

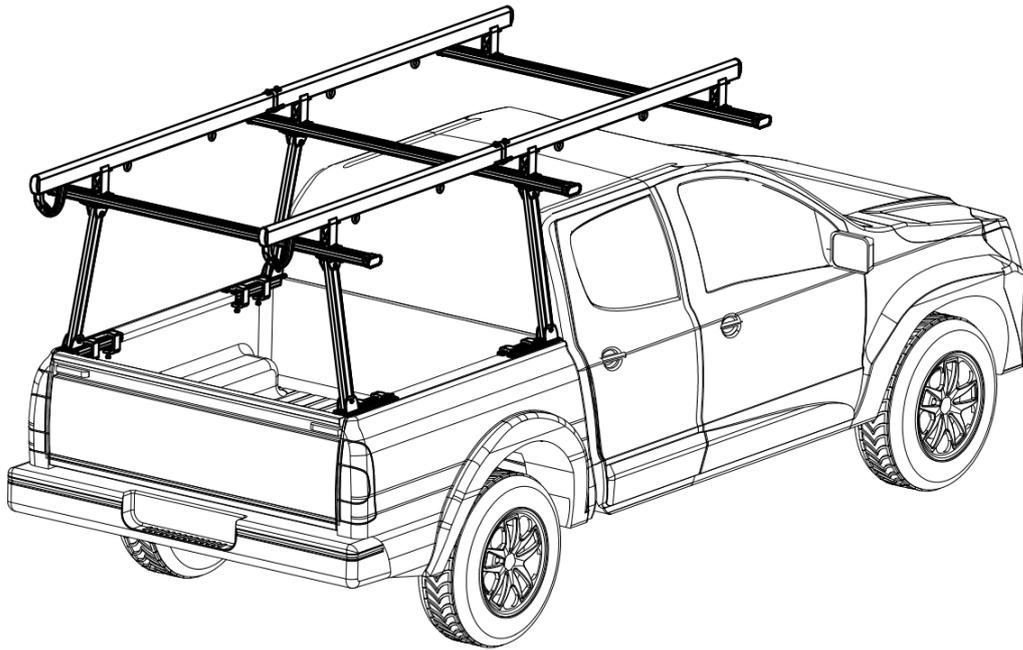


Enthuze Automotive Products

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**INSTRUCTIONS FOR ASSEMBLY AND USE OF ITEM: ENT5089
800 LBS UNIVERSAL OVER-CAB ALUMINIUM TRUCK RACK**



⚠ WARNING

- Read and understand all warnings, cautions, and assembly, installation and use instructions prior to assembling, installing or using this product. Failure to follow all warnings, cautions and instructions may result in serious injury.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this truck rack. Always be aware of the environment and ensure that the rack is used in a safe and responsible manner.
- NEVER allow other persons to assemble, install or use this product until they have read this manual and have developed a thorough understanding of how the product works.
- NEVER attempt to modify this product or subject it to an installation or use for which it was not designed. Doing so may result in damage and/or serious injury.

SAVE THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE

ASSEMBLY, INSTALLATION, USE AND PERSONAL SAFETY PRECAUTIONS

- Park your truck on a level, hard surface well away from hazards. Place transmission in park and set the parking brake with engine off. If working indoors, ensure adequate clearance for installation and exit prior to starting.
- ALWAYS follow all federal and state department of transportation regulations governing installation and use.
- Verify that installation surface has no hidden wires before installing.
- NEVER allow the rack to come into contact with an electrical source. The rack is not insulated and contact will cause electrical shock.
- ALWAYS wear appropriate safety gear such as ANSI-approved safety goggles and heavy-duty work gloves when assembling, installing, loading, unloading or removing/storing the rack.
- NEVER attempt to assemble, install, load or unload the rack while you are tired or under the influence of drugs or alcohol.
- Keep children and bystanders away from the work area while assembling, installing, loading/unloading the rack.
- ALWAYS thoroughly inspect your rack for loose parts and/or signs of damage prior to each use, installation or removal.
- NEVER use your rack until any loose parts have been properly secured or damaged parts have been properly replaced.
- Maximum weight capacity rating applies only to an evenly distributed and properly secured load on a properly installed rack.
- NEVER exceed the evenly distributed maximum weight capacity of this rack.
- NEVER exceed the rated maximum weight capacity of the truck on which this rack is installed. Refer to the truck's Gross Vehicle Weight Rating.
- Carrying any load can be hazardous. All loads must be tied down securely to the rack to prevent them from changing position or coming loose as a result of wind, road hazards or vehicle movement.
- Top heavy loads increase the chance of rollover. High loads must be transported with GREAT CAUTION to avoid striking objects with low clearance or vehicle tipping during turns, sudden maneuvers or high winds.
- **Be aware of dynamic loading!** Sudden load movement may briefly create excess load causing product failure.

Technical Specifications

Property	Specification
Length	133in.
Width	70.5in.
Height	36.5in.
Maximum Weight Capacity	800lbs.

PARTS LIST

Prior to assembly and installation, make sure all parts are present, intact and undamaged. If you discover missing and/or damaged parts, please contact our customer service using the information on page 1.

Item#	Description	Picture	Quantity	Item#	Description	Picture	Quantity
1	Crossbar		3	17	M10x55 Button Head Screws		8
2	Support Bar		4	18	M10 Lock Nut		8
3	Driver Side Front/Passenger Side Rear Leg Rail Mount		2	19	M10 Hex Nut		8
4	Passenger Side Front/Driver Side Rear Leg Rail Mount		2	20	Spring Washer		48
5	Upper Connecting Plate		4	21	Flat Washer		44
6	Lower Connecting Plate		4	22	Connecting Plate		2
7	C-Clamp		8	23	Thread Glue		1
8	Clamp Bolt Foot		8	24	Splint		2
9	Side Rail		4	25	Washer		4
10	Crossbar End Cap		6	26	Connecting Plate		6
11	Connecting Base		6	27	Plastic Sleeve		2
12	M10 Nut		44	28	Side Rail End Cap		4
13	M10x75 Hex Head Bolt		8	29	Handle		2
14	M10x25 Button Head Screws		36	30	Thread Block		2
15	M10x40 Button Head Screws		16	31	Ring Bolt		8
16	ST4.8x16 Phillips Head Self-Tapping Screws		6	32	M10x16 Button Head Screws		8

Tools Required



Open Wrench (1 pc.)
Size=17mm

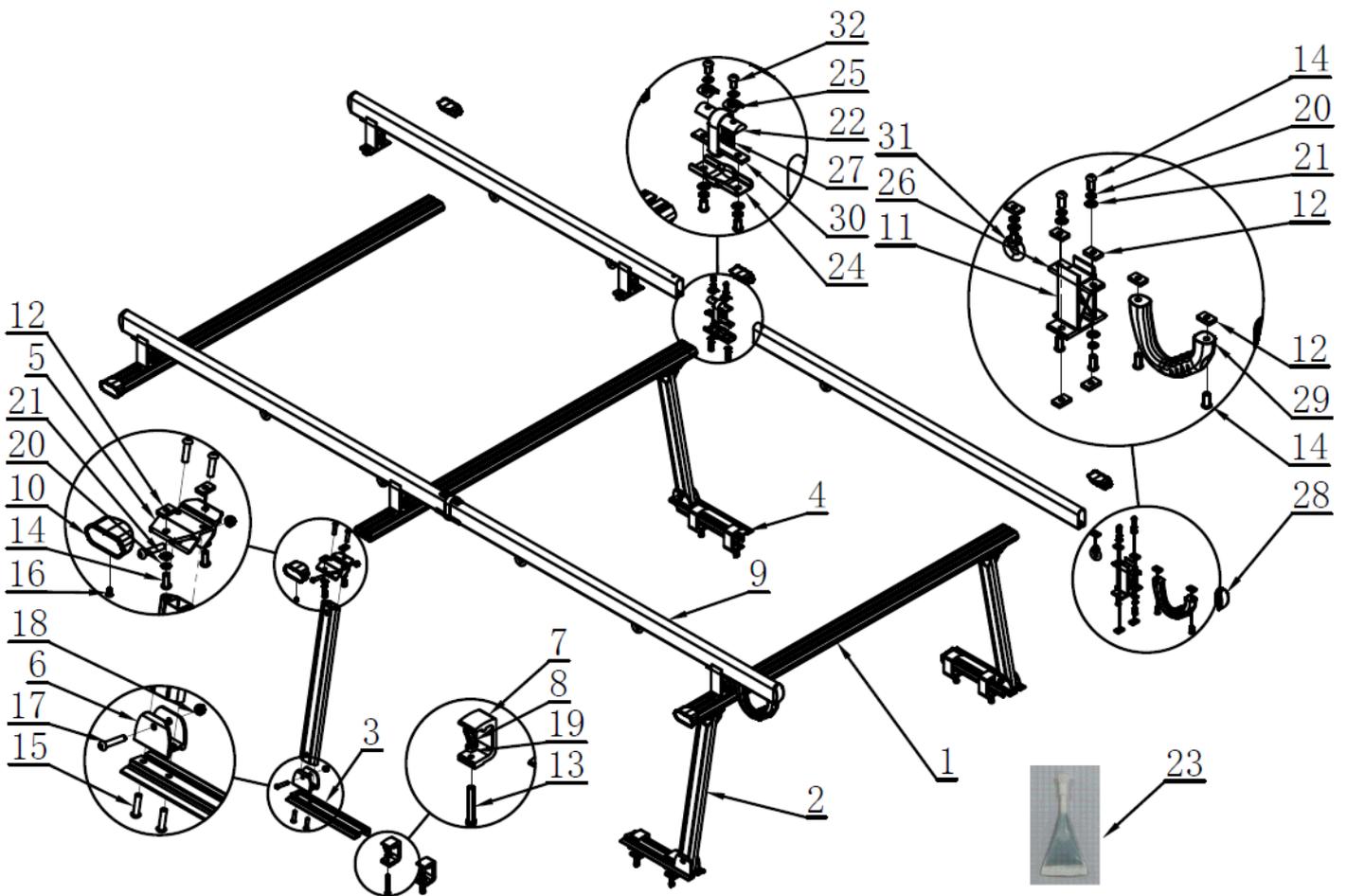


Allen Wrench (1 pc.)
Size=6mm



Tape Measure (1 pc)

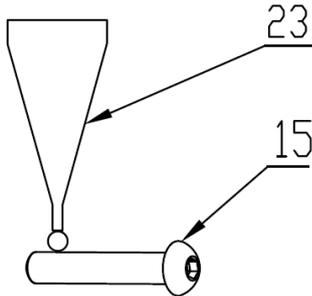
ASSEMBLY/PARTS DIAGRAM



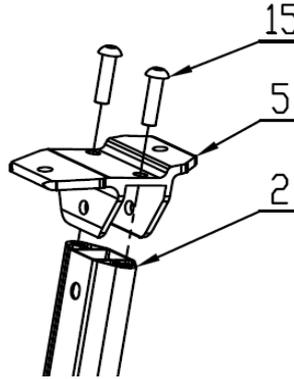
ASSEMBLY PROCEDURES

Step 1: Support Arm Assembly

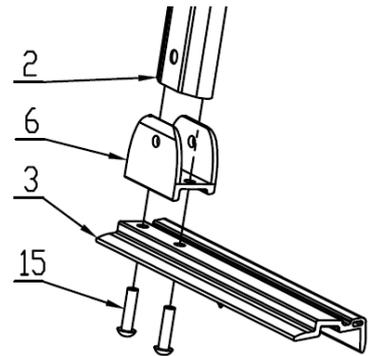
① **ATTENTION!** All M10x40 Button Head Screws (15), require a drop of thread glue (23), and installation/tightening within 2 minutes of glue application.



② Connect Upper Connecting Plate (5), on Support Bar (2), and secure with M10x40 Button Head Screws (15), as shown. Note: Use Thread Glue (23), on screws as noted in ①.



③ Connect Driver Side Front Leg Rail (3), & Lower Connecting Plate (6), to bottom of support bar (2), using M10x40 Button Head Screws (15), as shown. Note: Use Thread Glue (23), on screws as noted in ①.



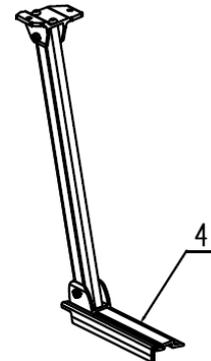
④ Secure Upper (5), and Lower (6), Connecting Plates using M10x55 Button Head Screws (17) and M10 Lock Nuts (18), as shown.



⑤ The front driver side support arm is now assembled. Confirm it is correct using the diagrams below.

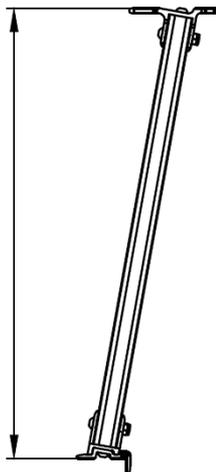


⑥ Repeat this support arm assembly procedure using the Passenger Side Front Leg Rail Mount (4). Then complete the rear support arms in the same manner.



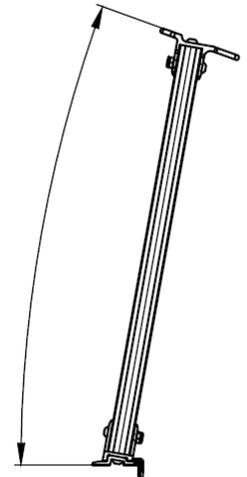
CORRECT assembly example for front and rear driver side support arms.

The upper connecting base (5), is level and parallel to rear leg rail mount (3).



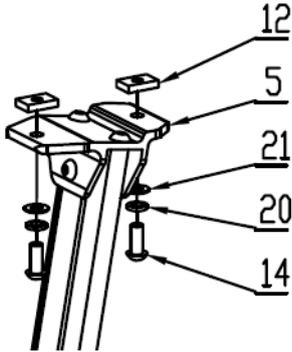
INCORRECT assembly example for front and rear driver side support arms.

The upper connecting base (5), is **not** level and parallel to rear leg rail mount (3), because it is facing the wrong direction.

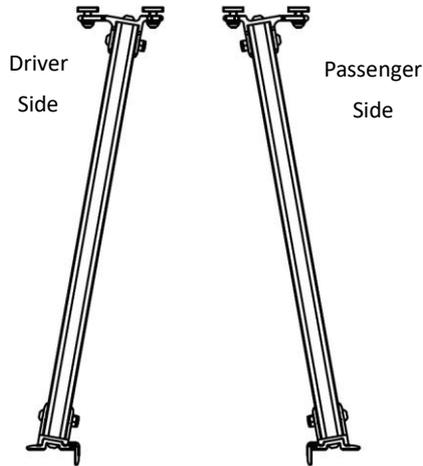


STEP 2. Crossbar Installation

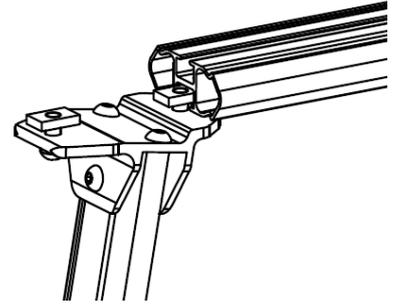
① Attach Spring Washers (20), Flat Washers (21), to M10x25 Button Head Screws (14), and secure to upper connecting plate (5), with M10 Nuts (12), as shown. Do NOT tighten. Repeat process for all four support arms.



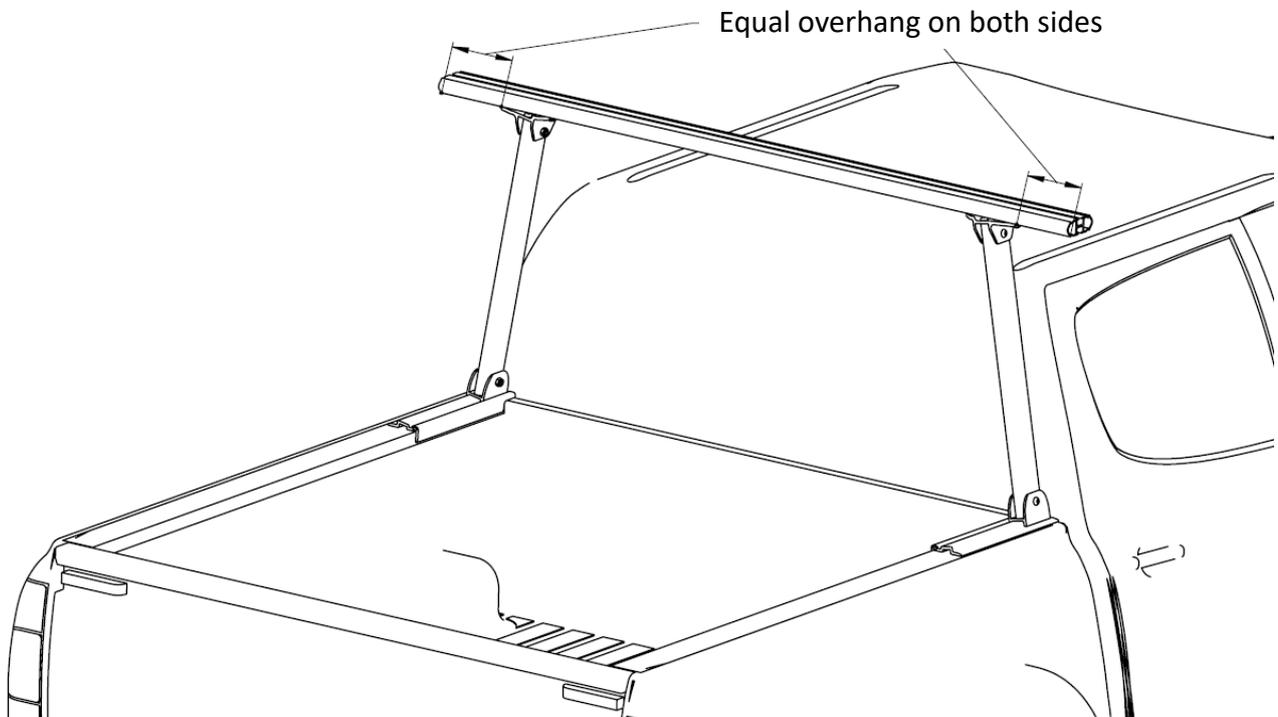
② Support arms are now ready for crossbar installation.



③ Slide the center channel of the Crossbar (1), onto the M10 Nuts (12), at the top of the support arms as shown. Only finger tighten bolts at this stage to allow for crossbar positioning.

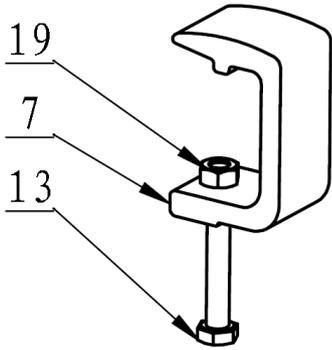


④ Place the rack assembly on the truck and center the crossbar on the support arms as shown. Once all is properly positioned, the M10x25 Button Head Screws (14), can be tightened to lock the crossbar in place on the support arms. Repeat the same process for the rear rack assembly.

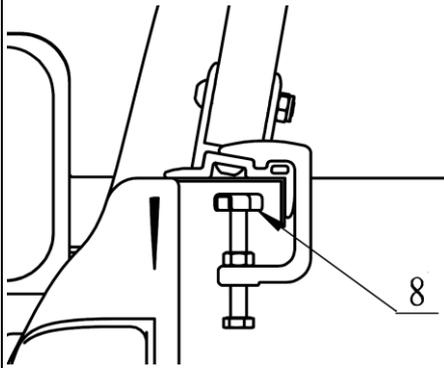


STEP 3. Installation

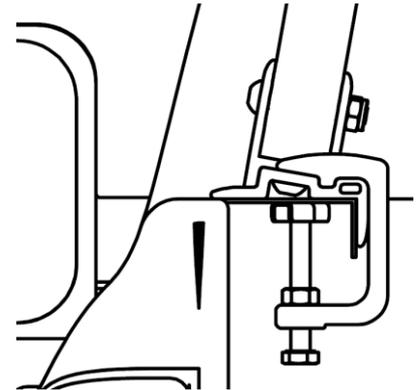
① Attach an M10x75 Hex Head Bolt (13), and M10 Hex Nut (19), to each of the eight C-Clamps (7), as shown.



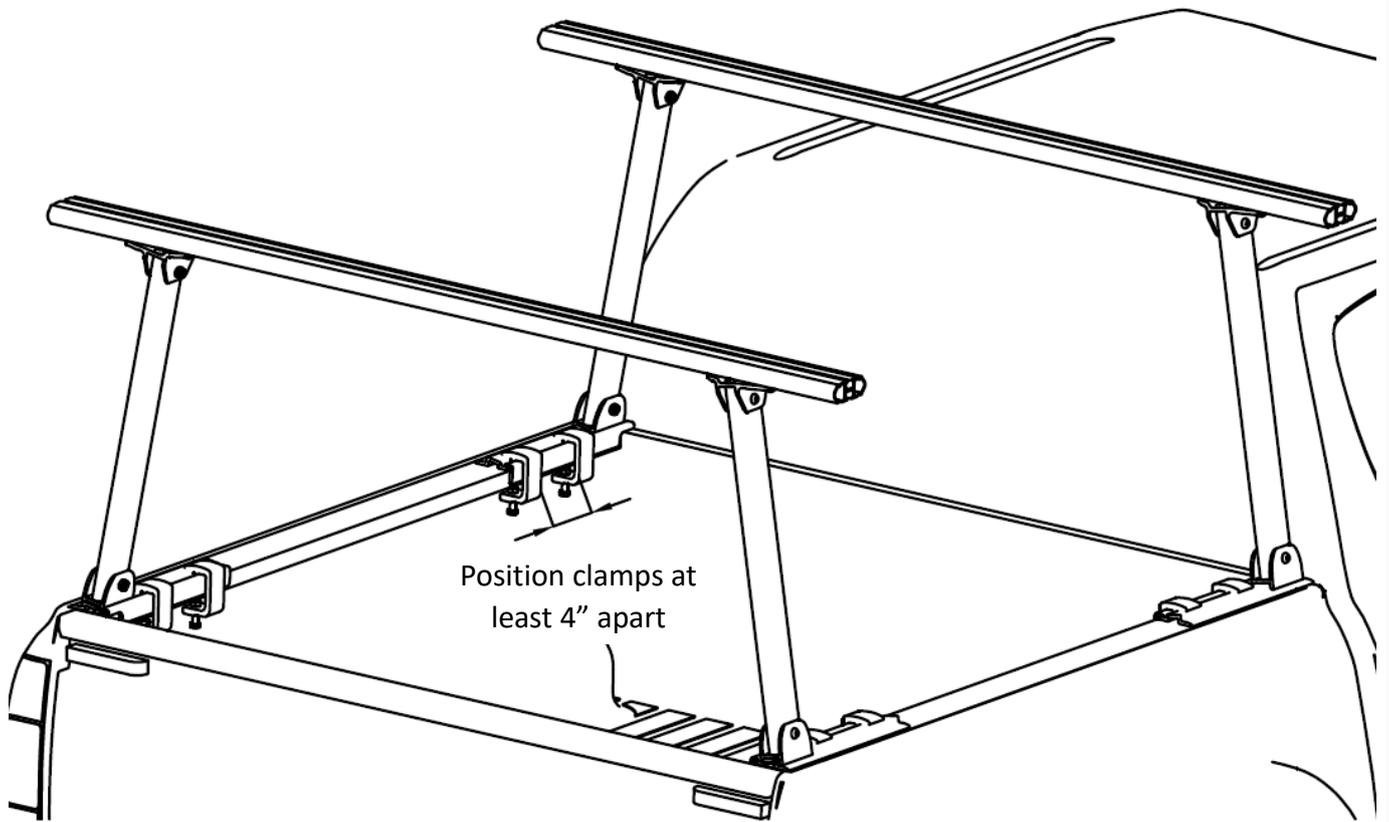
② Position C-Clamp (7), close to the base of the support arm so that the tongue on the upper jaw engages the groove in the Leg Rail Mount (3), or (4). Place a Clamp Bolt Foot (8) on the end of the M10x75 Hex Head Bolt (13), as shown.



③ Tighten the M10x75 Hex Head Bolt (13), and the M10 Hex Nut (19), until entire assembly is firmly affixed to the truck bed rail. Install a second C-Clamp to the same Leg Rail Mount at least 4" from the first.

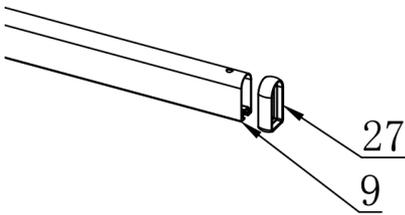


④ Continue the above procedure until you have installed two C-Clamps to each of the four Leg Rail Mounts, securely affixing both crossbar assemblies to the truck bed rails as shown. **WARNING! ALL EIGHT C-CLAMPS MUST BE PROPERLY INSTALLED AS SHOWN FOR SAFE OPERATION OF THIS RACK.**

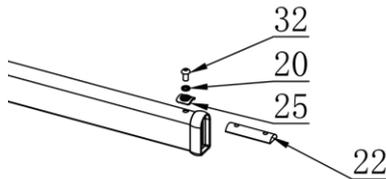


STEP 4. Side Rail Assembly and Installation

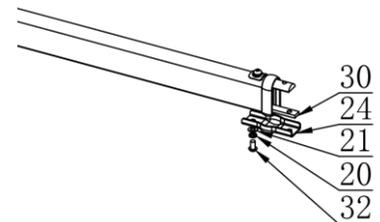
① Attach plastic sleeve (27), to end of Side Rail (9), as shown.



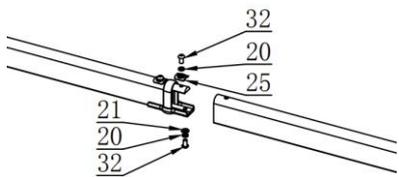
② Attach Connecting Plate (22), to end of Side Rail (9), using M10x16 Button Head Screw (32), Spring Washer (20), and Washer (25), as shown.



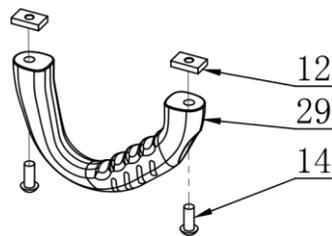
③ Attach Splint (24), and Thread Block (30), to one end of Side Rail (9), using M10x16 Button Head Screw (32), Spring Washer (20), and Flat Washer (21), as shown.



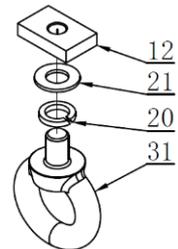
④ Attach a second Side Rail (9) using the bolts and washers shown below. Next, alternate steps ⑤, ⑥ and ⑦ to achieve side rail assembly configuration shown in ⑧.



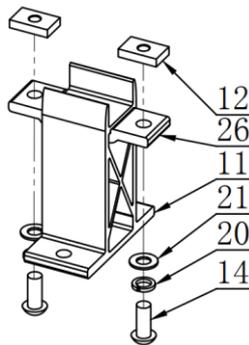
⑤ Attach Handles (29), to end of Side Rails as shown in ⑧ using M10x25 Button Head Screws (14), Spring Washers (20), Flat Washers (21), and M10 Nuts (12).



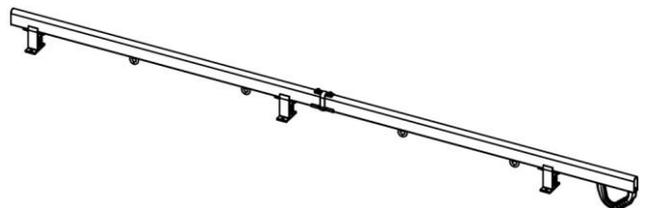
⑥ Attach Ring Bolts (31), to bottom of Side Rails (9), using Spring Washers (20), Flat Washers (21), and screw M10 Nut (12).



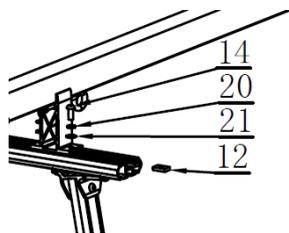
⑦ Install Connecting Plates (26), on Connecting Bases (11), and attach to bottom of Side Rails (9), using M10x25 Button Head Screws (14), Spring Washers (20), Flat Washers (21), and M10 Nuts (12). Do not tighten until installed on crossbars.



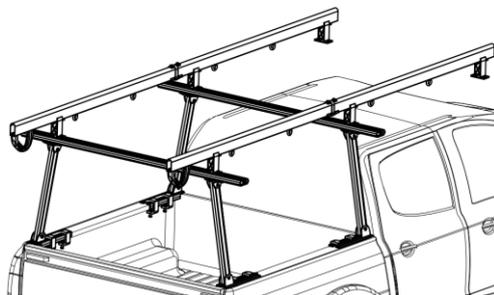
⑧ Repeat steps ① through ⑦ to complete two side rail assemblies configured as shown below. Note: Connecting Bases (11), cannot be positioned under the joints linking the two side rail sections.



⑨ Attach side rail assemblies to crossbars using M10x25 Button Head Screws (14), Spring Washers (20), Flat Washers (21), and M10 Nuts (12). Do not tighten until both side rails assemblies are properly positioned on the crossbars.

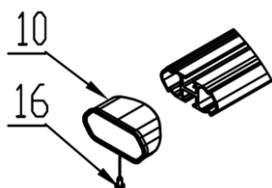


⑩ Tighten all 16 of the M10x25 Button Head Screws (14), on the four Connecting Bases (11), linking the side rails to the two rear crossbars prior to installing and securing the front-most crossbar.

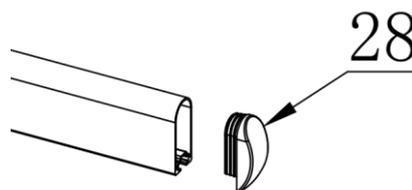


STEP 5. Completing your rack.

① Install all six Crossbar End Caps (10), and secure in place using ST4.8x16 Phillips Head Self-Tapping Screws (16), as shown.



② Install the four press-fit Side Rail End Caps as shown.



③ Check to make sure all hardware has been securely tightened. Depending on the configuration of your truck, your installed rack should resemble this diagram. Congratulations, your rack is now ready for use. Please remember to haul your loads safely.

