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

Mercedes Benz Sprinter 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 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 MB Sprinter, encompassing all roof heights and wheelbases.

INSTALL PREP:

1. If your vehicle came with a factory-provided plastic threshold, it can remain in place.

2. 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 wood or composite floor, there are 2 options:

   a) Follow along through to the mounting plate assembly (steps 4-6) 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.
   b) The mounting plates have been designed with slotted holes on Plates A and B to allow for up to ¾" in flooring height. They can be installed directly on top of a solid floor surface; **however**, the assembled kit will float ½" 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
    - T45 socket
    - 3/16" Allen key on a socket
    - 9/16" socket or wrench
    - 1/2" socket or wrench
    - 7/16" socket
    - 7/16" wrench

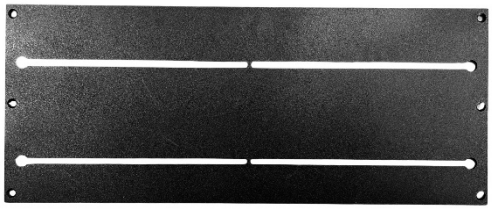
MOUNTING KIT PARTS INCLUDED:

A:
Pillar Bracket

B:
Subplate, Driver Side

C:
Subplate, Passenger Side

D:
Driver Side Plate



F:
Infill Plate

E:
Passenger Side Plate

Bolt01 (qty. 1):
$^{5}/_{16}$" x 2" Hex Head Bolt and Nut

Bolt02 (qty. 6):
$^{5}/_{16}$ x $^{1}/_{2}$" Flathead Countersunk Bolt

***Optional* Bolt03 (qty. 2):**
M8-1.25x60mm Hex Head Bolt

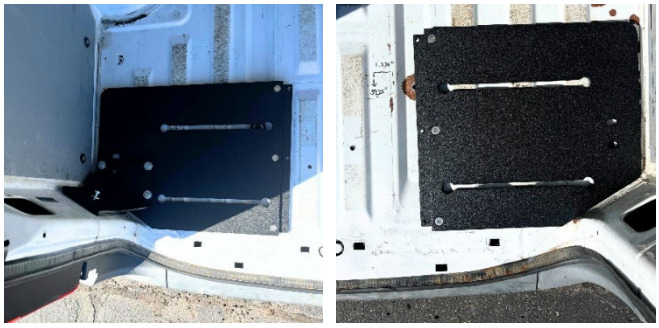
MOUNTING KIT INSTALLATION:

1. Using a T45 socket, remove the 2 factory-supplied tie-down bolts from both driver and passenger rear threshold locations as shown in photo at right.

2. On the driver's side, use Bolt01 and Pillar Bracket A as shown in the photos. Screw bolt into threaded hole and use as a "handle". Slip the plate into the body cavity as shown and allow the magnet to hold the bracket to the body. Then remove bolt (save to reuse later).

3. Use Subplates B and C to fill in the cavity below where the large mounting plates will be placed, on both the driver and passenger sides as shown on the right.

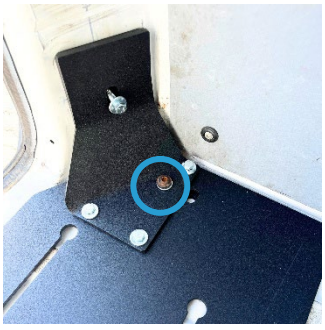
4. Identify Plate D and place it on the driver side of the vehicle, hugging the rear door jamb. Place Plate E in the same position on the passenger's side.



5. Identify Plate F, the largest plate, and place it in between Plates D and E, adjusting their position as needed until the plates press tightly into place and all 6 countersunk holes align with the joining tabs below. Please note: This plate is directional so ensure that the channel for the carriage bolts align.

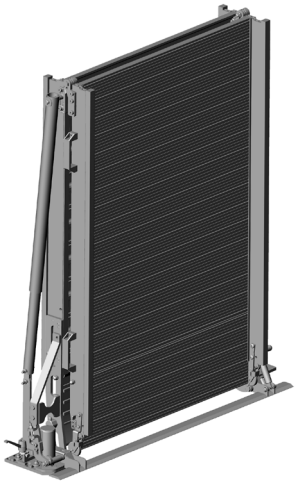
6. Using Bolt02 and your 3/16” Allen on the impact wrench, fasten Plates D, E and F together. Start all bolts first, and then fasten tightly to ensure a good fit.

7. Using Bolt01 from step 1, reinsert the bolt through the mounting plate into the door jamb on the driver side and carefully thread the bolt into the Pillar Bracket A. Next, fasten the plate to the vehicle floor using the factory-supplied pre-threaded tie down point locations that were exposed in step 1. Make sure the plate is pulled/positioned tightly toward the rear of the van and tighten. You may be able to reuse the factory tie down bolt and a T45 to tighten. If the factory tie-down bolts are not long enough due to your floor thickness, use optional Bolt03 instead and tighten using a ½” wrench or socket.



8. Next- Using your ½” wrench or socket, tighten down Bolt01 until tight.

RAMP INSTALLATION PARTS INCLUDED:

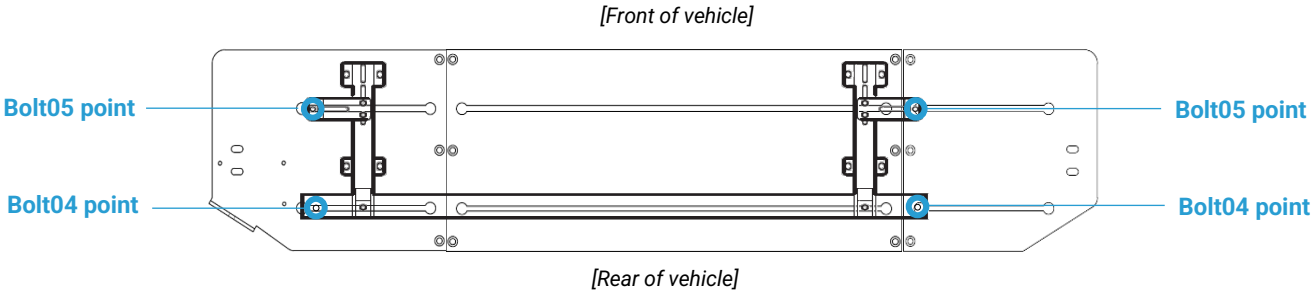


Ramp and ramp base (pre-assembled)

Bolt04 (qty. 2): $^{5}/_{16}$" Carriage Bolt Assembly

Bolt05 (qty. 2): $^{3}/_{8}$" Carriage Bolt Assembly

MOUTNING 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 ¼" bolts, nuts and washers (2 on each side, 4 total). Final tightening will happen in step 5.

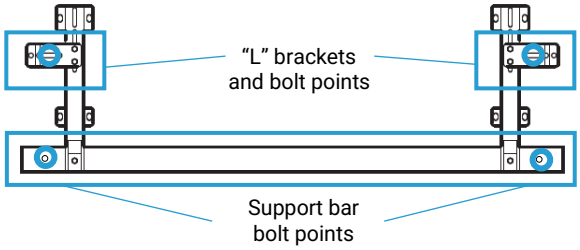
2. Lift Ramp into the vehicle's cargo area and place on mounting plate in the desired positioning from left to right. The Support bar should align with the channel closest to the rear of the vehicle, and secondarily, the "L" brackets should align with the forward channel closest to the front of the vehicle. 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 and into position under Support bar bolt point.

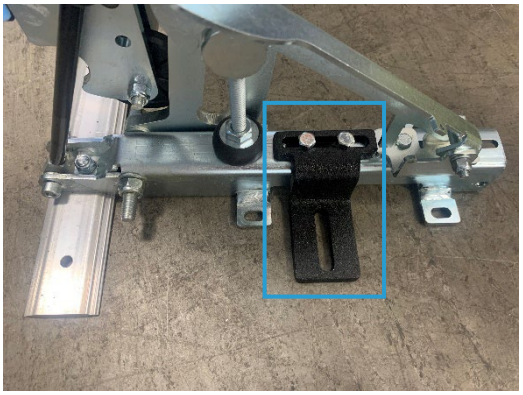
4. Insert Bolt05 into the forward channel that aligns with the "L" brackets on either side of the ramp and slide across into position under "L" bracket bolt point.

5. At this point, verify that the ramp is in the desired position on the mounting plate. Once in final position, tighten "L" bracket bolts onto the ramp base using 7/16" socket and wrench. Now, attach the ramp to the mounting plate by fastening washers and nut onto each Bolt04 using a 9/16" socket and each Bolt05 using a ½" socket.

RAMP BASE AERIAL VIEW



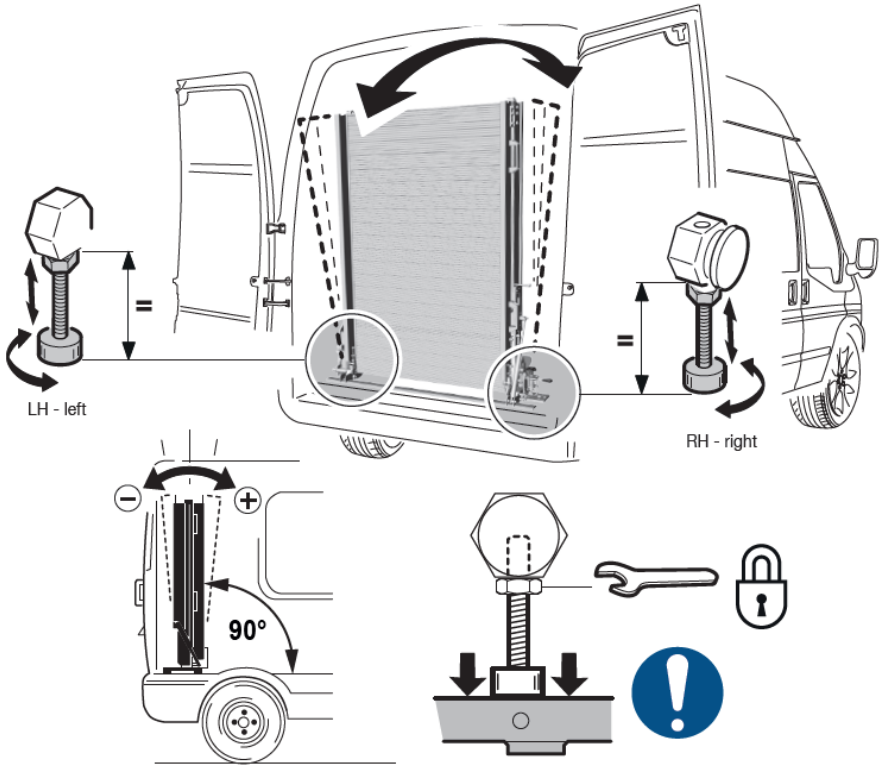
"L" BRACKET PHOTO



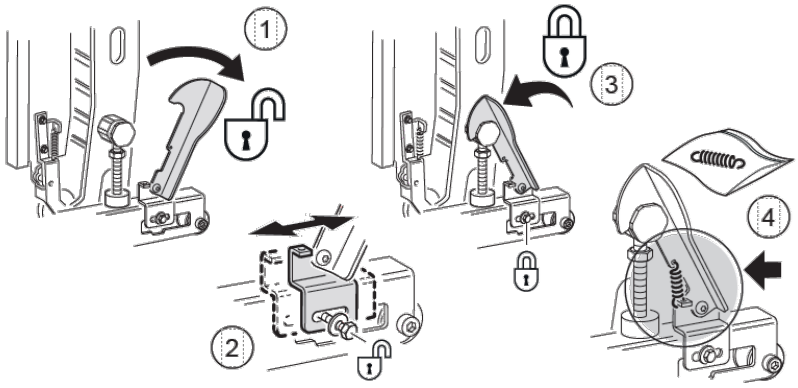
RAMP ADJUSTMENTS:

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.



Foam Block Placement:

1. As a final, optional, step, install the provided foam blocks on the rear doors to inhibit the side rails of the ramp from making direct contact with the rear doors.