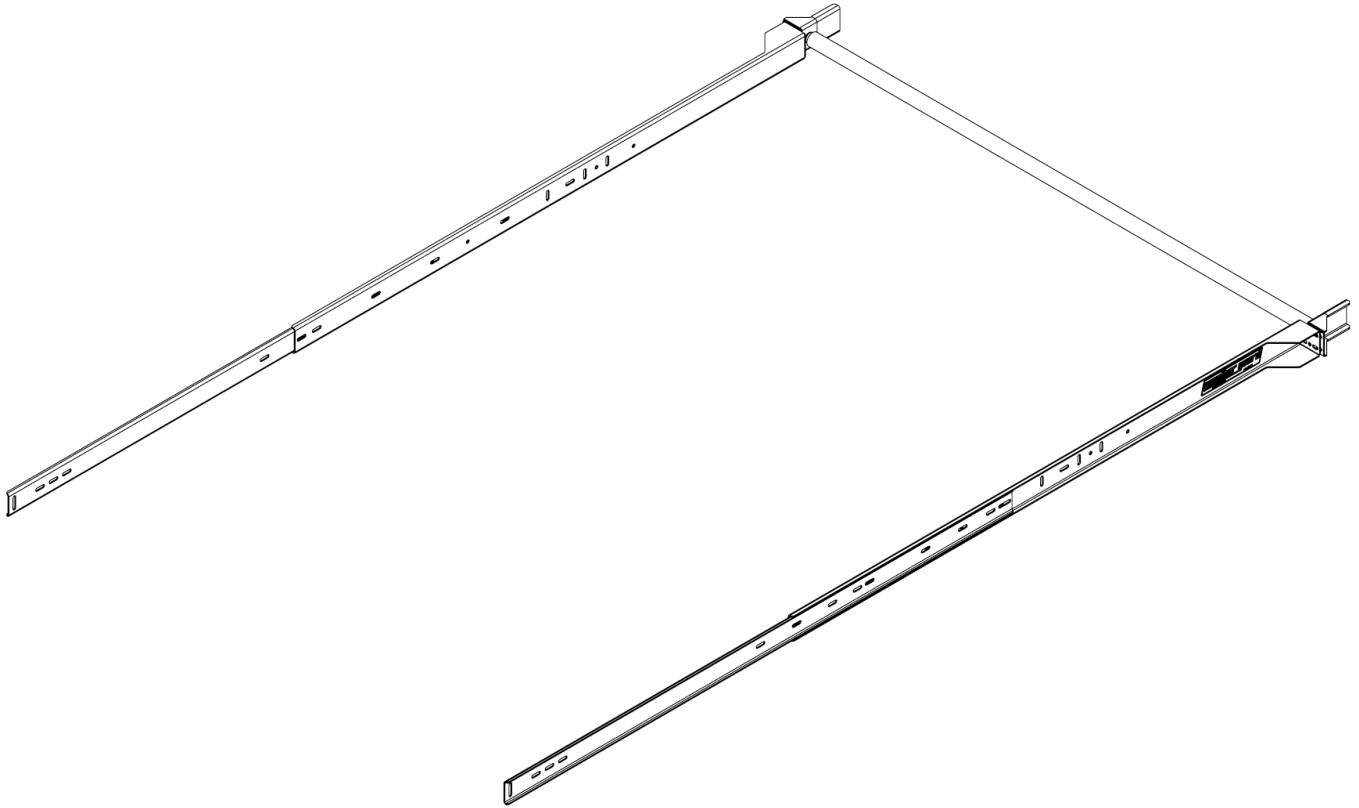




VAN STORAGE SOLUTIONS
FOR THE WAY YOU WORK™

INSTALLATION INSTRUCTIONS for FULL SIZE SVR LOAD BAR ACCESSORY



MODEL 23001

ATTENTION: PLEASE READ AND UNDERSTAND ALL INSTRUCTIONS AND WARNINGS

INSTALLATION GUIDELINES

- WEATHER GUARD® load assist bars are designed to assemble to a WEATHER GUARD® ladder rack and assist in loading ladders onto the rack. If you have not already installed the rack, do so now before proceeding.
- Perform the installation on a level surface.
- Always wear protective eyewear to keep debris out of your eyes when installing WEATHER GUARD® Van Products.
- Tighten all 1/2" hardware to 57 ft-lb when ready.
- Tighten all 1/4" hardware to 76 in-lb when ready.
- **This product is designed and intended for installation to a WEATHER GUARD® Steel Van Rack (SVR) on all wheelbases and roof heights of the following vehicles: Ford Transit, RAM ProMaster, Mercedes Sprinter, and Nissan NV.**
- **All vans will require a center/accessory crossmember except the following: 130" WB Ford Transit, 118" RAM ProMaster, and High-Roof Nissan NV.**

OPERATION GUIDELINES

- Any modifications made to this product, or use of this product for any other purpose than its intended use, could create a hazardous condition that can cause serious personal injury or property damage.
- **At the end of the first week of use, check all of the fasteners for proper tightness and then check every three months thereafter.**

HARDWARE KIT

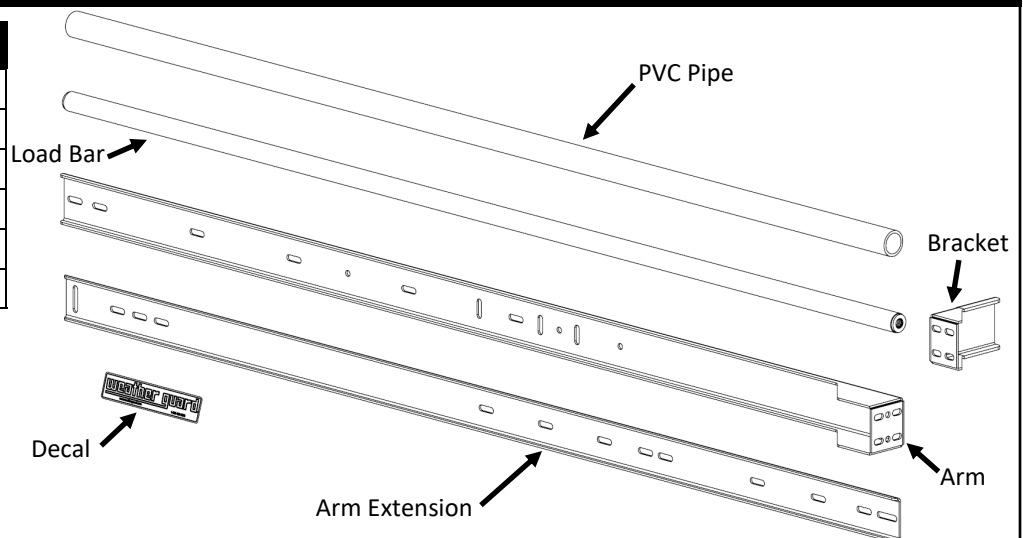
DESCRIPTION	QTY
1/4" Washer	36
1/4"-20 Nylon Lock Nut	18
1/4"-20 x 3/4" Bolt	18
1/4"-20 x 1-1/4" Bolt	8
1/2" Lock Washer	2
1/2" Washer	2
1/2"-13 x 1-3/4" Bolt	2
3/8" Spacer	8
1/2" Spacer	8

TOOLS REQUIRED	
7/16" Socket	Ratchet
7/16" Wrench	Torque Wrench
3/4" Socket	*Impact Wrench
Level	

*Suggested for 1/2" Bolts; Do **NOT** use for 1/4" Hardware.

PARTS LIST

DESCRIPTION	QTY
Arm	2
Arm Extension	2
Bracket	2
Load Bar	1
PVC Pipe	1
Decal	2



LOAD BAR INSTALLATION INSTRUCTIONS

STEP 1. Assemble Brackets & PVC to Load Bar

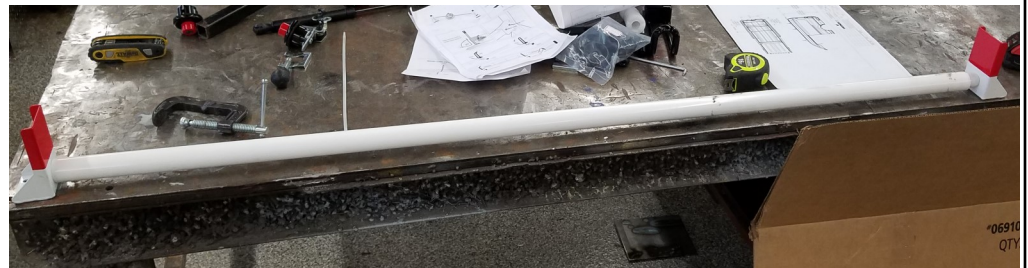
- Attach and tighten a Bracket to one end of the Load Bar using a 1/2"-13 bolt, 1/2" lock washer, and 1/2" flat washer.



- Slide the PVC Pipe over the other end of the Load Bar.



- Loosely attach the remaining Bracket to the other end of the Load Bar using a 1/2"-13 bolt, 1/2" lock washer, and 1/2" flat washer.
- Set the Assembly on a flat table top with the bases of the Brackets against the surface of the table.
- Clamp the first, already-tightened, Bracket against the table to prevent the assembly from turning.
- Tighten the loose bolt while keeping the Bracket square against the table and Load Bar.



LOAD BAR INSTALLATION INSTRUCTIONS

STEP 2. Assemble Arms to Arm Extensions

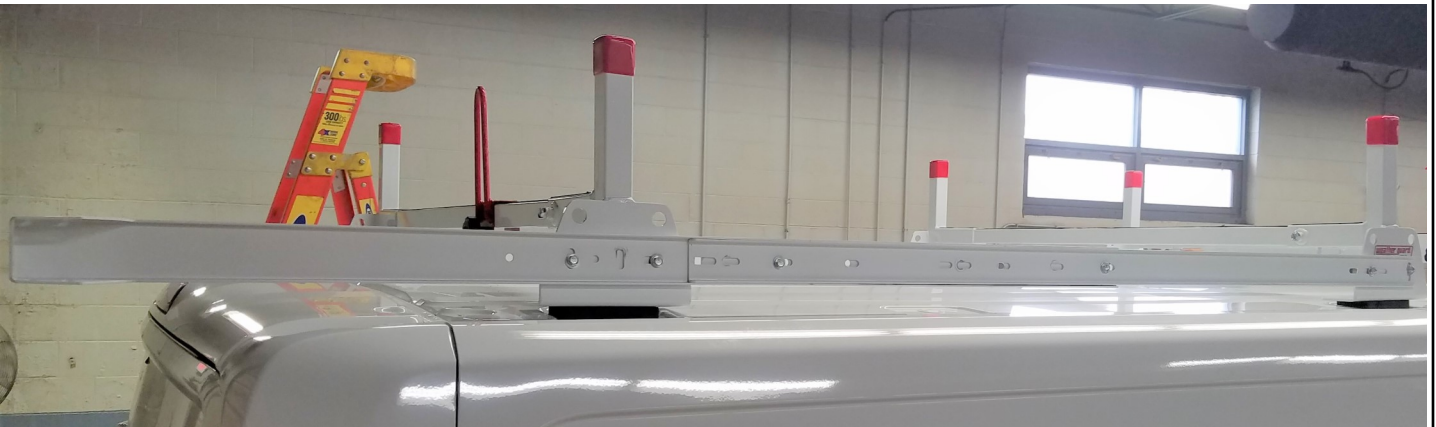
- Attach an Arm to an Arm Extension at the hole locations shown for your van (see pages 6-9 for locations) using (2) 1/4"-20 x 3/4" bolts, (4) 1/4" washers, and (2) 1/4"-20 nylon lock nuts. Tighten to 76 in-lbs.
- Repeat for the remaining Arm and Arm Extension.



Shown assembled for a 148" Ford Transit

STEP 3. Attach Arm/Extension Assemblies to Rack Stands

- Attach an Arm & Extension at the hole locations shown for your van (see page 6-9 for locations) using a 1/4"-20 bolt, (2) 1/4" washers, and a 1/4"-20 nylon lock nut at each hole location.
 - Note the orientation of the Arm and extension for your van model and roof height (see page 6-10).
 - If the flanges go inward, then 1/2" spacers will need to be placed between the Arm and the rack stand and 3/8" spacers will need to be placed between the Extension and the rack stand (use the longer 1/4"-20 bolts for this case).
- Use a level when tightening the Arm & Extension in place and torque hardware to 76 in-lbs.
- Repeat for the remaining Arm & Extension on the other side of the van.



Shown assembled to a 148" Ford Transit

STEP 4. Attach Load Bar Assembly to Arms

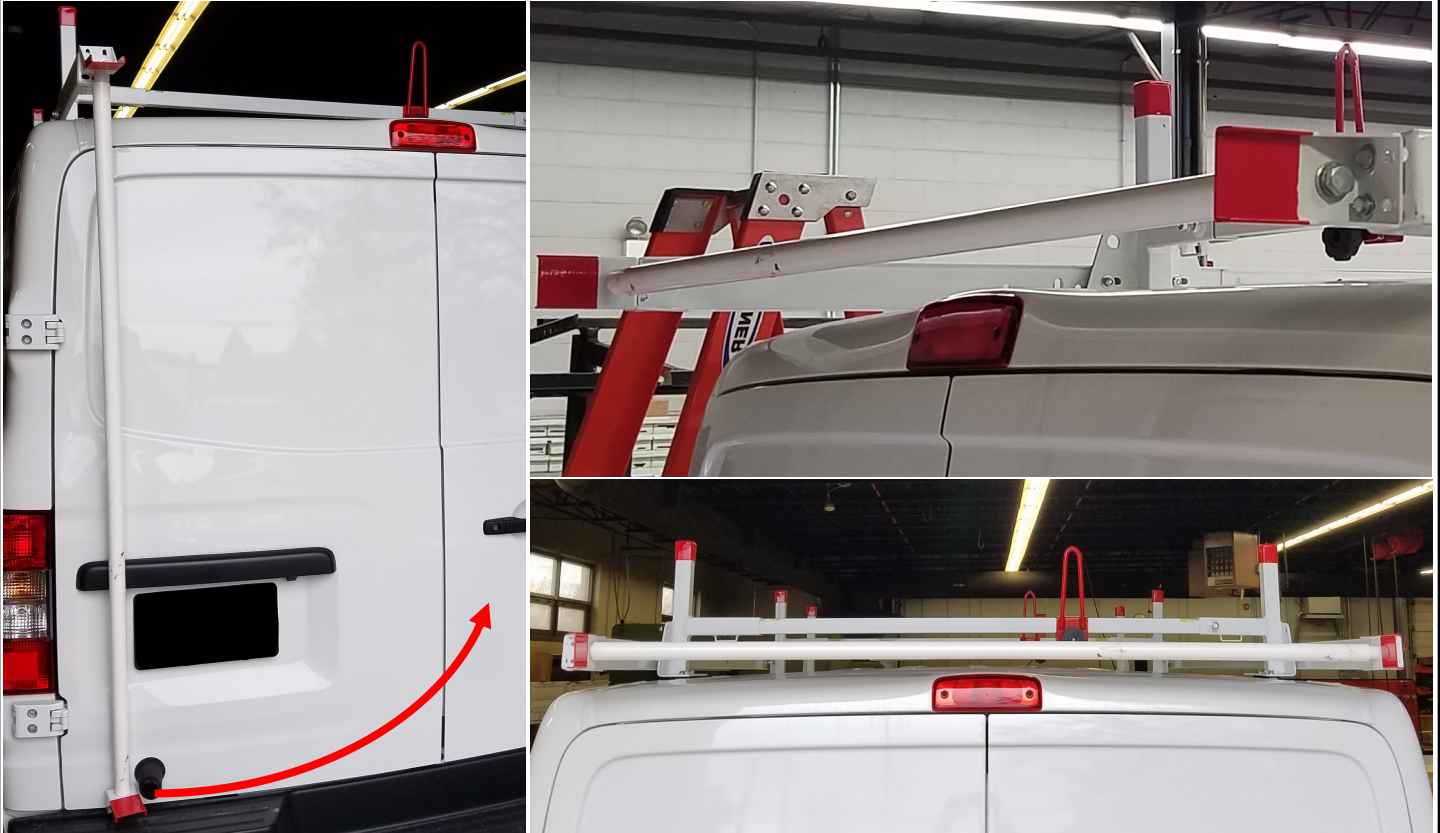
- See the rear picture for your van (page 10) to determine which holes to use to mount the Load Bar assembly to the Arms.
- Use a 1/4"-20 x 3/4" bolt, (2) 1/4" washers, and a 1/4"-20 nylon lock nut to loosely attach the Load Bar assembly to one Arm at the top mounting point letting the Load Bar assembly hang down.



LOAD BAR INSTALLATION INSTRUCTIONS

STEP 4. Attach Load Bar Assembly to Arms (continued)

- Carefully swing the Load Bar assembly up to reach the other Arm and loosely attach it to that Arm at the top point using a 1/4"-20 x 3/4" bolt, (2) 1/4" washers, and a 1/4"-20 nylon lock nut.
- Loosely attach the bottom hardware on each Bracket.
- Center and square up the Load Bar assembly.
- Tighten all the 1/4" hardware to 76 in-lbs of torque.



STEP 5. Apply W/G Decal to each Arm

- Apply WEATHER GUARD® Decal to the outer face of each Arm behind the last set of holes, but in front of where the flanges flare outward or inward.



Decal Placement on Driver Side for vans where Arms point outward. Passenger Side to be mirrored.



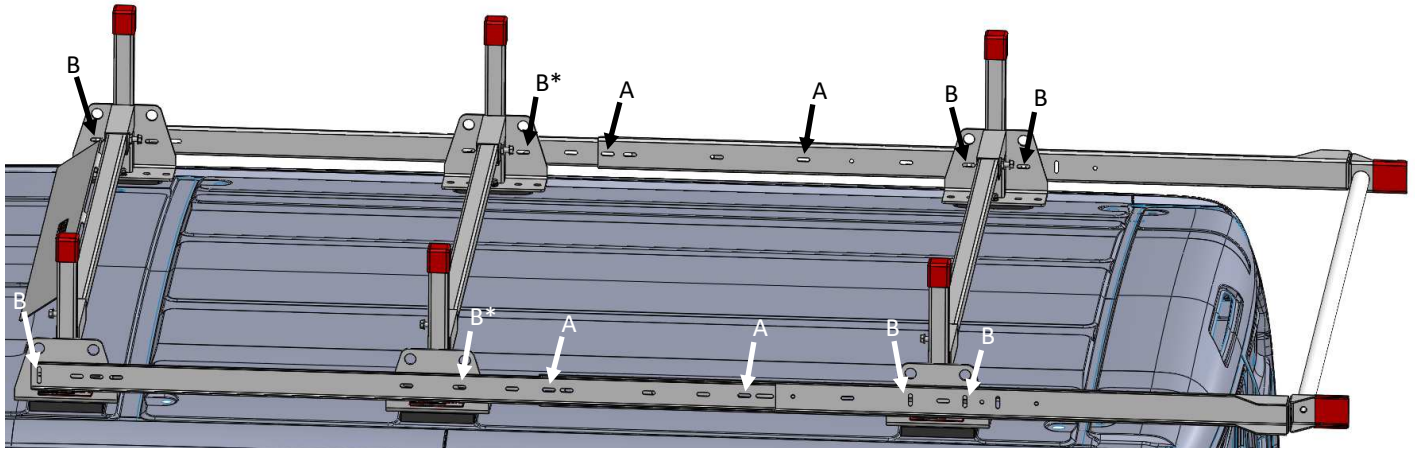
Decal Placement on Driver Side for vans where Arms point inward. Passenger Side to be mirrored.

FORD TRANSIT ATTACHMENT POINTS

Shown with Rear of van to the right assembled to a direct-mounted 3-bar Rack unless otherwise stated. Actual alignment of parts may vary slightly.

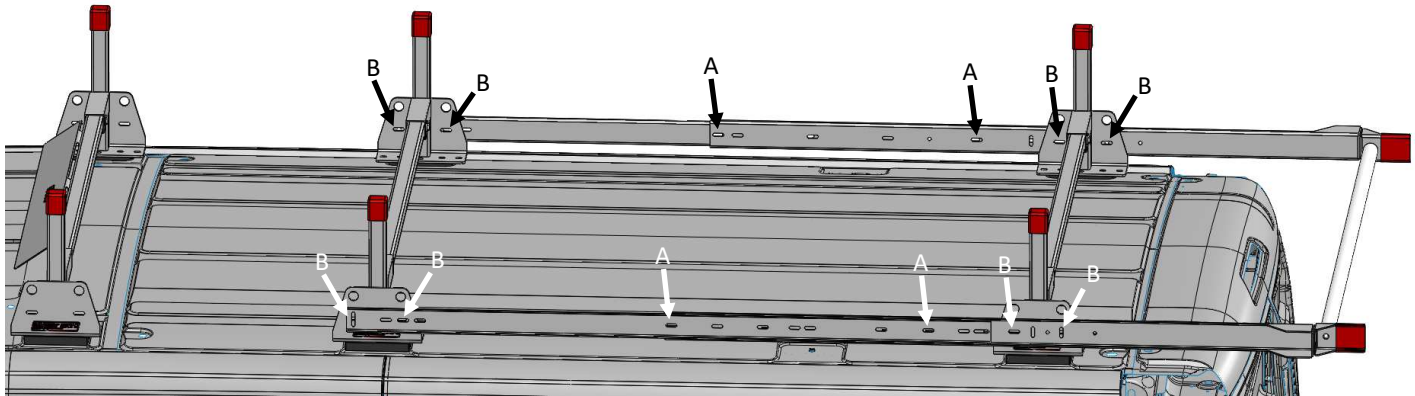
A = Arm to Arm Extension Attachment Point

B = Arm/Extension to Rack Stand Attachment Point

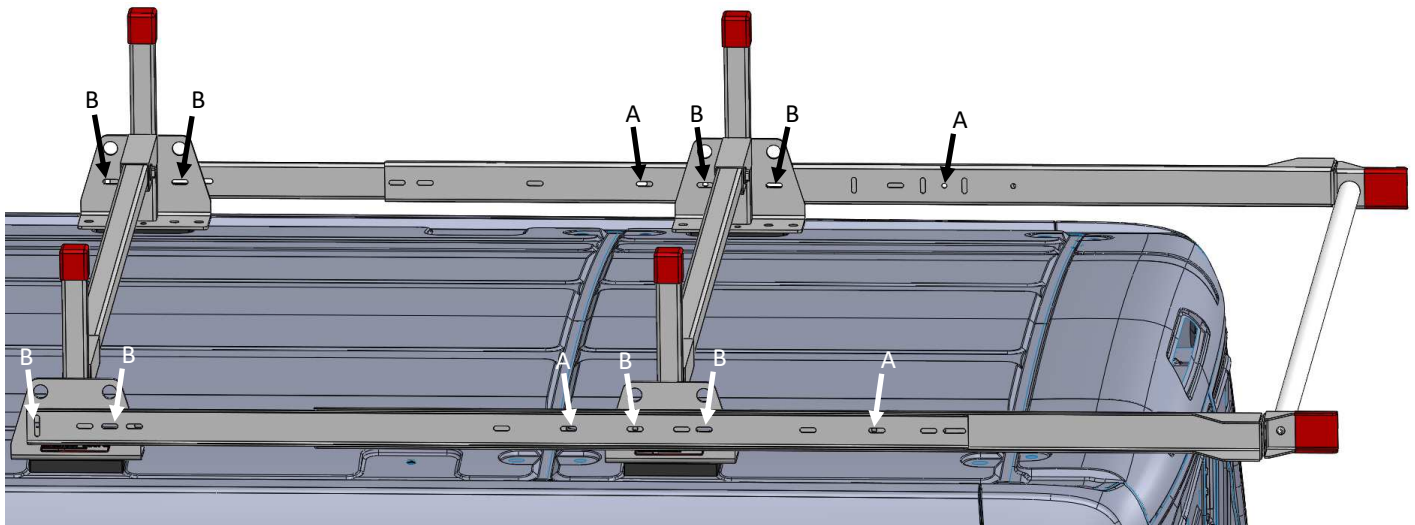


130" Wheelbase

*On a 2-bar Rack, these mounting points will relocate to the rear points of the front Rack Stands.



148" Wheelbase



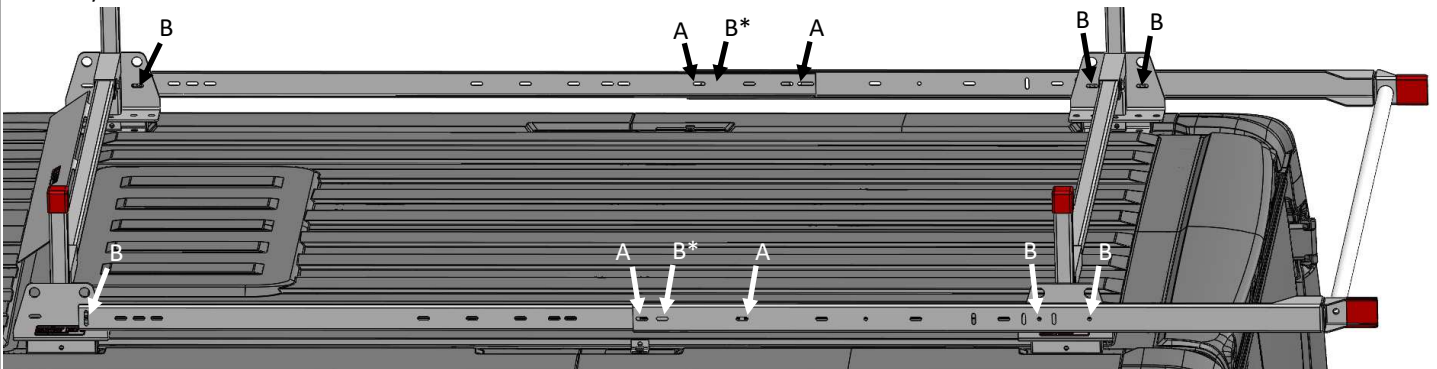
148" Wheelbase—Extended Length

RAM PROMASTER ATTACHMENT POINTS

Shown with Rear of van to the right assembled to a direct-mounted 3-bar Rack unless otherwise stated. Actual alignment of parts may vary slightly.

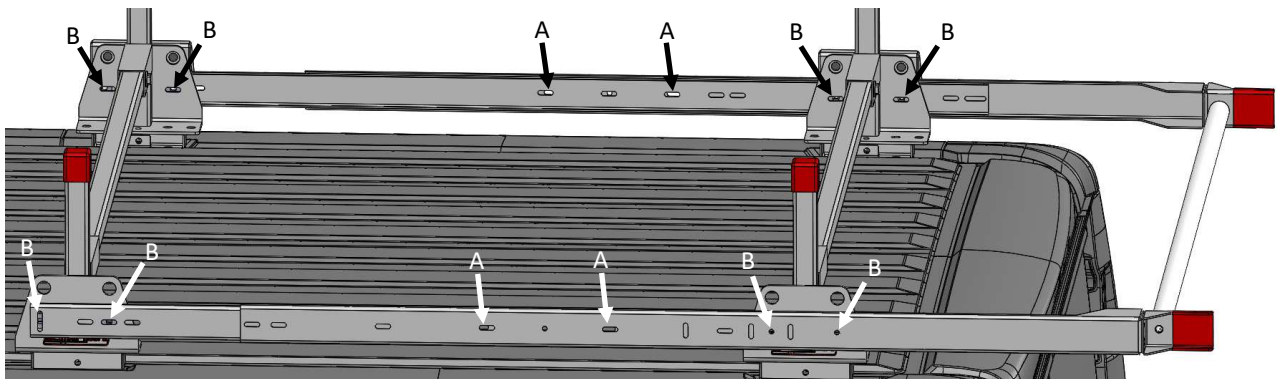
A = Arm to Arm Extension Attachment Point

B = Arm/Extension to Rack Stand Attachment Point

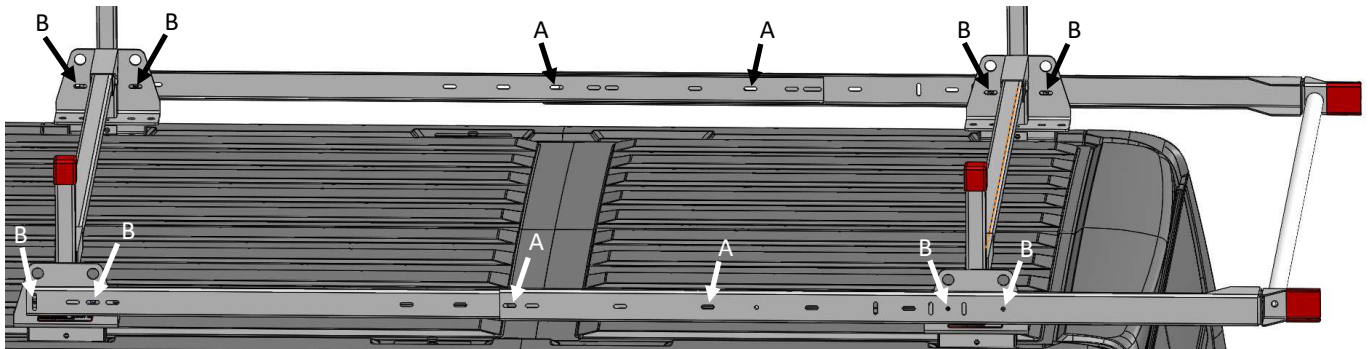


118" Wheelbase (Shown assembled to a 2-bar Rack)

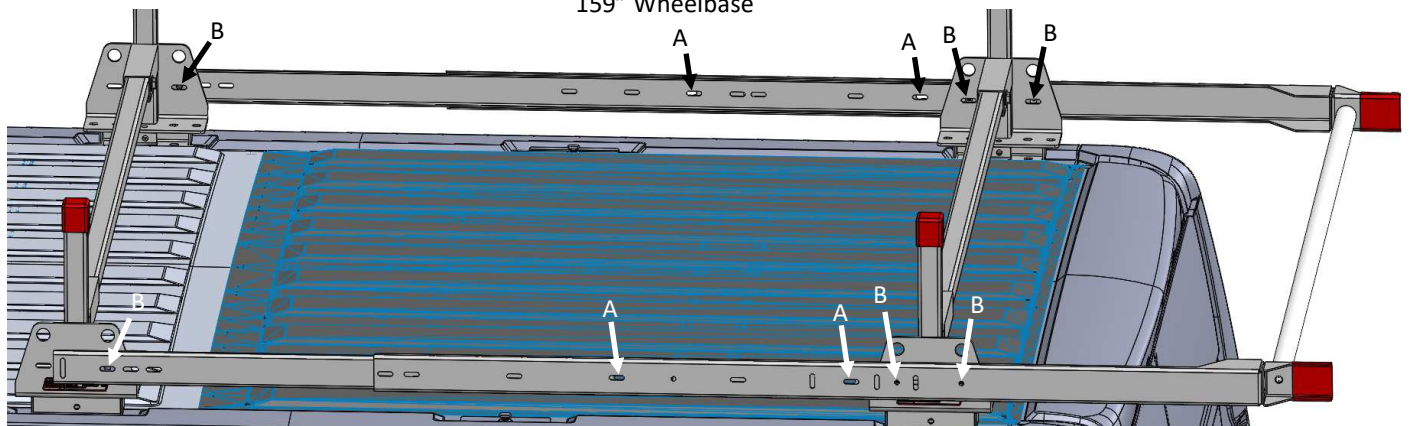
*On a 3-bar Rack, do not use the Extensions—Use these points to mount Arms to middle Rack Stands.



136" Wheelbase



159" Wheelbase



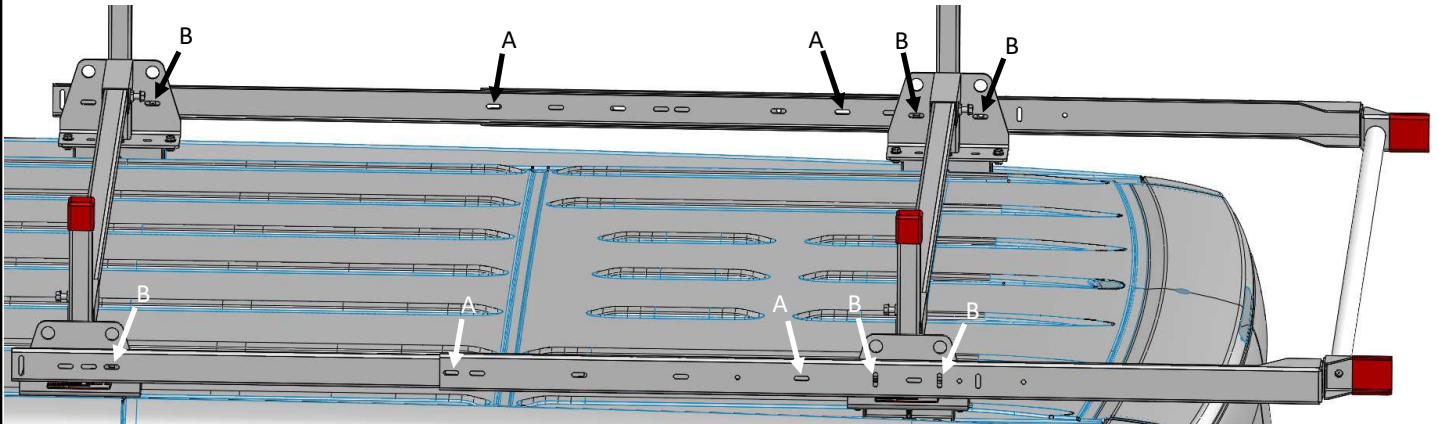
159" Wheelbase—Extended Length

MERCEDES SPRINTER ATTACHMENT POINTS

Shown with Rear of van to the right assembled to a direct-mounted 3-bar Rack unless otherwise stated. Actual alignment of parts may vary slightly.

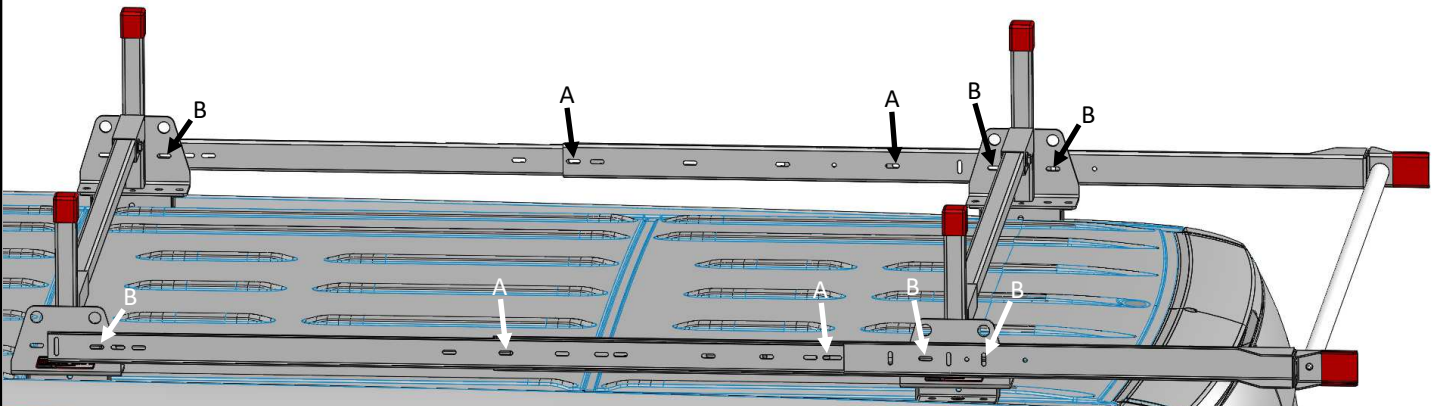
A = Arm to Arm Extension Attachment Point

B = Arm/Extension to Rack Stand Attachment Point

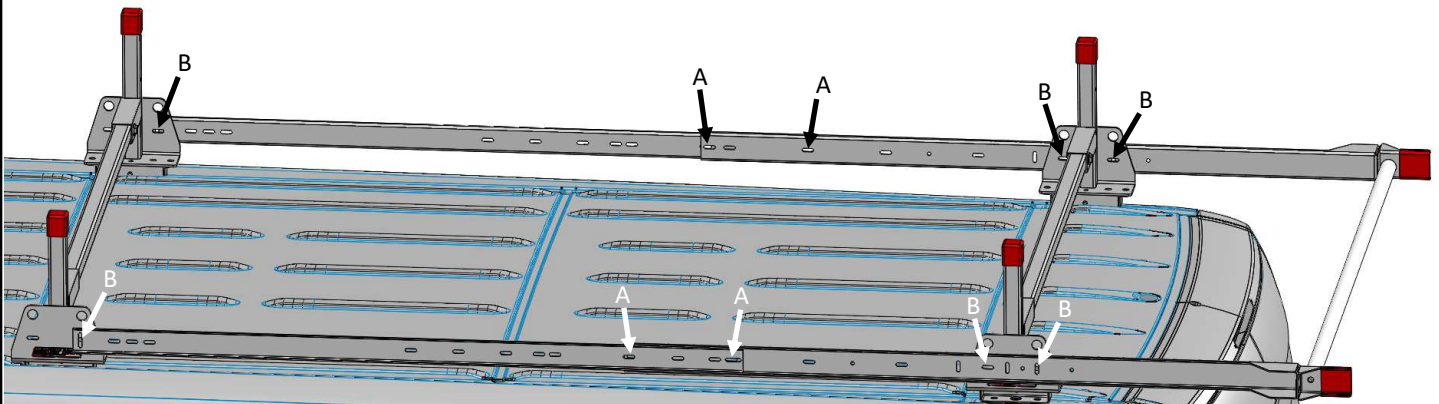


144" Wheelbase

(Low Roof Shown—Arms & Extensions will point outward on High Roof)



170" Wheelbase



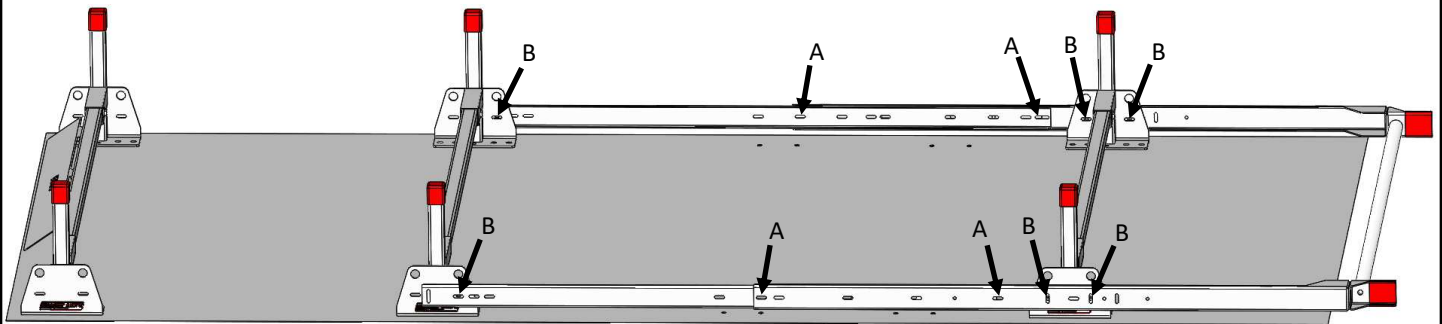
170" Wheelbase—Extended Length

NISSAN NV ATTACHMENT POINTS

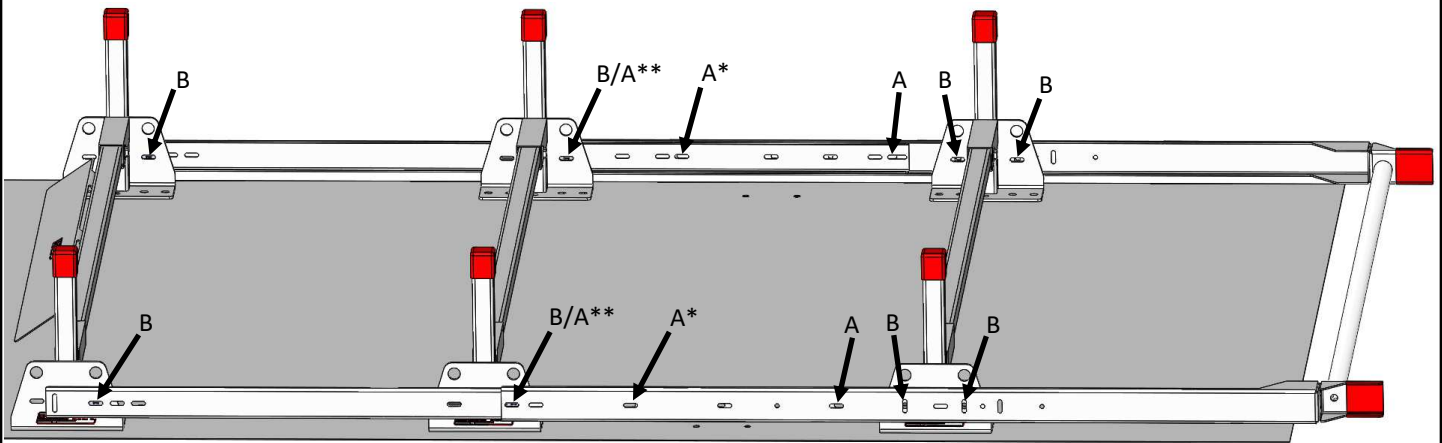
Shown with Rear of van to the right assembled to a direct-mounted 3-bar Rack unless otherwise stated. Actual alignment of parts may vary slightly.

A = Arm to Arm Extension Attachment Point

B = Arm/Extension to Rack Stand Attachment Point



146" Wheelbase—Low Roof



146" Wheelbase—High Roof

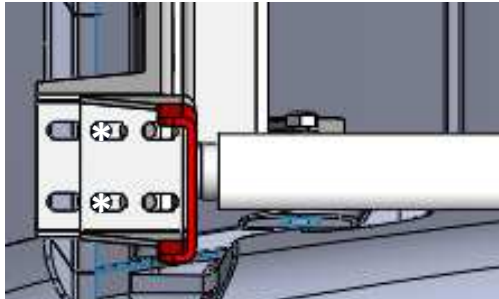
*On a 3-bar Rack, the Extensions are optional—Use these front "A" points if using the Extensions on a 3-bar Rack.

**On a 2-bar Rack, use these front "A" points.

REAR ATTACHMENT POINTS

Driver side shown as attached to a direct-mounted rack. Passenger side will be mirror image of the Driver side. Actual alignment of parts may vary.

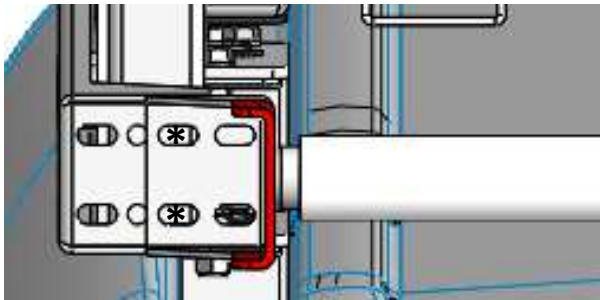
Asterisk (*) Attachment Point



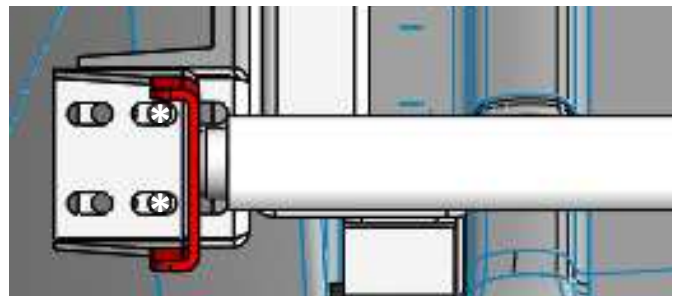
Ford Transit—All Roof Heights



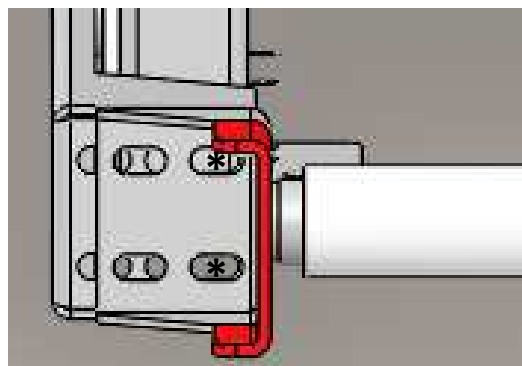
RAM ProMaster—All Roof Heights



Mercedes Sprinter—Low Roof



Mercedes Sprinter—High Roof



Nissan NV—All Roof Heights