



# No-Drill Installation for WM System "Light" Series Non-Swivel Ramps RAM ProMaster Application



## INTRODUCTION:

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Thank you for choosing a WM System loading ramp for your cargo van application. Please read the following installation instructions completely before beginning your installation. Wear protective gear that's appropriate for the parts and tools being handled for safety.

The hardware included in this mounting kit is our new optional no-drill hardware for non-swivel ramps. With this design, no drilling into the vehicle floor is required, which differs from the standard mounting procedure for non-swivel ramp models. There are four reasons to consider using this new optional hardware:

- 1) The hardware doesn't require drilling.
- 2) The ramp can be easily positioned anywhere from left to right across the rear threshold of the van.
- 3) It allows for quick release and removal from the cargo area, on-demand. Simply remove 4 bolts.
- 4) This mounting kit doubles as a heavy-duty rear threshold protector.

These instructions apply to all versions of the RAM ProMaster, encompassing all roof heights and wheelbases.

## INSTALL PREP:

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Prior to beginning installation, you'll need to evaluate your cargo flooring/liner situation.

If your vehicle has bare metal flooring, no alterations are needed. Proceed with the installation.

If you have a factory-provided rubber cargo liner, you can install the mounting plate on top of it for a seamless look. Prior to installation, it's recommended to trim back the insulation found on the back side of the rubber mat to ensure a solid foundation.

If you have a wood or composite floor, there are 2 options:

1. Follow along through to the mounting plate assembly, and then mark with a marker the leading edge of the mounting plate onto the wood floor. Use a saw and trim back the wood floor to allow the plate to sit flush and create a seamless transition with the mounting plate.
2. The mounting plates have been designed with slotted holes on Plates A and B to allow for up to  $\frac{3}{4}$ " in flooring height. They can be installed directly on top of a solid floor surface, **however**, the assembled kit will float  $\frac{1}{4}$ " above the floor due to the joining plates that sit below the hardware. This is o.k. as it allows for placement of carriage bolts that will attach the ramp to the mounting kit.

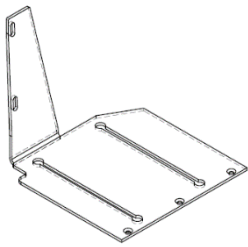


## TOOLS REQUIRED:

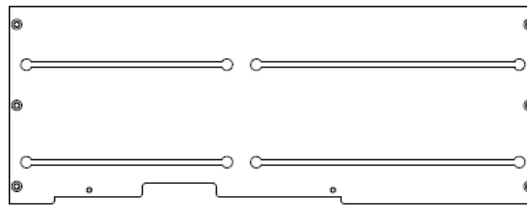
- There are only a few tools required to complete the installation, as outlined below. With these tools alone, you'll complete the mounting hardware and ramp installation in about 30 minutes.
  - Impact wrench
  - 3/16" Allen key on a socket
  - 9/16" socket or wrench
  - 1/2" socket or wrench
  - T40 socket
  - 7/16" socket
  - 7/16" wrench



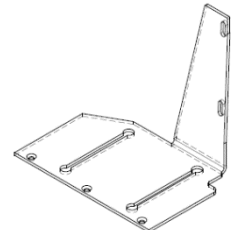
## MOUNTING KIT PARTS INCLUDED:



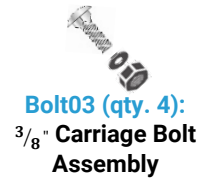
**A:**  
Driver Side Plate



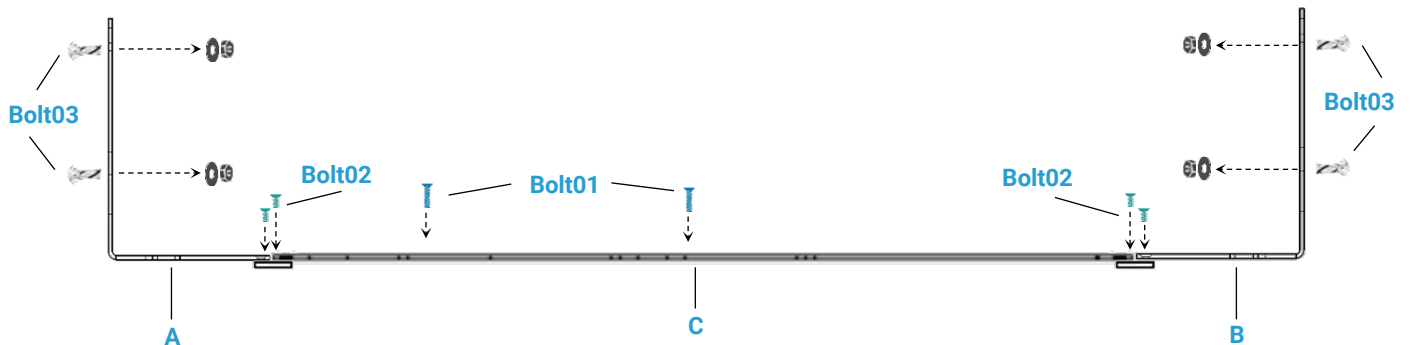
**C:**  
Infill Plate



**B:**  
Passenger Side Plate



## MOUNTING KIT ASSEMBLED DIAGRAM (FRONT VIEW):

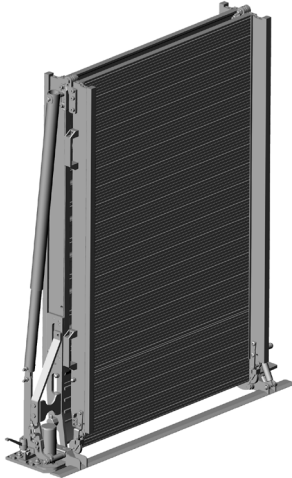


## MOUNTING KIT INSTALLATION:

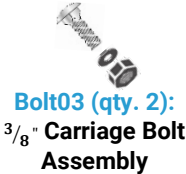
1. Using a T40 socket, remove the 2 factory-supplied bolts from both rear threshold locations as shown in photo at right. Bolts can be discarded and will be replaced in step 5.
2. Identify **Plate A** and place it on the driver's side of the vehicle, hugging the rear door jamb. Place **Plate B** in the same position on the passenger's side.
3. Identify **Plate C**, the largest infill plate, and place it in between Plates A and B, adjusting their position as needed until the plates press tightly into place, and all 6 countersunk holes align with the joining tabs below.
4. Using **Bolt02** and your 3/16" Allen on the impact wrench, tightly fasten Plates A, B and C together.
5. Using **Bolt01**, fasten the plate to the vehicle floor using the factory-supplied pre-threaded holes that were exposed in step 1. Leave these bolts slightly loose to allow for adjustment/positioning in next step.
6. Using the **Bolt03** assembly, secure Plates A and B to the driver and passenger side door jambs via the 2 pre-slotted holes, with the bolt on the inside of the body cavity and washer and nut on the outside. Tighten using the 9/16" socket on impact.
7. As a final step to install the mounting hardware, ensure all bolts are securely fastened. Proceed to ramp installation.



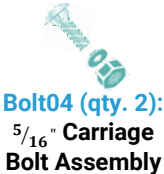
# RAMP INSTALLATION PARTS INCLUDED:



Ramp and ramp base  
(pre-assembled)

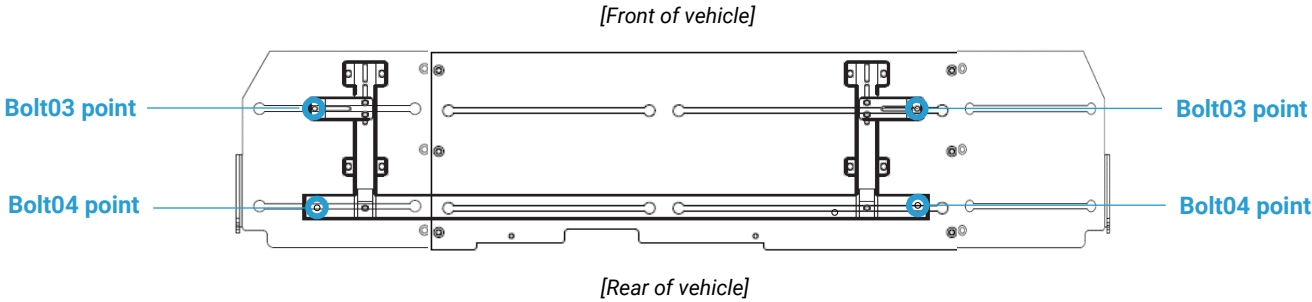


Bolt03 (qty. 2):  
3/8" Carriage Bolt  
Assembly



Bolt04 (qty. 2):  
5/16" Carriage Bolt  
Assembly

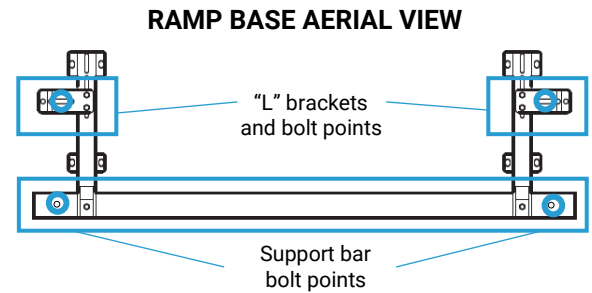
# MOUNTING KIT AND RAMP BASE AERIAL VIEW:



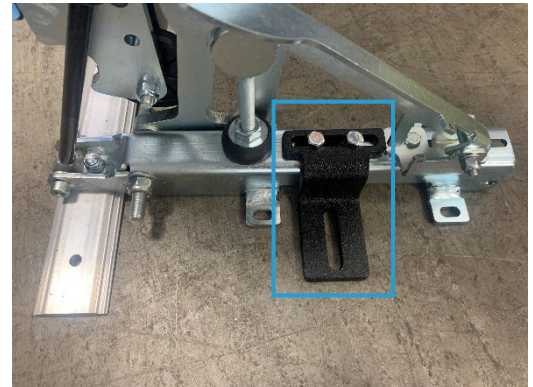
Note: Ramp can be positioned anywhere from left to right across the mounting plate.  
Positioning shown above is only an example.

## RAMP INSTALLATION:

1. Take note of the two “L” brackets on the base of the ramp, highlighted at right. Typically, these brackets are already loosely attached to the ramp base, but if yours were provided loose in the hardware package, loosely fasten the “L” brackets to each side of the ramp base using the provided  $\frac{1}{4}$ ” bolts, nuts and washers (2 on each side, 4 total). Final tightening will happen in step 5.
2. Lift Ramp into the vehicle’s cargo area and place on mounting plate in the desired positioning from left to right. The Support bar should align with the channel closest to the rear of the vehicle, and secondarily, the “L” brackets should align with the forward channel closest to the front of the vehicle. The “L” brackets should be loosely fastened to the ramp base to allow for repositioning as needed to align with the forward channel.
3. Insert Bolt04 into rear channel closest to the rear of the vehicle on either side of the ramp, and slide bolts across into position under Support bar bolt point.
4. Insert Bolt03 into the forward channel that aligns with the “L” brackets on either side of the ramp and slide across into position under “L” bracket bolt point.
5. At this point, verify that the ramp is in the desired position. Once in final positioning, tighten “L” bracket bolts onto the ramp base using  $\frac{7}{16}$ ” socket and wrench. Fasten washers and nuts onto each Bolt04 using a  $\frac{1}{2}$ ” socket, and onto each Bolt04 using a  $\frac{9}{16}$ ” socket.



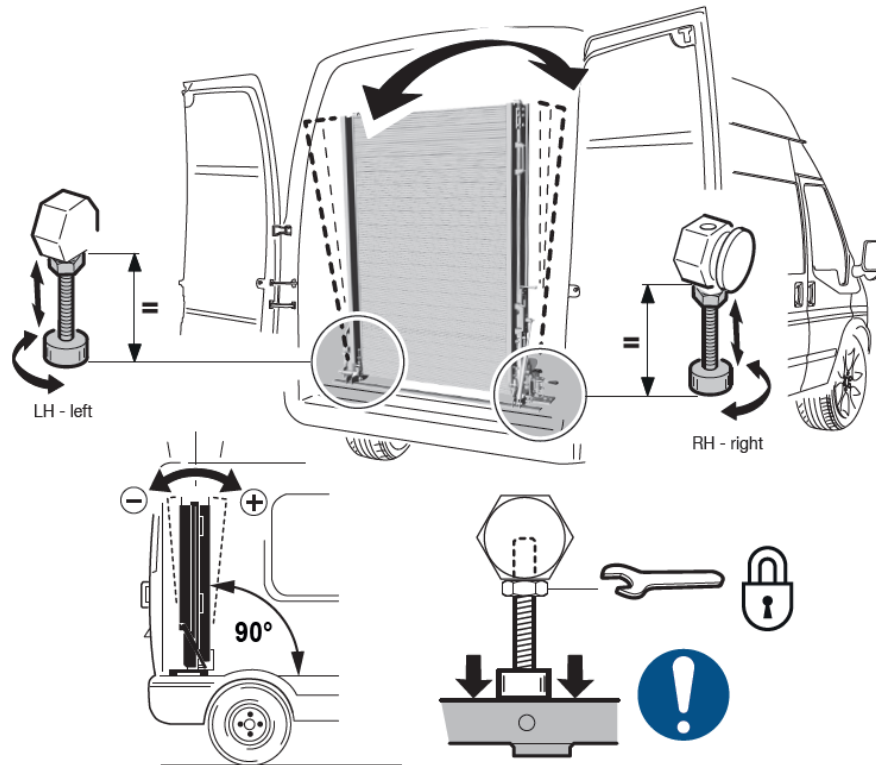
**“L” BRACKET PHOTO**



## RAMP ADJUSTMENTS:

The ramp has two points of adjustment:

1. The top of the folded ramp can be pitched forward or rearward for a proper fit inside the vehicle. This adjustment may be beneficial if you have interior shelving, insulation package or to maximize cargo space. It is performed most easily when ramp is deployed as it takes the pressure off the black bumpers on threaded studs. Use a 17mm wrench to loosen lock nuts and then thread the stud with the bumper either in or out to change the pitch. Store ramp and verify you like the pitch. Retighten lock nuts. Refer to diagram below for further instruction.



2. There is a locking lever on the passenger side of the ramp that limits travel when stowed. It is important to verify good contact is being made between the hook and stud, otherwise the ramp will move and potentially damage the rear doors or cargo when the vehicle is in operation. If needed, loosen bolts that hold locking lever and slide forward/rearward until hook makes good contact. Tighten bolts.

