



No-Drill Installation for WM System "Light" Series Non-Swivel Ramps Ford Transit Application



INTRODUCTION:

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) When the ramp is removed, this mounting kit acts as a heavy-duty rear threshold protector.

These instructions apply to all versions of the Ford Transit, encompassing all roof heights and wheelbases. There is one exception: if you happen to have a rear AC on the driver side, this mounting hardware is not compatible with your vehicle.

In addition to these written instructions, we have a 3-part video series walking through each step of the installation process posted on YouTube, accessible via the below link. We encourage installation teams and end users to view these videos to aid in the installation, adjustment, and operation of the ramp.

VIEW INSTALLATION VIDEO SERIES ON YOUTUBE:

<https://www.youtube.com/watch?v=Jk4RdCeklZE&t=56s>

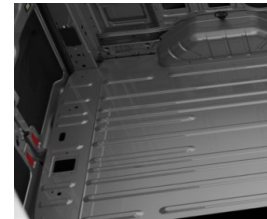
INSTALL PREP:

1. If your vehicle came with a factory-provided plastic threshold, you'll remove the threshold permanently. It will not be re-used, and our mounting hardware will completely replace it.



2. Lastly, 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, you'll need to trim back the insulation found on the back side of the rubber mat, so it doesn't raise the height of the mounting plate.
- If you have a wood floor, follow along through to the mounting plate assembly, and then mark the leading edge of the mounting plate onto the wood floor, and trim back the wood floor to create a seamless transition with the mounting plate.

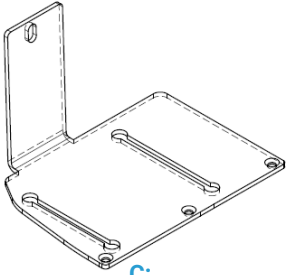


TOOLS REQUIRED:

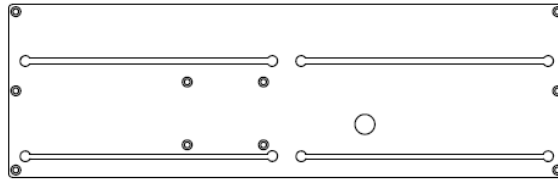
- There are only a few tools required to complete the installation, as outlined below. With these tools alone, you'll complete the mounting hardware install in about 10 minutes.
 - Impact wrench
 - 3/16" Allen key on a socket
 - 5/8" socket
 - 1/2" socket
 - 5/8" crescent wrench



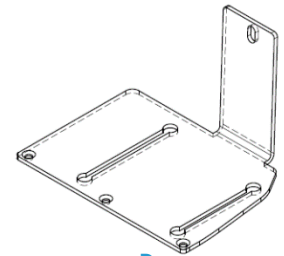
MOUNTING KIT PARTS INCLUDED:



C:
Driver Side Plate



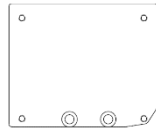
E:
Infill Plate



D:
Passenger Side Plate



A:
Underbody Support Plate



B:
Top Support Plate



Bolt01 (qty. 2):
5/16" x 1" Flathead
Countersunk Bolt

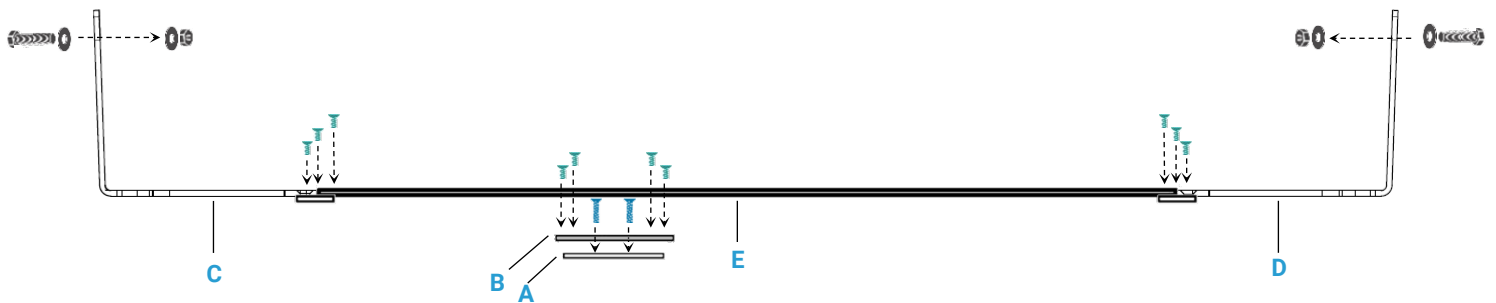


Bolt02 (qty. 10):
5/16" x 1/2" Flathead
Countersunk Bolt



Bolt03 (qty. 2):
7/16" Side Arm
Bolt Assembly

MOUNTING KIT ASSEMBLED DIAGRAM (FRONT VIEW):

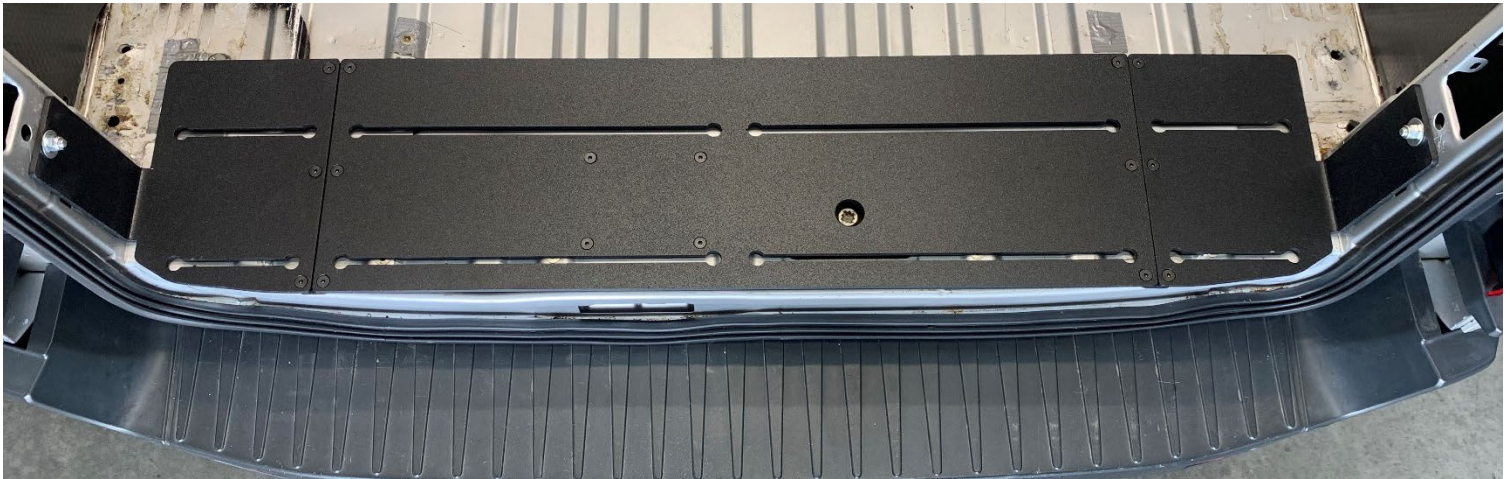
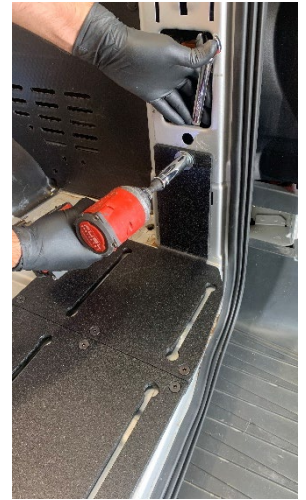


MOUNTING KIT INSTALLATION:

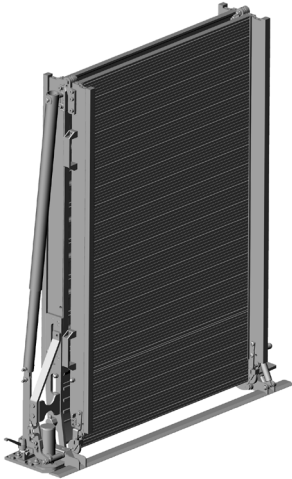
1. Identify **Plate A** and slide this plate into the small body cavity that's accessible from the rear door area, ensuring the pre-tapped holes are slightly offset to the left side for correct orientation. The pre-tapped holes should be visible from the above access point.
 - a. Note, only the lower 2 pre-tapped holes will be used in this application.
2. Place **Plate B** directly above the access point between the metal floor ridges, lining up its two countersunk holes with Plate A below. Loosely fasten Plate A and Plate B together, using **Bolt01** and your 3/16" Allen on the impact wrench. The plates should be mostly tight, but still loose enough to slightly adjust their position.
3. Place **Plate C** on the driver's side of the vehicle, hugging the rear door jamb. Place **Plate D** in the same position on the passenger's side.
4. Identify **Plate E**, the largest infill plate, and note its correct orientation allows access to the spare tire key. Place Plate E in between Plates C and D, adjusting their position as needed until the plates press tightly into place, and all pre-drilled corner holes align.
5. Using (qty. 4) of **Bolt02** and your 3/16" Allen on the impact wrench, loosely fasten Plate E to Plates C and D on all 4 corners to ensure proper alignment. Note, these bolts will be removed in the next step, so don't overtighten.
6. Using your crescent wrench or another shim, adjust Plate B below Plate E until the 4 center holes align. Use Bolt02 to loosely fasten the plates together through these center holes to ensure alignment. Carefully remove the bolts without moving Plate B below.
7. Carefully remove the 4 outside corner bolts on Plate E from Step #5 above, and gently lift and set aside the plate, being mindful not to move Plate B below. Firmly grip Plate B, and securely fasten both Bolt01s into their final position.



8. Reposition Plate E, and securely fasten all remaining Bolt02s into the 6 outside holes, and 4 center holes.
9. Remove the driver and passenger side plastic access panels to access the inside of the door jambs. Using the Bolt03 assembly, secure Plate C to the driver side door jamb via the 2 remaining holes, with one washer and nut on the outside, and one washer and bolt on the inside. Tighten using the 5/8" socket on impact and 5/8" crescent wrench inside the jamb. Repeat this step for Plate D on the passenger side.
10. As a final step to install the mounting hardware, ensure all bolts are securely fastened.



RAMP INSTALLATION PARTS INCLUDED:



Ramp and ramp base
(pre-assembled)

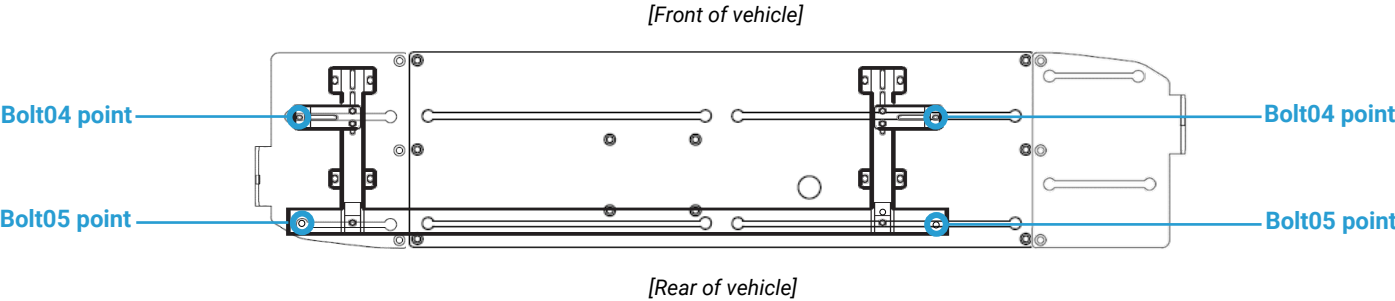


Bolt04 (qty. 2):
3/8" Carriage Bolt
Assembly



Bolt05 (qty. 2):
5/16" Carriage
Bolt Assembly

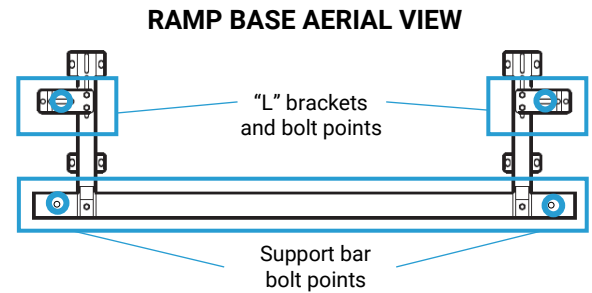
MOUNTING KIT AND RAMP BASE AERIAL VIEW:



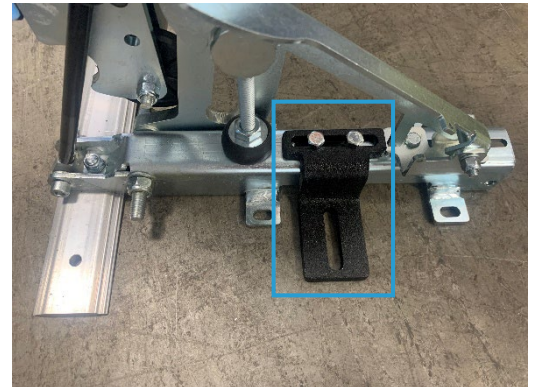
Note: Ramp can be positioned anywhere from left to right across the mounting plate.
Positioning shown above is only an example.

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 Bolt05 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 Bolt04 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.



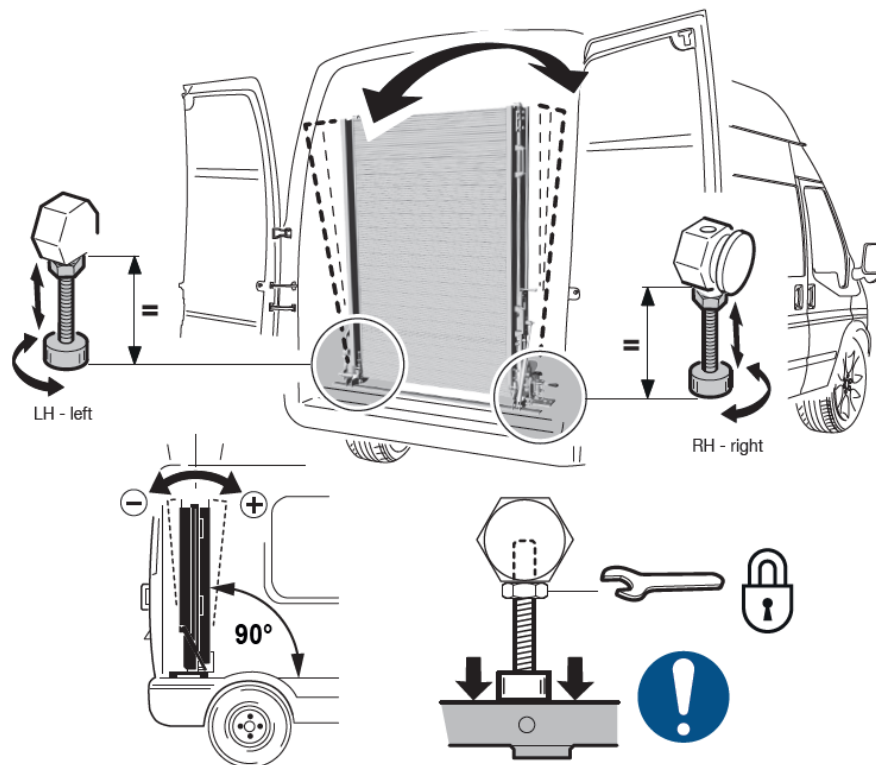
“L” BRACKET PHOTO



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.

