

**Installation**

**Preparation**

**Components**



# **Rover Vans Ladder Tire Rack Installation Instructions**

For Ford Transit Rear Door, Driver's Side

Installation Time:  
60-90 Minutes

## Components

- \* Lay out all components on a clean work surface. Check to make sure all pieces that are needed are there and undamaged. \*



1. Ladder/Tire Rack Combo
2. Latch Bracket
3. Upper Hinge Bracket
4. Lower Hinge Bracket
5. Tire Supports
6. Tire Support Bolts
7. Mast Steps and Bolts
8. Center Wheel Mount Bolt
9. Winged Handle
10. Rover Vans Face Plate
11. Cone Spacer
12. Rubber Spacers

## Tools Needed

- Metric Socket Set
- Metric Wrench Set, or Adjustable Wrench
- Torque Wrench
- Allen Key Set
- Wire Cutters
- Utility Knife
- Rag and Cleaning Supplies

# Preparation

1. Using an 8mm Allen Key attach the Tire Supports to the Ladder Rack. Insert the Bolt and Lock Washer from behind, using Blue Loctite, fasten the Tire Support to the front of the rack. Tighten to 49 foot pounds.



2. Attach Center Wheel Mount Bolt from behind. Place Square Washer, Lock Washer and hand tighten Nut onto Bolt. Once the Mount Bolt is on, place Cone Spacer, Winged Handle and hand tighten.



3. Install the Mast Steps. Thread the Bolts and Washers from behind into the provided Foot Pegs.





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4. On the van itself, locate the door latch on the inner edge of the driver's side rear door. Using a T30 torx bit, remove the door latch. Next, remove the two bolts holding the locking mechanism.



5. Temporarily remove about 12 inches of the Door Seal, place bracket on the door. Mark on the door seal ribbed channel where it aligns with top and bottom of bracket. Cut relief lines in the ribbed channel. Clean the area thoroughly. Place a strip of the Vinyl Tape on the exposed area of the door, underneath the seal. Start from the outside edge, working your way inside the door. Cut out where the bolts attach.

6. Place Latch Bracket on the door, align holes on the bracket with bolt holes on the van. Place the previously removed bolts back in, and re-attach the Latch Handle and make sure the post is centered so the door will operate properly.



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7. Take a marker and trace the outer profile of where the hinges attach to the door. This will help us put the hinges back in the right place so the door closes properly.

8. Unlock and disconnect the Middle Latch so that the door is able to swing fully open.



9. Grab a friend and have them hold the bottom of the door to support its weight. Remove the three 13mm bolts attaching the Upper Hinge to the door.

10. Apply Vinyl Tape to the in side of the door, like we did in the latch area. Swing the hinge out, place the Hinge Bracket up and over the hinge so that the three vertical mounting holes are protruding outside the door. The Bracket should be bolted on the outside of the hinge, not sandwiched between the hinge and the door. Repeat Steps 7-9 for the lower hinge, as the process is the same.





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Note: The Rubber Spacers for the Hinge Brackets are not necessary for all vans. If your van has been previously modified or damaged these may be needed to achieve the most secure fit.

11. For attaching the Ladder Rack to the van, start by aligning and hand tightening the bolts on the upper and lower Hinge Brackets. Have your friend hold the Ladder rack up, while you place the Rubber Spacer between the Ladder Rack and the Latch Bracket, and secure it in place.



12. Once the Latch area is secure, make sure that no gaps are visible in the slots for the bolts on the Hinge Brackets. Fasten the top bracket in place. Once the top is fastened, leave about a 1/8 to 1/4 inch gap between the lower part of the Rack and the vans plastic cladding. Then secure the lower Bracket.

13. Once everything is fastened down, you can attach your wheel by removing the Winged Handle and Face Plate. Make sure the Center Support is centered based on the size of your wheel and tighten the nut. Place your wheel on the Center Support and put the Face Plate back on. Secure the Winged Handle until tight. Now you are ready for adventure.

