TRAIL FORTRESS

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Rough Country 49414551 Installation Instructions

5'7" Bed Hard Tri-Fold Flip Up Cover for Tundra (2007–2021)

Part number: 49414551

trailfortress.com/rough-country-hard-tri-fold-flip-up-bed-cover-49414551

Scan for fitment, price and install help

Hard Tri-Fold Flip Up Bed Cover

for Trucks w/Factory In Bed Utility Rail System

Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation on the Rough Country Bed cover. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.
If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.
Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.
Periodically check all hardware for tightness.

KIT CONTENTS:
Hard Tri Fold Bed Cover x1
Driver Side Rail x1
Passengers Side Rail x1
Foam Stripping x1
Drain Tubes x2

Hardware Included:
Rail Clamps x6
8mm x 40mm Clamp Bolts x6
8mm x 25mm Clamp Bolts x6
Threaded Utility Track Inserts x 6

Utility Rail Relocation Brackets x8
(For use with 22-Up Tundra & 05-15 Tacoma)
6mm Pan head Bolts x8
6mm Button Head Bolts x8

TOOLS NEEDED:
Allen Wrench (Supplied)
Latch Allen Wrench (Supplied)



Rail mounting clamps shown on the next page for individual applications.

Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4”	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

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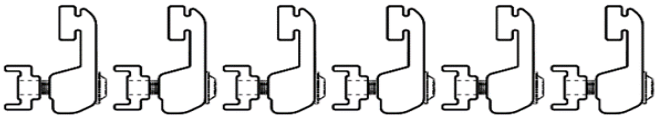
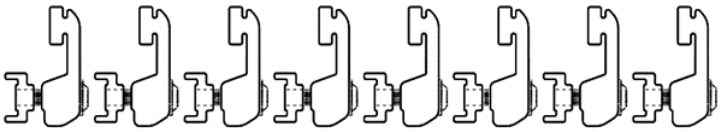
For use for Vehicles with factory Utility Rail

Application shown per utility rail mount

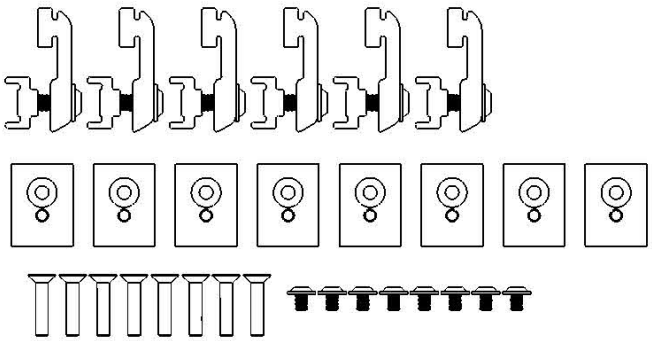
14-21 Tundra 5'7" Bed / 20-UP Jeep Gladiator



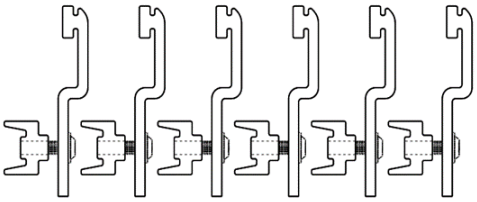
14-21 Tundra 6'7" Bed
22-UP Tundra 6'7" Bed & Utility rail relocation brackets x 6



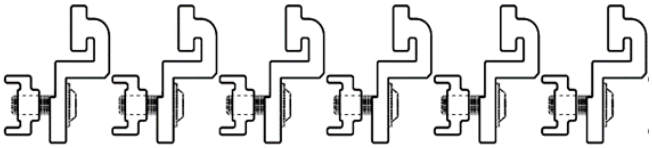
2022-UP Tundra 5'7" bed
(See Instruction sheet for utility rail relocation bracket installation)



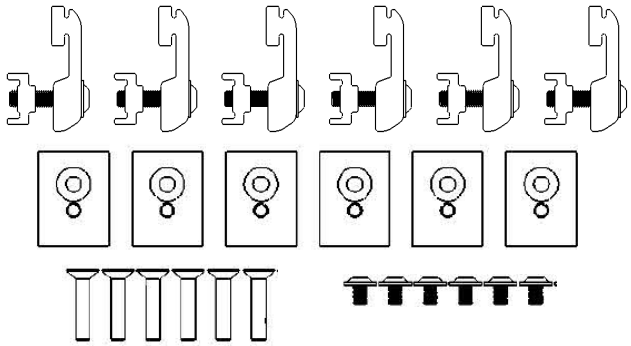
05-21 Nissan Frontier 5' / 22-23 Nissan Frontier 5'



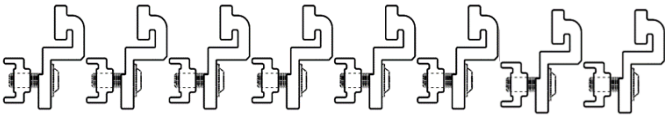
16-Up Toyota Tacoma 5'



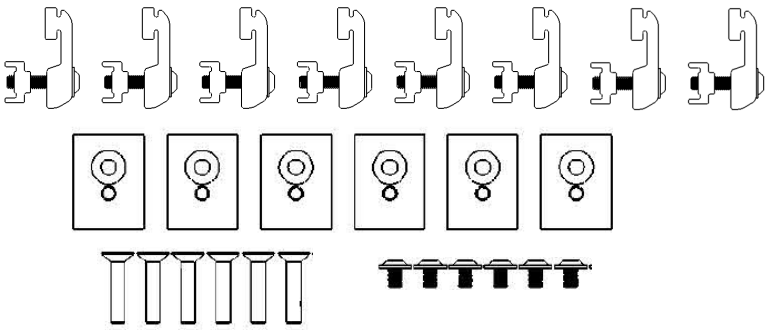
05-15 Toyota Tacoma 5'



16-Up Toyota Tacoma 6'



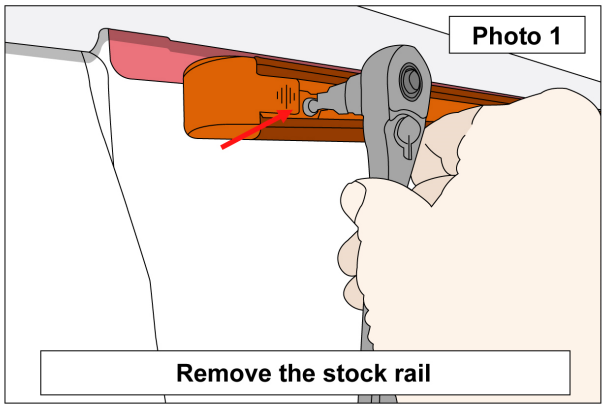
05-15 Toyota Tacoma 6'

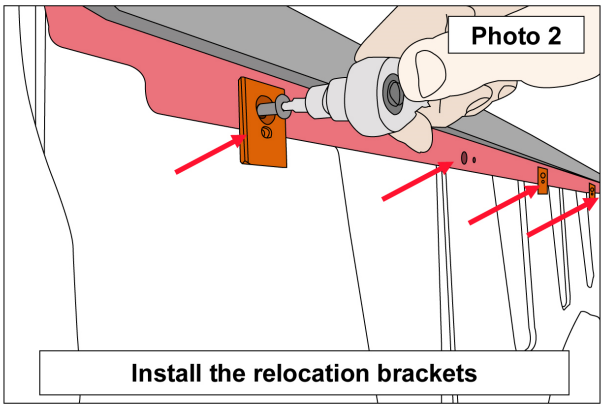


INSTALLATION INSTRUCTIONS

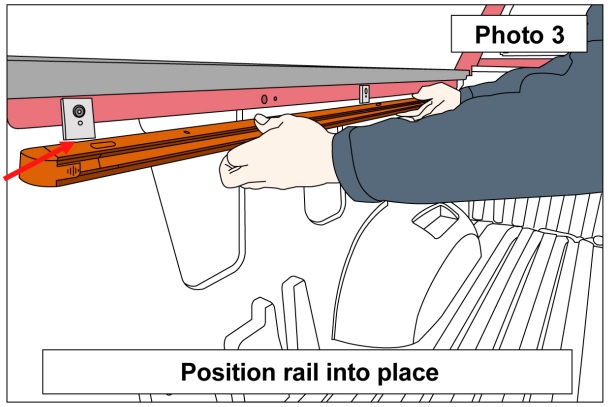
22-UP Toyota Tundra & 05-15 Tacoma application with Factory utility rail

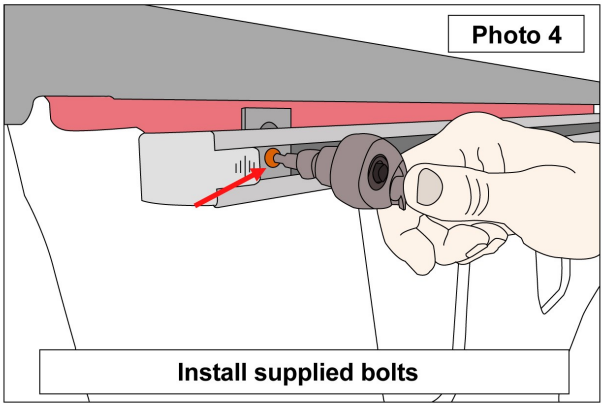
1. Remove the stock rail using a T30 bit. **See Photo 1.**
2. Place the relocation brackets on the bed and install using the supplied pan head bolts. 4 bolts evenly spaced per side. Tighten the pan head bolts using a 4mm allen wrench, taking care to keep the relocation bracket vertical. **See Photo 2.**





3. Place the stock rail on the relocation brackets. **See Photo 3.**
4. Secure the stock rail to the relocation brackets using the supplied button head bolts. **See Photo 4.** Tighten using a 4mm allen wrench.



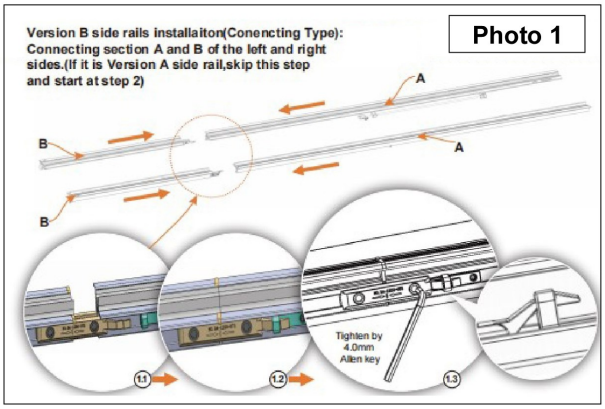


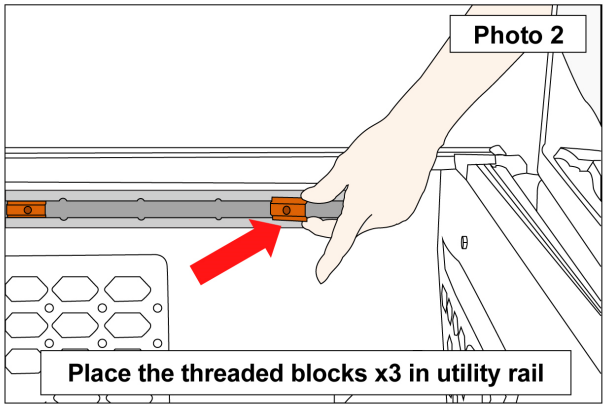
5. Proceed with **Step 4** on the next page to continue the bed cover installation.

INSTALLATION INSTRUCTIONS

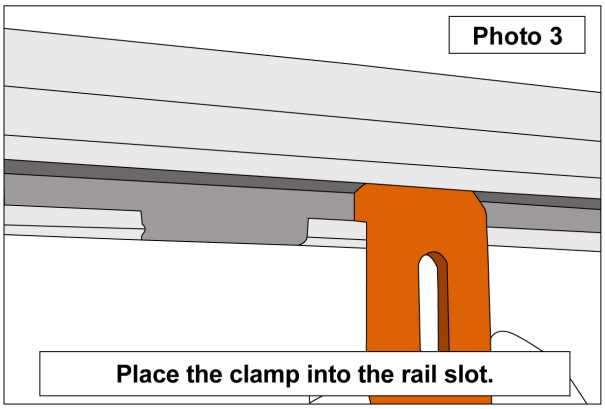
Installation shown on Gladiator. See Instructions included for 22-UP Toyota Tundra application

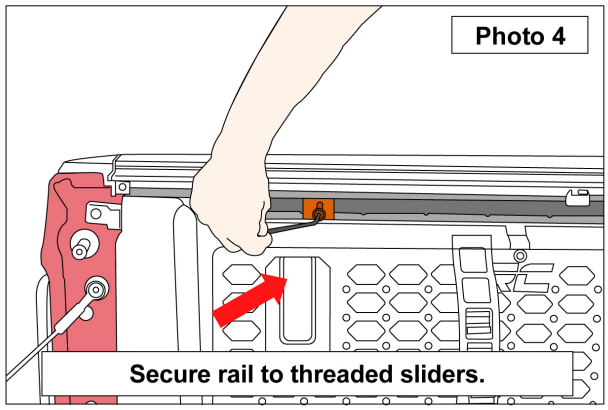
1. If the bulkhead of the bed is lower the bed rail, install the supplied foam strip on the bulkhead. Assemble the bed cover rail if needed with the supplied hardware and couplers. Tighten with supplied 4mm Allen wrench. **(Normally mid bed and long bed) Short bed rails are one piece and do not require assembly. See Photo 1.**
2. Refer to the previous page to confirm the correct rail clamps are included and place the threaded sliders in the utility track. It may be necessary to remove the end caps on the utility rails to insert the supplied threaded inserts. Also remove /relocate any stock tie down points in the utility track . **See Photo 2.**



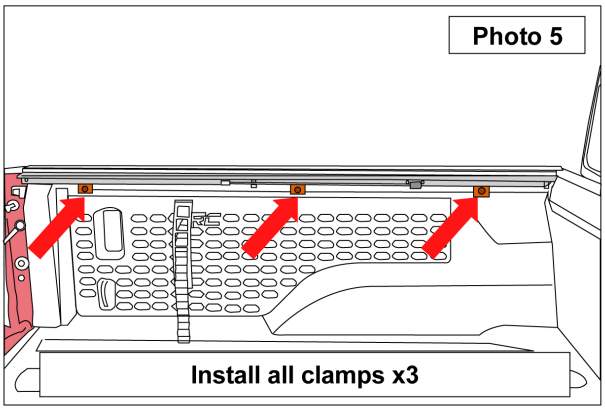


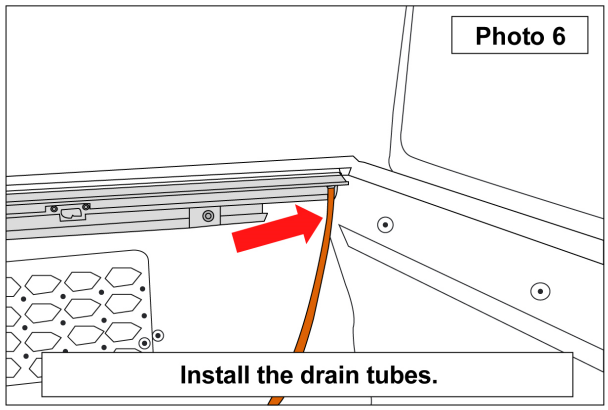
3. Using the slot as shown in the supplied bed cover rail, slide the bracket into the rail. **See Photo 3.**
4. Place the cover rail on the driver side bed rail sliding it all the way to the front bulkhead of the bed.
5. Secure the clamps to the threaded sliders in the utility rail using the supplied Allen bolts. **See Photo 4.**



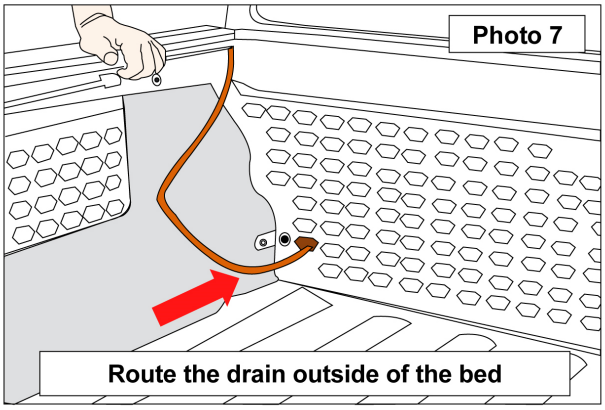


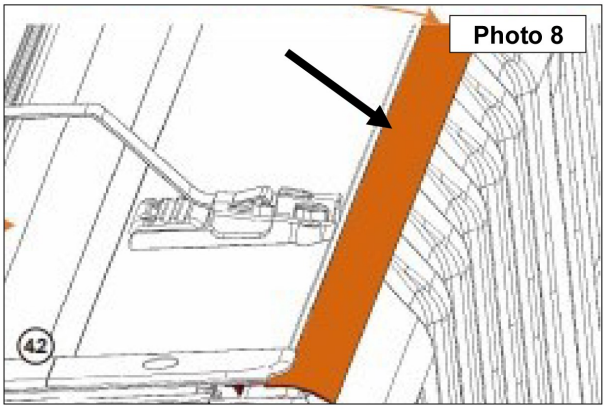
6. Secure the center and the rear mount of the aluminum track using (2) of the remaining clamps positioning the rear most clamp as close to the tailgate as possible and the middle clamp equal distance from the front and rear clamp. **See Photo 5.**
7. Install the passenger side aluminum rail and clamps as installed on the driver side.
8. Install the supplied drain tubes on both driver and passenger side rails. **See Photo 6.**



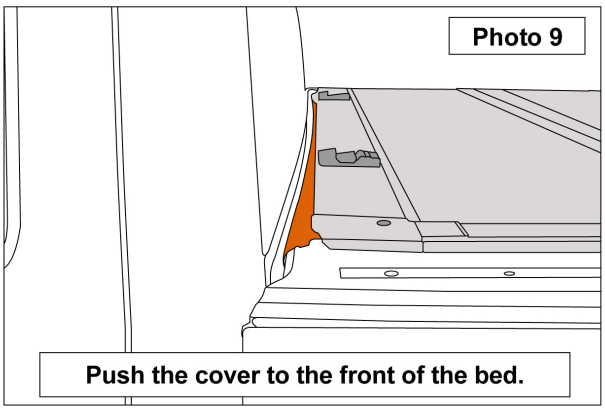


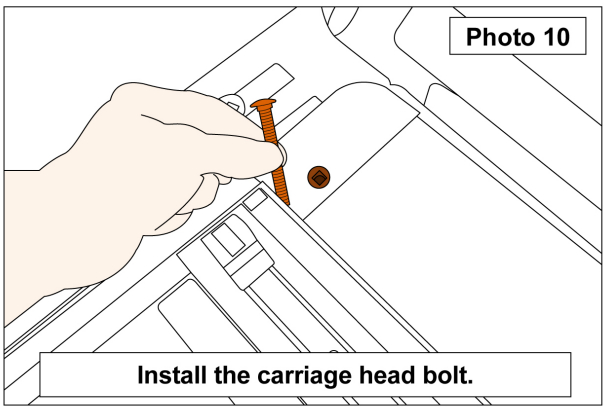
9. Route the drain tube outside of the bed utilizing any access port. It may be necessary to drill a hole if one if not present. **See Photo 7**.
10. Place the cover onto the bed making sure to flip the bulkhead seal out to seal the bed. **See Photo 8.**



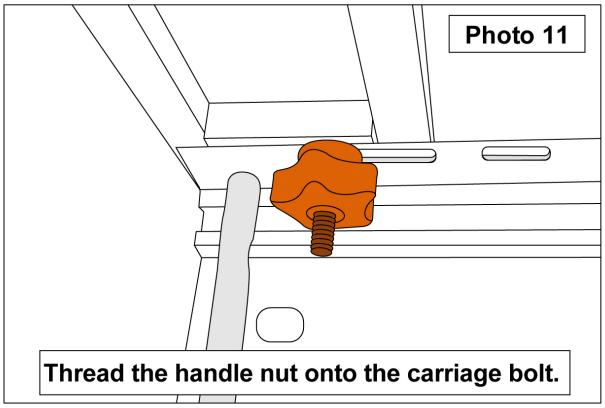


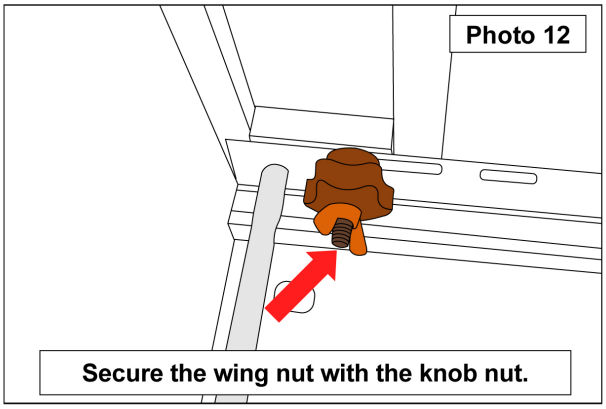
11. Ensure the cover is pushed up to the front of the bed and centered side to side in the aluminum track. Place the supplied carriage head bolt into the front hole of the cover. **See Photos 9 and 10.**



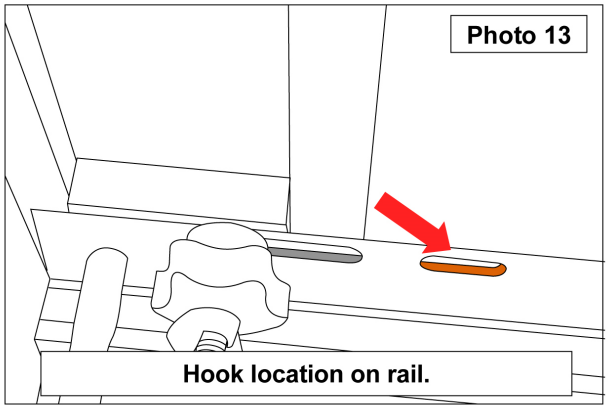


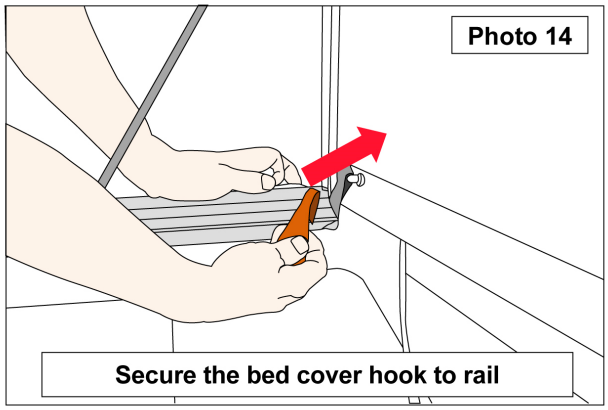
12. After ensuring the carriage bolt is fully seated, thread the supplied knob nut onto the carriage head bolt. Then thread the wing nut onto carriage head bolt and slightly tighten the knob nut to the wing nut. **See Photos 11 and 12. Note:** These nuts will not be fully tightened until the cover has been adjusted to ensure full latch engagement.



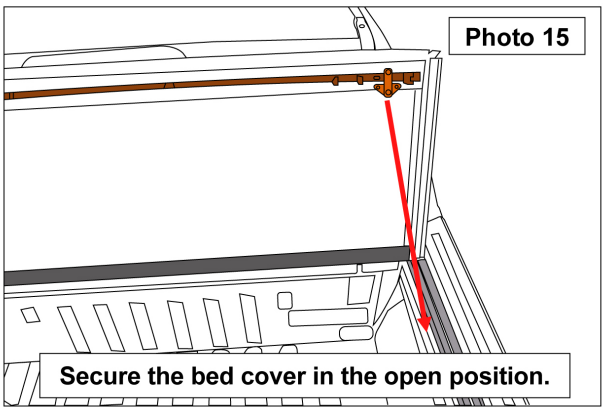


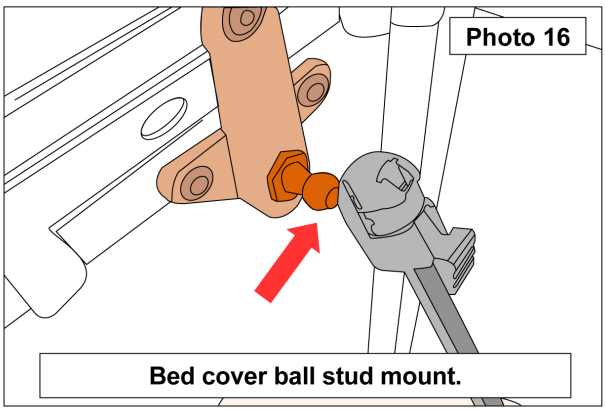
13. Hook the safety strap to the slot in the aluminum track. **See Photo 13 & 14.**



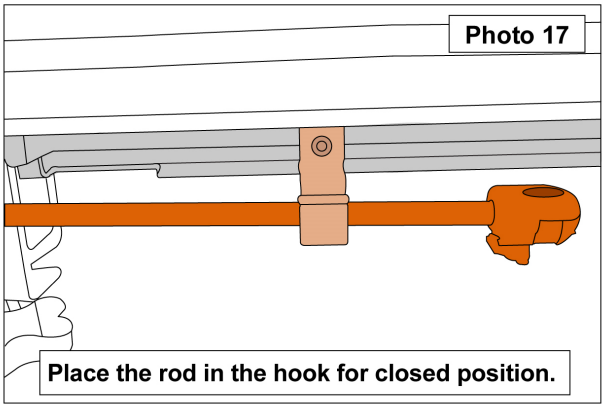


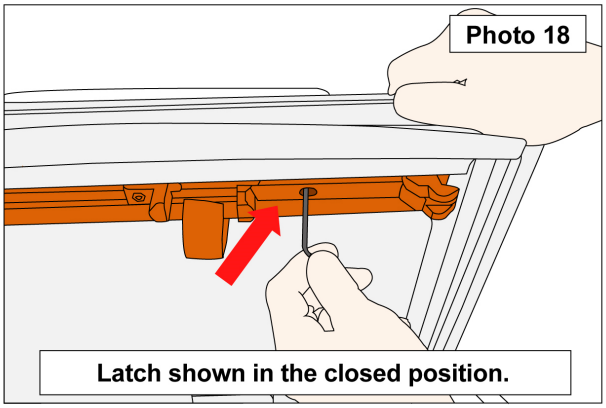
14. Open the cover to the vertical position and place the rod to the ball stud on the aluminum track and to the ball stud mount on the bottom of the bed cover. Use the push button to release from the ball stud. **See Photos 15 and 16.**





15. Release the rod from the bottom bed cover mount and use the hangers on each side to secure the rod when the bed cover is in the closed position. **See Photo 17.**
16. When the bed cover is in the closed position each latch should be firmly secure under the aluminum track. If needed adjust the cover so that the latches are engaged. The latches can also be moved inward or outward toward the rail to ensure proper engagement using the supplied allen wrench. **See Photo 18**. Adjust as necessary and tighten all components.





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