



5 lb Manchester Propane Tank Holder Strap

Installation Instructions

P/N 210615



Before you begin:

- *This product is compatible with either the Transit or Sprinter Rear Door BackPACK products, any Frontloader mounting plate, or anywhere four holes are drilled!*
- *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 Socket Set
- Standard Wrench Set

Included Hardware:

<u>PN</u>	<u>Description</u>	<u>Quantity</u>
70454	Bolt, Carriage, SS, 5/16"-18 x 1"	4 ea
70019	Nut, Nylon-Locking, 5/16"-18, SS	4 ea
70020	Washer, 5/16" ID, SS	8 ea
70246	Antiseize packet, 2g	1 ea

1. Route strap through the two back holes in the tank holder tray as shown in Figure 1 below.



Figure 1: Tank Holder Strap Routing



2. Route strap through the buckle as shown in Figure 2 through Figure 4.



Figure 2: Buckle Strap Routing 1



Figure 3: Buckle Strap Routing 2



Figure 4: Buckle Strap Routing 3



3. Latch the strap around the propane tank to adjust strap appropriately. Put the hook through the latch, as shown in Figure 5, and push the latch lever back to secure the propane tank. Pushing the latch lever back should tighten the strap.



Figure 5: Propane Tank Secured with Latch and Hook

4. Remove the propane tank from the bracket and determine the desired location to mount it.
5. Determine which mounting technique to use:
 - i. BackPACK *Frontloader* technique for easy installation (proceed to step 6).
 - ii. Traditional mounting to BackPACK or other products (skip to step 10).

Frontloader Technique:

6. Loosely install four (4) carriage bolts with a corresponding washer and nut onto the bracket. Ensure the back of the carriage bolt is facing the rear (Figure 6). Hand-tighten the nut onto the bolt until the nylon is reached, leaving the bolt loose on the propane tank holder.

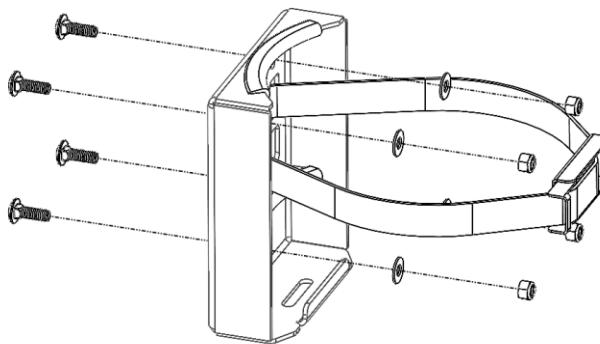


Figure 6: Propane Tank Mounting Hardware, Frontloader Technique



7. Insert the back of the first two (2) carriage bolts into the relief at the leading edge of the corresponding slots on the BackPACK (Figure 7/ Figure 8). Keep in mind the desired final mounting location on the BackPACK.

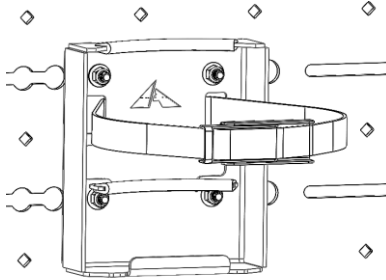


Figure 7: Propane Tank Mounting, Front Loader Technique

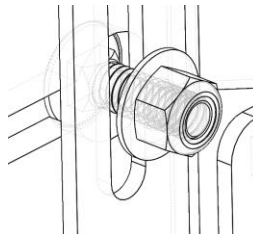


Figure 8: Hardware Orientation

8. Orient the carriage bolt and slide the propane tank holder over until the next set of carriage bolts can be installed through the relief cut on the second set of slots.
9. Slide propane tank holder into desired location and tighten all four (4) bolts.

Traditional Mounting:

10. Install the propane tank holder using the carriage bolts, washers, and nuts into the desired location (Figure 9). The hardware can be installed through the holes or the slots.

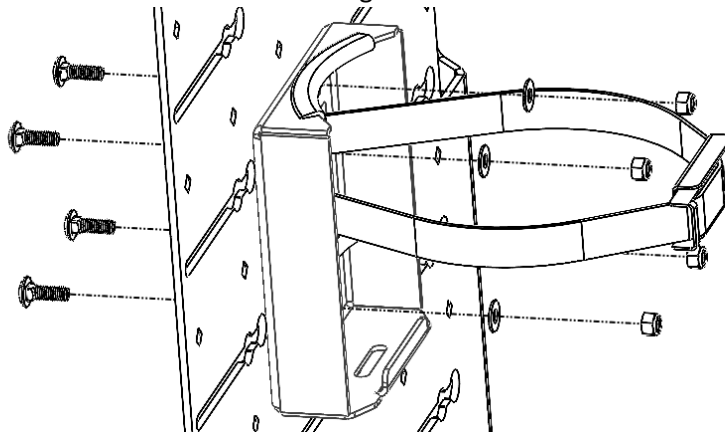


Figure 9: Propane Tank Traditional Mounting

11. Your Propane Tank Holder is now installed. Be sure to check all hardware after the first 100 miles of driving and periodically thereafter. Enjoy!



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	--



Aluminess Products, Inc. (Aluminess) Warranty

1. Lifetime Warranty. Aluminess provides a lifetime warranty of its products to the original retail purchaser provided such products are installed correctly according to the official Aluminess installation instructions. Any modification to the original product design, function or use of any Aluminess products will void the Aluminess warranty. Aluminess will have sole discretion to determine warranty eligibility for any and all Aluminess products sold to any purchaser.
2. Limited Remedies. Subject to any limitations and exclusions described herein, and subject to Aluminess' determination of warranty eligibility, Aluminess will remedy defects in product materials and/or workmanship of any product by repairing or replacing such defective product, which shall be within Aluminess' sole discretion, without charge for parts or labor. Aluminess may elect in its sole discretion not to replace a defective product and issue the purchaser a refund equal to the purchase price of any defective product or purchaser may elect to receive a credit (equal to such refund) toward the purchase of new Aluminess products. Repair or replacement of a defective product or providing a refund or credit to purchaser will be purchaser's exclusive remedy under this warranty. Damage to a purchaser's vehicle, cargo and/or any other person or property is expressly excluded from the Aluminess warranty.
3. Modification. Aluminess products are designed to be mounted to factory equipped vehicles. Aftermarket additions to such vehicle may or may not require modification of an Aluminess product. The Aluminess warranty does not extend to any Aluminess products that are modified to fit around other otherwise accommodate or be compatible with any aftermarket vehicle accessories or alterations. Aluminess does not guarantee fitment with any other aftermarket accessories or modified vehicle, and it is up to purchaser to determine fitment prior to purchasing any Aluminess product.
4. Damage. Damage to Aluminess products due to normal wear and tear, including, but not limited to, cosmetic issues and superficial scratches, or structural damage to an Aluminess product in connection with any vehicle collisions or other structural degradation in connection with the use of such vehicle (on road or off road) will not be covered by the Aluminess warranty. Additionally, any product user's misuse, neglect, overloading, improper maintenance or improper installation or repair of any Aluminess products are not covered under the Aluminess warranty.
5. Use of the Products. Aluminess products are designed for off road vehicle use. Installing Aluminess products on a vehicle may exceed the factory designed capabilities of such vehicle and could potentially lead to vehicle damage. Aluminess will not be responsible for any damage caused to a purchaser or user's vehicle or any vehicle accessories caused by the use of any Aluminess products. It is to the sole responsibility of purchaser to inspect and ensure that the intended vehicle and Aluminess products are suitable and compatible for travel on road and off road. No seller nor any manufacturer of Aluminess products will be liable for any loss, damage or injury directly or indirectly arising from the use of any Aluminess products. Before using any Aluminess products, the purchaser or user will determine the suitability of the product(s) for their intended use(s) and the purchaser or user shall assume all responsibility and risk in connection therewith.
6. DISCLAIMER. THE ALUMINESS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, AND EXCEPT FOR THE ALUMINESS WARRANTY SET FORTH HEREIN, ALUMINESS MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO ANY ALUMINESS PRODUCT, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE.

EXCEPT FOR PURCHASER'S LIMITED REMEDIES SET FORTH HEREIN, IN NO EVENT WILL ALUMINESS BE LIABLE FOR ANY LOST PROFITS, LOST SALES, OR FOR ANY CONSEQUENTIAL, DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES OR FOR ANY OTHER DAMAGES OF ANY KIND OR NATURE.
7. Compliance. Aluminess cannot guarantee that its products comply with all Federal, State, and/or local laws. Purchaser is advised to review local vehicle codes for compatibility prior to purchase to ensure that the installation and use of any Aluminess products does not violate any applicable laws.
8. Warranty Claim Submission. Purchaser will responsible for returning any defective product to Aluminess for warranty consideration and purchaser may be responsible for all costs associated with shipping the product to and from Aluminess. Prior to returning any product for warranty, purchaser must contact Aluminess Products Inc. for proper authorization.