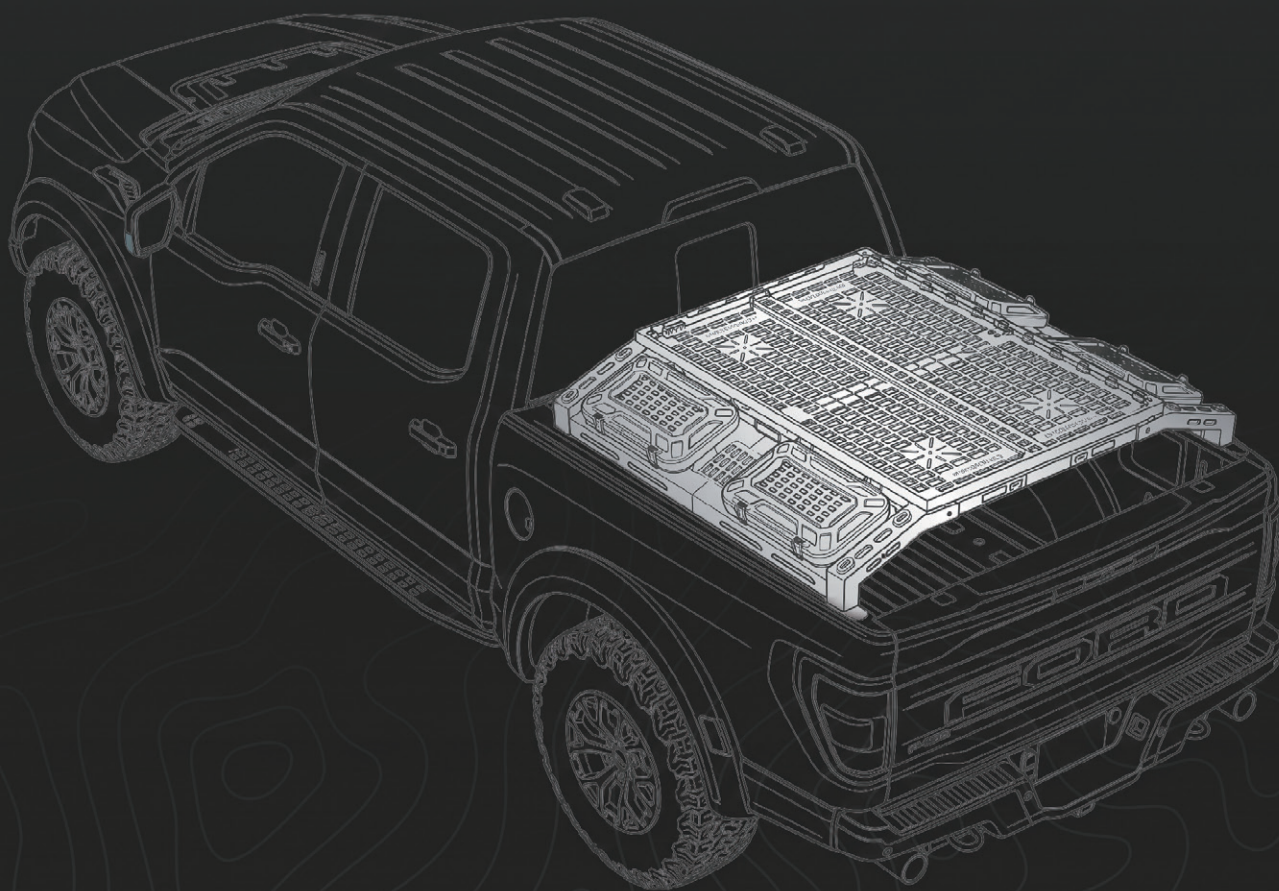


MULTI-FUNCTIONAL BED RACK

(Drill-Free Mounting for Roller Tonneau Covers)

INSTRUCTION GUIDE ▶▶





- Prepare a clean work area.
- We recommend 1 person for assembly and at least 2 persons for vehicle installation.
- Ensure all required tools are available and all parts have been inventoried.
- Do not use acetone or thinners on painted surfaces.
- Read the entire installation manual thoroughly and follow the steps strictly before starting operation.
- Execute the following steps carefully to avoid damage to components or the vehicle.

目 录

01	Installation Notes & Safety Precautions	01
02	Required Tools	02
03	Parts List	03
04	Main Frame Assembly Steps	04
05	Vehicle Installation Steps	09
06	Wiring Connection	12
07	Post-Installation Inspection & Maintenance	13
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■ Unboxing & Component Overview

- This product adopts modular split packaging. Upon receipt, inspect the package integrity first, then verify all components against the parts list to confirm completeness and no dent, deformation, scratch or paint loss. Contact after-sales immediately for missing or damaged parts. Paint damage after assembly will not be covered by warranty.
-

■ Core Safety Rules

- Park the vehicle on flat solid ground, apply the handbrake and power off the engine before installation to avoid vehicle slippage.
 - Full rack lifting and top frame alignment require 2 operators. Do not lift alone to prevent personal injury or frame deformation from falling parts.
 - Use fasteners of corresponding specifications only. Do not mix screws of different sizes or force misaligned holes, to avoid stripped threads or component damage.
 - Do not bend or pull gas strut ends forcibly. Ensure retaining clips are fully locked after installation to prevent sudden release and injury.
 - Disconnect vehicle power before wiring the rear crossbar light assembly. Do not wire with power connected to avoid short circuit damage to the harness or vehicle circuit.
 - Do not force installation on incompatible vehicles or tonneau covers. Rail dimensions vary by model, and forced installation may cause component damage.
 - Do not exceed the rated load capacity, to avoid frame deformation or weld cracking.
-

■ Installation Principle

Follow the core rule of pre-tighten, align, then final tighten to avoid rework:

- Hand-tighten all screws first to allow minor position adjustment. Once alignment and gaps are set, tighten evenly in a diagonal sequence. Do not fully tighten one side directly.
 - Ensure left-right symmetry and aligned holes during frame assembly. Do not force tighten one side, which will cause frame skew.
-

■ Vehicle & Environment Preparation

- Clear all cargo from the truck bed, clean sand and debris from tonneau cover rails. Ensure the bed floor and rails are clean, free of protrusions, and mounting points are free of obstruction or rust.
 - Confirm tonneau cover rails are intact, free of deformation or cracks, and no debris is stuck in the rail channels. Work in a well-lit, spacious area free of falling hazards or vehicle movement risk. A protective mat on flat ground is recommended to avoid paint scratches.
-

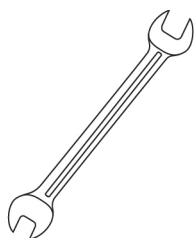
■ General Inspection & Maintenance Note

- After assembly, inspect fasteners, alignment gaps, functions and appearance item by item to ensure no looseness, jamming or deformation.
 - Periodically re-tighten fasteners, clean and lubricate sliding parts, and protect components from rust and aging. For faults such as skewed rack, looseness or function failure, prioritize checking alignment, fastening, lubrication and part specifications.
-

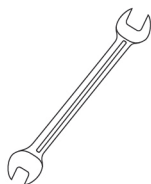
■ Disclaimer

- The manufacturer shall not be liable for any product damage, vehicle damage, personal injury or property loss caused by failure to follow the installation, use or maintenance instructions in this manual. This manual is subject to update without notice. Contact your local dealer for the latest version.

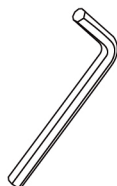
02 REQUIRED TOOLS



13mm
open-end wrench



10mm
open-end wrench



6mm
Allen wrench



5mm
Allen wrench

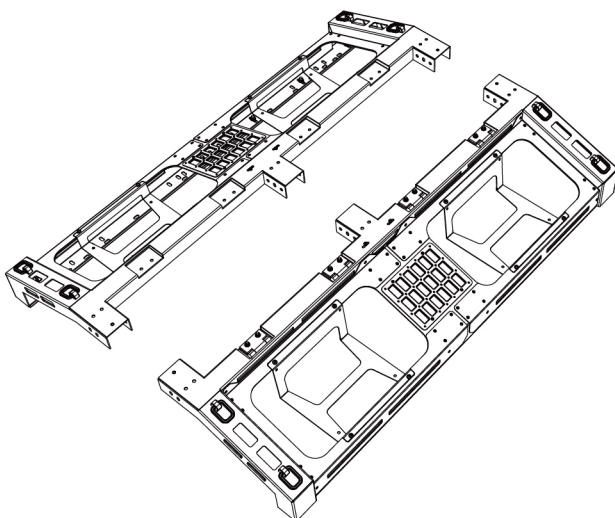


4mm
Allen wrench

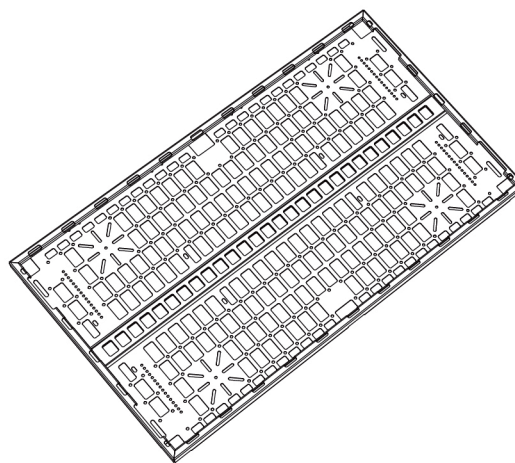
03 PARTS LIST

■ MAIN STRUCTURAL PARTS

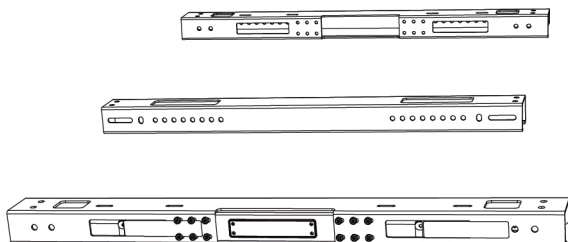
1 Main upright frames X2



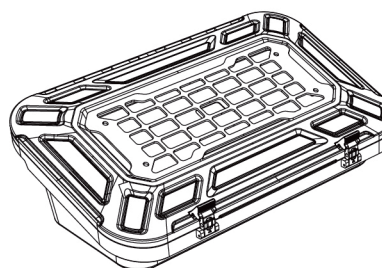
2 Top mesh panel



3 Crossbars (front, middle, rear) X3

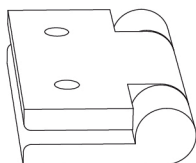


4 Storage boxes X4

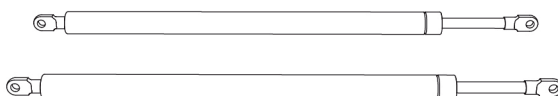


03 PARTS LIST

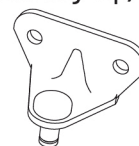
5 Hinges ×4



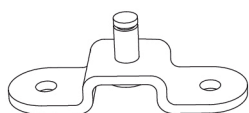
6 Gas Struts ×2



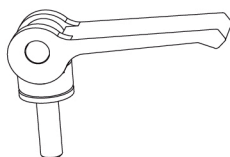
7 Gas Strut Bracket A ×2
(with Retaining Clip)



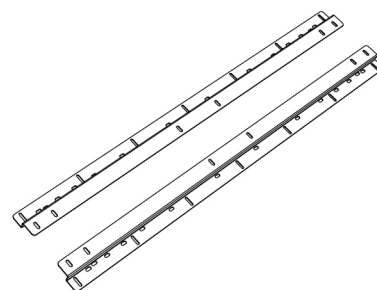
8 Gas Strut Bracket B ×2
(with Retaining Clip)



9 Cam Latches ×2



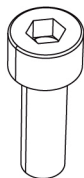
10 Tonneau Cover
Mounting Brackets×2



■ HARDWARE

M8*20

Socket Head
Cap Screw



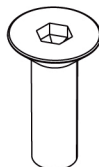
M6*20

Button Head
Socket Screw



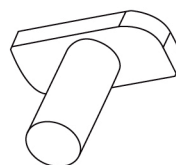
M6*20

Countersunk
Socket Screw



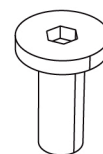
M8*20

T-Bolt



M8*20

Low-Profile
Flat Head Screw



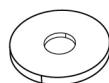
M8*16

Flat Washer



M8*30

Flat Washer



M8

Flange Nut



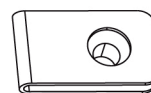
M6

Flange Nut



M6

Clip Nut



Retaining Clip

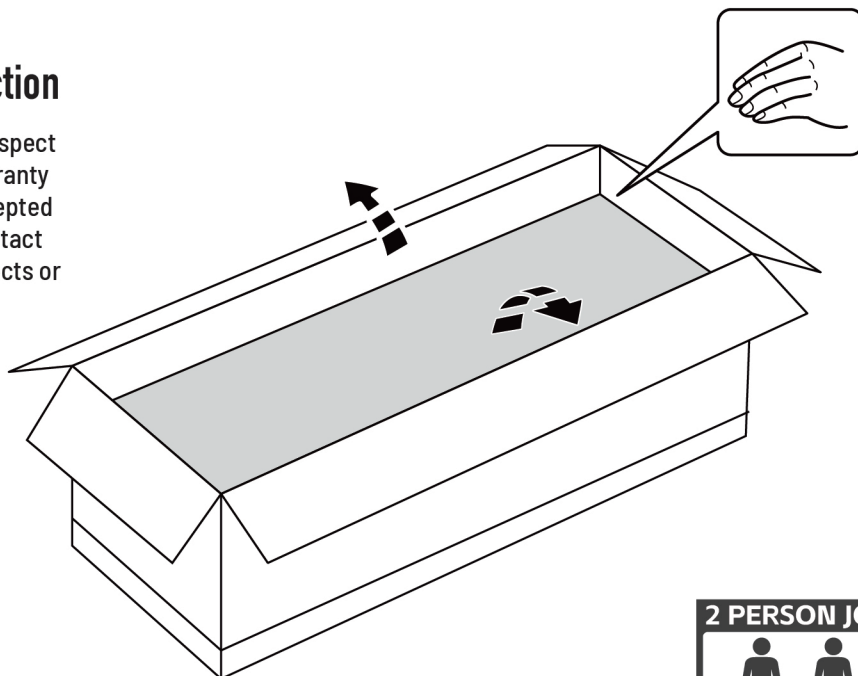


04 MAIN FRAME ASSEMBLY STEPS

STEP1

➤ Pre-Assembly Paint Inspection

Remove all parts from packaging and inspect painted surfaces before assembly. Warranty claims for paint damage will not be accepted after assembly. Do not proceed and contact customer service if manufacturing defects or shipping damage are found.



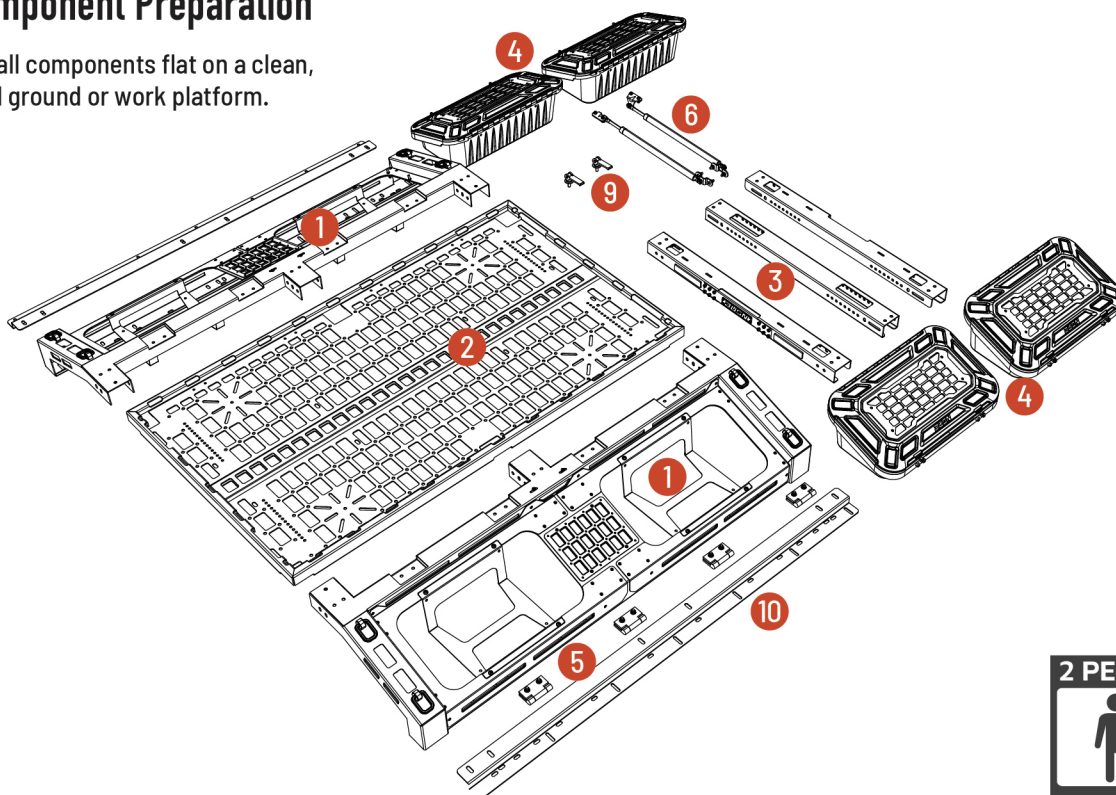
2 PERSON JOB



STEP2

➤ Component Preparation

Lay all components flat on a clean, level ground or work platform.



2 PERSON JOB



STEP 3



44X



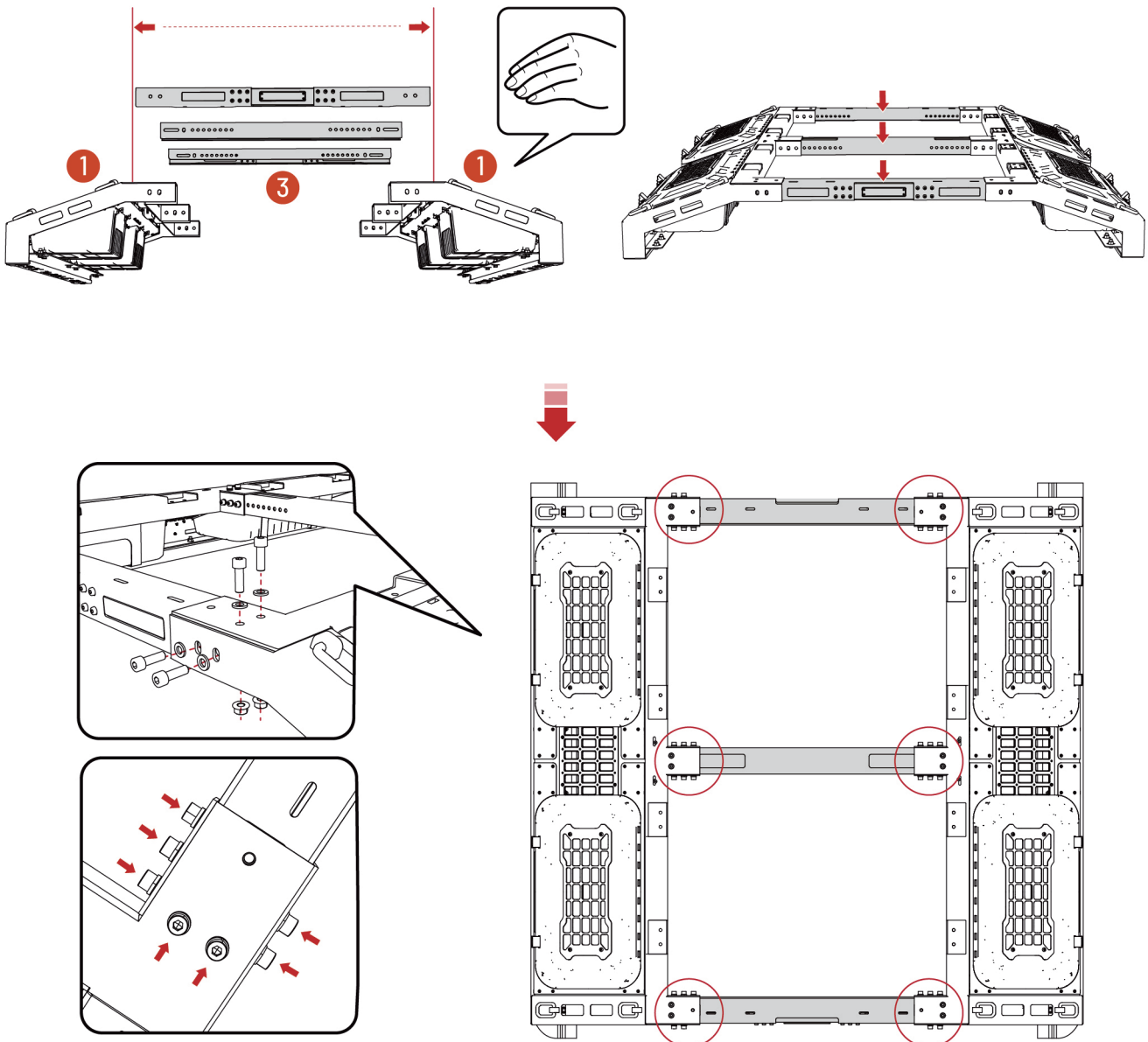
44X



44X

➤ Main Frame Assembly (Uprights + 3 Crossbars)

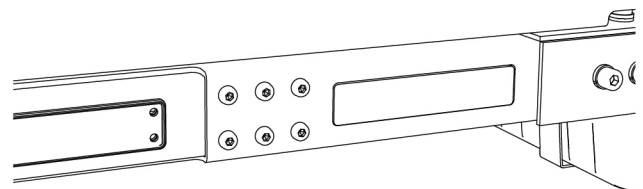
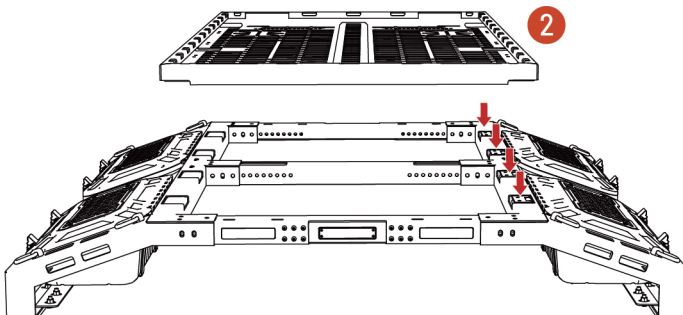
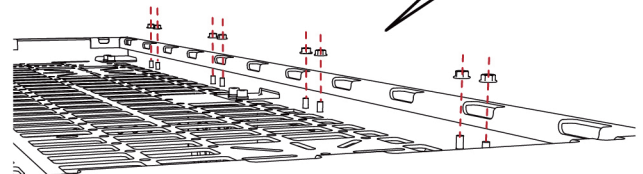
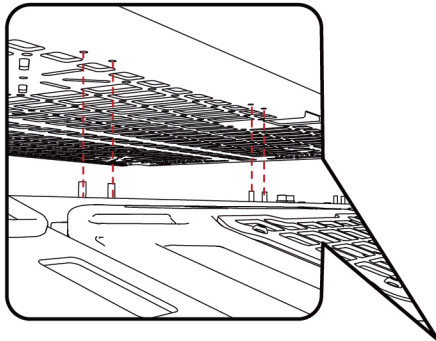
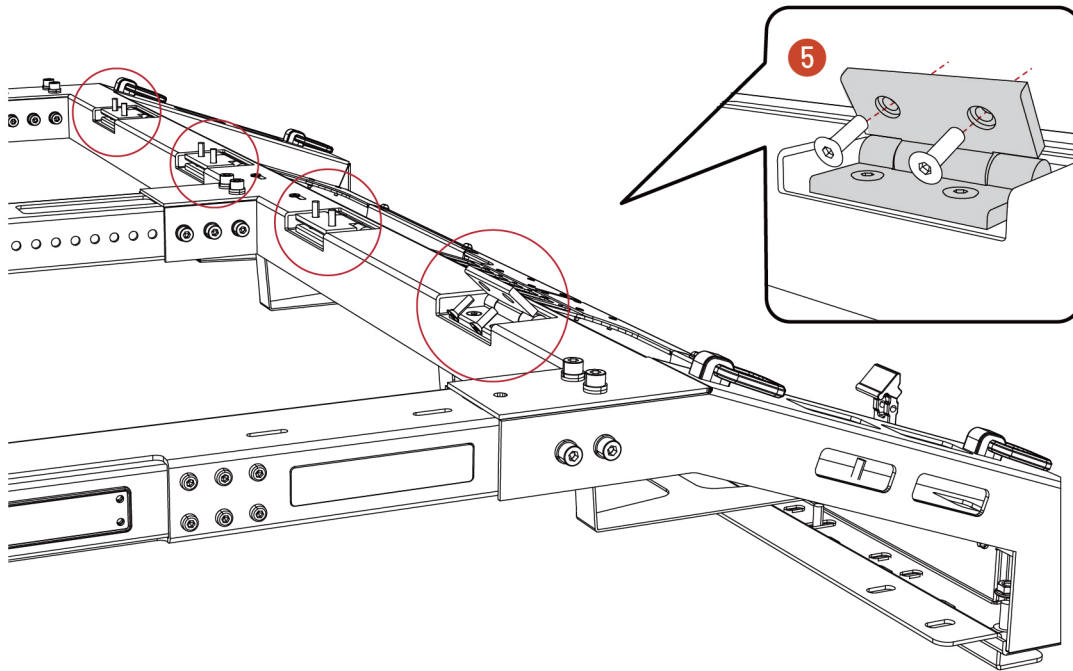
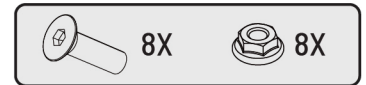
- 01** Component identification & alignment: Identify the hinged upright to confirm the top frame opening direction. Distinguish the rear crossbar (with integrated lights, facing vehicle rear). Align the front, middle and rear crossbars with mounting holes on both uprights, and lay flat on a protective mat.
- 02** Fastener pre-tightening: Insert flat washers, spring washers and socket head cap screws at each connection point, and fasten with flange nuts on the other side. Hand-tighten all fasteners to keep the frame adjustable.
- 03** Align & final tighten: Confirm the frame is square, left-right symmetrical and free of distortion, then tighten all fasteners evenly in a diagonal sequence for overall rigidity.



STEP4

➤ Hinged Top Frame Installation

- 01** Align & fit: Align the top frame with the edge of the hinged upright, matching the 8 mounting holes at the hinge. Have one person support the top frame at an angle.
- 02** Secure: Insert countersunk screws from the outside of the top frame, and fasten with flange nuts on the inner side. Pre-tighten all screws first, then tighten evenly in a diagonal sequence to ensure smooth hinge operation without jamming or noise.

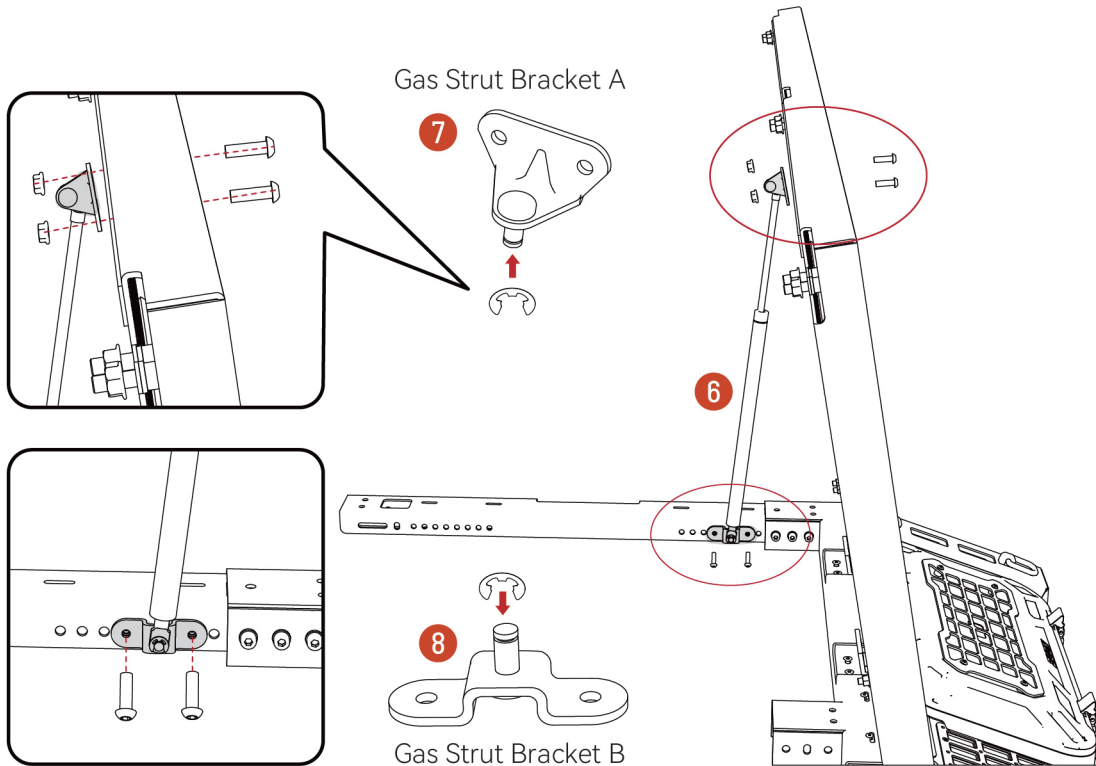


STEP5



➤ Front & Rear Gas Strut Installation

- 01** Bracket mounting: Fix 2 pcs of bracket A to corresponding positions on the front and rear crossbars, and 2 pcs of bracket B to corresponding positions on the top frame. Pre-tighten with matching fasteners.
- 02** Gas strut fitting: Snap both ends of each gas strut into the slots of bracket A and bracket B on the corresponding side, ensuring full engagement.
- 03** Lock with retaining clips: Install the included retaining clips into the slots to lock the gas strut ends. Open and close the top frame 3 times to confirm smooth operation and stable support.

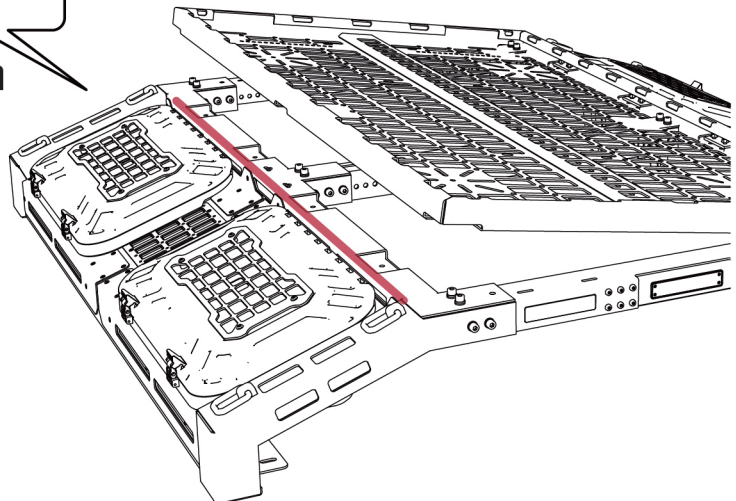


STEP6



➤ Vibration-Damping Pad Installation

- 01** Surface cleaning: Wipe the top frame contact surface on the non-hinged upright to remove dust and grease for secure adhesion.
- 02** Pad application: Peel the backing off the 3M pad and apply it fully along the contact surface. Press firmly to ensure full adhesion for vibration damping and road noise reduction.

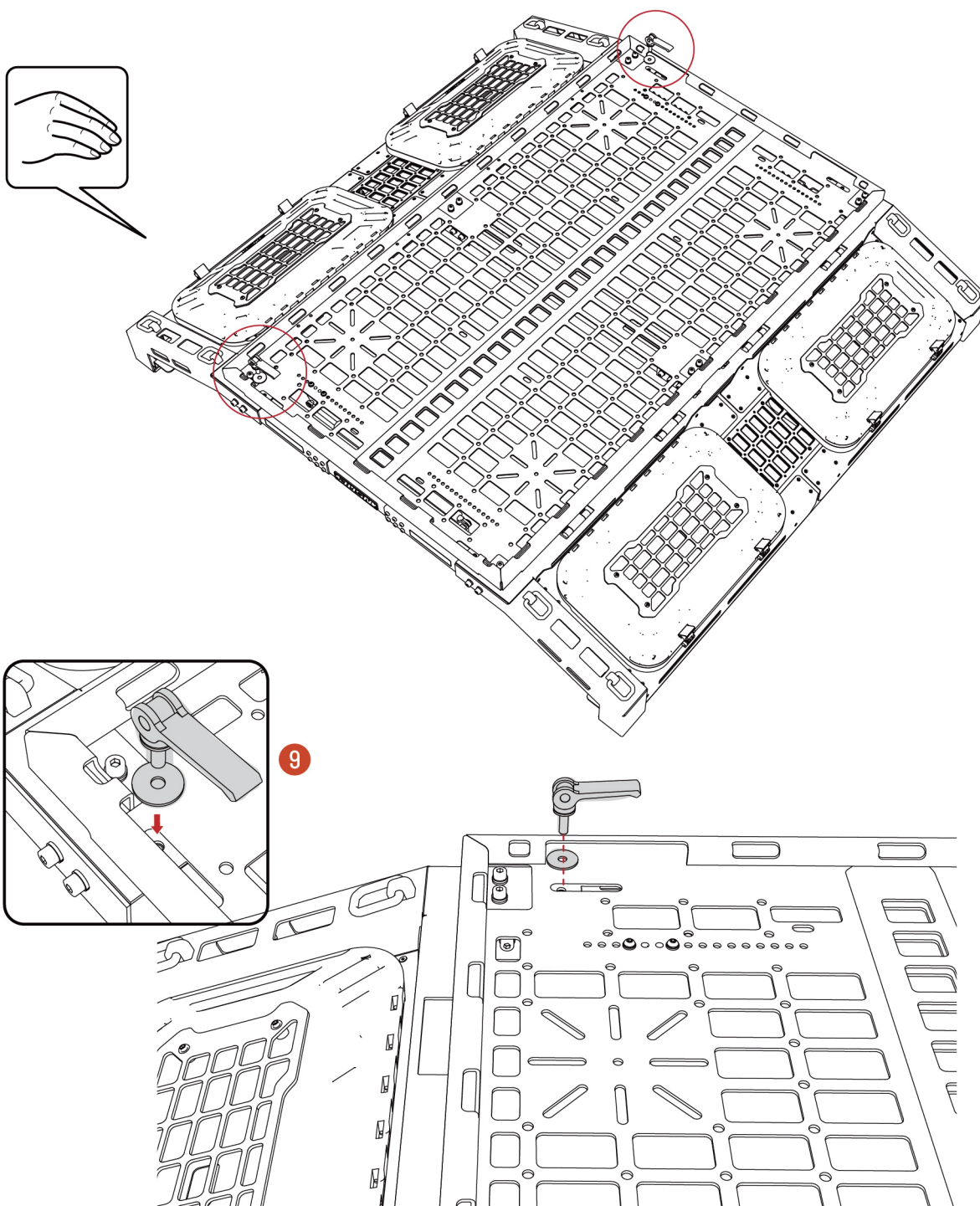


STEP7



➤ Cam Lock Handle Installation

- 01** Handle preparation: Remove the rivet nut from the cam lock handle, and place the M8 washer onto the base of the handle screw.
- 02** Installation on main frame: Thread 2 cam lock handles into the front and rear threaded holes on the non-hinged side of the upright, and adjust the screwing depth.
- 03** Function verification: Press the cam lock handles to confirm normal locking and unlocking of the top frame, with no looseness when locked.



STEP 8



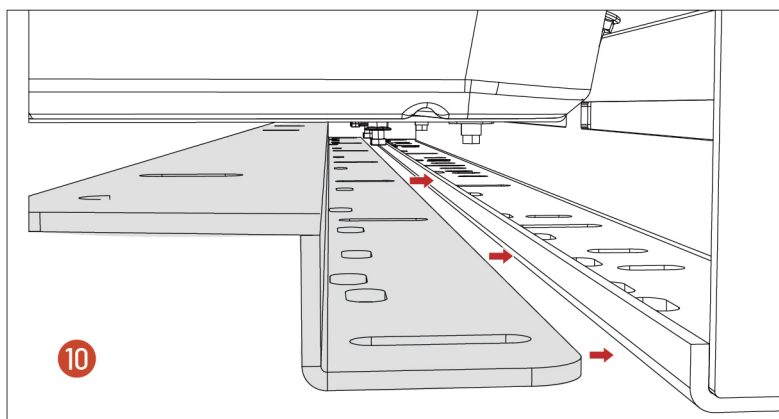
12X



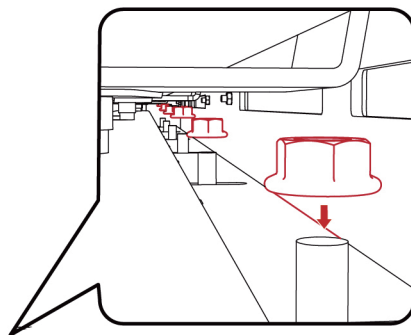
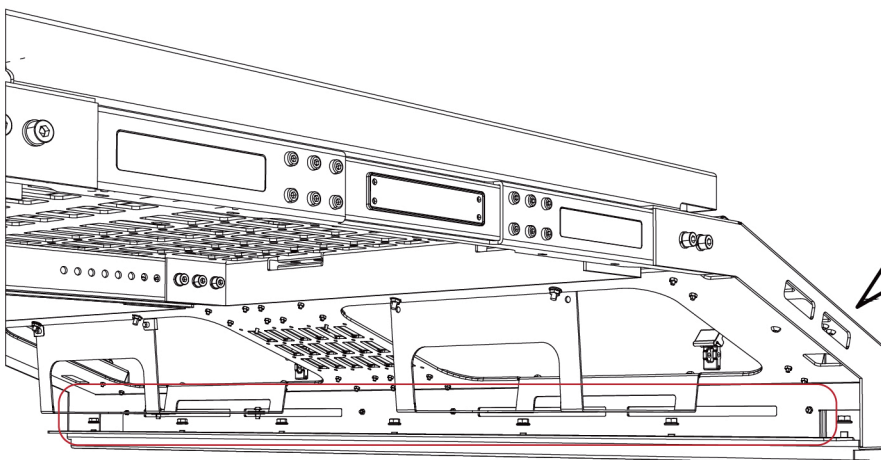
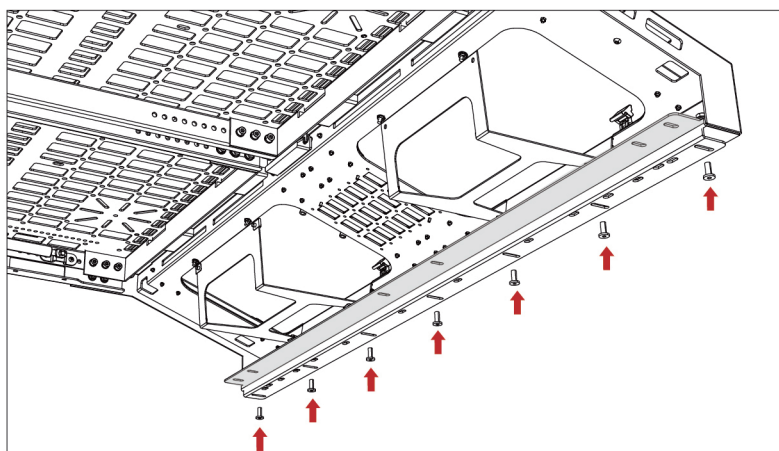
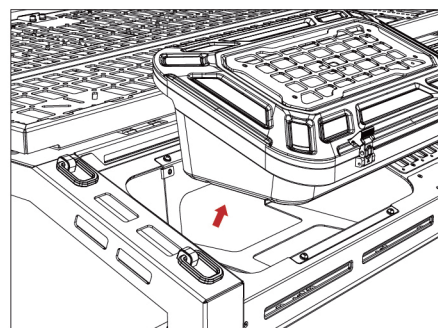
12X

➤ Vehicle Installation (for Katu Roller Tonneau Cover)

- 01** Bracket alignment: Fit the left and right tonneau mounting brackets to the inner bottom mounting points of the sports bar uprights, and confirm hole alignment.
- 02** Pre-tightening: Insert low-profile flat head screws upward from the bottom of the sports bar (flat side against the bottom surface for a flush fit), pass through the bracket holes and thread on nuts. Hand-tighten all only; do not fully tighten at this stage.



*Remove the storage boxes in advance for easier access to screws and nuts.



STEP9



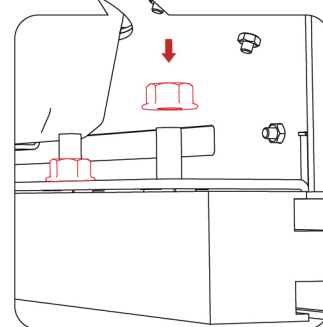
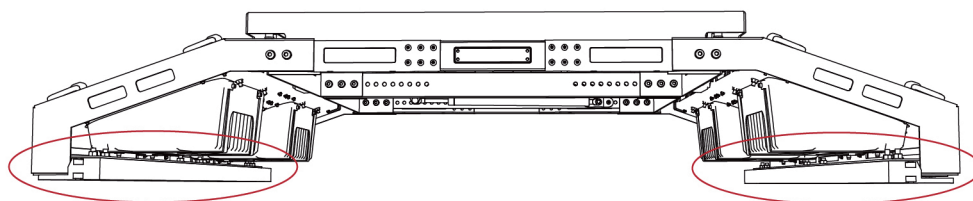
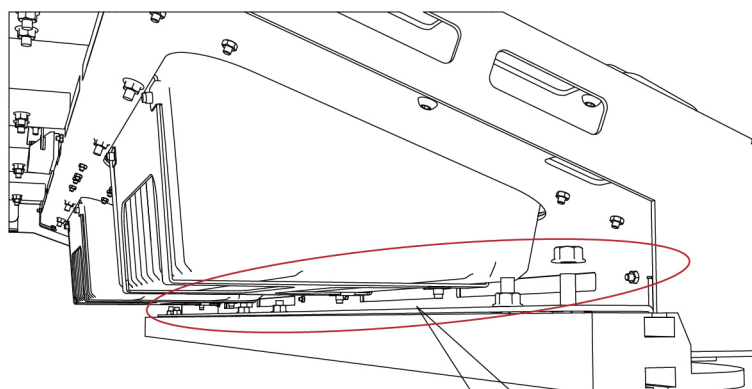
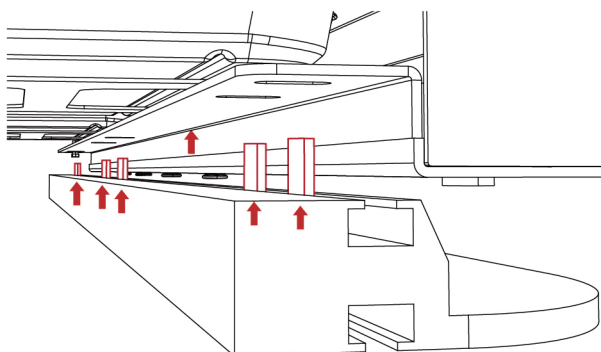
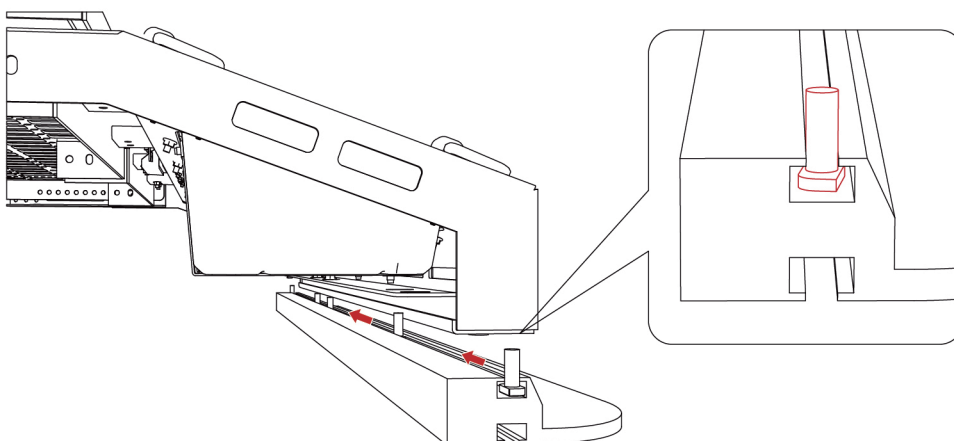
12X



12X

➤ Vehicle Installation (Continued)

- 01** T-bolt pre-installation: Slide M8×20 T-bolts into the channels on both sides of the tonneau cover rail. Place 6 bolts evenly on each side, and adjust the spacing to match the slotted holes on the mounting brackets.
- 02** Lifting & alignment: Lift the fully assembled sports bar onto the tonneau cover with 2 operators. Adjust the position so all T-bolts pass through the slotted holes of the mounting brackets.
- 03** Final tightening: Confirm the rack is centered and straight, then tighten all flange nuts on T-bolts in a diagonal sequence to complete the fixing.



*Before installation, clean out sand, dirt and debris from the sliding channels on both sides of the Katu roller tonneau cover, and ensure the rails are free from deformation and jamming.

STEP10



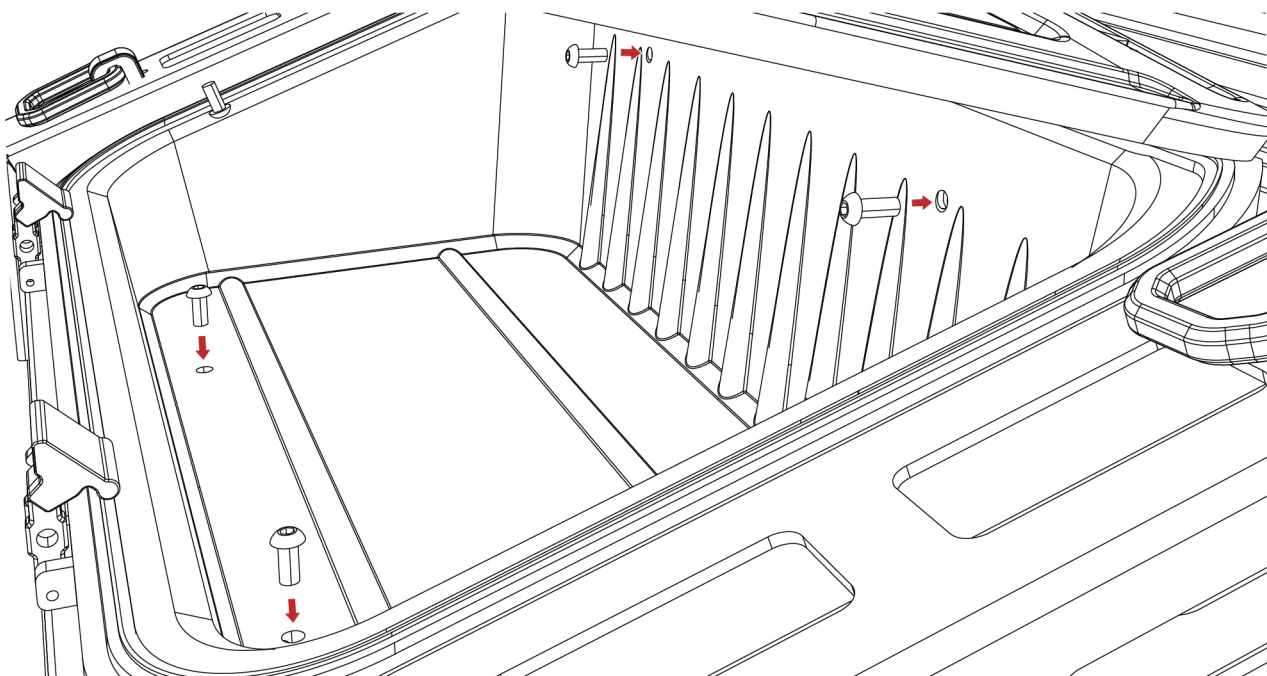
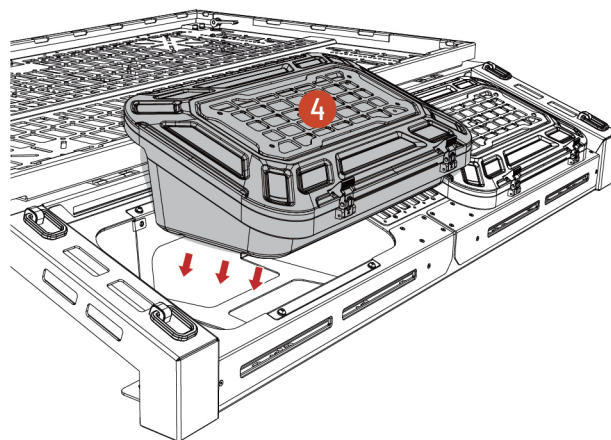
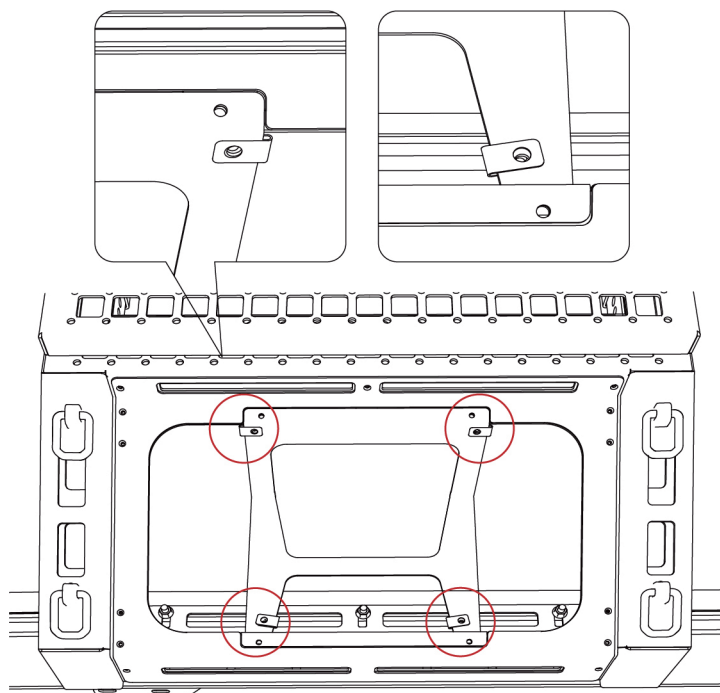
16X



16X

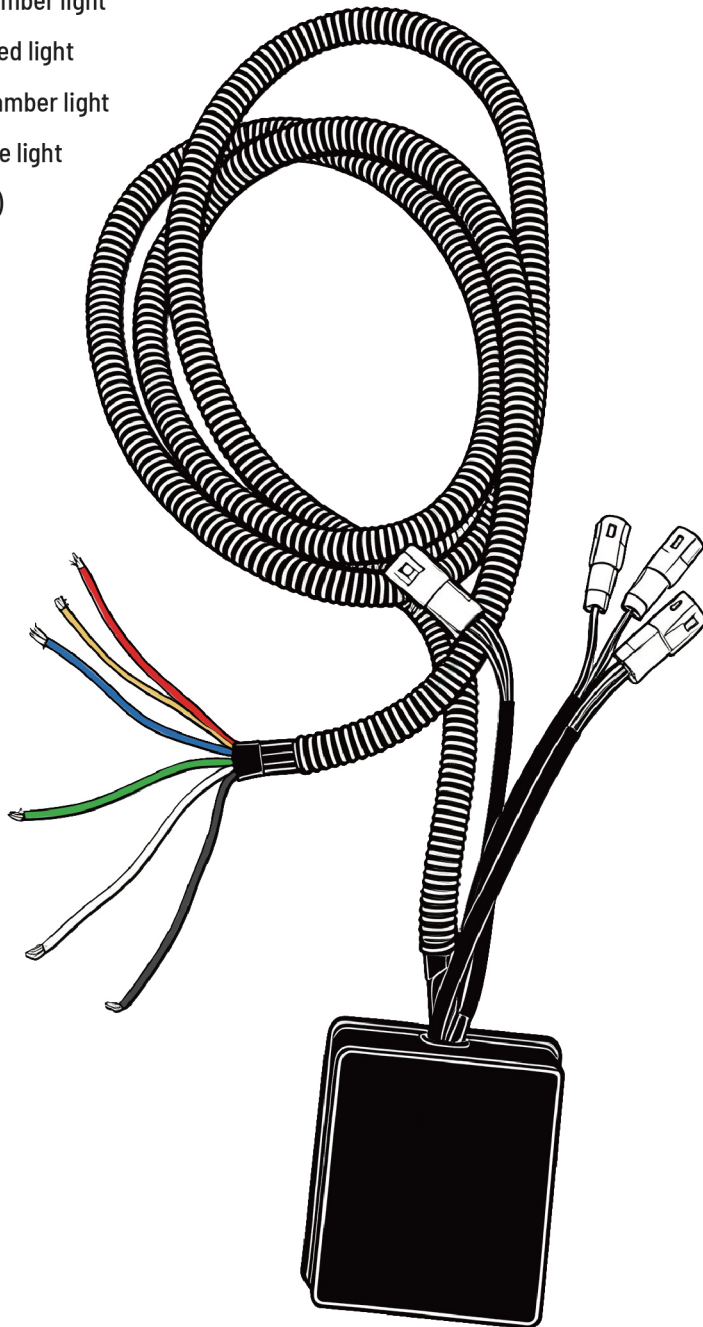
➤ Install Side Storage Boxes

- 01** Install 4 clip nuts at the corresponding mounting positions for each storage box.
- 02** Place the storage box onto the main rack body, and align its holes with the clip nuts.
- 03** Insert and tighten all M6 bolts sequentially to complete the assembly.



➤ Wiring Diagram

Wire Color		Function
	Red	High-brightness red light
	Yellow	Low-brightness amber light
	Blue	Low-brightness red light
	Green	High-brightness amber light
	White	Constant-on white light
	Black	Ground (negative)



*Connect corresponding wires according to your lighting requirements

■ Post-Installation Checks

**Fastener check:**

Confirm all crossbar screws, gas strut bracket screws, cam lock handles and tonneau mounting bolts are fully tightened, with no missing or stripped threads. Pay special attention to rail T-bolts and main crossbar connections.

**Function check:**

Open and close the top frame 3-5 times to confirm smooth gas strut operation and secure cam lock engagement. Connect vehicle power to test the rear crossbar light assembly and verify normal lighting and control functions.

**Alignment & gap check:**

Ensure even gaps around the closed top frame and full contact of the 3M pad. The sports bar shall be straight and free of noticeable wobble or movement when shaken by hand.

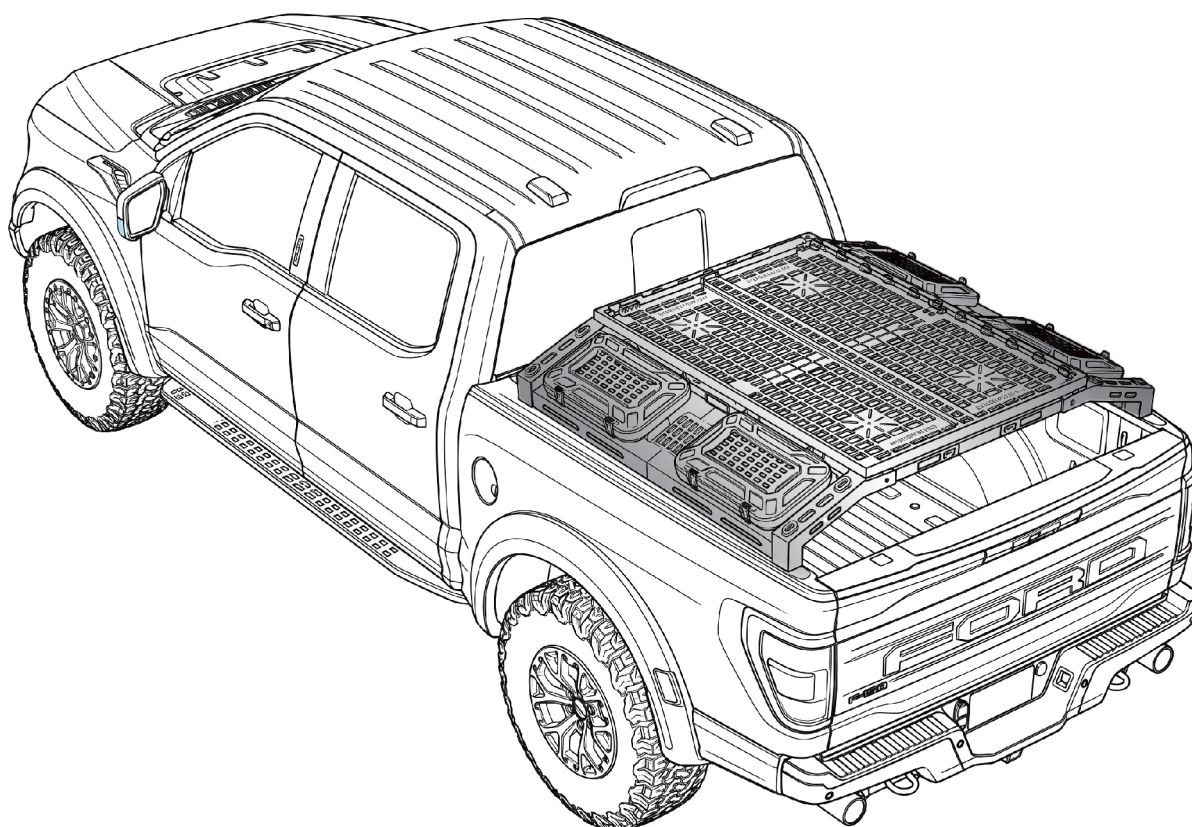
**Appearance check:**

Inspect uprights, crossbars and top frame for scratches, dents or impacts. Ensure all parts are installed in correct positions with no deformation or warping.

■ Maintenance Recommendations

- **Periodic re-tightening:** Re-tighten all fasteners every 3 months, especially tonneau rail T-bolts and gas strut bracket screws, to prevent loosening from driving vibration. Inspect gas struts every 6 months for leaks and proper function.
- **Cleaning & lubrication:** Regularly clean dirt and debris from tonneau rails and hinge pivots. Lubricate hinges and gas strut ends every 6 months with light grease for smooth operation. Do not use acetone or thinners on painted surfaces.
- **Usage protection:** Do not place overweight items on the top frame to avoid long-term load deformation. Keep the top frame closed and locked during long-term parking to prevent pad aging and paint degradation from sun and rain exposure.
- **Electrical maintenance:** Regularly inspect wiring harness insulation for damage. Dry connection points after wet weather to prevent connector corrosion and poor contact.

Issue	Possible Cause	Solution
Top frame jams / weak gas strut support	Gas strut end dislodged from bracket; loose bracket screws; internal gas strut leak	Re-seat the gas strut end and install the retaining clip; re-tighten bracket screws; contact after-sales for replacement if leaking
Loose cam lock / rattling while driving	Insufficient cam lock engagement; 3M pad shifted or detached; stripped thread	Adjust cam lock depth to clamp the top frame firmly; re-apply the 3M pad; contact after-sales for thread repair
Sports bar wobble / movement while driving	T-bolts not fully seated in the rail; loose flange nuts; misaligned brackets	Reinstall T-bolts to ensure full engagement in the rail channel; re-tighten all T-bolt nuts in diagonal sequence; re-align and reposition brackets
Frame resonance noise	Loose fasteners; poor 3M pad adhesion; top frame not fully locked	Re-tighten all connection screws; press firmly to re-adhere the 3M pad; ensure cam locks are fully engaged
Rear crossbar lights not working / flickering	Loose or disconnected wiring connector; faulty control box; blown vehicle fuse	Check and re-seat wiring connectors; check vehicle power fuse; contact after-sales if the issue persists



MULTI-FUNCTIONAL BED RACK

THANKS FOR YOUR PURCHASE

PLEASE LET US KNOW IF YOU HAVE ANY QUESTIONS