

INSTALLATION GUIDE



1506-DH CARGO +

Mercedes Sprinter 170" & 170" EXT Wheelbase



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Warnings

READ, UNDERSTAND, AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THESE DIRECTIONS MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, AND/OR DEATH. RANGER DESIGN IS NOT RESPONSIBLE FOR ANY PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH THAT OCCURS WHILE USING ANY RANGER DESIGN PRODUCTS. THE FINAL ALTERER AND/OR MODIFIER SHOULD REVIEW THE WARNING SHEET WITH THE CUSTOMER BEFORE THE VEHICLE IS RELEASED TO THE CUSTOMER FOR GENERAL USE. THESE INSTRUCTIONS SHOULD REMAIN WITH THE VEHICLE AT ALL TIMES.



WARNINGS – Prior To Starting

- Ranger Design products must be assembled and installed by individuals qualified to use the tools required and have experience with similar products. If there is any question as to competence or experience, please contact a professional alterer or modifier.
- Failure to use Ranger Design-provided fasteners, brackets, and proper installation guidelines could increase risk of serious personal injury and/or death.
- Prior to installation, inspect the vehicle to ensure that installation will not interfere with, or cause obstruction of, any critical components such as electrical wiring, fuel tanks, fuel cells, locks, latches, airbags, cameras, lights, sensors, mirrors, etc.
- The final alterer and/or modifier is responsible for ensuring all equipment is sufficiently secured to the vehicle.
- Do not install systems into any weak or unsound materials such as plastics, woods, thin-walled metals, etc., without proper reinforcement.
- Incorrect installation could cause water leaks, electric shock, or fire.
- Any modification or unintended use of this product voids any warranty and could create a hazardous condition.
- Ranger Design provides recommended assembly and installation instructions which must be followed to ensure correct operation. Failure to do so could invalidate the product's compliance and/or warranty and cause injury.
- The final stage vehicle alterer and/or modifier is responsible for the integration, installation, and compliance of the product in its final location with all applicable regulations and standards. Failure to maintain compliance of the vehicle with applicable regulations and standards could be punishable by law. Alterers and/or modifiers should consult with all local authorities prior to commissioning.



WARNINGS – Prior To Drilling

- Wherever possible, secure to existing Original Equipment Manufacturer's (OEM's) mounting points. Consults the vehicles OEM documentation for load limits of each attachment point.
- Improper drilling can cause property damage to vehicles and could lead to electric shock, fire, or even death.
- Ensure that drilling is only performed on areas of the vehicle allowed by the vehicle's OEM's Body Builders Layout Book (or equivalent document).

- Ensure that you will not hit any critical parts of the vehicle like the gas tank, wiring harnesses, or hoses. Consult the vehicle's OEM documentation as necessary. When drilling, use a drill collar to reduce the risk of damage to the vehicle.
- After drilling, ensure holes are sealed in accordance to the original vehicle manufacturer instructions.



WARNINGS – Prior To Operating Vehicle

- Ensure the weight of the cargo is correctly distributed to reduce negatively impacting the vehicle stability and handling. The heaviest items must be placed low in the vehicle, while the lighter items can be placed on a rack higher up.
- Operator must adapt speed to the conditions of the road, the wind, the weather, and the load being carried.
- Respect the maximum weight capacity of the Ranger product as defined in your operator's manual.
- Check your vehicle's tare weight and remaining load capacity with all equipment installed. Never exceed the maximum Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Ratings (GAWRs), roof load limit, bed rail capacity, or other maximum loads permitted by the vehicle's Original Equipment Manufacturer (OEM) and required by law.
- All cargo should be properly secured while the vehicle is in motion.
- All system components should be regularly inspected for damage, corrosion, fractures, loose parts, loose fasteners, etc. pursuant to Ranger Design guidelines. Damaged components must be replaced and loose component tightened prior to operating the vehicle.
- All system components should be regularly cleaned and maintained pursuant to Ranger Design guidelines.



WARNING – In Event Of An Accident

- In the event of a motor vehicle accident or collision where a Ranger Design system has been installed, especially ones where the vehicle's structure has been damaged and/or the air bags have deployed and/or the vehicle has been towed, the system must be inspected to ensure continued soundness and safety before returning the vehicle to service. Damaged components should be replaced as necessary.

FR: Si vous avez besoin de ces instructions en français, s'il vous plait contacter notre service à la clientèle. +1-800-565-5321

ES: Si necesita estas instrucciones en español, comuníquese con el Servicio de atención al cliente de Ranger Design. +1-800-565-5321

QUICK START GUIDE

Phase 1 - Set-up

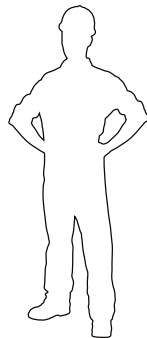
<input type="checkbox"/> 1.1 Setup.....	4
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Phase 2 - Install

<input type="checkbox"/> 2.1 Install	5
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REQUIRED ITEMS

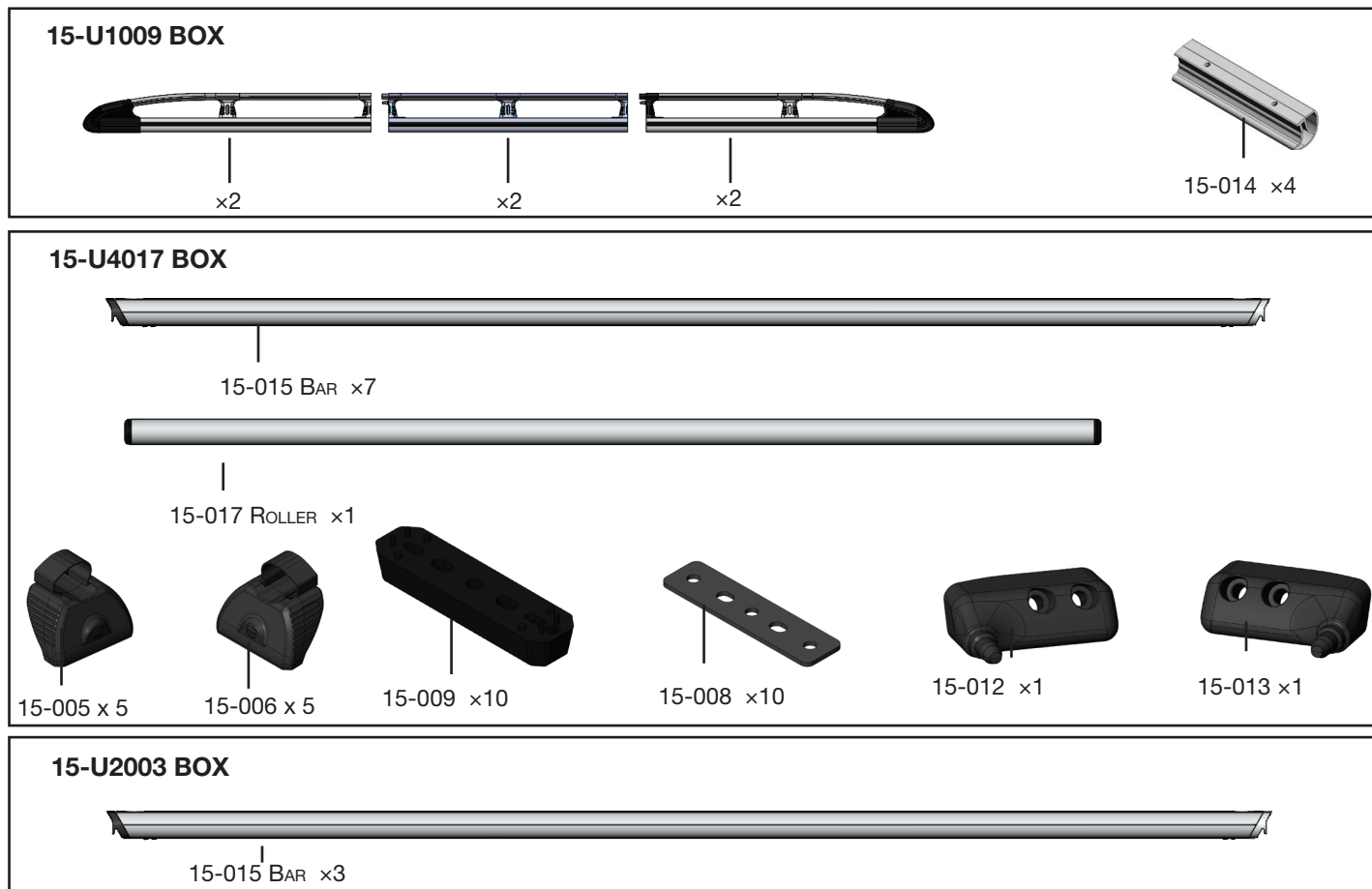
- 6mm Allen key
- Ratchet
- 13mm Hex Socket
- Anti Seize (recommended)
- Silicone
- Flat head screwdriver



PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.




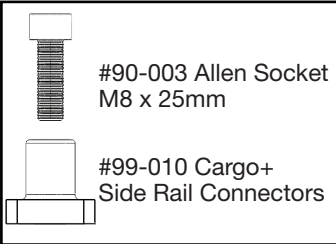


1.1.2 Verify all parts are present


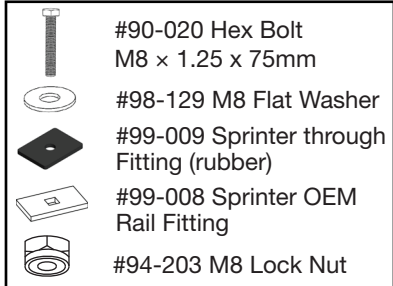
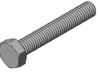

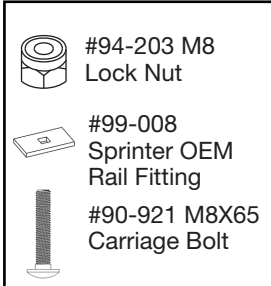



Bill of Material

Item No.	Description	Qty.
15-005	Cargo+ Foot Passenger Side	5
15-006	Cargo+ Foot Driver Side	5
15-008	Cargo+ Shim	20
15-009	Cargo+ Shim	10
15-012	Cargo+ Driver Side Roller Connection	1
15-013	Cargo+ Passenger Side Roller Connection	1
15-014	Cargo+ Side Rail Connection	4
15-015	Cargo+ Cross bar	10
15-017	Cargo+ Roller	1
90-020	M8x75mm Hex Bolt	10
90-921	M8x65mm Carriage Bolt	20
94-203	M8 Locknut	30
98-129	M8 Flat Washer	30
99-008	Sprinter OEM Track Rail Fitting (metal)	30
99-009	Sprinter through fitting (small rubber)	10
90-003	M8x25mm Allen Socket Bolt	30
99-010	Rail Connector	26

*Hardware found in both rail and roller boxes.

1.1.3 Identify **Assembly** and **Installation** fastener bag.

Assembly Fastener		→	Hardware Assembly	
30x		# 90-003	Allen Socket M8 x 25mm Rhino Bolt	26x  #90-003 Allen Socket M8 x 25mm #99-010 Cargo+ Side Rail Connectors
26x		# 99-010	Cargo+ Side Rail Connectors	
				4x  #90-003 Allen Socket M8 x 25mm

Installation Fastener		→	Hardware Assembly	
20x		#90-921	Carriage Bolt M8X65mm SS304	10x Without OEM Track  #90-020 Hex Bolt M8 x 1.25 x 75mm #98-129 M8 Flat Washer #99-009 Sprinter through Fitting (rubber) #99-008 Sprinter OEM Rail Fitting #94-203 M8 Lock Nut
10x		#90-020	Hex Bolt M8-1.25x75mm SS304	
30x		#98-129	Hex Bolt M8 Flat Washer SS304	20x With OEM Track  #94-203 M8 Lock Nut #99-008 Sprinter OEM Rail Fitting #90-921 M8X65 Carriage Bolt
30x		#94-203	M8 Lock Nut SS304	
10x		#99-009	Sprinter through Fitting (rubber)	
30x		#99-008	Sprinter OEM Rail Fitting (metal)	

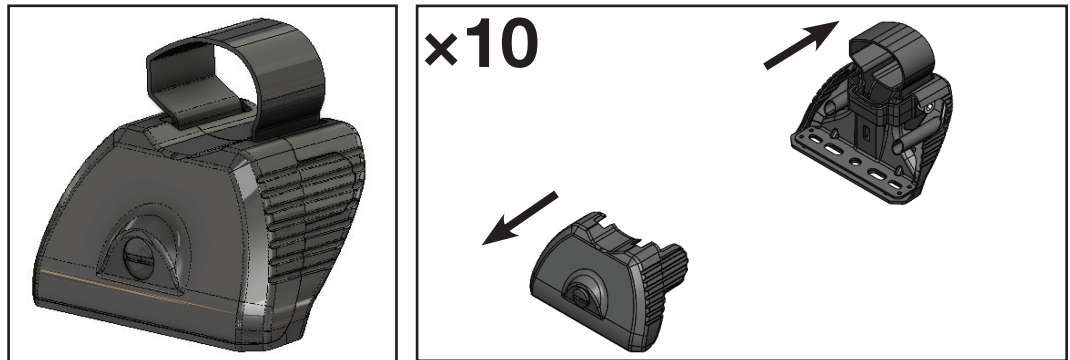
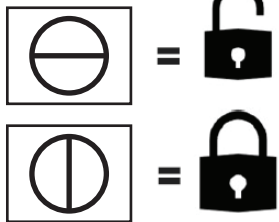
PHASE 2 – ASSEMBLY

1.1 ROOF INSTALLATION

1. Remove foot cowlings.

TOOLS

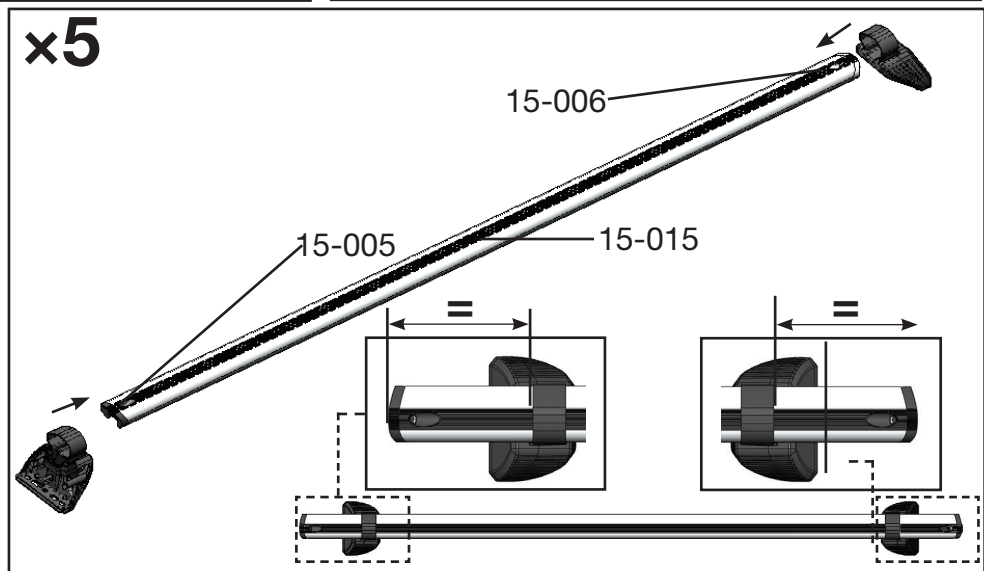
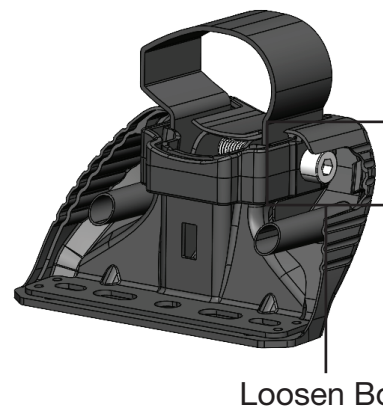
- Flat head screwdriver



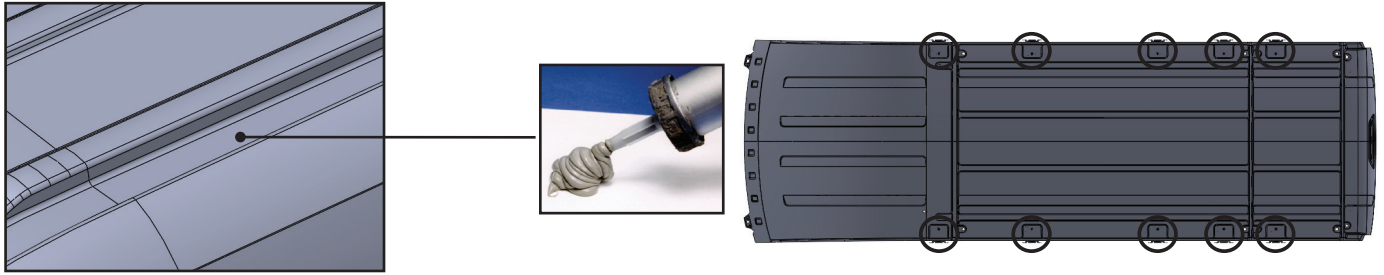
2. Install feet to 4 crossbars.

TOOLS

- 6mm Allen key



3. Prepare roof mounting points by cleaning and applying silicone around each hole. Skip to step 4B if OEM mounting tracks are present.



4.A Mount feet to roof mounting points.

TOOLS

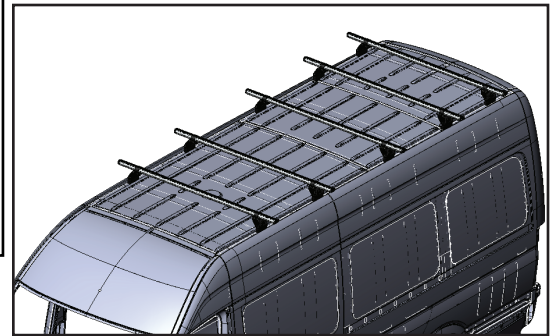
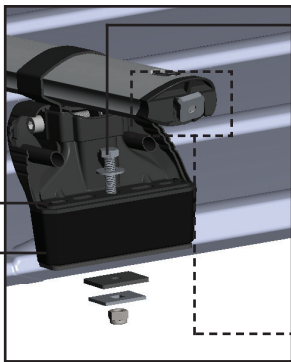
- 13mm Hex Socket
- Ratchet
- 13mm wrench

HARDWARE USED

10x (12 ft • lbs)

- #90-020 Hex Bolt
M8 x 1.25 x 75mm
- #98-129 M8 Flat Washer
- #99-009 Sprinter through Fitting (rubber)
- #99-008 Sprinter OEM Rail Fitting
- #94-203 M8 Lock Nut

15-009
15-008



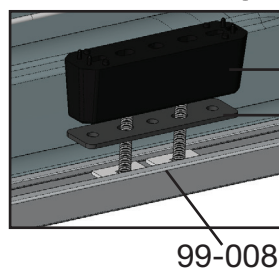
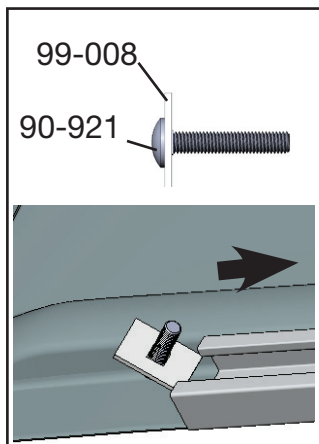
4.B Mount feet to OEM tracks. Use anti-sieze as required.

TOOLS

- 13mm Hex Socket
- Ratchet

20x

10x

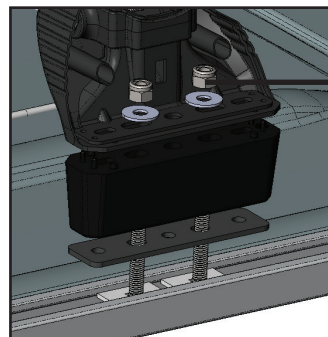


15-009
15-008

HARDWARE USED

20x (12 ft • lb)

- #94-203 M8 Lock Nut



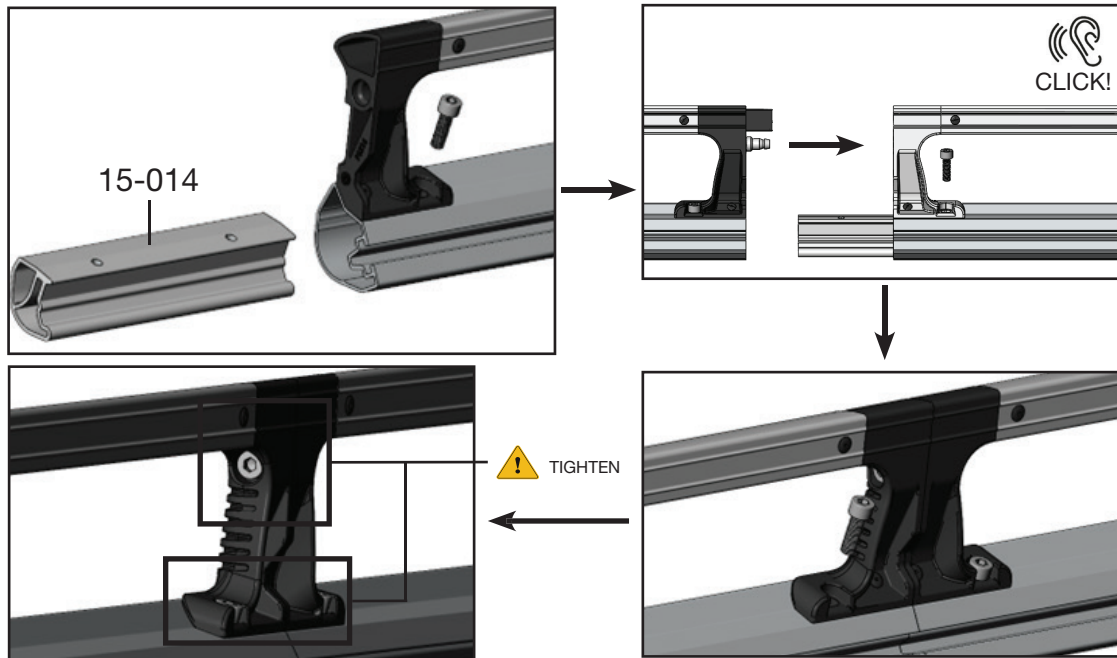
5. Assemble both side rails. Use anti-seize as required.

TOOLS

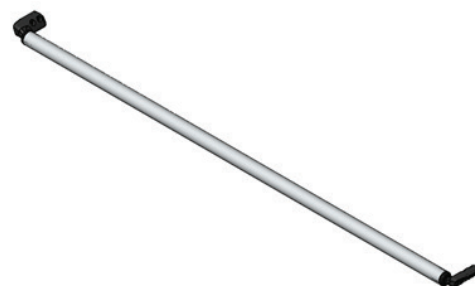
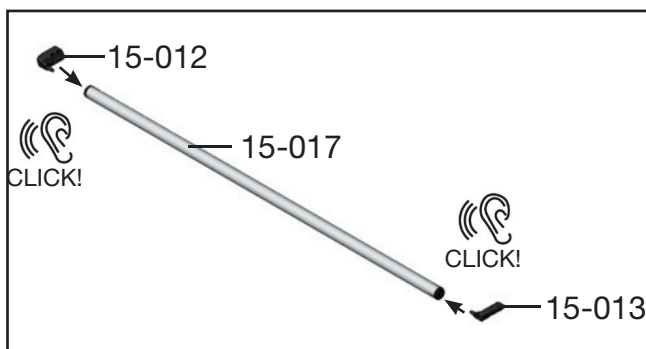
- ☐ 6mm Allen key

HARDWARE USED

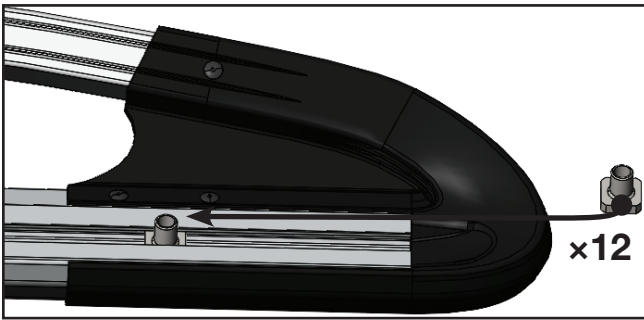
8x (7 ft • lbs)



6. Assemble roller.



7. Install side rail connectors.



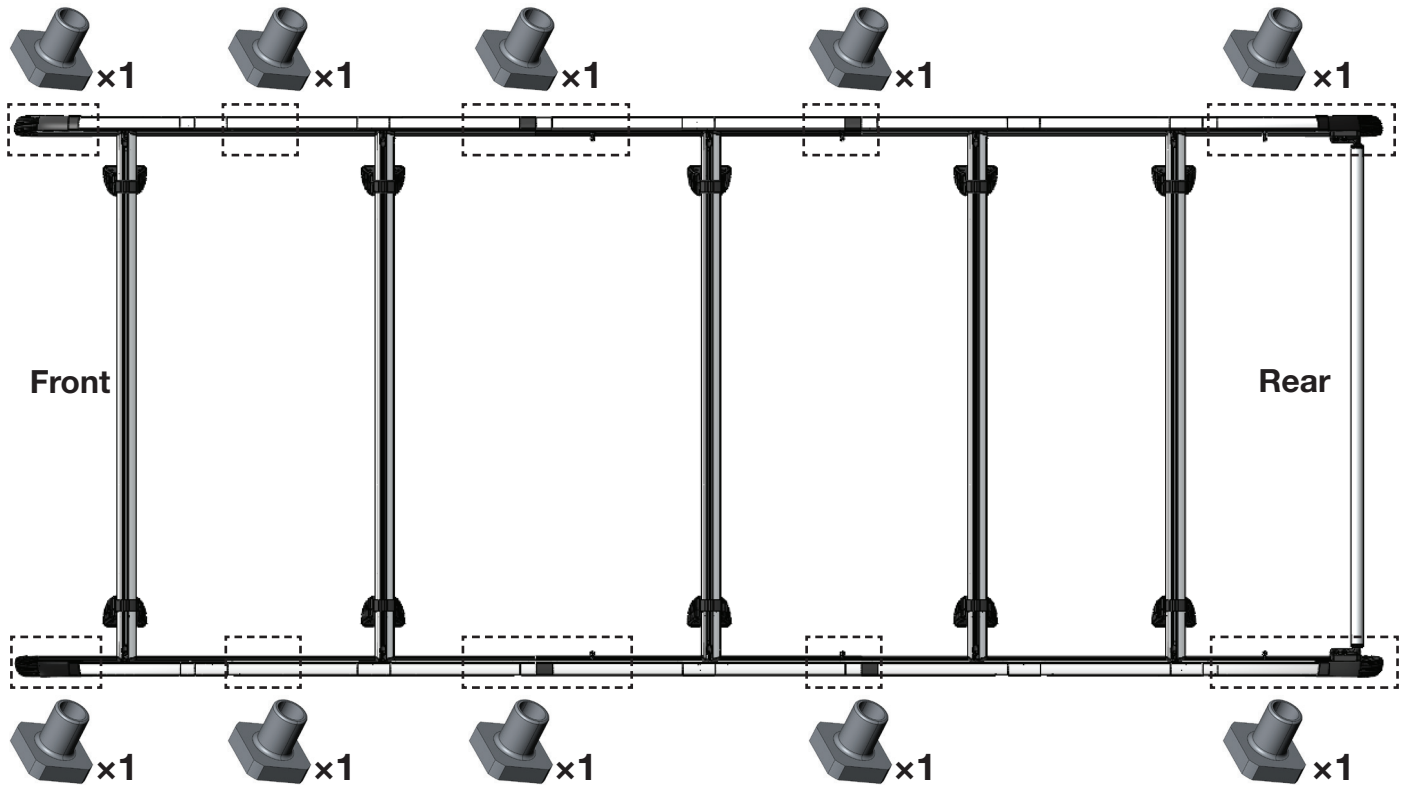
HARDWARE USED

24x

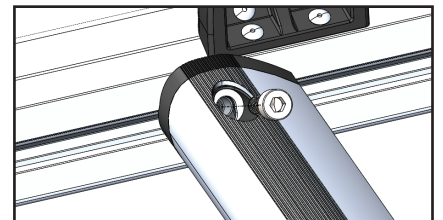
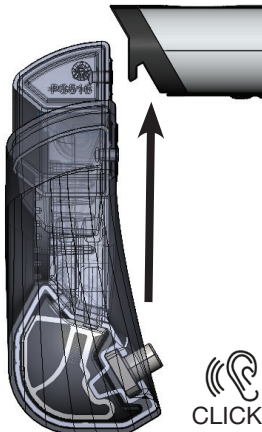
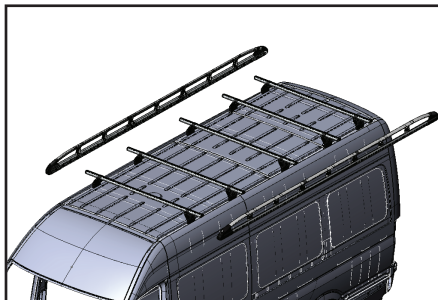


#99-010 Cargo+ Side Rail Connectors

8. Space out the side rail connectors.



9. Mount side rails to crossbars.



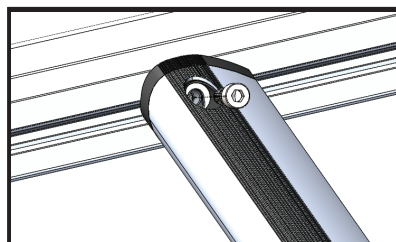
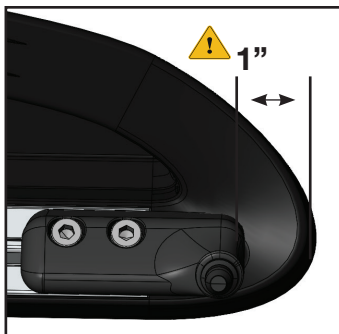
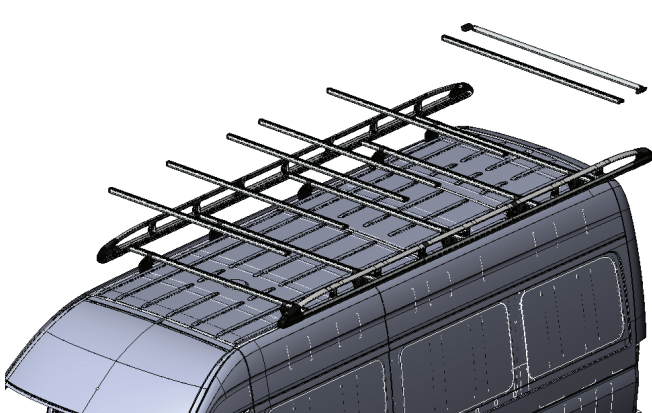
HARDWARE USED

10x (7 ft • lbs)



#90-003 Allen Socket
M8 x 25mm

10. Mount the roller and remaining crossbars, spread out evenly along the side rails.



HARDWARE USED

14x (7 ft • lbs)



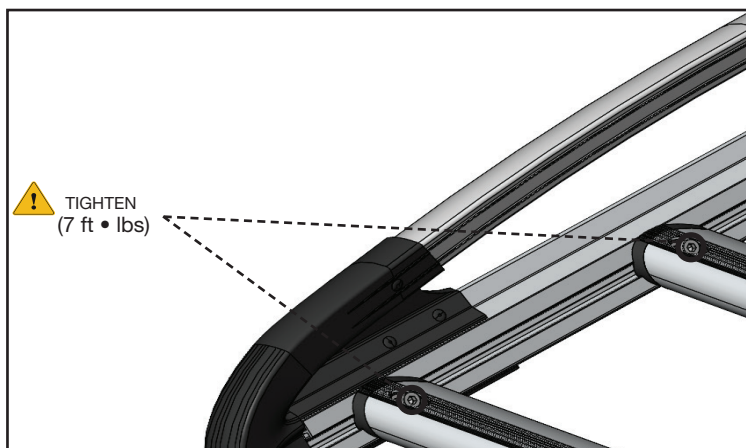
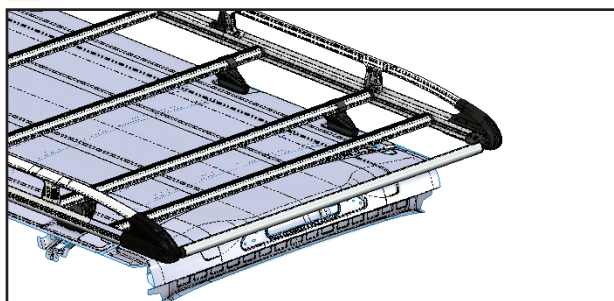
#90-003 Allen Socket
M8 x 25mm

11. Tighten all crossbar bolts. Use anti-seize as required.

TOOLS

- 6mm Allen key

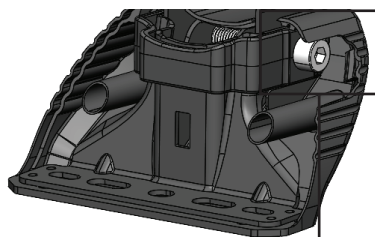
! Verify roller clears rear of van and camera



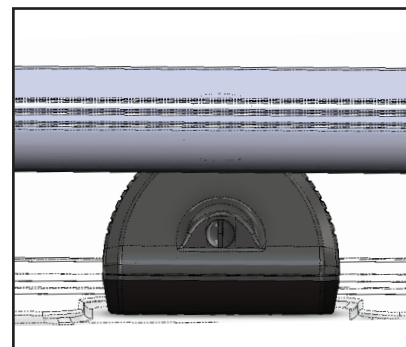
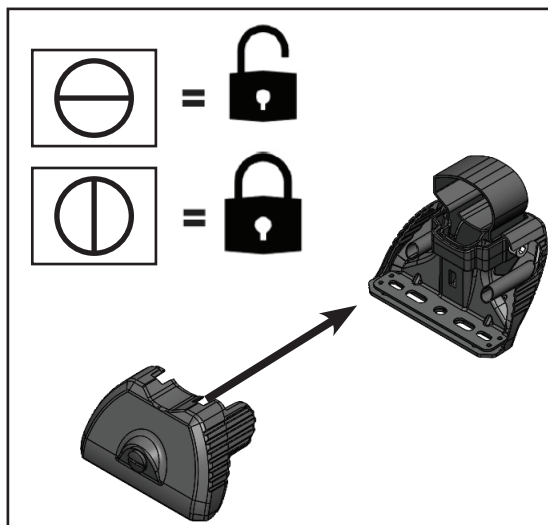
12. Tighten feet and re-attach foot cowl.

TOOLS

- 6mm Allen key
- Flat head screw driver



Tighten Bolt



“You have successfully installed your Cargo +, thank you for doing business with us.”

For any feedback or suggestions, you may have, please contact: cs@rangerdesign.com