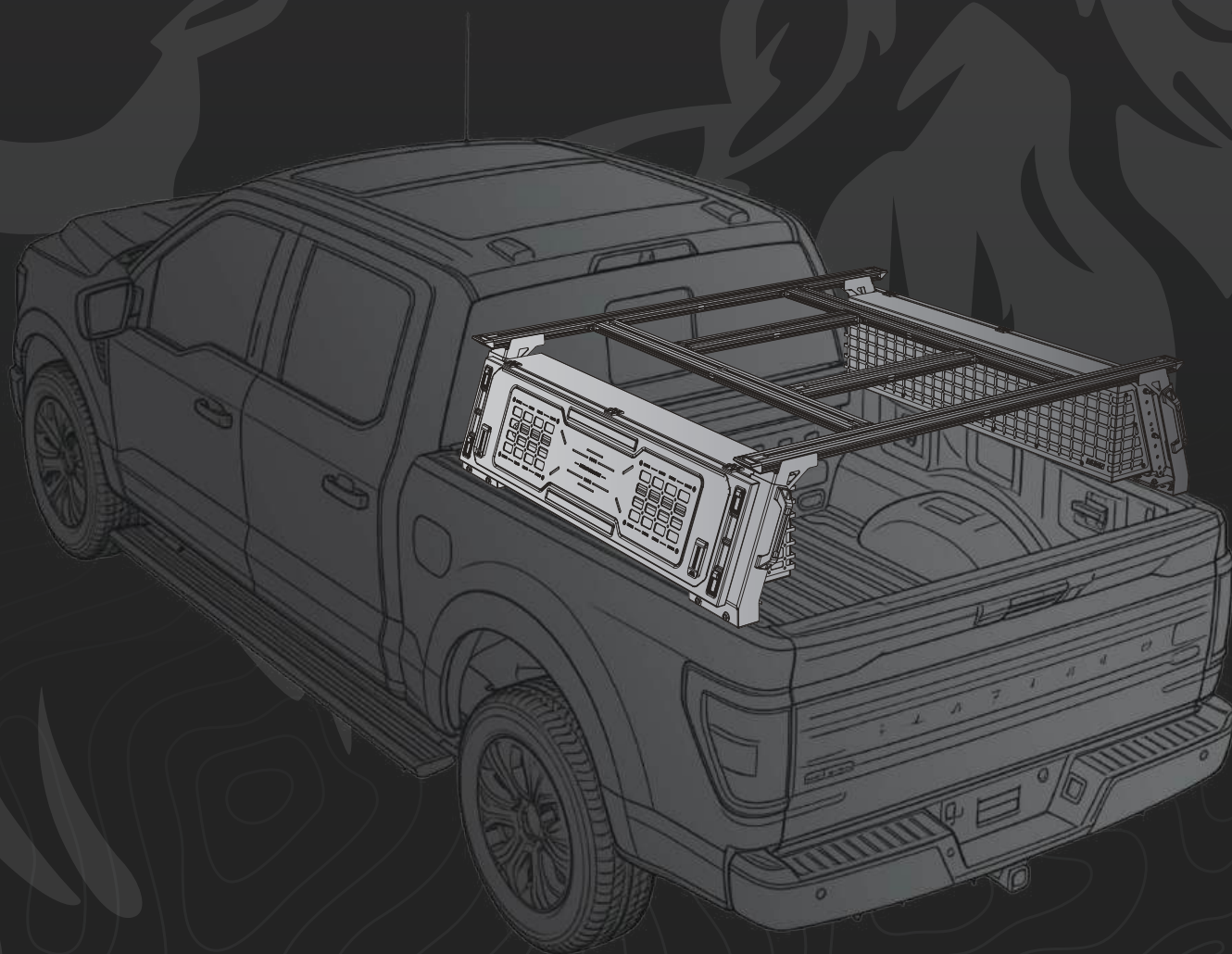




MODULAR BED RACK

(The length of the crossbar can be adjusted according to the vehicle)

INSTRUCTION GUIDE ▶▶





- Prepare a clean work area.
- We recommend a minimum of 2 people for assembly and 4 people for installation.
- Ensure the required tools are present and all hardware contents are accounted for.
- Never use acetone or thinners on painted parts.
- Read through the entire instruction guide before starting this procedure and follow.
- The steps carefully to avoid any damage to the components or the vehicle.

DIRECTORY

01	INSTALLATION & SAFETY PRECAUTIONS	01
02	INSTALLATION TOOLS	02
03	ACCESSORIES	02
04	INSTALLATION STEPS	05
05	FUNCTIONAL COMPONENTS	09
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07	INSPECTION AND MAINTENANCE	11
08	INSTALLATION OF REAR ASSEMBLY	12

■ BEFORE INSTALLATION

- This product is a heavy-duty off-road vehicle modification component designed for off-road and overland applications.
- Installation should be carried out by qualified personnel with appropriate vehicle modification experience.
- Read this manual thoroughly before installation and ensure all components, fasteners, and tools are present and undamaged.
- Installation must be performed on a level, stable surface with the vehicle securely supported.

■ DURING INSTALLATION

- Strictly follow the installation steps specified in the manual; do not modify the process or skip key steps.
- All fasteners marked "Do not tighten yet" must be tightened during the final tightening stage to avoid premature tightening and misalignment of components.
- When installing the roof panel, roof rack longitudinal bars, side assemblies, and front/rear assemblies, ensure reliable support to prevent displacement or tipping. Operations involving panel flipping or structural adjustments must be performed by two people working together to avoid damage to components or injury to personnel.
- Before installing any electrical components, disconnect the vehicle's power supply to prevent short circuits that could damage the electrical system or create safety hazards.

■ FASTENING & TORQUE SAFETY

- All fasteners must be tightened using a calibrated torque wrench in accordance with the specified torque values.
- Do not use impact drivers or power tools for final tightening.
- Overtightening may result in deformation of aluminium components, thread damage, or compromised structural and sealing performance.

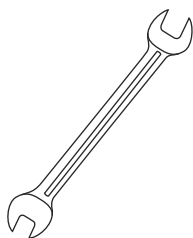
■ SEALING & WATERPROOFING

- Verify that all fasteners are tightened to the specified torque, with no loosening or stripping. Pay special attention to critical connections for M6 and M8 fasteners.
- Inspect all seals to ensure they are intact and continuous, without any warping or gaps.
- Test the tailgate and side doors to ensure smooth opening and closing without any jamming or interference, and that all functional components operate normally.
- It is recommended that after driving 50-100 kilometers, re-check the tightness of all fasteners and tighten any loose parts.

■ DISCLAIMER

- The manufacturer accepts no liability for damage, injury, or loss resulting from installation, use, or maintenance not carried out in accordance with this manual.

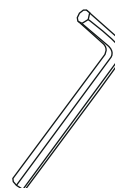
02 INSTALLATION TOOLS



10mm Open-end Wrench X 2



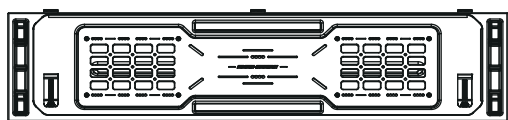
4mm Hexagon Socket Wrench



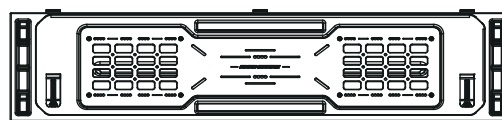
5mm Hexagon Socket Wrench

03 ACCESSORIES

■ PARTS 1



1 Left storage box X 1



2 Right storage box X 1



3 Crossbar X 2



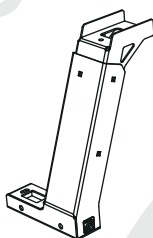
4 Longitudinal bar X 2



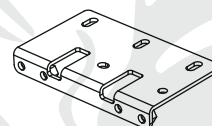
5 The inner crossbar of the longitudinal bar X 2



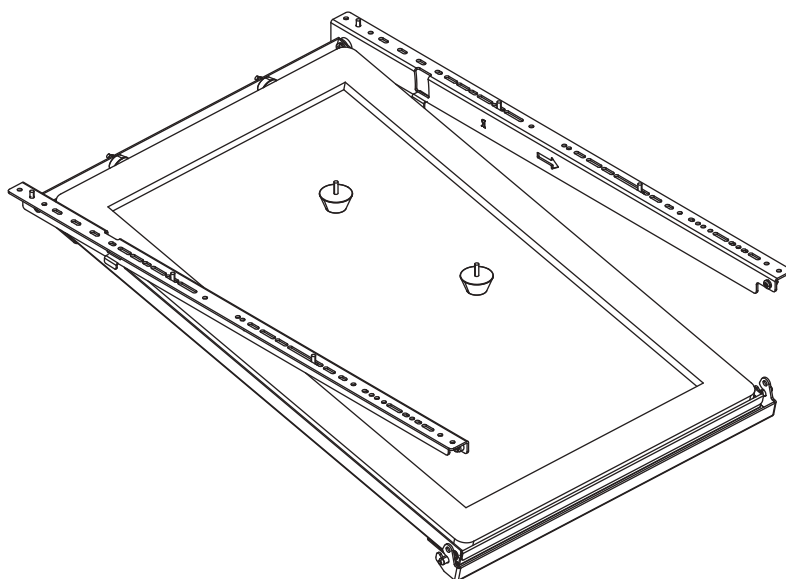
6 Handle x 2



7 Horizontal bar and vertical column X 4



8 Roller blind fixing bracket X 4

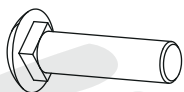


9 Outdoor Folding Table Kit

■ PARTS 2

M8*30

Semi-round
head square neck screw



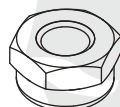
M5

Flange nuts



M8

Flange nuts



26*16*6

Square Nut



M6*8

Hex socket pan
head screws



D8

D8 Flat Mattress



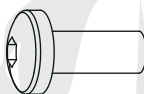
D8

D8 Flat Mattress



M4*10

Hex socket flat
head screws



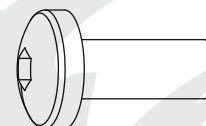
M5*16

countersunk
hex screws



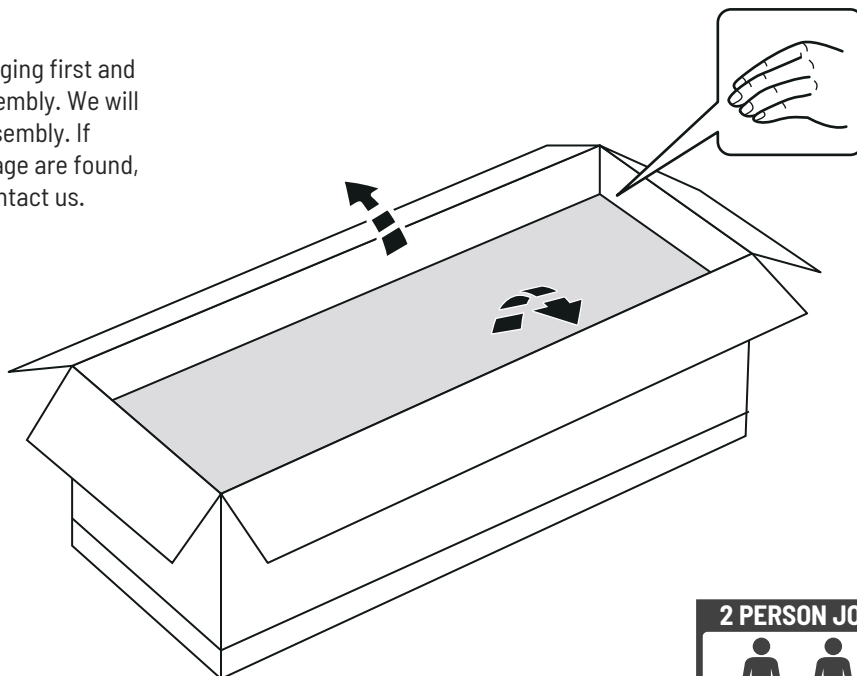
M8*20

Hex socket pan
head screws



STEP 1

- Please remove all panels from the packaging first and inspect the painted surfaces before assembly. We will not accept any warranty claims after assembly. If manufacturing defects or shipping damage are found, please do not continue assembly and contact us.

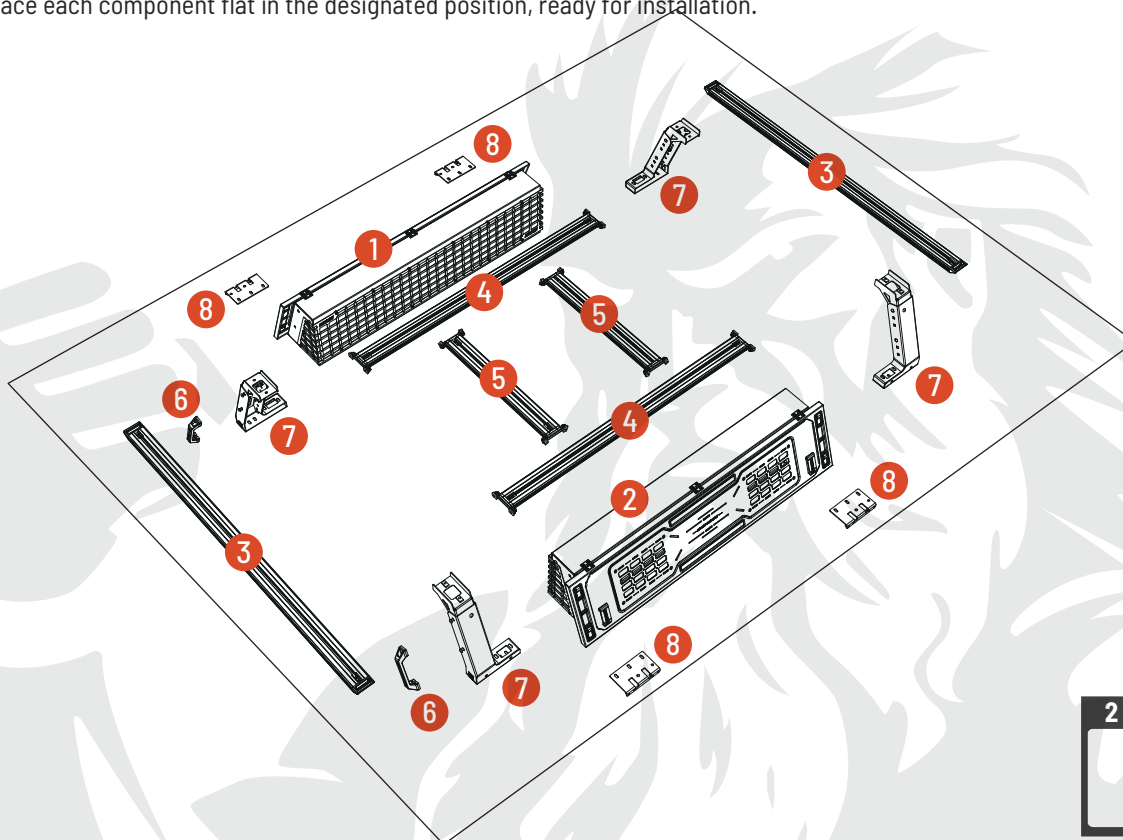


2 PERSON JOB



STEP 2

- Place each component flat in the designated position, ready for installation.



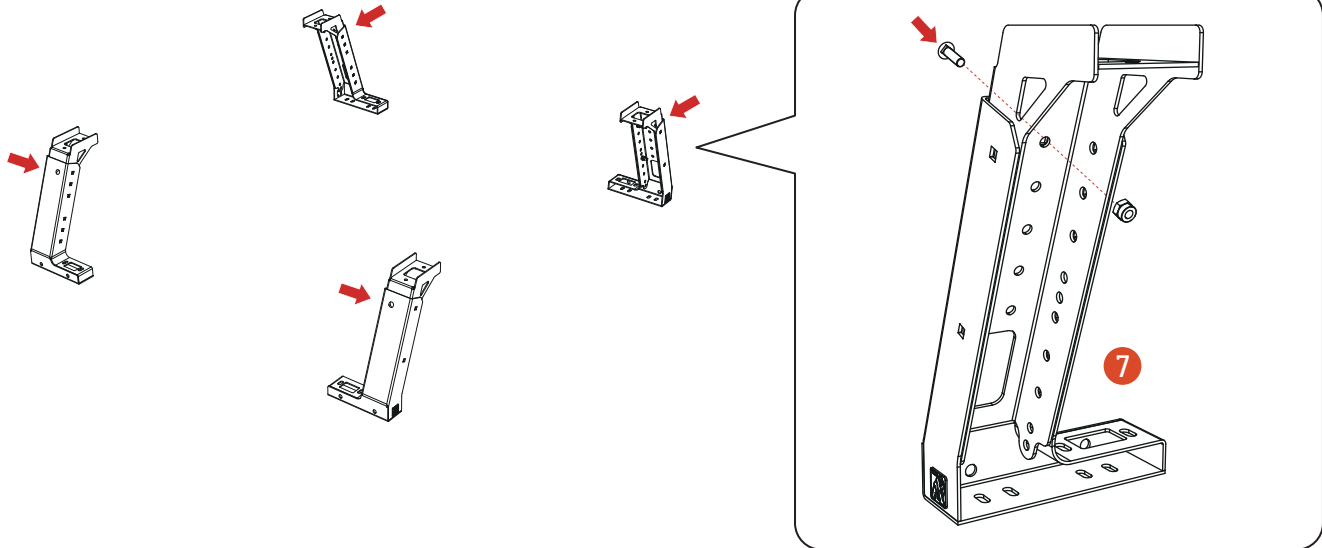
2 PERSON JOB



STEP 3

➤ Assemble the column

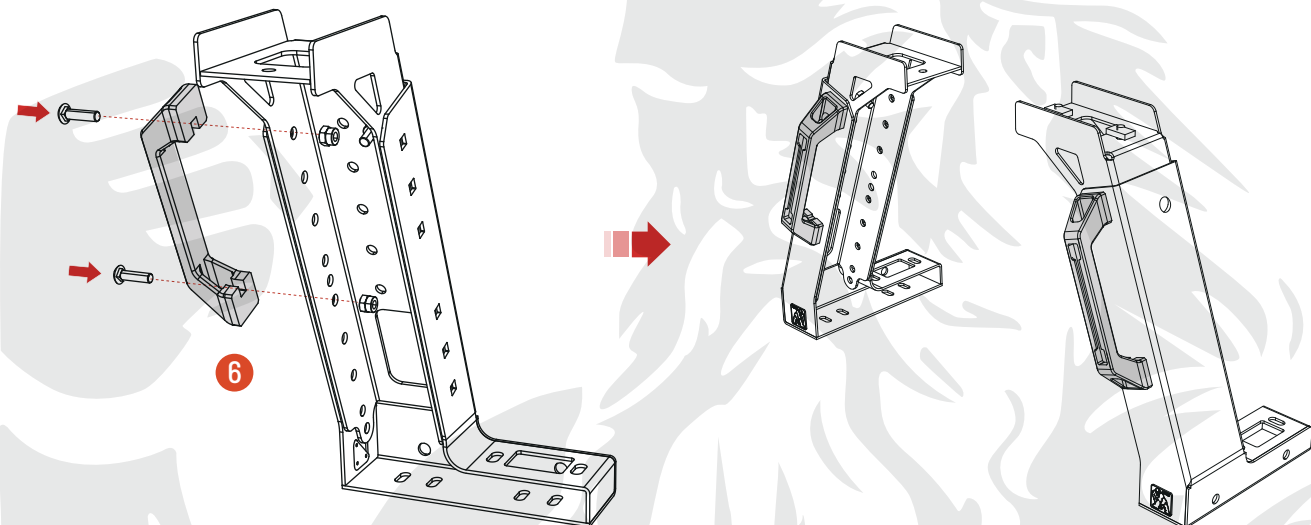
1. Adjust the height as needed; the adjustment range is 425mm-550mm.
2. After aligning the mounting holes on the uprights, insert M8×30 semi-circular head square neck screws and tighten them with M8 hexagonal lock nuts to secure them.
3. The height of all four uprights must be consistent.



STEP 4

➤ Tail handle installation

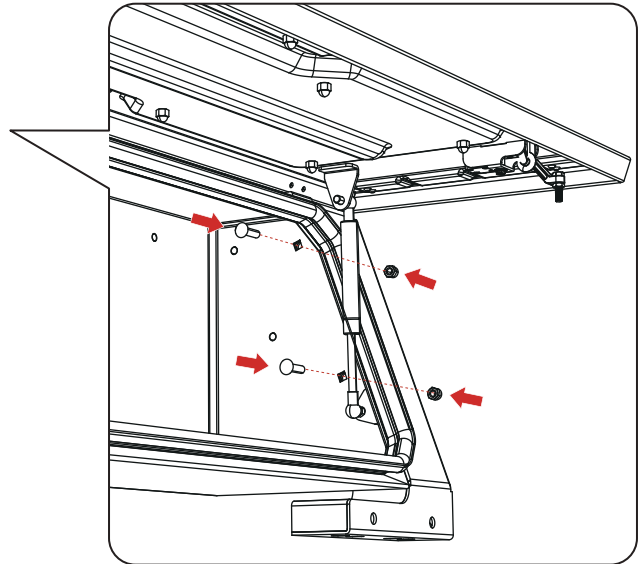
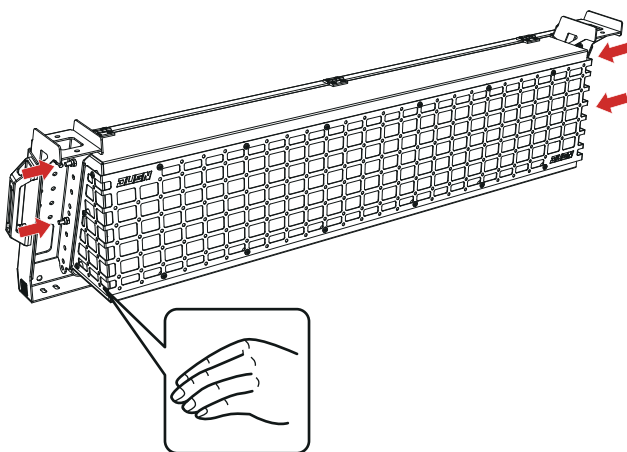
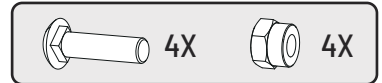
1. Secure the handle to the corresponding mounting hole on the tailgate by inserting an M8×30 semi-circular head square neck screw and tightening an M8 hexagonal lock nut.
2. The handle can then be installed on the two horizontal support posts at the rear.



STEP 5

➤ Assemble the left storage box and column

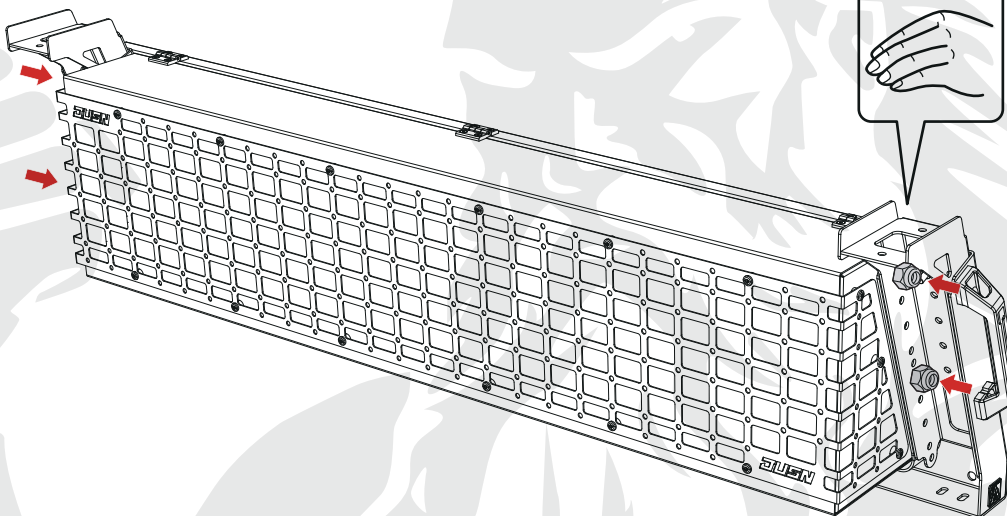
1. Align the mounting holes of the uprights with the storage box, insert M8×30 semi-circular head square neck screws, and tighten M8 hexagonal lock nuts to secure them;
2. The heights of the two uprights must be the same.



STEP 6

➤ Assemble the right storage box and pillar

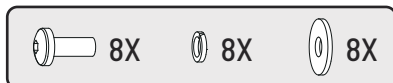
1. Align the mounting holes of the uprights with the storage box, insert M8×30 semi-circular head square neck screws, and tighten M8 hexagonal lock nuts to secure them;
2. The heights of the two uprights must be the same.



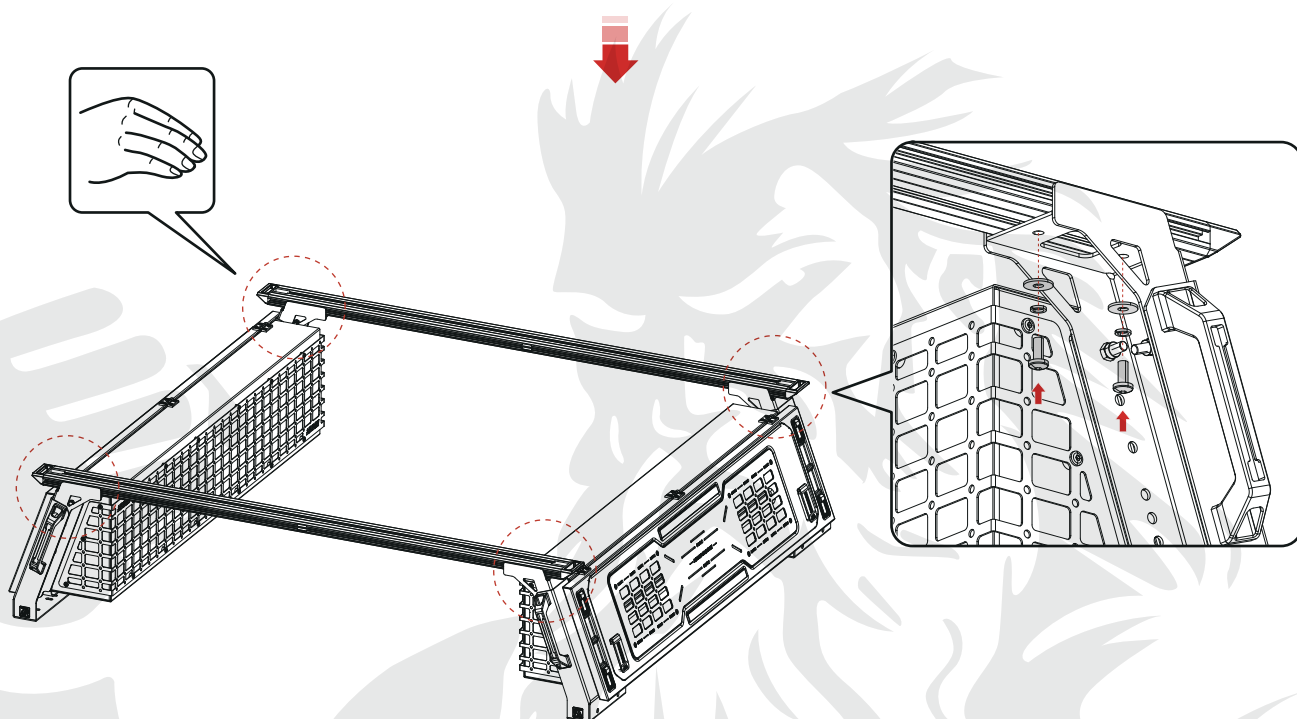
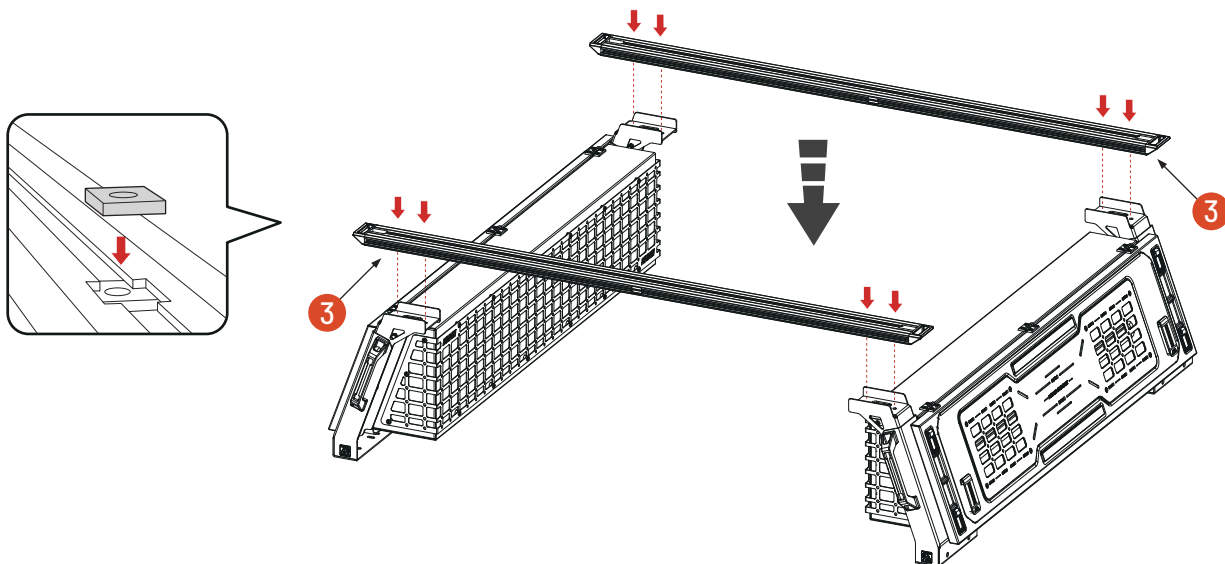
STEP 7



➤ Crossbar assembly



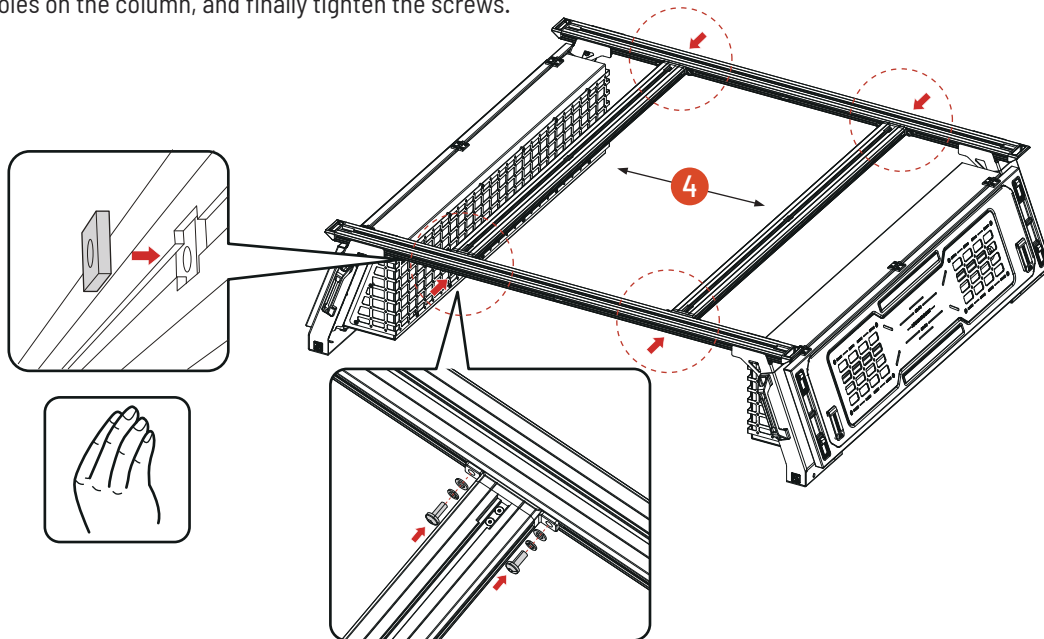
1. Install the uprights and crossbars: Slide four 26×16×6 mm square nuts into the inside of the crossbars;
2. Tighten and secure: Screw eight M8×20 hex socket head cap screws, eight D8 spring washers, and eight D8 flat washers into the square nuts in sequence, aligning them with the holes on the uprights, and finally tighten the screws.



STEP 8

➤ Longitudinal bar assembly

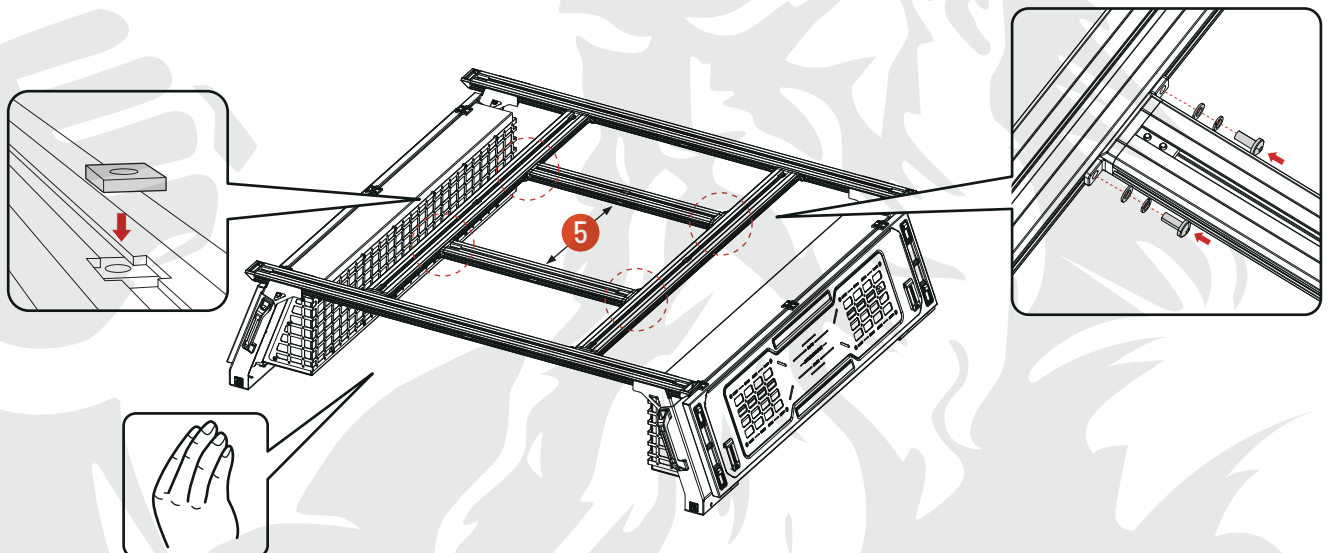
1. Base Assembly: Slide the 26×16×6 mm square nuts into the groove in the middle of the crossbar, two nuts at each end of the crossbar;
2. Locking and Fixing: Screw eight M8×20 hex socket head cap screws, eight D8 spring washers, and eight D8 flat washers into the square nuts in sequence, aligning them with the holes on the column, and finally tighten the screws.



STEP 9

➤ The internal crossbar assembly of the longitudinal bar

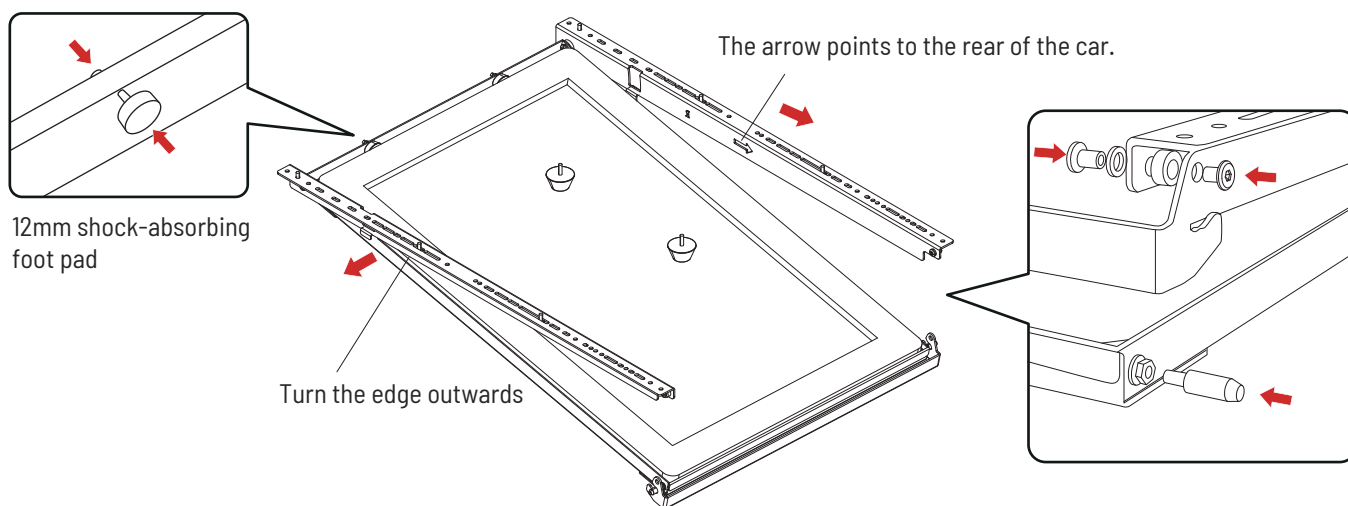
1. Base Assembly: Slide the 26×16×6 mm square nuts into the groove in the middle of the crossbar, two nuts at each end of the crossbar;
2. Locking and Fixing: Screw eight M8×20 hex socket head cap screws, eight D8 spring washers, and eight D8 flat washers into the square nuts in sequence, aligning them with the holes on the column, and finally tighten the screws.



➤ Outdoor Folding Table Kit

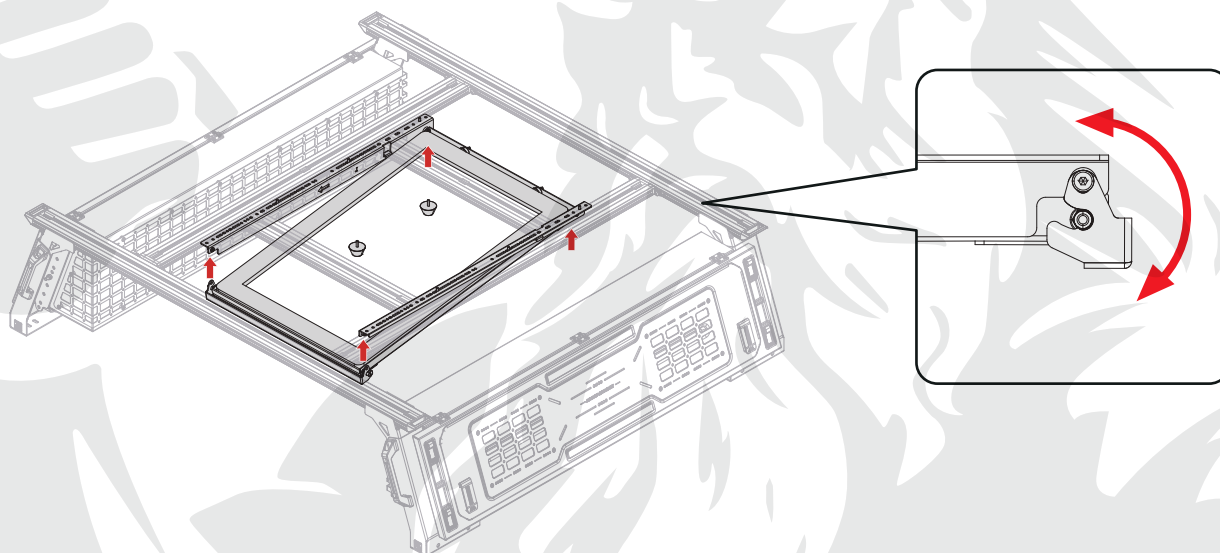
01 Folding table frame assembly

- ① Fix the L-shaped bracket (distinguish between left and right): Distinguish between the left and right brackets (arrows pointing towards the rear of the vehicle, flanged side facing outwards), and use 2 sets of M8×12 clamp bolts, 2 M10 spring washers, and 2 M25×10×6 rubber pads to secure them (torque: approximately 20 N.m).
- ② Fixed limit bracket: Use 2 sets of M6×12 clamping bolts, 2 M8 spring washers and 2 M15×8×6 rubber pads to fix the limit bracket to the L-shaped fixed bracket (torque: about 10 N.m). The inner sides of the limit bracket are both L-shaped fixed brackets.
- ③ Install desktop accessories: Install 12 mm shock-absorbing feet in the two pre-drilled holes at the front of the table frame; install positioning pins in the two pre-drilled holes on both sides of the rear of the table frame.



02 The frame is installed to the top cover and a folding table is placed on it.

- ① Secure the folding table frame to the top cover: Install the assembled folding table frame into the pre-drilled holes on the inner crossbeam of the top cover, and secure it using 6 M6×16 flange face hex bolts, 6 M6 spring washers, and 6 M6 flat washers (torque: approximately 10 N.m).
- ② Install 25 mm shock-absorbing feet: Install two 25 mm shock-absorbing feet in the pre-drilled holes in the middle of the other two top beams;
- ③ To place the folding table: Rotate the limit bracket to open the folding table frame, place the folding table inside the frame (smooth side down), and then close the folding table frame.



06 TRUCK CARGO BOX ASSEMBLY



➤ Truck cargo box assembly

01 Positioning:

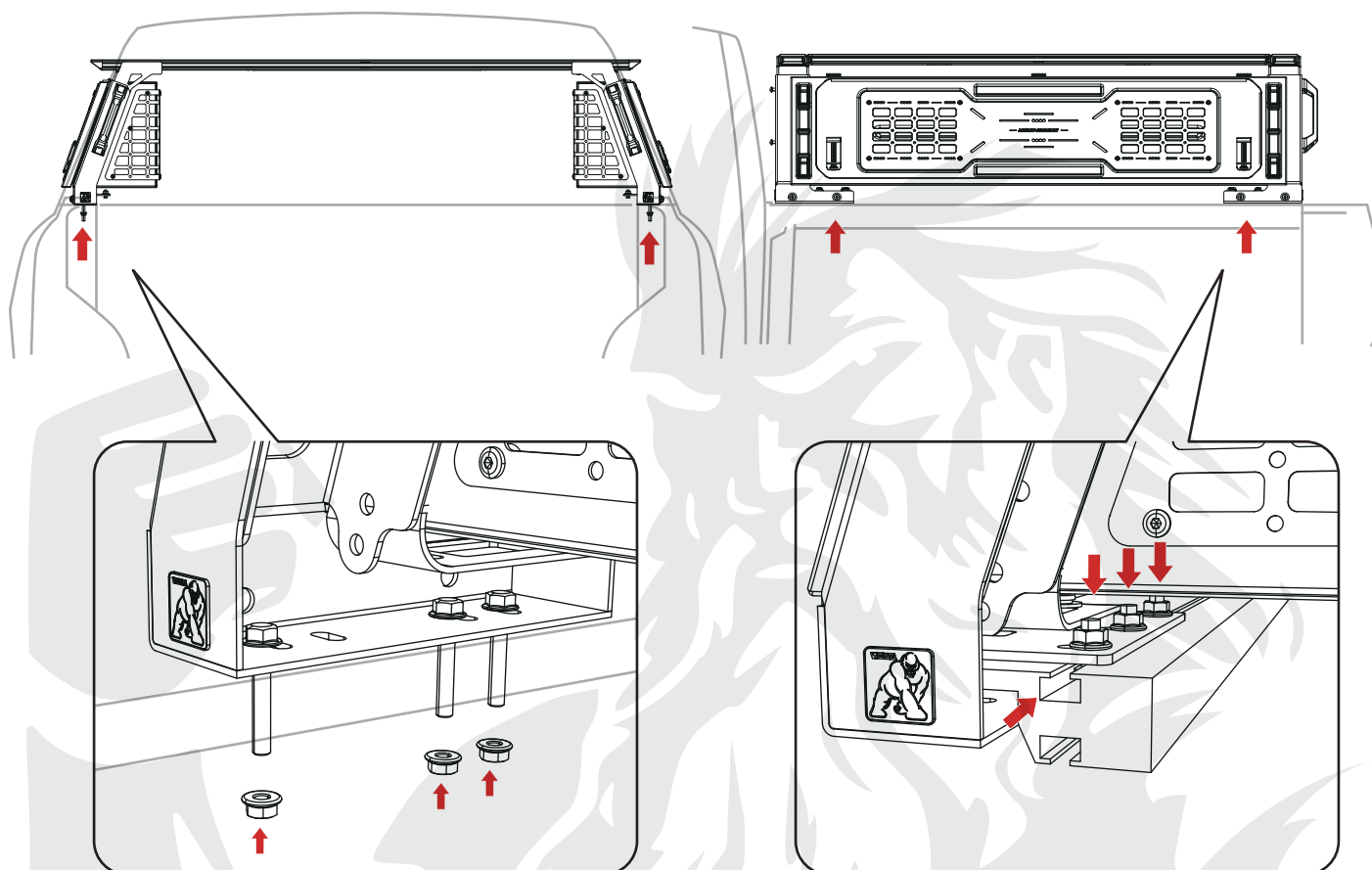
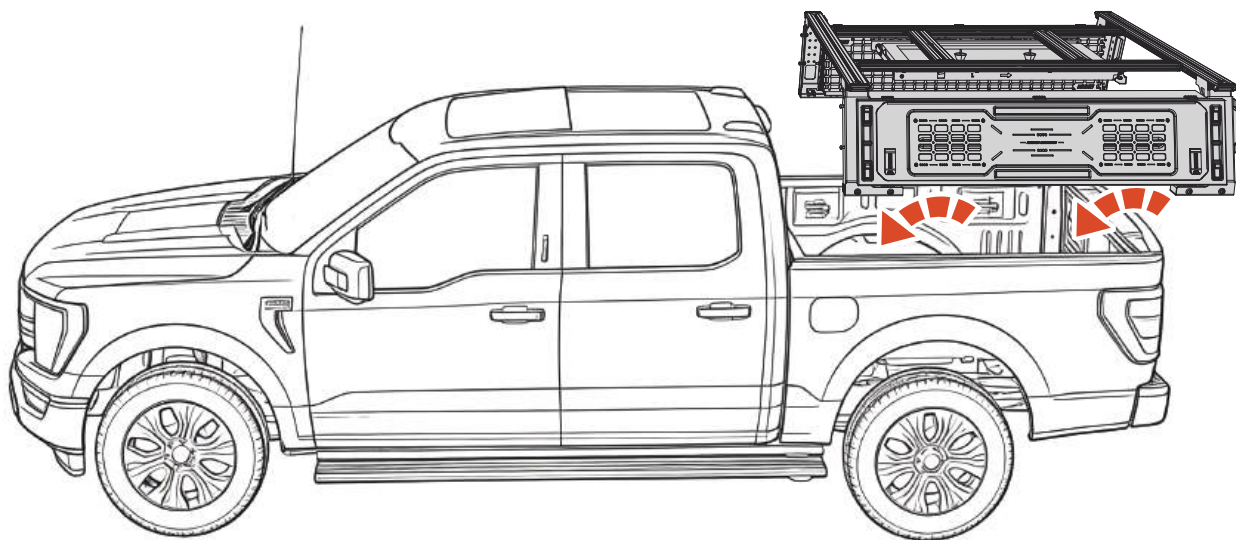
Please have four people work together to lift the assembled smart cover onto the truck bed.

4 PERSON JOB



02 Secure and fasten:

Install the mounting bracket and secure it with screws.



Installation and fixing method 1

Installation and fixing method 2

■ POST-ASSEMBLY INSPECTION



Fastener inspection: Confirm that all bolts and nuts are tightened to the specified torque and are not loose (pay special attention to critical M6/M8 connections);



Sealing inspection: Check that the sealing areas are free of warping or gaps;



Functional check: Test the tailgate handle (smooth operation) and optional components (such as the opening and closing of the folding table and the stability of the crossbar);



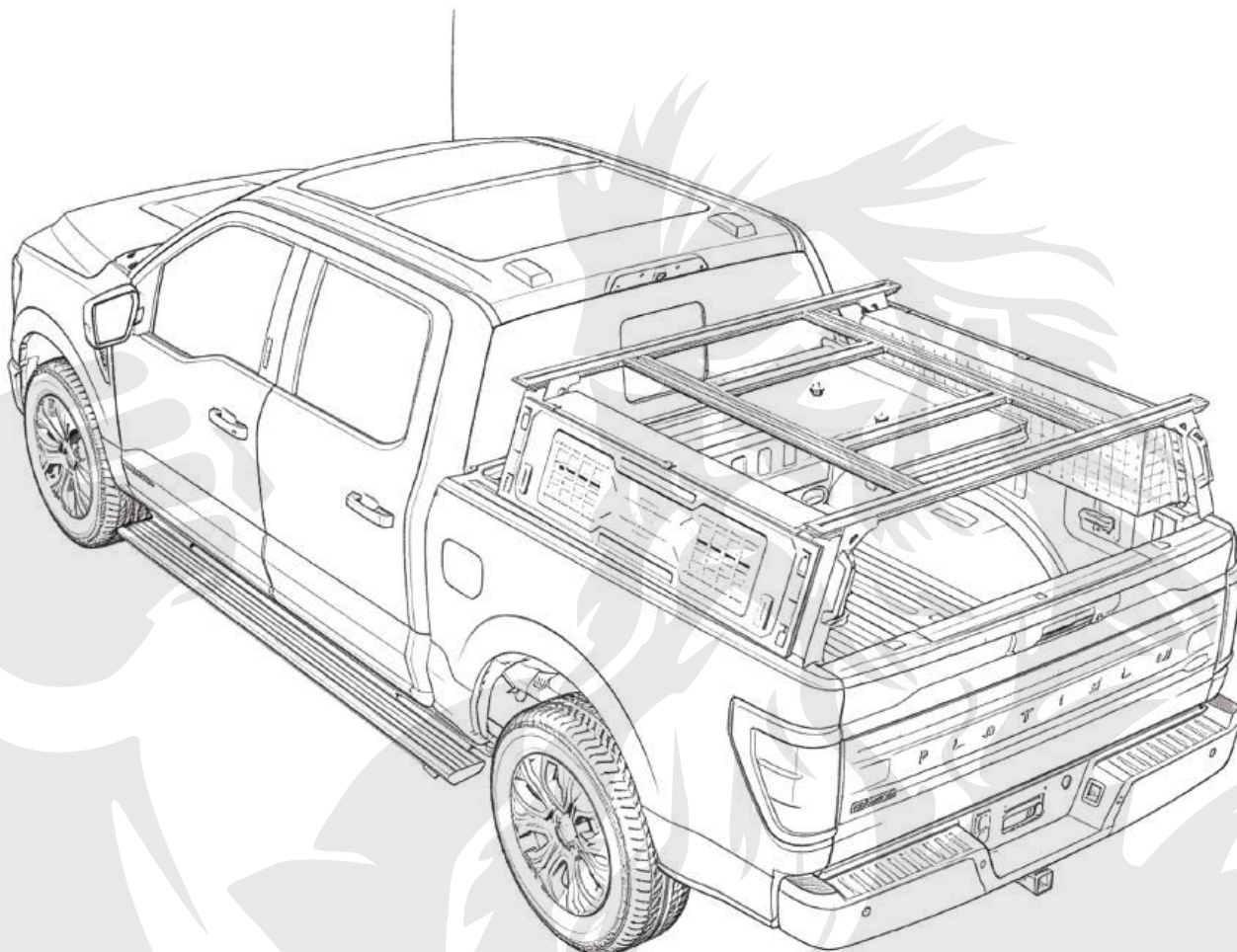
Visual inspection: Ensure the cover surface is free of scratches and deformation; confirm that all components are installed in the correct positions.

■ MAINTENANCE RECOMMENDATIONS

- Regular inspection: Check the bolt tightness every 3 months, and tighten them promptly if any are found to be loose;
- Bolt inspection: Check for rust and looseness. It is recommended to apply medium-strength threadlocker and tighten it again.
- Cleaning and maintenance: Clean the top cover and optional components regularly. Avoid using corrosive cleaning agents to prevent damage to the surface and seals.
- Storage and protection: When the vehicle is not in use for a long period of time, it should be parked in a dry environment or covered with a protective cover to avoid long-term exposure to harsh weather.



SYMPTOM	POSSIBLE CAUSE	SOLUTION
It makes a "squeaking" metallic friction sound when driving.	Loose bolts caused the support frame to slide relative to the cargo box.	Tighten all bolts on the vehicle and apply threadlocker to any loose bolts.
Components loose after assembly	Insufficient torque; incorrect fastener specifications	Retighten to the specified torque and replace mismatched fasteners.
The gantry frame was visibly shaking.	The base fixing bolts are severely loose or broken.	Immediately stop using the device and remove it for inspection, replacing all damaged bolts.
The folding table cannot be opened or closed.	Incorrect bracket installation direction	After disassembly, reinstall the bracket according to the markings.



CANOPY



THANKS FOR YOUR PURCHASE

PLEASE LET US KNOW IF YOU HAVE ANY QUESTIONS