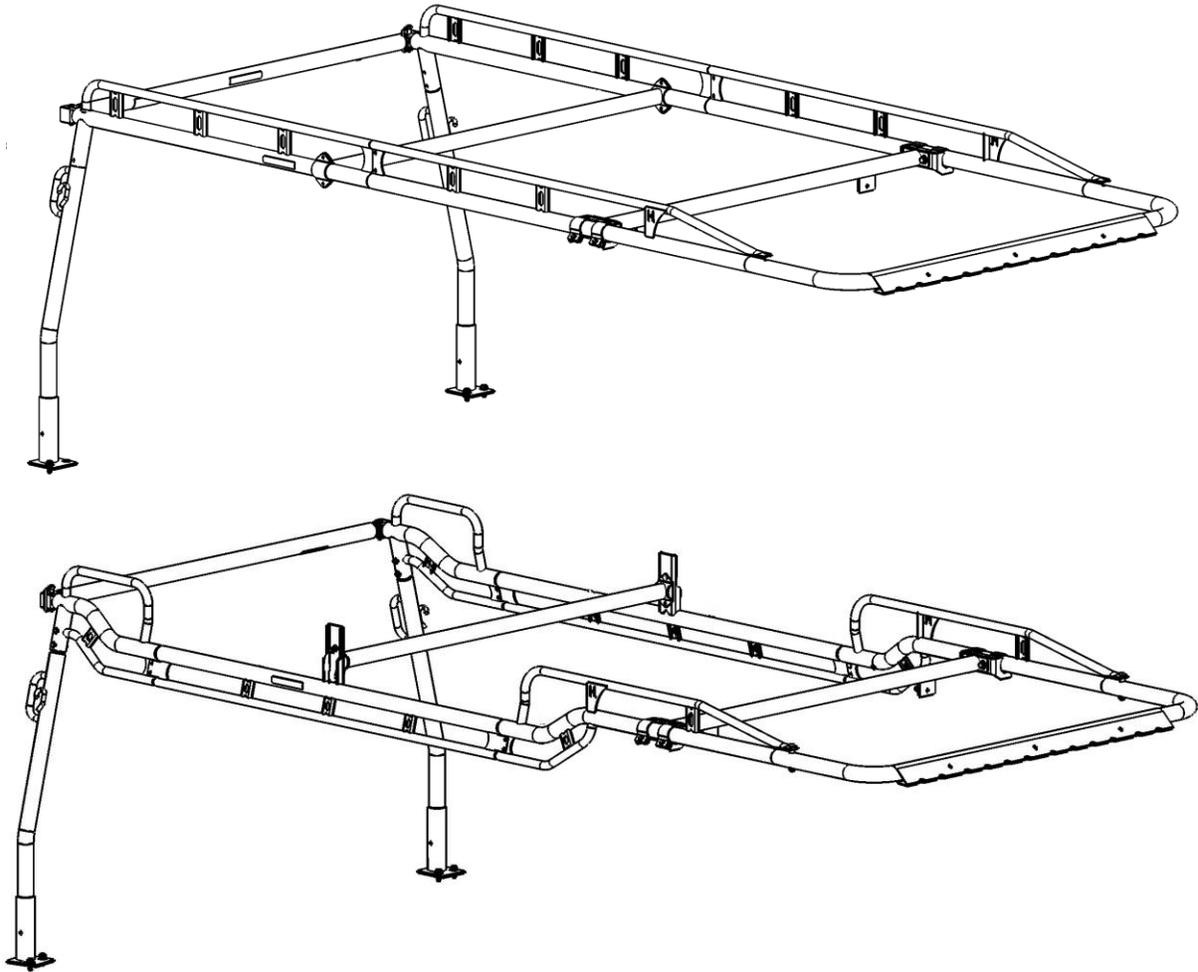


Holman

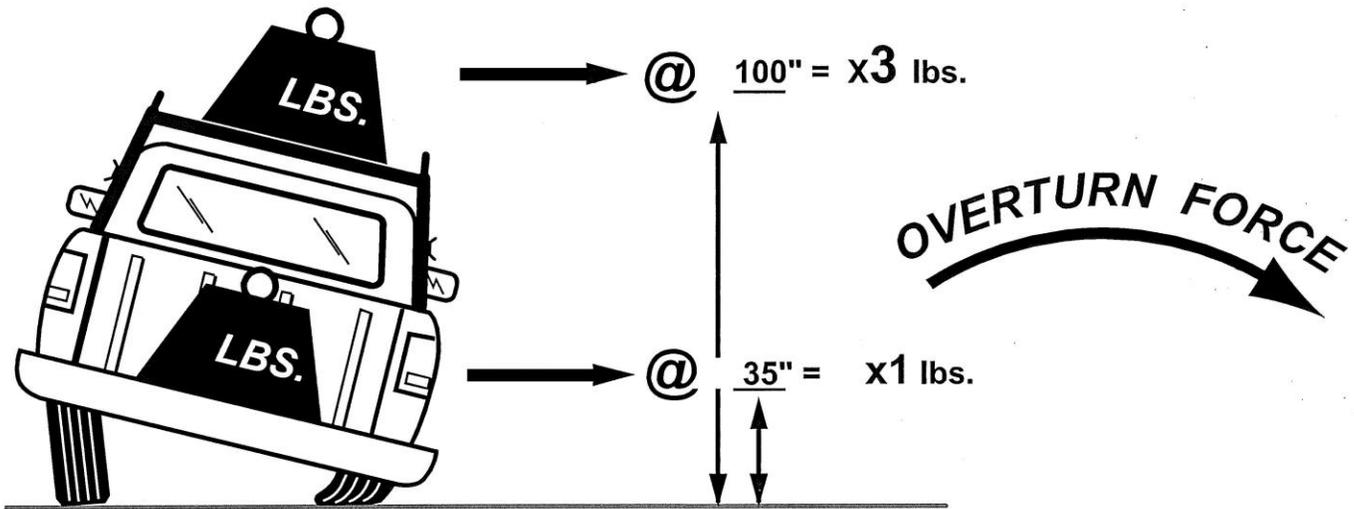
Installation Guide The Pro Rack Platform Body Rack



Holman
Rancho Cordova, CA 95742
800-343-7486

InstallationSupport@Holman.com

DON'T OVERLOAD YOUR VEHICLE!



WEIGHT CARRIED ABOVE THE FLOOR OF THE TRUCK BED (E.G. ON AN OVERHEAD TRUCK RACK) WILL SIGNIFICANTLY INCREASE THE VEHICLE'S TENDENCY TO OVERTURN. ALWAYS KEEP HEAVY LOADS EVENLY DISTRIBUTED AND AS LOW AS POSSIBLE. IT IS IMPORTANT TO NOTE THAT THE KARGO MASTER RACK LOAD BEARING CAPACITY MAY BE GREATER THAN YOUR TRUCK'S GAWR OR GVWR CAPACITY, AND IS PROBABLY GREATER THAN THE WEIGHT THAT CAN BE SAFELY CARRIED OVERHEAD. RETIGHTEN ALL BOLTS AFTER FIRST USE, PERIODICALLY CHECK BOLTS FOR TIGHTNESS.

For TECHNICAL SUPPORT Call:

1.800.343.7486

Monday-Friday, 7AM - 4 PM (PST)

www.Holman.com

PLEASE READ ALL INSTRUCTIONS AND WARNINGS PRIOR TO ASSEMBLING, INSTALLING, AND USING THIS PRODUCT.

Warning



Always check for wires, fuel tanks and lines, brake lines and other important vehicle functionality items prior to drilling and installing all products.



ALWAYS DISCONNECT BATTERY FROM VEHICLE PRIOR TO PERFORMING ANY WELDING TO FRAME OR BODY.



Too much weight will greatly reduce the stability of your vehicle. Holman makes no representation or warranty as to the amount of weight your vehicle can safely carry. For guidance, we recommend that you consult the vehicle manufacturer. **AT NO TIME SHOULD THE WEIGHT OF THE VEHICLE, RACK, DRIVER, PASSENGERS AND CARGO LOADED ON A HOLMAN RACK EXCEED EITHER THE GROSS VEHICLE WEIGHT RATIO (GVWR) OR THE GROSS AXLE WEIGHT RATIO (GAWR) AS SPECIFIED BY THE VEHICLE MANUFACTURER.**



Do not use your rack with the rear cross bar removed. Removal of rear crossbar will affect structural integrity of the rack.



Secure all payloads properly for safe transportation.



A large area is required to assemble rack. Be sure to keep area clear of trip and fall hazards.

Tools Needed

1/2", 9/16", 3/4" Box Wrenches	1/2", 9/16", 3/4" Socket Wrench
3/16", 5/16" Allen Wrench	5/8" Deep Socket Wrench
1/2"-13 Tap Wrench	#2 Phillips Head Screwdriver
3/8", 7/16", 1/2" Drill Bits	Drill
Center Punch	Hammer
Gloss Black Spray Paint	



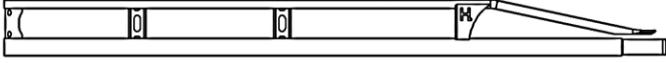
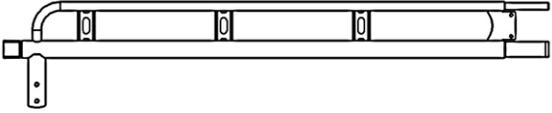
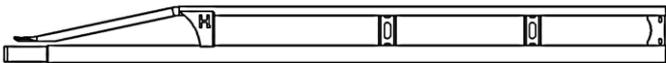
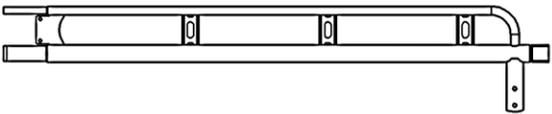
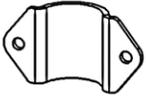
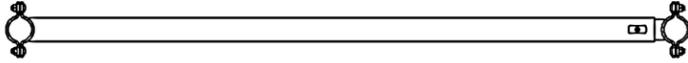
Before You Begin

- Read all instructions carefully, and follow each step in proper sequence, for ease and speed in assembling your rack.
- These instructions cover both the forklift loadable and standard versions of the platform body rack.
- **PROPER SEALANT APPLICATION IS CRITICAL TO PREVENTING WATER PENETRATION INSIDE THE RACK.** Apply a healthy bead of sealant entirely around every swaged joint and every bolt going through tubing. Improper sealing can lead to water penetration and rust on inside surfaces.

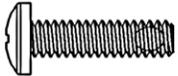
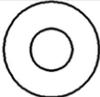
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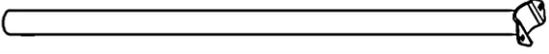
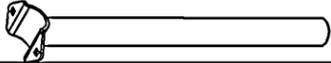
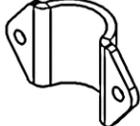
Standard Side Channel Parts List

NO.	ITEM	KIT: AND/OR PART NUMBER	DESCRIPTION	QTY.
1		12101: 101529 OR 12102: 101564 OR 12103: 101579	SIDE CHANNEL, FRONT PS RH	1
2		12101: 101531 OR 12102: 101568 OR 12103: 101626	SIDE CHANNEL, REAR PS RH	1
3		12101: 101530 OR 12102: 101565 OR 12103: 101580	SIDE CHANNEL, FRONT DS LH	1
4		12101: 101532 OR 12102: 101569 OR 12103: 101627	SIDE CHANNEL, REAR DS LH	1
5		101572	MTG BRKT CLAMP	2
6		12103: 31110	EXTRA CROSSBAR	

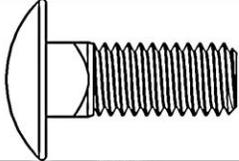
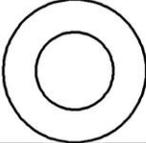
Wind Deflector Hardware

ITEM	HARDWARE TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		0149489	10-32 X 3/4" PAN HEAD SCREW	3
2		33074	#10 FLAT WASHER	3

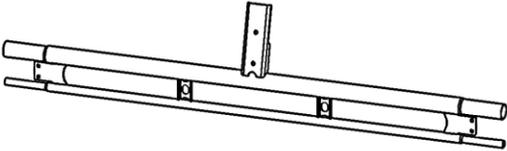
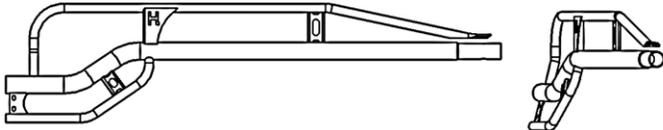
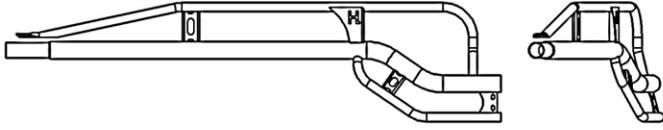
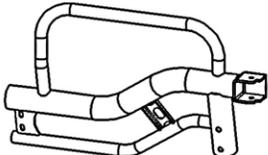
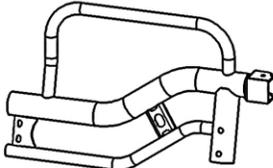
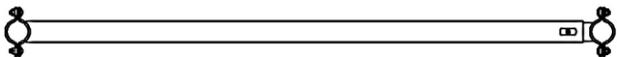
Extra Crossbar Parts List

NO.	ITEM	PART NUMBER	DESCRIPTION	QTY.
1		13-00306	2" BAR ASSY, QUICK CLAMP	1
2		13-00305	1 3/4" BAR ASSY, QUICK CLAMP	1
3		101572	MTG BRKT CLAMP	2
4		18-31110	HARDWARE KIT	1

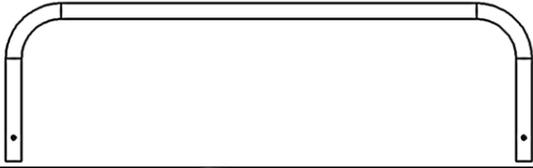
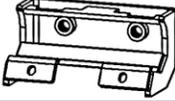
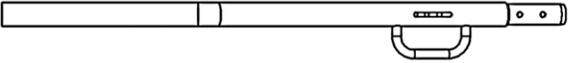
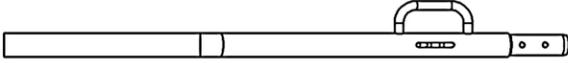
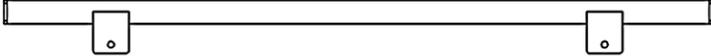
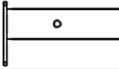
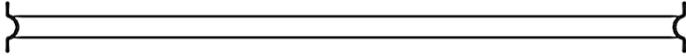
Extra Crossbar Hardware

ITEM	HARDWARE TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		74436	3/8-16 X 1" CARRIAGE BOLT	4
2		0135144	3/8"-16 x 3/8" SET SCREW	1
3		0159723	3/8" FLAT WASHER	4
4		-	3/8"-16 JAM NYLOCK NUT	4

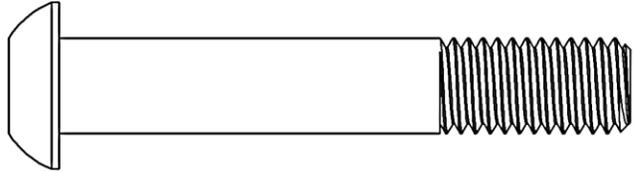
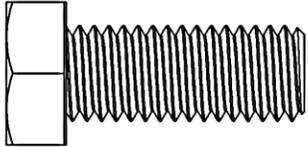
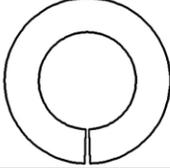
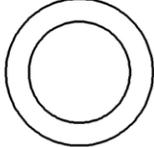
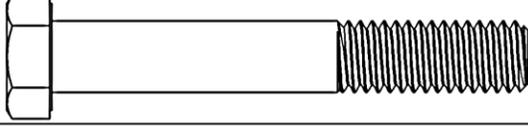
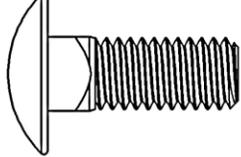
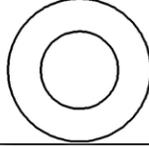
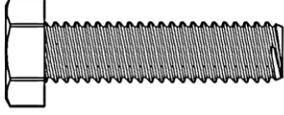
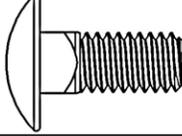
Forklift Loadable Side Channel Parts List

NO.	ITEM	KIT: PART NUMBER	DESCRIPTION	QTY.
1		12200, 12201: 101218 OR 12202, 12203, 12204: 101193 OR 12205, 12206: 101172	EXTENSION SIDE CHANNEL, 52"	2
2		12200, 12203, 12206: 101224 OR 12201, 12204: 101693 OR 12202, 12205: 101144	FRONT SIDE CHANNEL. MULTIPOSITION, RH, PS	1
3		12200, 12203, 12206: 101225 OR 12201, 12204: 101692 OR 12202, 12205: 101149	FRONT SIDE CHANNEL. MULTIPOSITION, LH, DS	1
4		101163	REAR LEG CHANNEL, RH PS	1
5		101166	REAR LEG CHANNEL, LH DS	1
6		12200, 12201, 12203 12204, 12206: 31110	PRO II EXTRA CROSSBAR	1

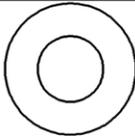
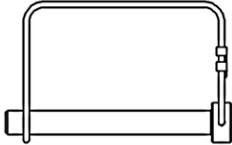
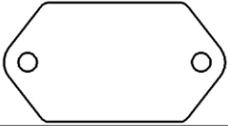
Leg and Bar Kit Parts List

NO.	ITEM	PART NUMBER	DESCRIPTION	QTY.
1		11-00004	FRONT TUBE FS	1
2		101220	CROSSBAR STRAPPING BRACKET	2
3		101200	SIDE CHANNEL CLAMP	4
4		101170	REAR TAKE-OUT BAR, 64.5"	1
5		101600	PLATFORM BODY REAR LEG, PRO RACK, LH DS	1
6		101602	PLATFORM BODY REAR LEG, PRO RACK, RH PS	1
7		101604	PLATFORM BODY FRONT CROSSBAR, PRO RACK	1
8		13-00827	PLATFORM BODY REAR FOOT	2
9		101669	PRO RACK CENTER CROSSBAR ASSEMBLY	1
10		101415	WIND DEFLECTOR, 52", 2" TUBING, STEEL	1
11		101404	WIND DAMPENER STRAP FASTENER	3
12		18-12005	HARDWARE KIT	1

Hardware Kit (18-12005)

ITEM	HARDWARE TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		42KD91	1/2"-13 X 3" BUTTON HEAD CAP SCREW	4
2		11241228	1/2"-13 X 1-1/4" HEX HEAD BOLT	10
3		1133626	1/2" LOCK WASHER	10
4		11137086	1/2" STEEL FLAT WASHER, NARROW PROFILE	22
5		37695	1/2"-13 THIN LOCKING JAM NUT	10
6		11241202	3/8"-16 X 2-1/2" HEX HEAD BOLT	5
7		0155062	3/8"-16 X 1" CARRIAGE BOLT	4
8		0159723	3/8" FLAT WASHER	14
9		37691	3/8"-16 THIN LOCK NUT	9
10		11241180	5/16"-18 X 1-1/4" HEX HEAD BOLT	4
11		21810	5/16"-18 X 3/4" CARRIAGE BOLT	8

Hardware Kit (Continued)

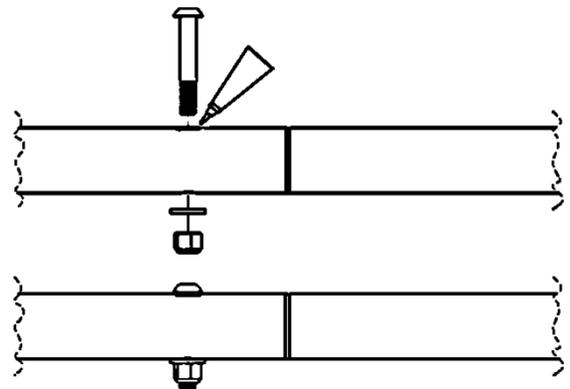
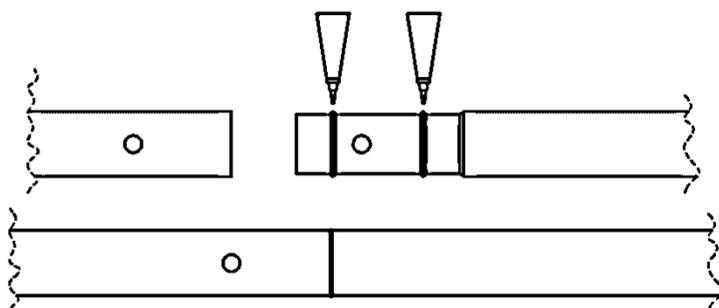
ITEM	HARDWARE TO SCALE	PART NUMBER	DESCRIPTION	QTY.
12		33080	5/16" FLAT WASHER	12
13		37521	5/16"-18 LOCK NUT	8
14		11104019	5/16-18 FLANGED NYLOCK NUT	4
15	 NOT TO SCALE	98416A575	3/8" X 2-7/8" WIRE LOCK CLEVIS PIN	1
16	 NOT TO SCALE	-	CENTER CROSSBAR SHIM	2
17		SEALANT - 100 ML	SELF LEVELING ADHESIVE SEALANT	1
18		18-31571	HARDWARE KIT	1

Sealant Application



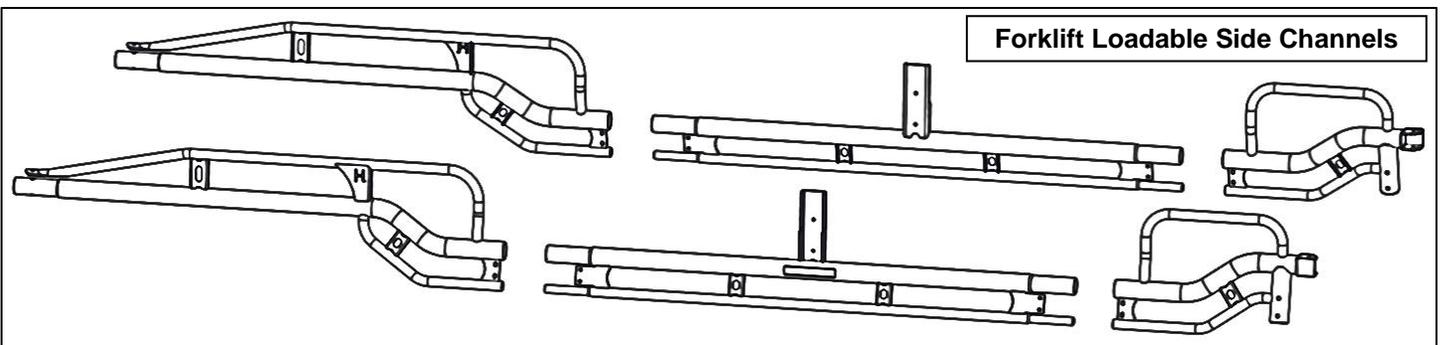
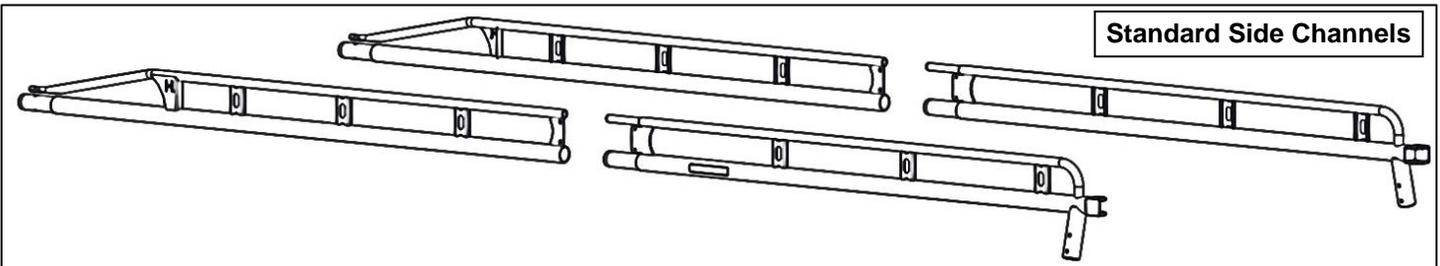
Proper sealant application is critical to preventing water penetration inside the rack.

- Apply a healthy bead of sealant around every swaged joint as shown. Improper sealing can lead to water penetration and rust on inside surfaces.
- Wipe any excess sealant off immediately with a plastic scraper or paper towel. Any smeared sealant can be rubbed off as soon as sealant dries.
- Maintain this seal throughout the life of your rack.

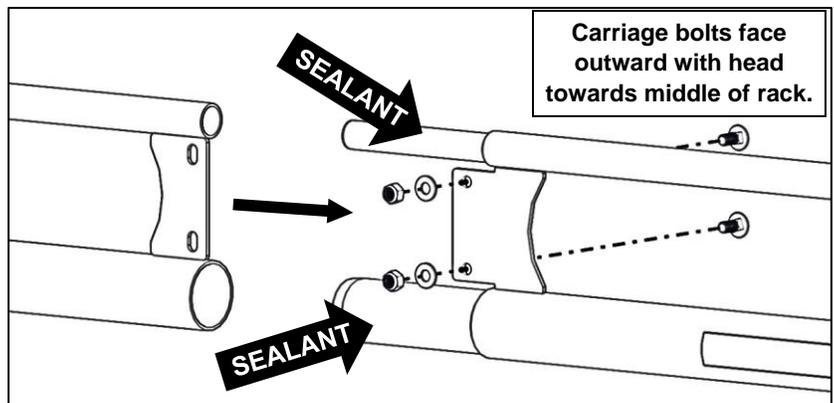


Step 1 – Join Side Channels

- Lay flattened box on ground and use for scratch protection while building rack.
- **Be sure you have correct front and rear side channels paired. Decals and logo face outward.**
- Apply sealant around the swaged ends on both top and bottom swage joints.

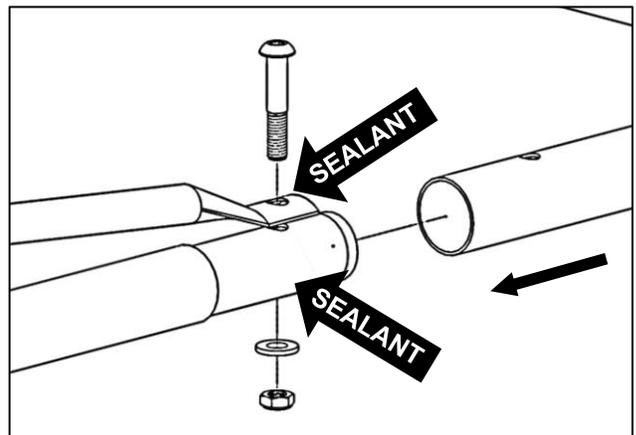


- Insert rear side-channel swaged joints into front side-channel tubes until bolt holes in splice plates align.
- Using 5/16" x 3/4" carriage bolts, 5/16" washers, and 5/16" lock nuts, securely fasten channels together.
- Remove excess sealant.
- Repeat process for opposite side.



Step 2 – Attach Front Tube

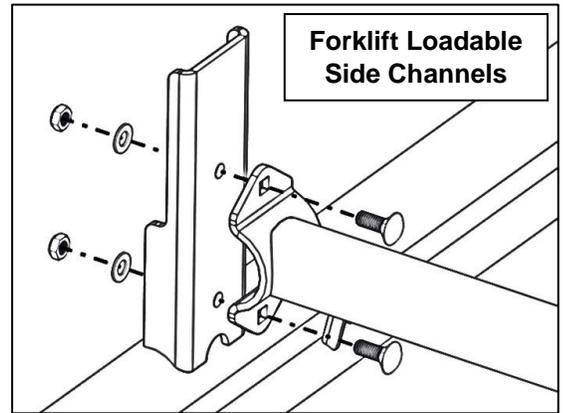
- Apply sealant to front side-channel swaged joint.
- Insert front side-channel swaged joint into front tube until bolt holes in tube and side-channel align.
- Using 1/2" x 3" partially threaded button head screw, 1/2" washer, and 1/2" lock nut, **LOOSELY** fasten front tube to side channel.
- Remove excess sealant.
- Repeat process on opposite side.



Step 3 – Attach Center Crossbar

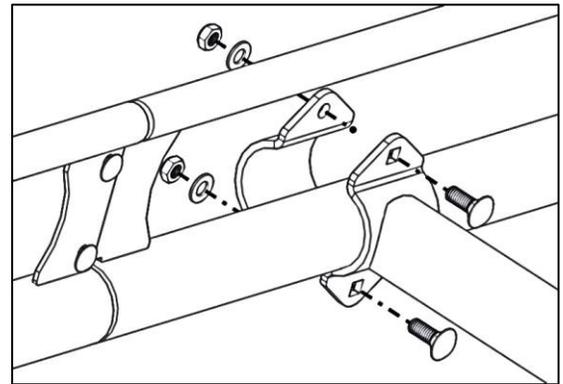
Step 3A – Forklift Loadable Side Channels

- Using two 3/8" x 1" carriage bolts, 3/8" flat washers, and 3/8" thin lock nuts, LOOSELY attach the center crossbar to the crossbar support.
- Repeat on opposite side of rack.
- Snug tighten.



Step 3B – Standard Side Channels

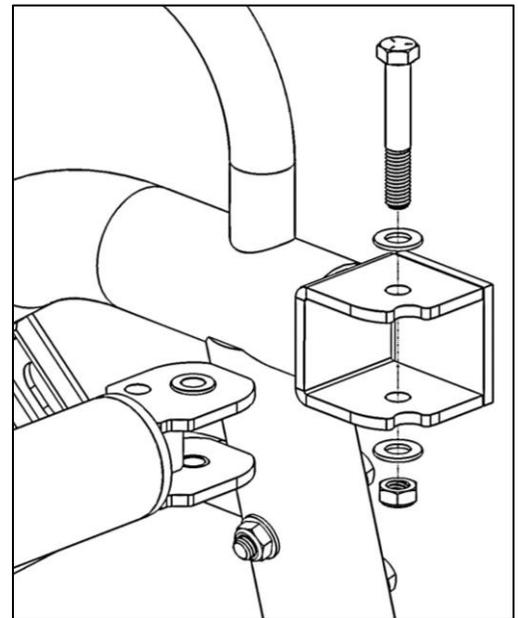
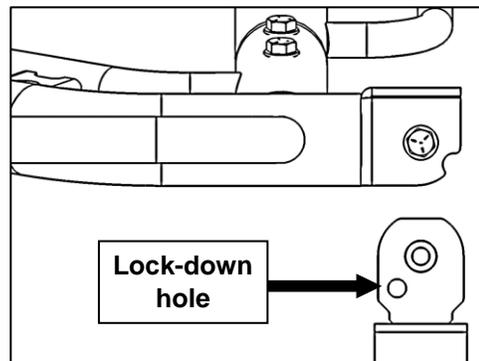
- Position the center crossbar, mid-way between the front and rear crossbars, against the lower 2" side channel tubes.
- Insert two 3/8" x 1" carriage bolts through the square holes on the center crossbar.
- Using two 3/8" flat washers and 3/8" lock nuts, LOOSELY fasten the MTG bracket clamp around the lower tube on each side.
- Repeat on opposite side of rack.
- Snug tighten.



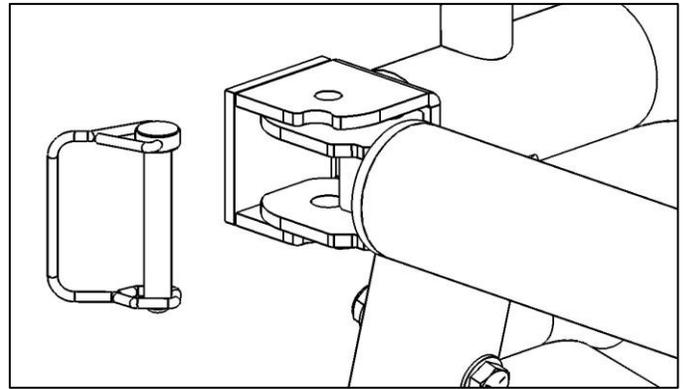
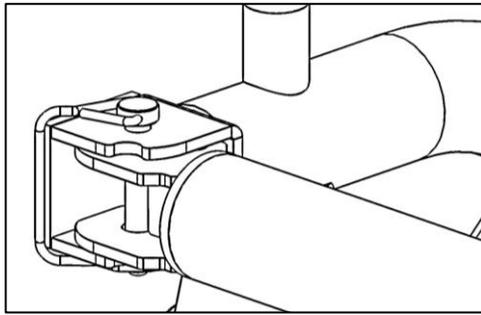
Step 4 – Attach Rear Take-out Bar

NOTE: The rear take-out bar can be installed to open in either direction. One end is bolted and the other side is secured with a removable pin.

- On the side to be bolted, slide end into rear side-channel receiver. **Be sure the second lock-down hole in the end is towards the front of the vehicle.**
- Using a 3/8" x 2-1/2" hex head, two 3/8" washers, and a 3/8" lock nut, bolt the rear take-out bar to the receiver.



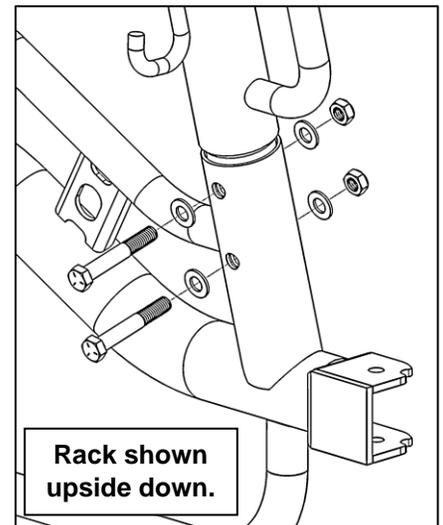
- On opposite side, insert 3/8" lock pin.



Step 5 – Temporarily Attach Rear Legs

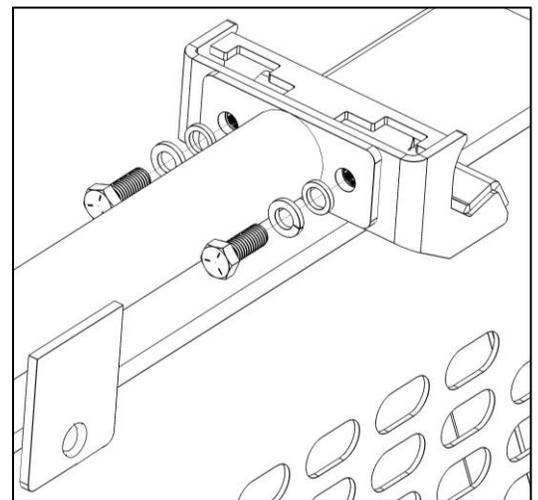
Legs are attached at this point to determine proper leg height. Do not apply sealant.

- Flip rack upside down.
- Insert leg into leg cup until holes in leg and leg cup align. **Be sure to orient leg correctly with side channel, with rope hook away from center of rack.**
- Using two 3/8" x 2-1/2" hex head bolts, four 3/8" flat washers, and two 3/8" lock nuts, fasten leg to leg cup.
- Snug tighten but allow for movement.
- Repeat process on opposite side.

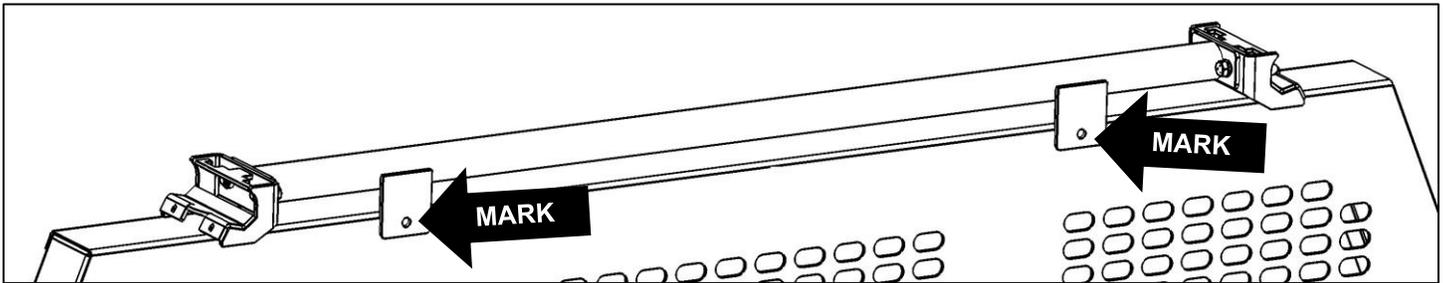


Step 6 – Install Front Crossbar

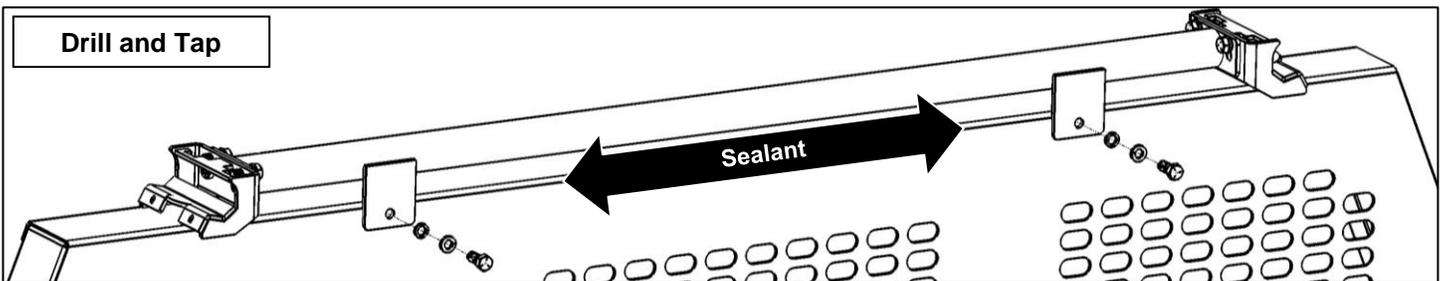
- Using two 1/2" x 1-1/4" hex bolts, two 1/2" lock washers, and two 1/2" flat washers, bolt the front crossbar to the crossbar strapping bracket.
- Snug tighten but allow for movement.
- Repeat for opposite side.
- Place the crossbar assembly on headache rack with flanges against rear of headache rack bulkhead.



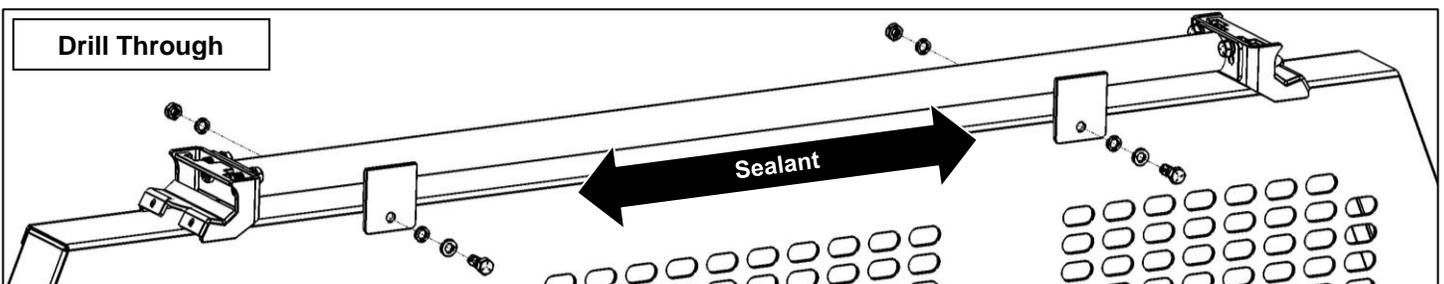
- Mark the location of the front crossbar holes onto the mounting surface.



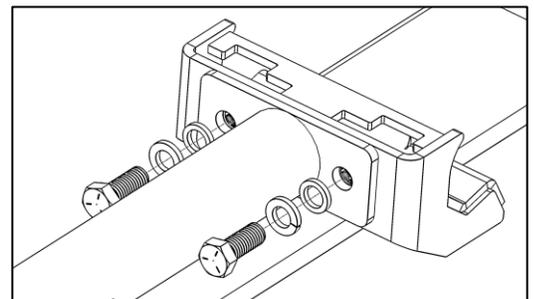
- If mounting directly to top tube of headache rack, do the following.
 - Drill a 7/16" hole through at each of locations marked on the forward mounting surface or headache rack.
 - Tap each hole to a 1/2"-13 thread.
 - Apply sealant around hole.
 - Using two 1/2" x 1-1/4" bolts, two 1/2" lock washers, and two 1/2" flat washers, secure the front crossbar to the bulkhead.



- If mounting to a thin flat surface, do the following.
 - Drill a 1/2" hole through bulkhead at each of the marked locations.
 - Apply sealant around hole.
 - Using two 1/2" x 1-1/4" bolts, two 1/2" lock washers, and four 1/2" flat washers, secure the front crossbar to the bulkhead.



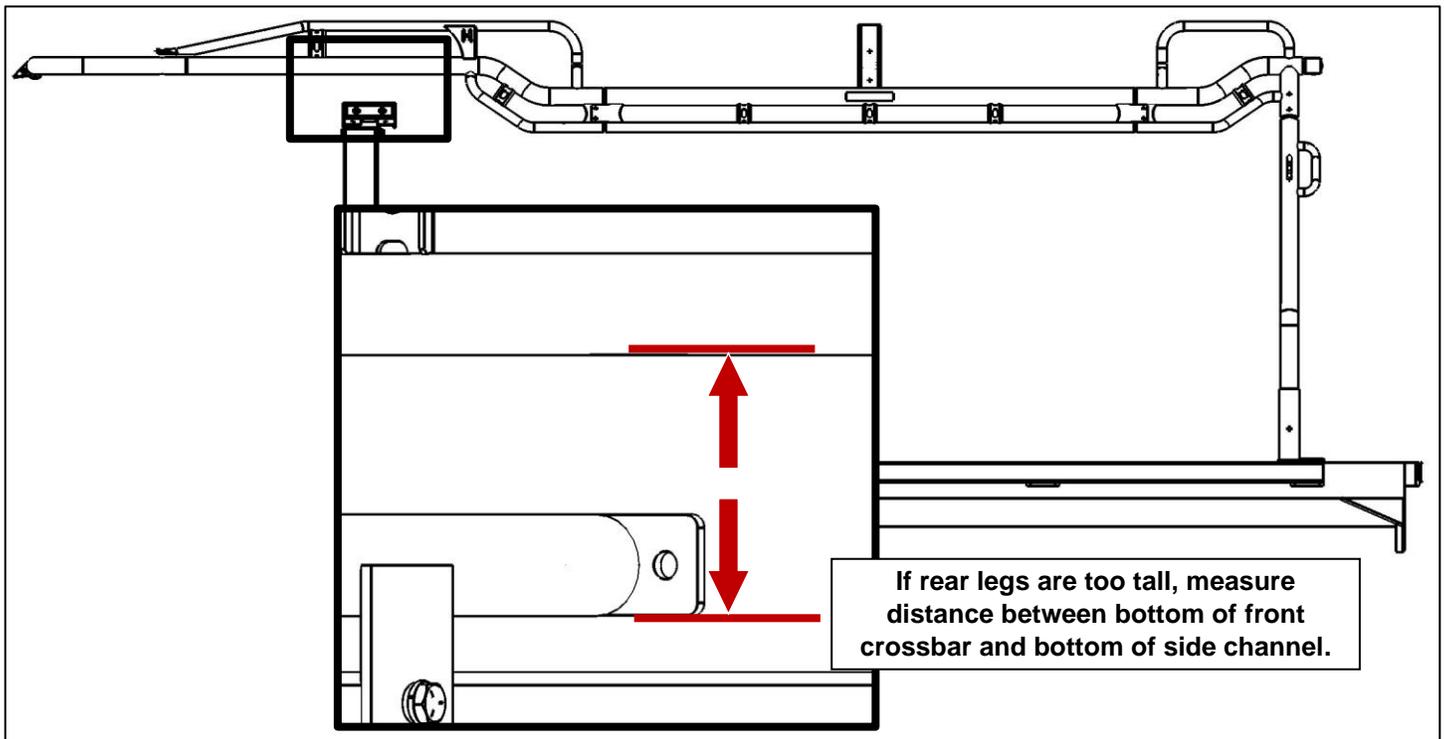
- Wipe off excess sealant.
- Remove the crossbar strapping bracket from the front crossbar. This will be installed onto the side channels later.



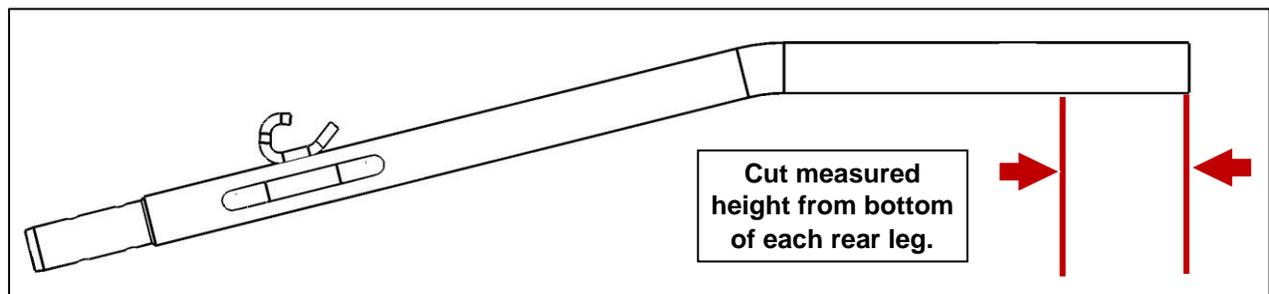
Step 7 – Cut Legs to Size

Note: It may be helpful to place a towel on top of cab to avoid any scratches.

- Set the rack on the flatbed with the legs inserted into the feet.
- Move the rack to the position it will be installed, both front-to-back and side-to-side. **Flange on feet should always face towards the rear.**
- Take note of approximate location of feet. **Be sure to leave room for flange.**
- **Level the side channels to the flat bed.**
- If the **BOTTOMS** of the side channels are higher than the **BOTTOM** of front crossbar side plate, measure the height difference between the **BOTTOM** of side channel and the **BOTTOM** of front crossbar side plate. **Measure twice, just to be sure!**

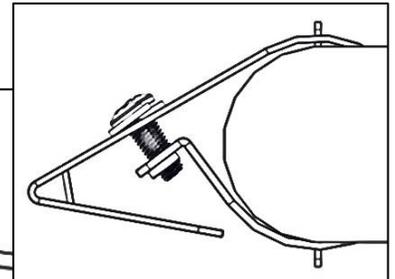
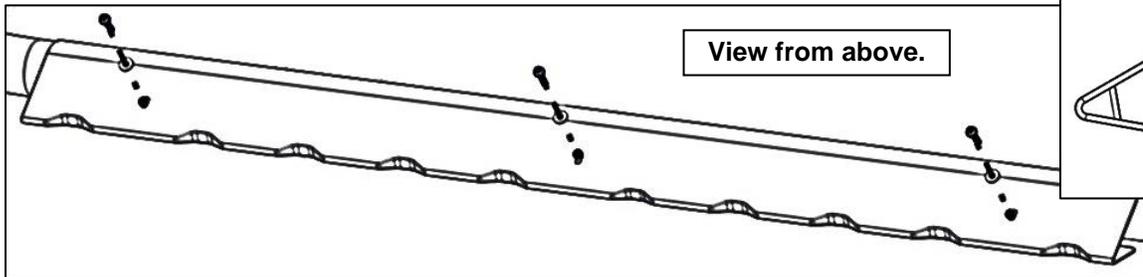
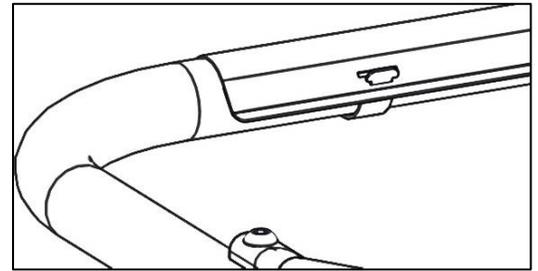


- Remove the rack from the vehicle and flip the rack over.
- Remove legs from rack.
- Cut the amount measured from the bottom of the rear legs. **Be sure to cut both legs the same length and be sure the cut is square to the leg.**
- Spray black paint over cut bottom of leg (spray paint not included).



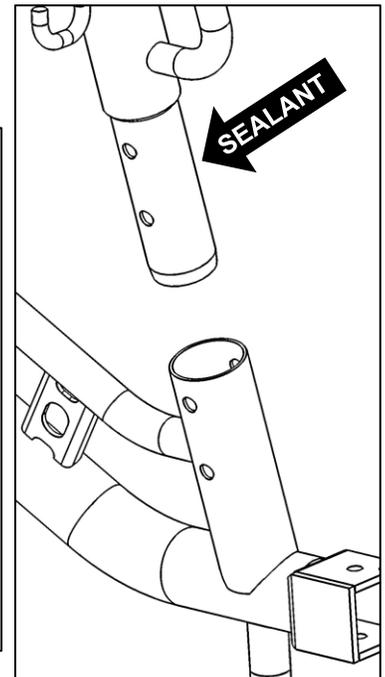
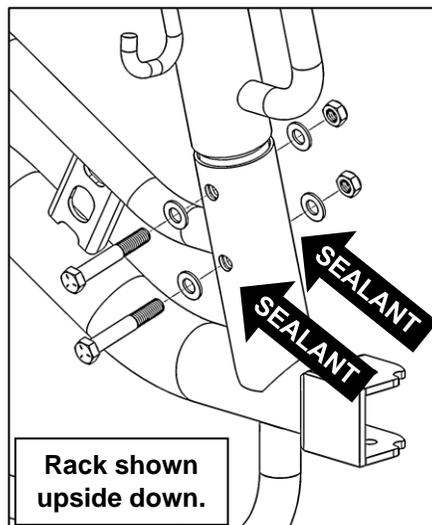
Step 8 – Attach Wind Deflector

- Position wind deflector on front U-tube.
- Insert wind deflector straps into slots on rear of wind deflector.
- Using #10 x 3/4" screws and #10 washers, bolt through top into press-in nuts on wind deflector straps.
- Snug tighten but allow for movement.



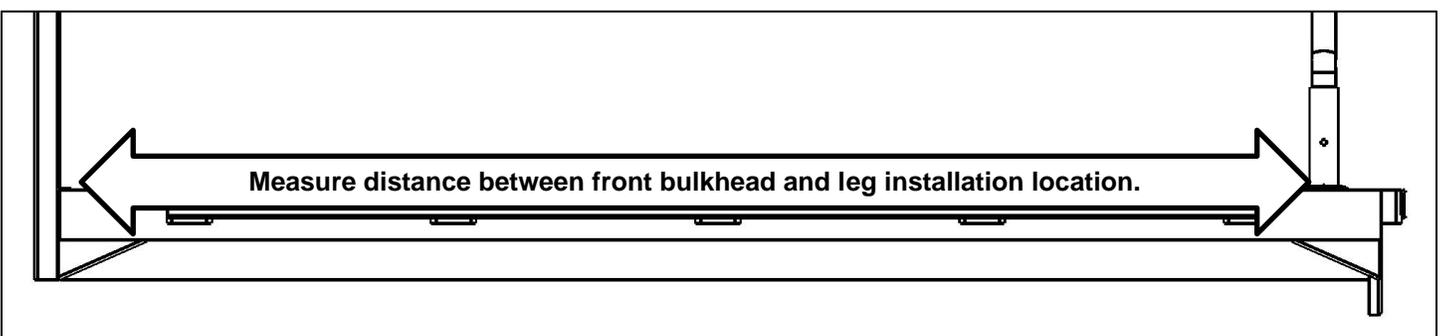
Step 9 – Attach Rear Legs

- Apply sealant to swaged joint on leg.
- Insert leg into leg cup until holes in leg and leg cup align.
- Apply sealant around holes in leg cup.
- Using the previously removed 3/8" x 2-1/2" hex head bolts, 3/8" flat washers, and 3/8" lock nuts, fasten leg to leg cup.
- Snug tighten but allow for movement.

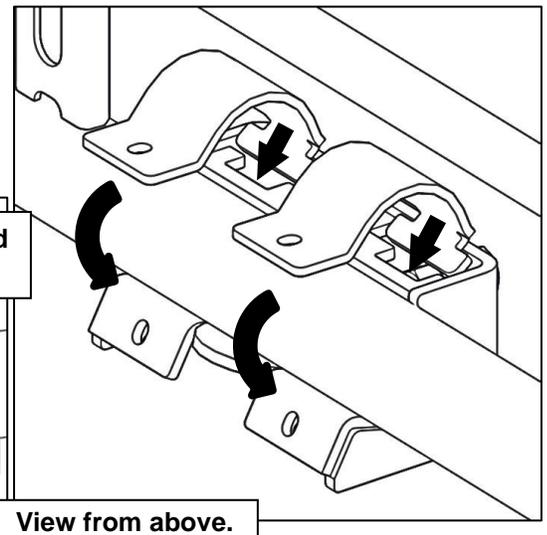
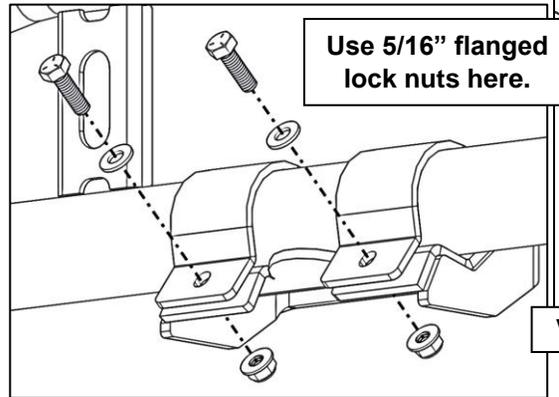


Step 10 - Install Strapping Brackets

- Measure distance between rear face of headache rack (bulkhead) and approximate location rear feet are to be installed.

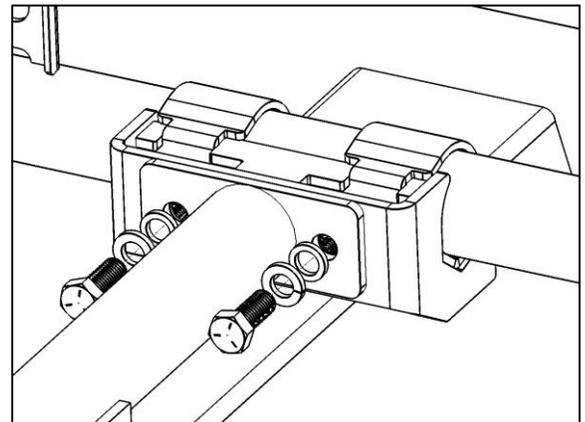


- Position crossbar strapping bracket on lower side channel 2" tubing, centered at approximate distance measured.
- Hook two of the side channel clamps into the slots on the strapping bracket.
- Using a 5/16" x 1-1/4" hex bolt, 5/16" flat washer, and 5/16" flanged lock nut, LOOSELY fasten each clamp to the strapping bracket.
- Repeat for second crossbar strapping bracket on opposite side channel.



Step 11 – Attach Rack to Front Crossbar

- Put rack back on vehicle in position.
- Align crossbar strapping brackets with crossbar.
- Using two 1/2" x 1-1/4" hex bolts, two 1/2" lock washers, and two 1/2" flat washers, bolt the front crossbar to the crossbar strapping bracket.
- Snug tighten but allow for movement.
- Repeat for opposite side.



Step 12 – Foot Installation

- Rotate the rear foot so the holes in the mount plate are optimally sitting on the steel channel frame of the platform body **with flanges with holes towards the rear**.
- Attach the rear foot to the platform body frame by one of the two following methods.
 - Weld the foot to the platform body frame.

OR

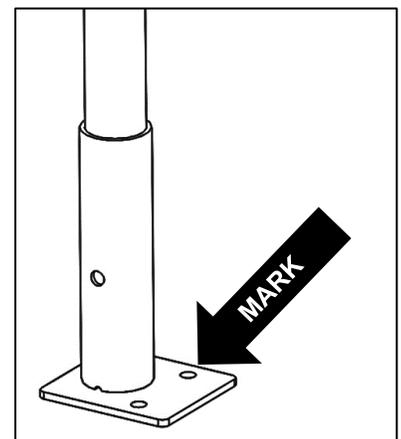


If mounting feet using hardware, feet must be secured to the truck bed using all four foot mounting holes.



Be sure the rear takeout crossbar is securely pinned and fastened before marking. If the legs are not secure and the holes are not properly marked, you may have difficulty pinning the rear take-out bar.

- Mark the location of the foot mounting holes.
- Rotate the feet out of the way of drilling locations.
- Drill a 7/16" hole through the flatbed frame at each of the four holes in the feet.



- Tap each hole to a 1/2"-13 thread.
- Squeeze sealant into each hole.
- Using 1/2" x 1-1/4" bolts, 1/2" lock washers, and 1/2" flat washers, bolt the feet to the frame.

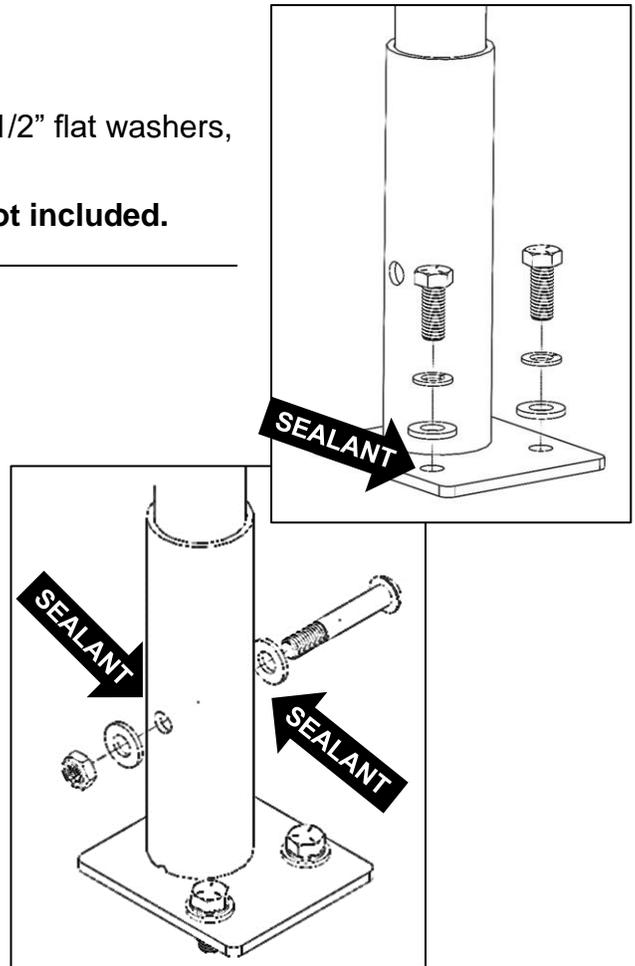
NOTE: Bolt through is acceptable, but hardware is not included.

Step 13 – Attach Legs to Feet

- Lift each leg slightly and apply sealant around leg.
- Wipe off excess sealant.
- Secure the rear legs to the mounting cups by one of the two following methods.
 - Weld the leg to the foot.

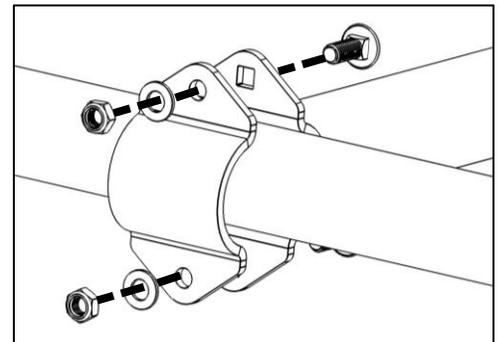
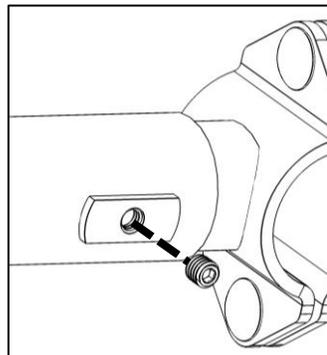
OR

- Drill a 1/2" hole all the way through the leg corresponding to the horizontal hole in foot.
- Spray paint the drilled holes gloss black.
- Squeeze sealant in each hole.
- Using 1/2" x 3" bolts, 1/2" lock washers, and 1/2" flat washers, and 1/2" nuts, bolt leg to foot.



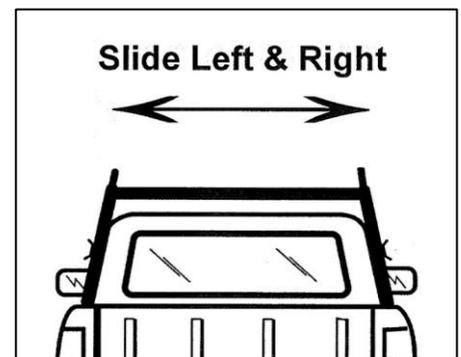
Step 14 – Install Extra Crossbar (Extended and Crew Cab Kits ONLY)

- Using 3/8" x 1" carriage bolts, 3/8" washers, and 3/8" thin lock nuts, bolt each end of crossbar to bottom tube of side channels.
- Snug tighten but allow for movement.
- Loosely install 3/8" set screw into telescoping crossbars.



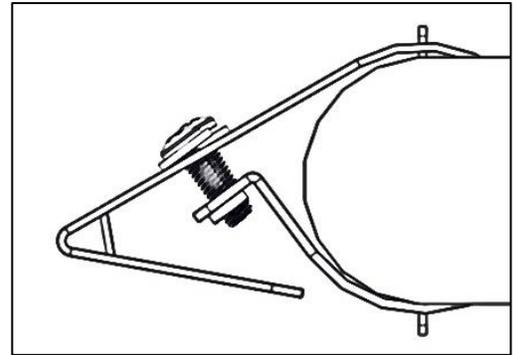
Step 15 – Finish Installation

- Tighten all hardware beginning in the front and top, working your way back and down.
- Verify rear crossbar lock-pin pulls in and out easily.
- If necessary, loosen center crossbar hardware and rear leg bolts, and then slide rear crossbar hard left then right about 10 times to get lock-pin to seat properly.



Step 16 - Adjust Wind Deflector

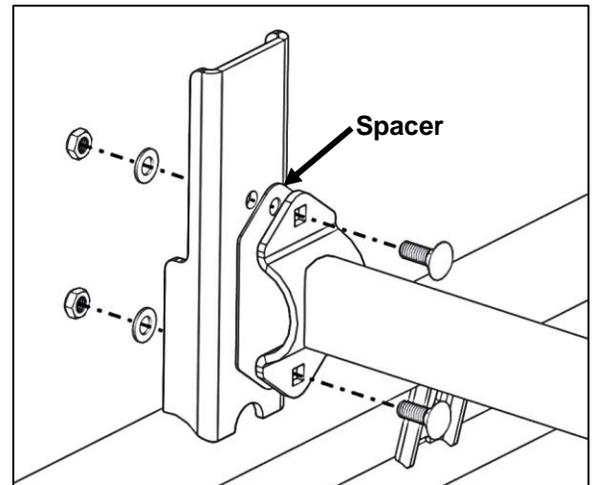
The best angle for the wind deflector will depend on the vehicle the rack is installed on. Small angle adjustments can make a big difference. The image shown is approximately the best angle to start with.



Step 17 – Shim Installation **(Forklift Loadable Side Channels ONLY)**

IF YOU EXPERIENCE DIFFICULTY PINNING REAR TAKE-OUT BAR INTO SIDE CHANNEL RECEIVER, it may be necessary to install one or two spacers between the center crossbar and the crossbar support.

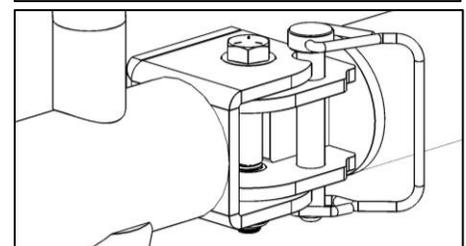
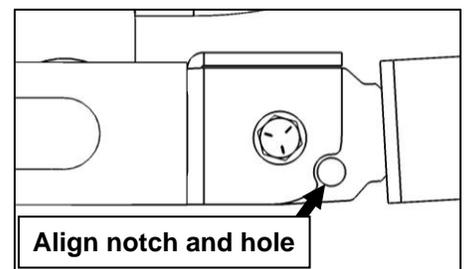
- ON ONE SIDE of center crossbar, remove bolts fastening center crossbar to the side channel supports.
- Insert a spacer between the center crossbar and the crossbar support.
- Tighten hardware.
- Check pin alignment. If second spacer is required, install spacer on opposite side of crossbar than side previously spacer was installed.



Using Rear Take-out Bar Position Lock

The rear take-out bar is able to be locked in an open position.

 DO NOT DRIVE VEHICLE WITH REAR TAKE-OUT BAR IN OPEN POSITION!



- Remove the pin from the rear take-out bar.
- Open the bar fully and insert the pin in the lock-down hole and lock the pin in position.

GO BACK AND TIGHTEN ALL HARDWARE.

If cordless impact wrench was used to assemble, tighten all rack hardware using wrenches and sockets.

INSTALLATION AND ASSEMBLY ARE COMPLETE.