



RAIN GUTTER MOUNTED ROOF RACK INSTALLATION INSTRUCTIONS

PN: 210400, 210400.1, 210416, 210416.1
FORD, CHEVY, REGULAR BODY

Please read before beginning

- *Stainless steel hardware may bind together when tightening—It is recommended that you apply an anti-seize assembly lubricant to the threads of each bolt before assembly*
- *This installation requires two people*
- *Unless otherwise specified, refer to the general torque value at the end of the instructions for specified torque values*



Required tools

- Standard wrench set
- Adjustable crescent wrench
- (Optional) Leveling tool

Included hardware

Quantity

- | | |
|--|----|
| • 300174 – Roof rack mounting clips | 8 |
| • 70072 – 3/8"-16 x 1 1/2" SS Hex Head Bolt | 8 |
| • 70028 – 3/8" ID Stainless steel washer | 24 |
| • 70024 – 3/8"-16 Stainless steel nuts with nylon locking insert | 16 |
| • Antiseize Packet, 2g | 1 |

Install instructions

1. With someone assisting you, lift up the roof rack and rest it on the van's roof, with the mounting legs sitting in the rain gutters. Make sure the rear cross bar of the roof rack would be even with the back of the van gutter. **NOTE:—the narrow end of the roof rack should be towards the REAR of the vehicle.**
2. If the mounting legs do not fit inside the rain gutters width wise, place a large adjustable wrench on the leg's horizontal lip and push down or up to bend the legs in or out.
3. Place the roof rack mounting clips (300174) on the preassembled bolts and slide a washer (70028) and Nylock nut (70024) on top as pictured below in figure 1. Snug these down, just barely over finger tight.



Figure 1

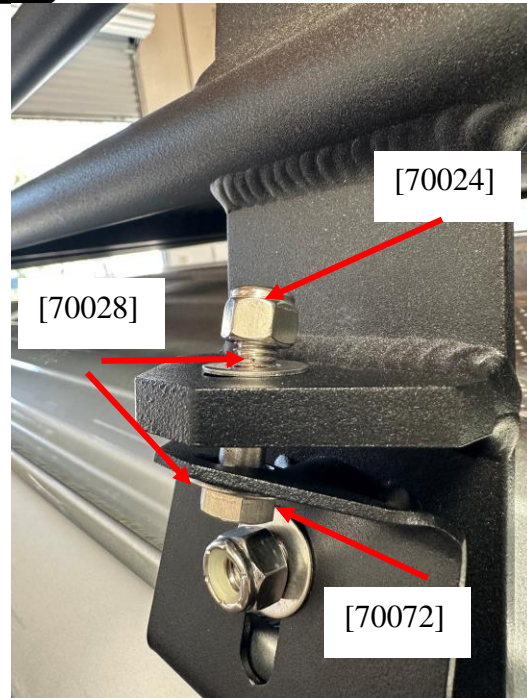


Figure 2

4. Insert (70072) into the vertical slot, with associated washers and nylock nut, as shown above in figure 2. Finger tighten this hardware as well.
5. Repeat this process for each of the legs that have bolt holes, **making sure not to tighten the mounting clips yet.**
6. Make sure that the rack is in place and level, then proceed by:
 - a. Tightening the nut on the horizontal bolt until snug. The stainless steel bracket should still be able to slide up and down freely. If not, loosen the nut until the bracket can slide.
 - b. Begin to tighten the vertical bolt so that the stainless-steel bracket slides up and clamps the gutter rail of your van. The roof rack leg should be resting on the gutter rail, and the clamp should be tight against the underside of the gutter rail - **do not over-tighten. The mounting clip will deform.**
 - c. Fully tighten the nut on the horizontal bolt.
7. When finished the roof rack mounts should look like figure 3 below.



8. During the first 100 miles of driving, periodically check the bolts to make sure none have loosened or that the clamps are not secure. If the roof rack is not resting in the gutter rail, but the stainless-steel clamp is resting underneath the gutter rail, it is possible you may have fully tightened the horizontal bolt's nut in step 7a. not allowing the clamp to slid up or down as you tighten the vertical nut in step 7b.

General Torque Values			
Size	Stainless Steel	Zinc	Grade 8
#6-32	10 lb-ft	--	--
#8-32	18.4 lb-ft	--	--
#10-32	26.6 lb-ft	--	--
1/4"-20	5.3 lb-ft	7.8 lb-ft	9 lb-ft
5/16"-18	10.9 lb-ft	16 lb-ft	18 lb-ft
3/8"-16	19.4 lb-ft	28.3 lb-ft	33 lb-ft
7/16"-14	31 lb-ft	45 lb-ft	52 lb-ft
1/2"-13	47 lb-ft	69 lb-ft	80 lb-ft
M6	4.7 lb-ft	5.8 lb-ft	--
M8	11.3 lb-ft	14.1 lb-ft	--
M10	22.3 lb-ft	27.9 lb-ft	--
M12	38.9 lb-ft	48.7 lb-ft	--



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