



Bolt-On Box + Tire Carrier Installation Instructions

P/N 210715: Rear Door Bolt-On Box/Tire Carrier

Before you begin:

- **Maximum load capacity is 100 lbs on box/tire rack once installed.**
- Product must be used in conjunction with Transit Rear Door Ladder (P/N 210578), Sprinter Rear Door Ladder (210572), or Promaster Rear Door Ladder (210567); sold separately.
- Stainless steel hardware may bind together when tightening — apply an anti-seize assembly lubricant to the threads of each bolt before assembly
- Unless otherwise specified, refer to the general torque value at the end of the instructions for specified torque values.

Required Tools:

- Standard and metric wrench set
- Standard and metric socket set
- Hex key (Allen wrench) set

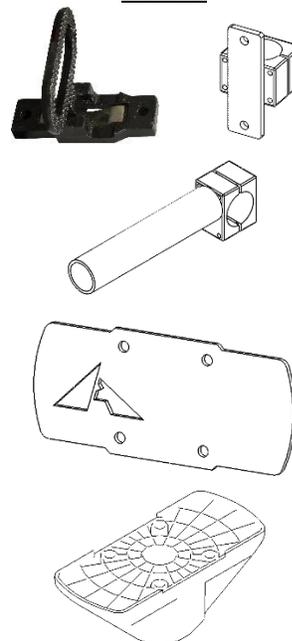
Included Hardware:



P/N	Description	Quantity
70348	3/8"-16 x 1.25" Carriage Bolt, SS	2
70028	3/8" Washer	3
70024	3/8"-16 Nylock Locking Nut	2
70480	3/8"-16 x 5" Hex Head Bolt, Fully Threaded, Zinc	1
70271	3/8 Internal Tooth Lock Washer, Zinc	1
70478	Bolt, 1/4"-20 x 1/2", Tamper-Resistant, SS	4
70479	Bit, 5/32" hex, tamper-resistant	1
70246	Antiseize Bolt Lubricant Packet, 2g	1
401132	1/4" Hex Bit Holder, Key Chain	1

PN	Description	Quantity
350716	Bolt-On Folding Step Mounts (pre-assembled)	3 ea
350662	Bolt-On Tire/Box Supports	2 ea
351648	Universal Tire Mount, Wheel Wedge Cover	1 ea
301629	Universal Tire Mount, Wheel Wedge	1 ea

Picture

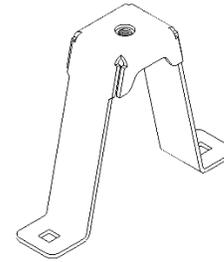




351133

Universal Tire Mount,
Bracket

1 ea



Tire Rack Installation:

Loosely install the bolt-on tire/box supports onto the bottom crossmember of the rack as shown in Figure 1.



Figure 1: Bolt-On Supports Loosely Bolted to Lower Crossmember

1. Starting with support closest to tail light – sliding support as close to the tail light as possible and then rotate into desired position and tighten.

PRO TIP: Reference Figure 2 for suggested mounting orientation.

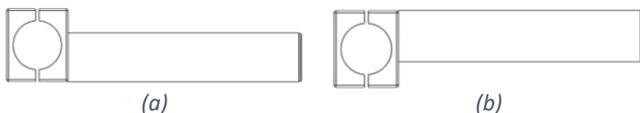


Figure 2: Suggested Orientation for Tire (a) and Box (b)

2. Repeat for the support opposite the center post, being sure that the spacing is equal from the center post, and the orientation is the same for both supports.

3. Loosely fasten the Tire Mount Bracket to the slotted channel, going through the bracket first, using the 3/8" carriage head bolts, washer, and nuts to mount. Reference Figure 3.

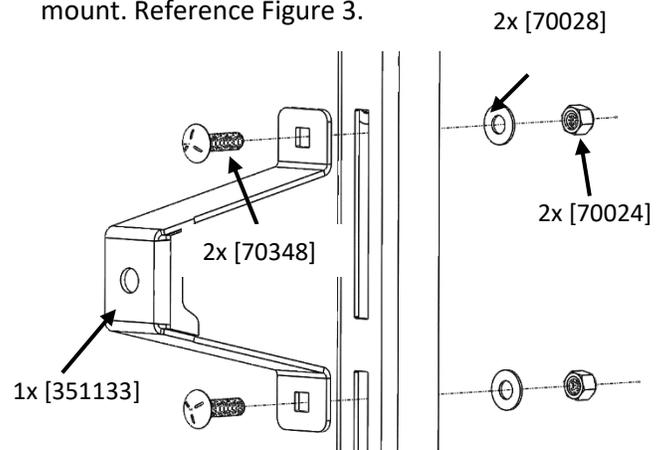


Figure 3: Mounting Tire Bracket

4. Place the mounting bracket in the correct location by placing your tire on the tire supports and then adjusting the bracket vertically until the center hub aligns with the center of the bracket.
5. Once the bracket is in place remove the tire and tighten the hardware holding the bracket in place.
6. Place the tire on the support stands and mount the wheel wedge, using the 5" hex head bolt, washer and star washer. Reference Figure 4 and 5.

NOTE: Tighten down bolt until snug with wedge (it should be very hard/near impossible to rotate the wedge by hand. Once at this point tighten 2 more full rotations.

Note: Preferred torque spec. on the following vehicles (next page).



Sprinter is 70-inch pounds
Ford Transit is 35-inch pounds
Dodge Pro-master is 70-inch pounds



Figure 5: Tire Mount Assembled

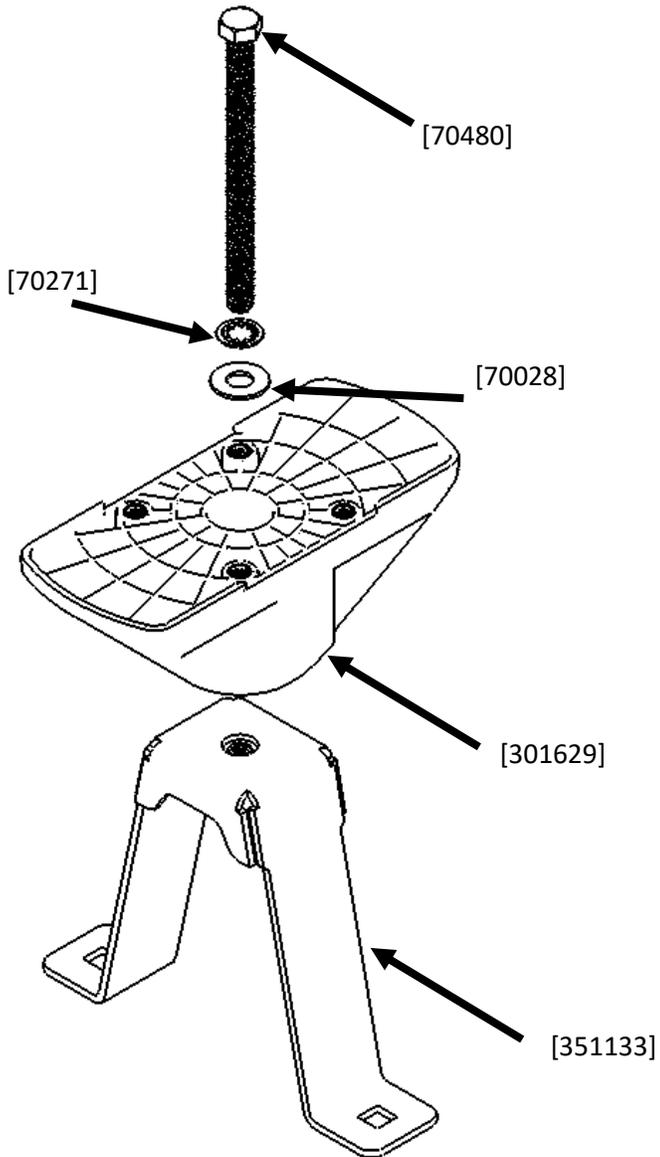


Figure 4: Wheel Wedge Assembly

7. [Optional] If desired, you can mount a Rotopax to the wheel wedge. Before installing the cover [Step 10] first, bolt the rotopax mount to the wheel wedge using the security bolts [70478], as shown below in figure 6. Then simply install the rotopax onto the mount. The cover will not be used if using the rotopax mount.



Figure 6: Rotopax Mount



8. Once everything is securely fastened, bolt the cover to the wheel wedge using the included special bit [70479], and bolts [70478] . Reference Figure 6.

9. Check mounting hardware after first 100 miles of driving and periodically after to verify hardware has not become loose from vibration.

10. Your new Aluminess tire rack is now installed, enjoy!

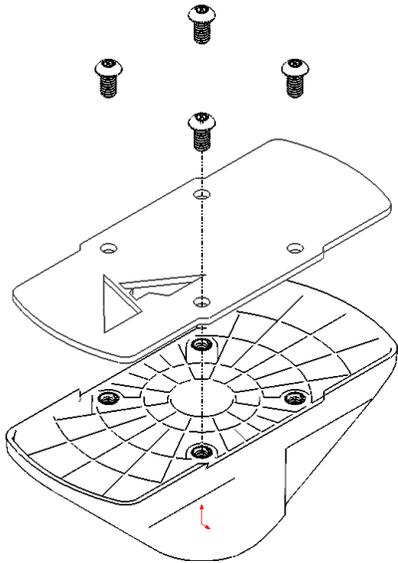


Figure 6: Wheel Wedge, Cover Mounting



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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