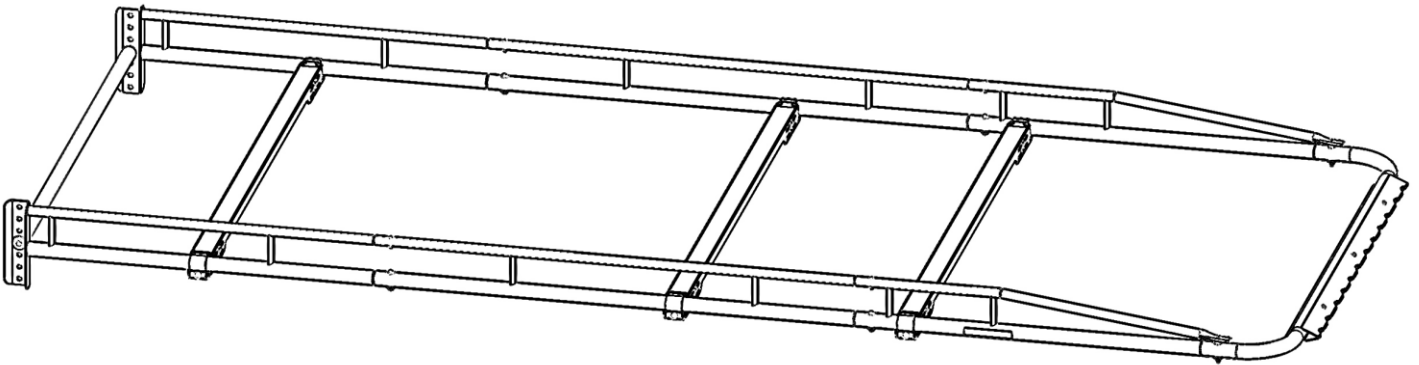


Holman

Instruction Guide

80160



Holman
Rancho Cordova, CA 95742
800-343-7486

InstallationSupport@Holman.com

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

Warning



DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF.

Tools Needed

7/16", 1/2", 9/16", 3/4" Sockets and Wrench	7/16", 1/2", 9/16" 3/4" Box Wrenches
#2 Philips Screwdriver	5/32", 5/16" Allen Hex Wrenches

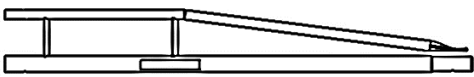
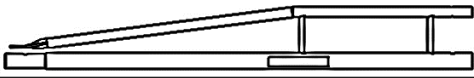
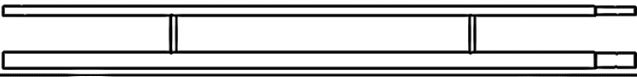
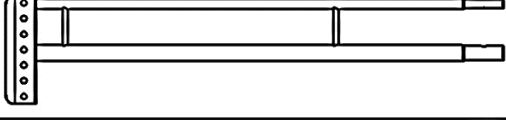
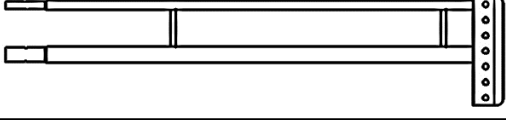

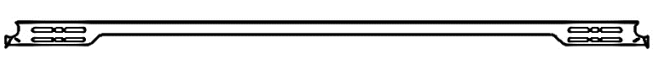
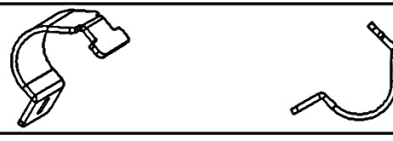
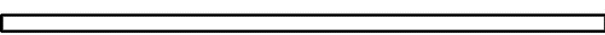


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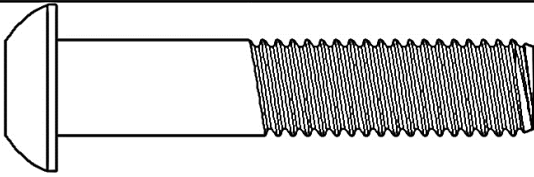
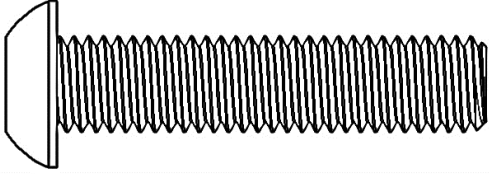
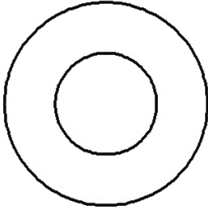
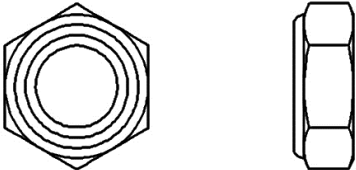


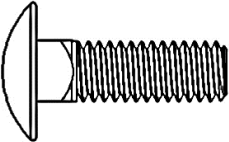

Before You Begin

- Read all instructions prior to assembling or installing any product.
- **Always locate your installation locations prior to performing any work.**
- **Be sure to put sealant around all threads entering cargo area and between the rubber spacer and roof of vehicle to prevent water from leaking into cargo area.**
- **HAVE THE MOUNTING KIT INSTALLED TO VEHICLE PRIOR TO INSTALLING THIS RACK.**



Parts

NO.	ITEM	PART NUMBER	DESCRIPTION	QTY.
1		102161	PS DECAL ASSEMBLY	1
2		102162	DS DECAL ASSEMBLY	1
3		8000S-02	60" CENTER SIDE CHANNEL	2
4		8000S-32	REAR RIGHT SIDE CHANNEL	1
5		8000S-31	REAR LEFT SIDE CHANNEL	1
6		8016S-003	64" FRONT CROSSBAR TUBE	1
7		8016S-01	64" CROSSBAR WELDMENT	3
8		8000A-010	SIDE CHANNEL CLAMP	6
9		8016S-02	64" ROLLER BAR	1
10		101718	WIND DEFLECTOR, 50", 1.625" TUBING, STEEL	1
11		8000S-017	Wind Deflector Clamp, 1.625" Tubing, Steel	3
12		18-80160	ASSEMBLY BOLT KIT	1
13		18-8000A-RB	ROLLER BAR BOLT KIT	1
14		18-31571	HARDWARE KIT	1


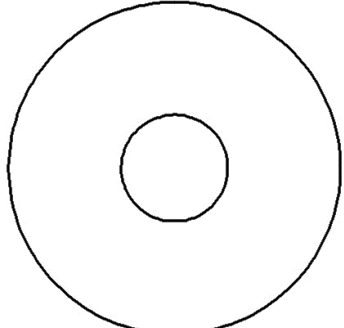
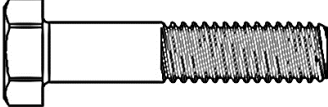
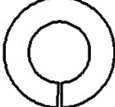
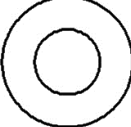
Hardware (18-80160)

ITEM	HARDWARE TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1			1/2"-13 X 2-1/2" BUTTON HEAD CAP SCREW	2
2			1/2"-13 X 2-1/4" BUTTON HEAD	4
3		11137086	1/2" WASHER	6
4		37695	1/2"-13 THIN LOCKING JAM NUT	6
5		92949A546	1/4"-20 X 1-1/2 BUTTON HEAD	4
6		0167030	1/4"-20 FLANGED LOCK NUT	4
7		21811	5/16-18 X 1" CARRIAGE BOLT	6
8		11104019	5/16-18 FLANGED NYLOCK NUT	6
9		60ML	SELF LEVELING ADHESIVE SEALANT	1

Hardware (18-31571)

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

Hardware (18-8000A-RB)

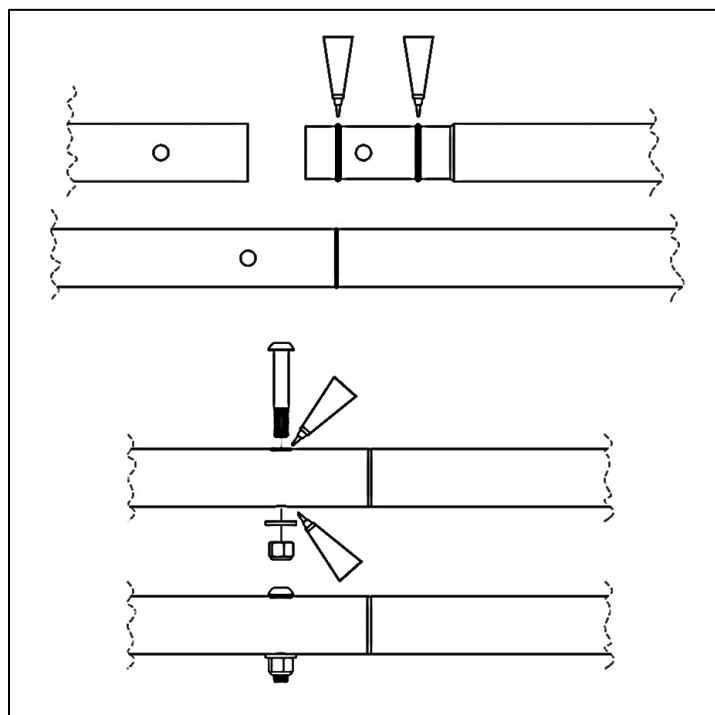
ITEM	HARDWARE TO SCALE	PART NUMBER	DESCRIPTION	QTY.
1		6391K406	OIL-EMBEDDED BRONZE SLEEVE BEARING	2
2		95611A287	CHEMICAL-RESISTANT PVC PLASTIC WASHER FOR 1/2" SCREW SZ, 0.562" ID, 1.75" OD, 0.053"-0.071" THK	4
3		11241181	5/16"-18 X 1-1/2" HEX HEAD BOLT	2
4		1171067	5/16" LOCKING WASHER	2
5		11545144	5/16" FLAT WASHER	2

Sealant Application



Proper sealant application is critical to preventing water penetration inside the rack AND provides for a stable connection between parts.

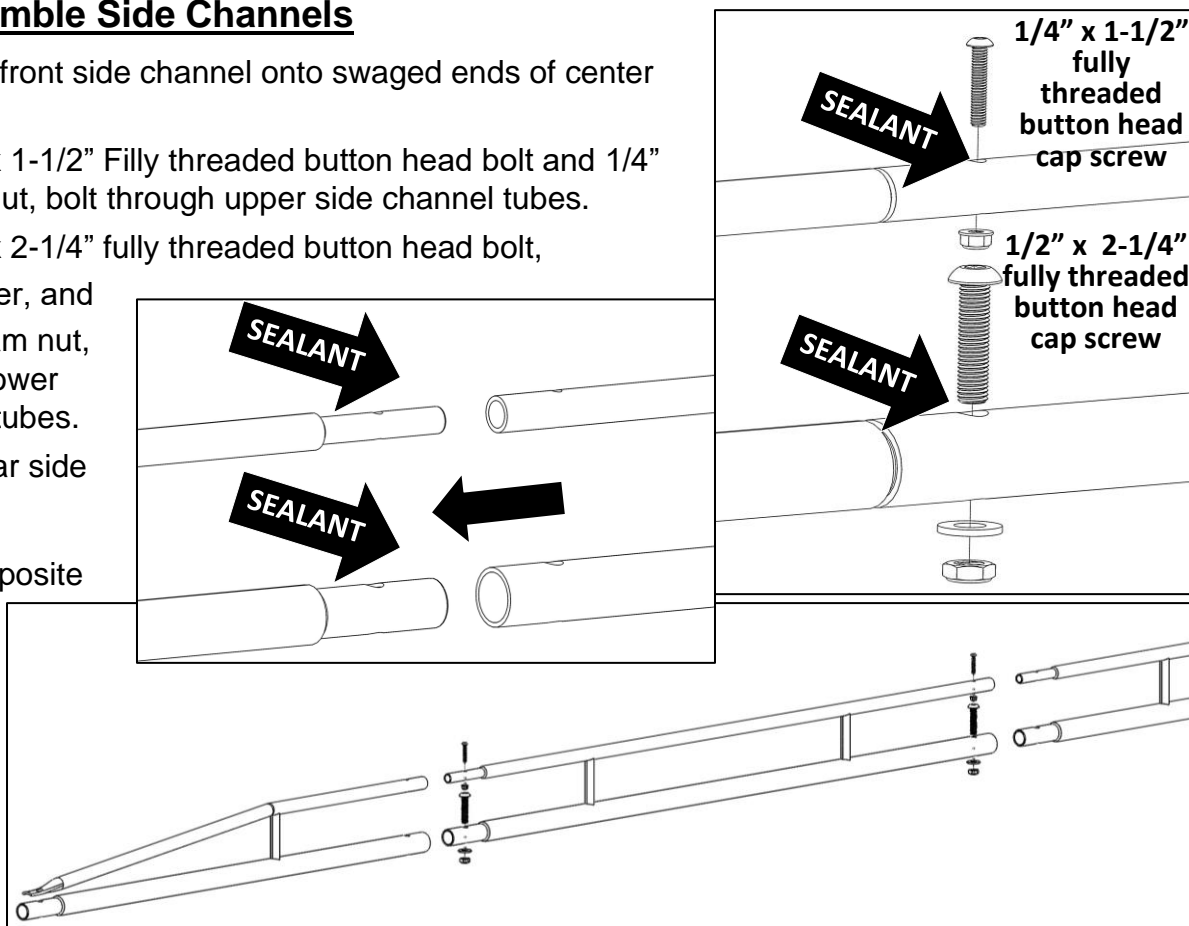
- Apply a healthy bead of sealant entirely around every swaged joint as shown. Improper sealing can lead to water penetration.
- Wipe any excess sealant off immediately with a plastic scraper or paper towel. Any smeared sealant can be rubbed off as soon as sealant dries.
- Maintain this seal throughout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



DO NOT EXCEED MANUFACTURERS WEIGHT CAPACITY FOR ROOF.

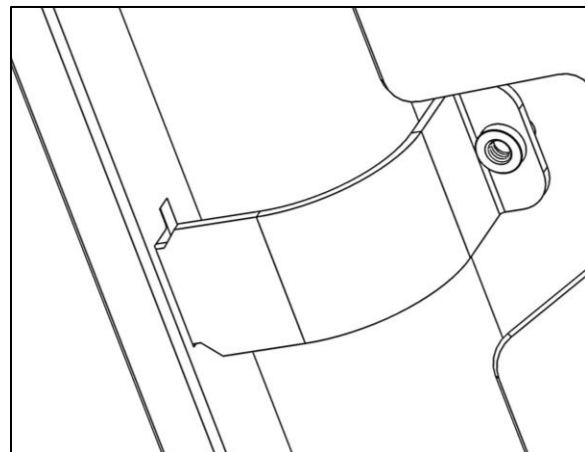
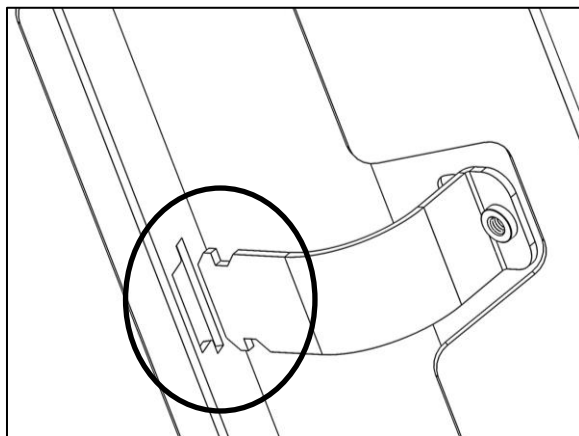
Step 1 – Assemble Side Channels

- Push ends of front side channel onto swaged ends of center side channel.
- Using a 1/4" x 1-1/2" Fully threaded button head bolt and 1/4" flanged lock nut, bolt through upper side channel tubes.
- Using a 1/2" x 2-1/4" fully threaded button head bolt, 1/2" flat washer, and 1/2" locking jam nut, bolt through lower side channel tubes.
- Repeat for rear side channel.
- Repeat for opposite side channel.
- Tighten the bolts going through top and bottom side-channel tubes.



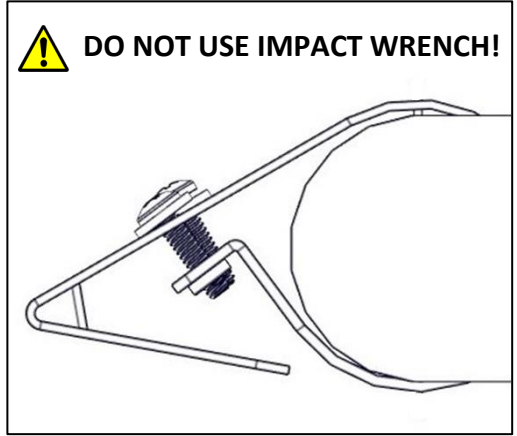
Step 2 – Attach Wind Deflector to Front Crossbar

- Insert wind deflector clamp-retainer into cutout in wind deflector.
- Hold wind deflector in position with angled edge aimed towards front of vehicle.



- Fasten a #10 x 3/4" pan head screw through the wind deflector into the press nut in the clamp.
- Repeat for remaining two clamps.
- Tighten.

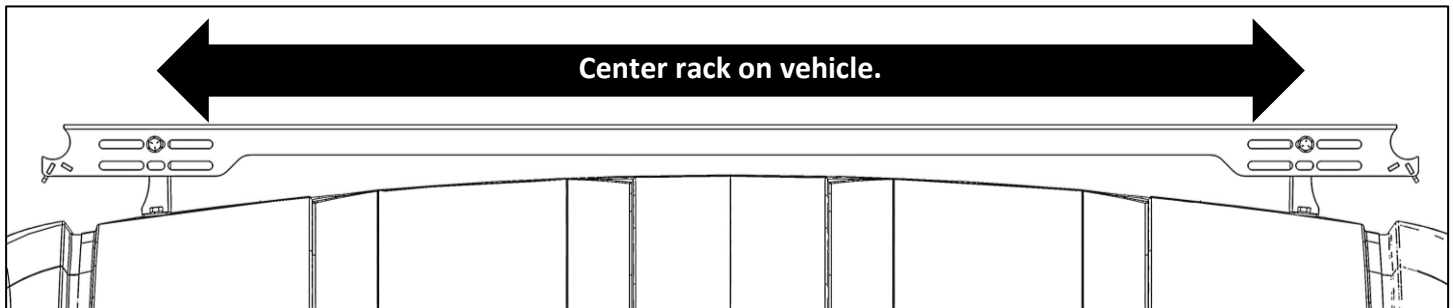
The best angle for the wind deflector will depend on the vehicle the rack is installed on and will differ for each installation. Small angle adjustments can make a big difference. Ideally the bottom flange of the wind deflector will nearly follow the curvature of the vehicle. The image shown above is approximately the best angle to start with.



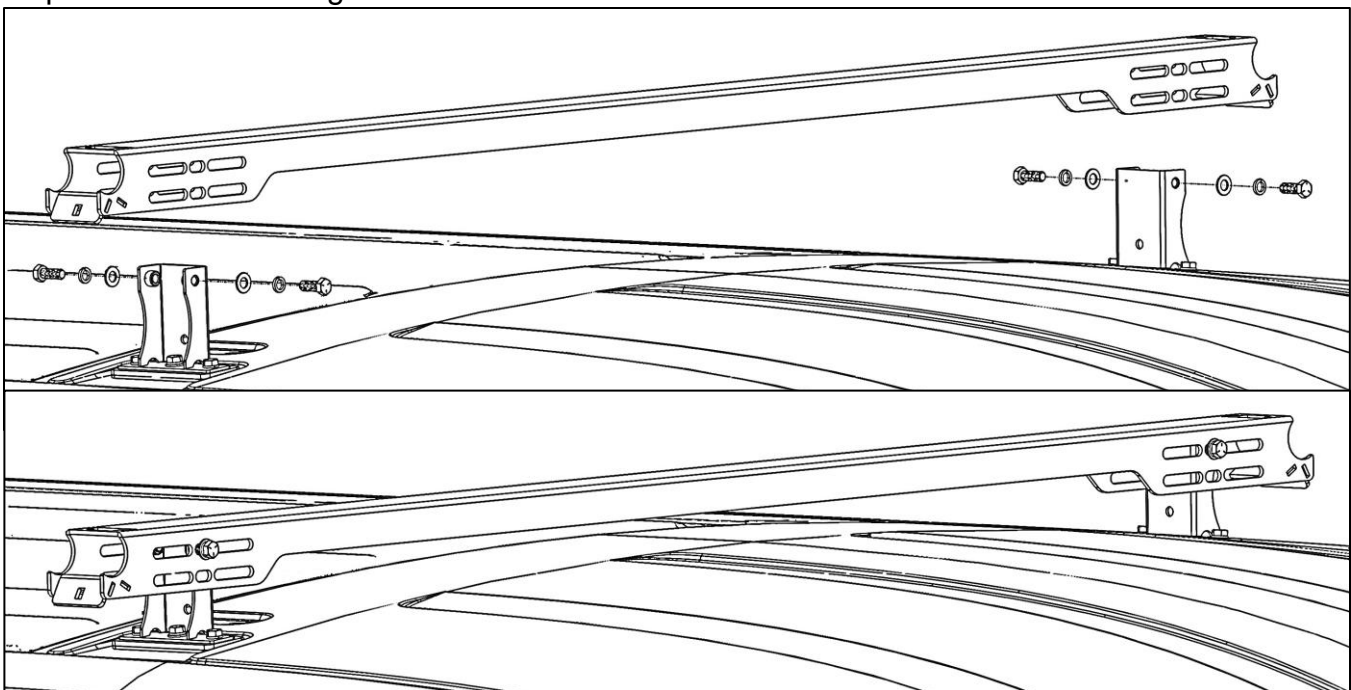
Step 3 – Install Crossbars To Feet

NOTE: HARDWARE TO ATTACH CROSSBARS TO FEET IS INCLUDED IN MOUNTING KIT.

- Set crossbar onto feet. Mounting feet may be installed into either upper or lower slots, based upon clearance required for vehicle.
- Center crossbar right-to-left with feet and vehicle.

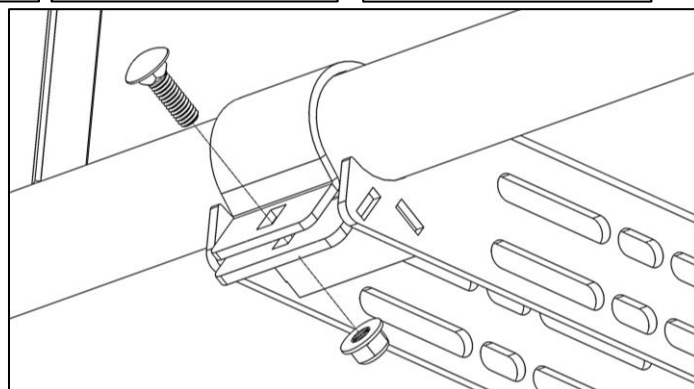
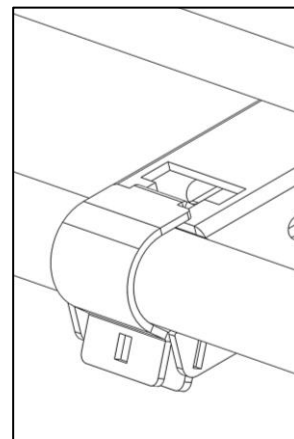
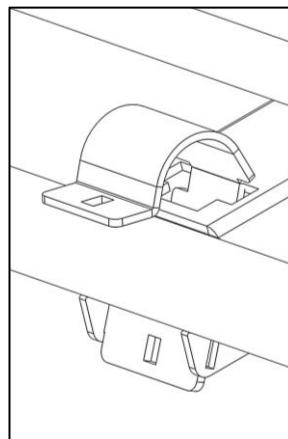
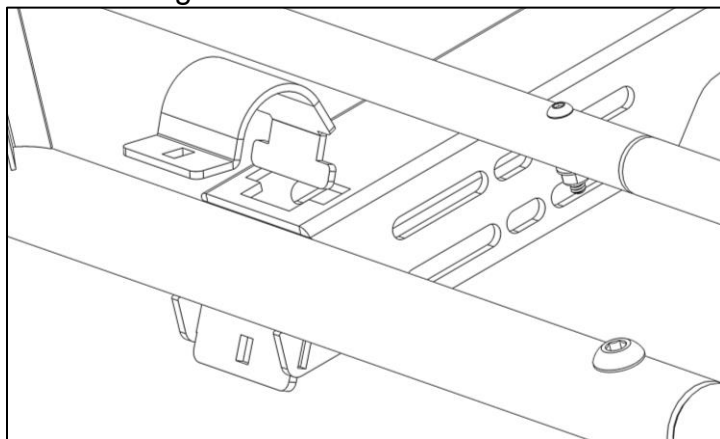
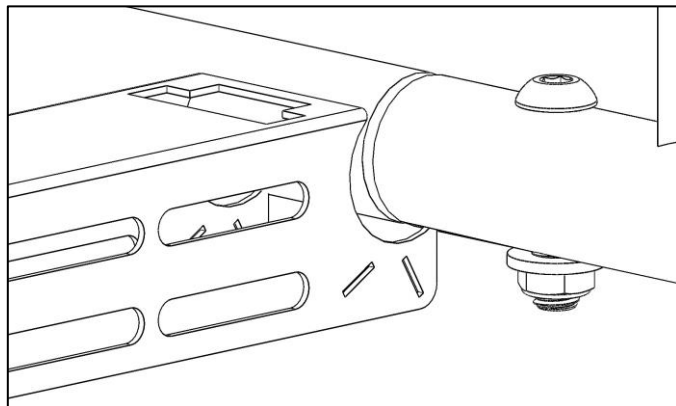


- Using 3/8" x 1" hex head bolts, 3/8" lock nuts, and 3/8" flat washers provided with mounting kit, bolt crossbar to feet.
- Tighten but allow movement.
- Repeat for all remaining crossbars.



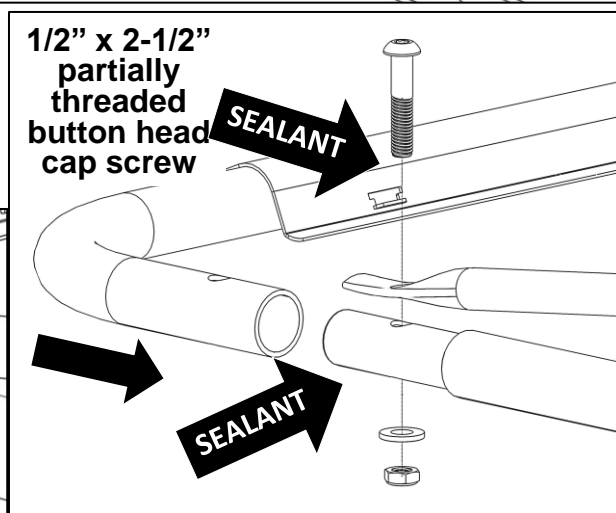
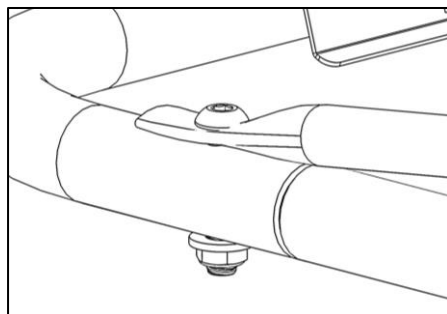
Step 4 – Attach Side Channels to Crossbars

- Set side channel into round cutout in crossbars in desired position.
- Although rack position may be adjusted later, it is recommended to determine the front-to-back position of the rack at this point.
- Insert a side channel clamp into cutout in each crossbar with interior diameter facing upward.
- For each side channel clamp, use a 5/16" x 1" carriage bolt and 5/16" flanged lock nut to bolt side channel clamp to crossbar.
- LOOSELY tighten.



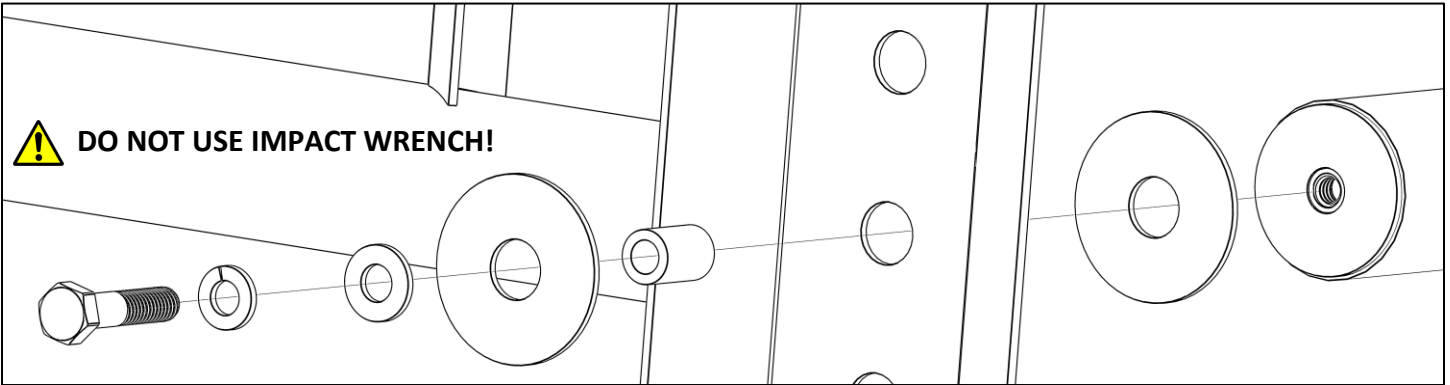
Step 5 – Attach Front Crossbar

- Push front crossbar onto swaged end of front side channel. **Be sure to align holes in both and be sure flat face of wind deflector is on top.**
- Using a 1/2" x 2-1/2" partially threaded button head cap screw, 1/2" flat washer, and 1/2" locking jam nut, bolt through front side channel and front crossbar.
- Tighten.
- Repeat for opposite side.

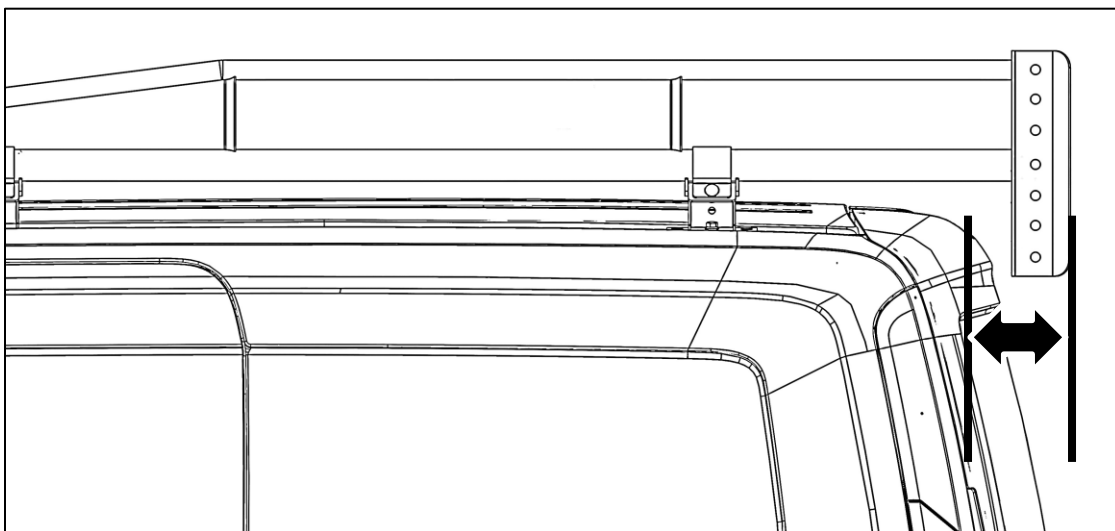


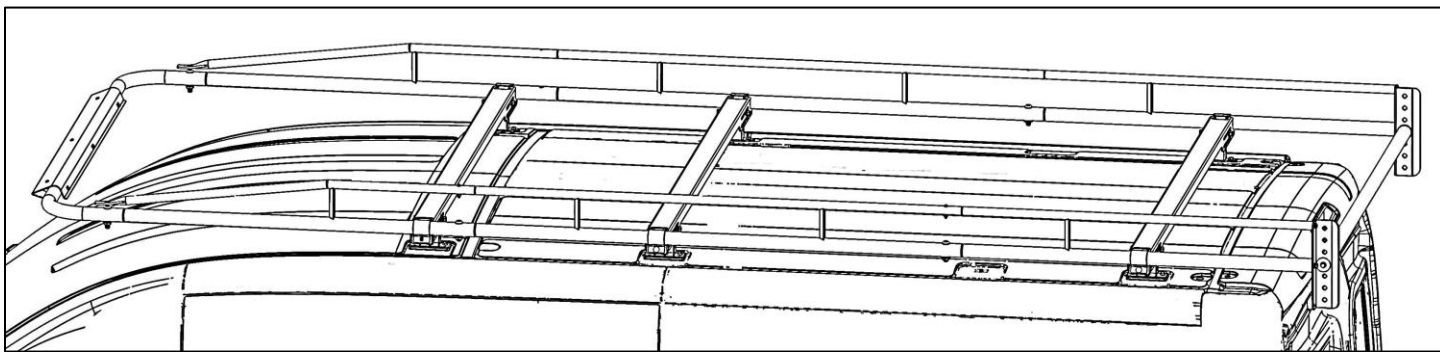
Step 6 – Attach Roller Bar to Roller Bar Brackets

Note: The center roller bar mounting position is best for load bearing. Several positions are provided to accommodate different loading positions.



- Using a 5/16" x 1-1/2" hex head bolt, bolt through the following and into the end of the roller bar.
 - a 5/16" lock washer,
 - a 5/16" flat washer,
 - two plastic washers (one on each side of roller bar bracket),
 - a roller bar bracket, and
 - a roller bearing.
- LOOSELY tighten hardware.
- Repeat for opposite side.
- **Be sure the rear roller bar is hanging off the rear of the vehicle enough so that when placing a ladder on the rack, it does not come into contact with the rear of the vehicle.**
- **Check that the rack is square to the vehicle and mounts.**





GO BACK AND TIGHTEN ALL HARDWARE.

INSTALLATION AND ASSEMBLY ARE COMPLETE.

Roller Bar Alternate Positions

Note: The center mounting position of the roller bar is recommended for maximum load bearing applications. Several locations are provided to accommodate different loading positions but at lower load accommodation.

