

(External Tactical Panel, Three-Door Design)



- 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.

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01 INSTALLATION & SAFETY PRECAUTIONS

■ 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

- Installation steps must be followed in the specified order. Do not modify or shortcut the installation process.
- All fasteners marked as "Do Not Tighten" must remain loose until the final fastening stage.
- When installing the roof panel, roof rails, side assemblies, and front/rear assemblies, ensure components are properly supported to prevent movement or collapse.
- Operations involving panel inversion or structural adjustment should be performed by two people.
Disconnect the vehicle power supply before installing any electrical components.

■ 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

- All sealing strips and B-type rubber seals must be applied in a single continuous length. Do not cut or join sections.
- Masking tape should be applied along both sides of joints before applying sealant.
- Sealant must be applied evenly in one continuous operation and finished before curing.
- Allow the sealant to fully cure before driving the vehicle or exposing it to water.

■ ELECTRICAL SAFETY

- All electrical functions must be tested prior to final sealing to ensure correct operation.
- Wiring harnesses must be securely fixed and kept clear of sharp edges, heat sources, and moving components.
- If any electrical fault is detected, discontinue use and inspect the installation immediately.

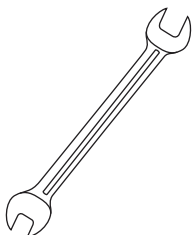
■ POST-INSTALLATION INSPECTION

- Verify that all fasteners are tightened to the specified torque values.
- Ensure all sealing points are complete and continuous.
- Confirm that the tailgate and side doors operate smoothly without interference.
- It is recommended to recheck all fasteners after the first (50-100 km) of driving.

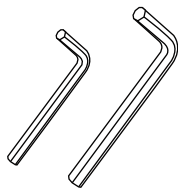
■ DISCLAIMER

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

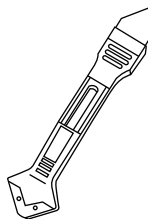
02 INSTALLATION TOOLS



10mm
Open-end Wrench X 2



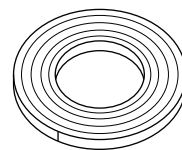
5mm Allen Key
4mm Hexagon Socket Wrench



Caulk Remover



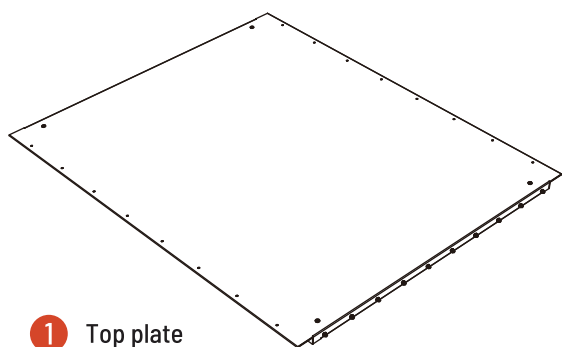
Sealant



Masking Tape

03 ACCESSORIES

■ PARTS 1



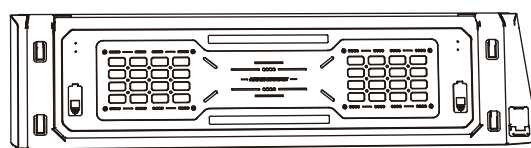
1 Top plate



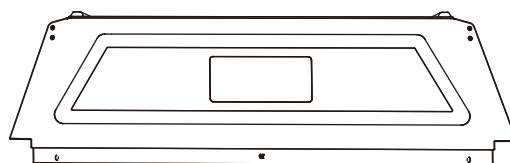
2 Roof top crossbar rails X 2



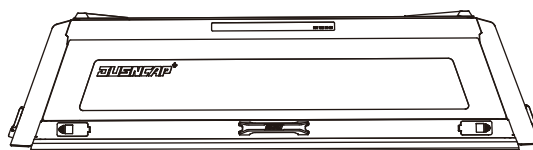
3 Top reinforcing ribs X 2



4 Side assembly X 2

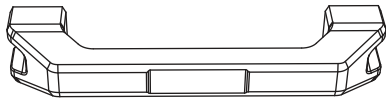


5 Front assembly

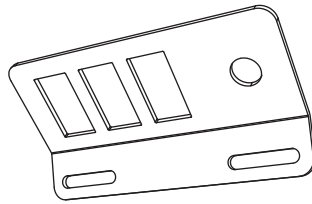


6 Rear assembly

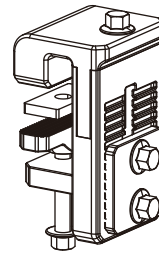
03 ACCESSORIES



7 Tailgate handle

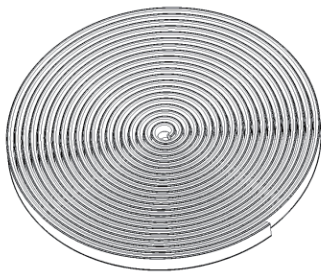


8 Switch panel

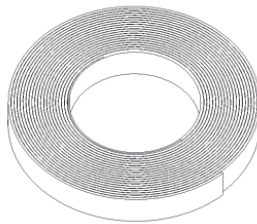


10 Mounting bracket

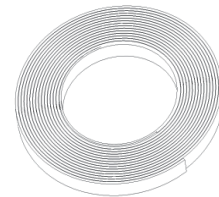
■ PARTS 2



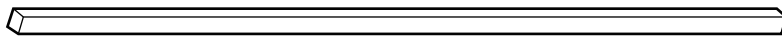
A Type B rubber strip



B 25mm-wide
sealing gasket



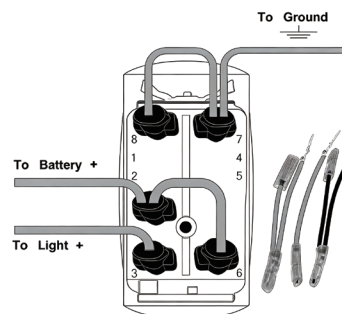
C 10mm-wide
sealing gasket



D Internal lighting lamp



E Wire harness

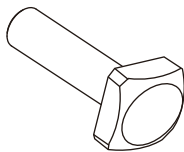


F Rocker switch X 3

■ **SCREWS**

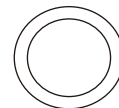
M6*25

Square Head Screw



M6

Sealing Ring



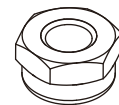
M6

Flange Nut



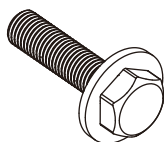
M6

Lock Nut



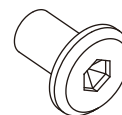
M6*16

Flange Hex Head Screw



M8*12

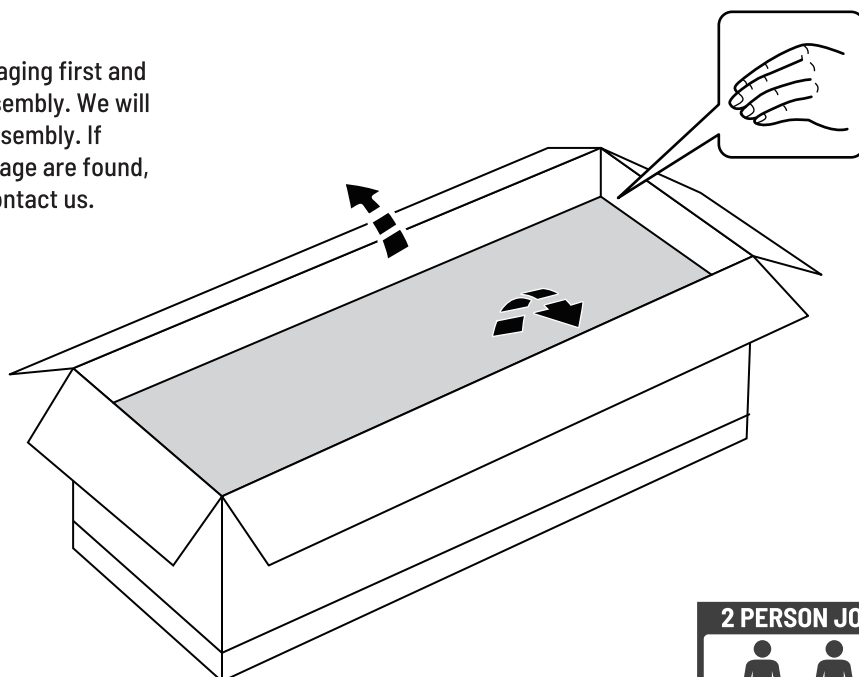
Pan Head Screw



04 INSTALLATION STEPS

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.

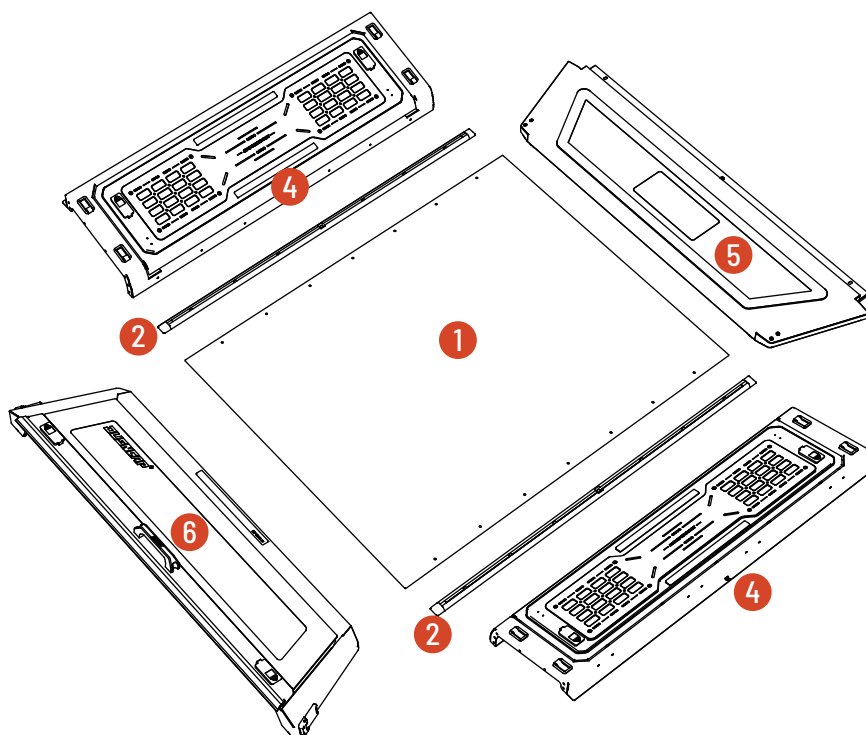


2 PERSON JOB



STEP 2

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



2 PERSON JOB

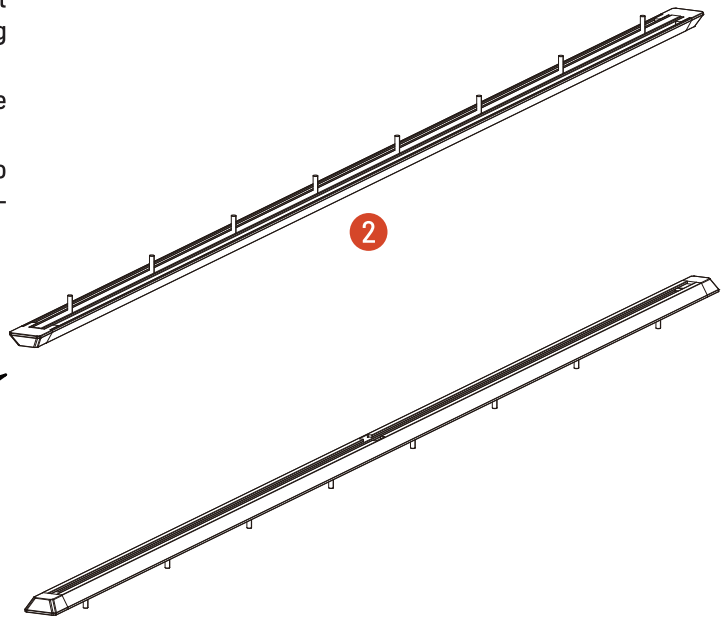
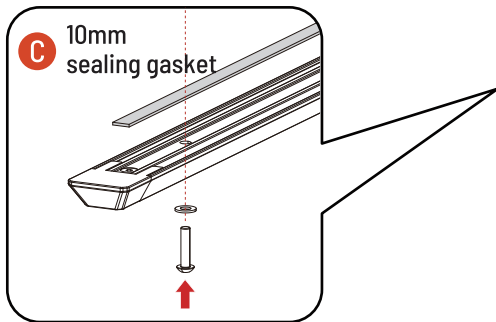


STEP 3



➤ Roof top crossbar rails

1. Attach the 10mm wide sealing gasket to the groove of the roof rack longitudinal bar, and cut it open to correspond to the pre-drilled mounting holes;
2. Slide the M6 sealing ring onto the M6×25 square head screw;
3. Fully insert the assembled screw assembly into the aligned mounting holes of the roof top crossbar rails.

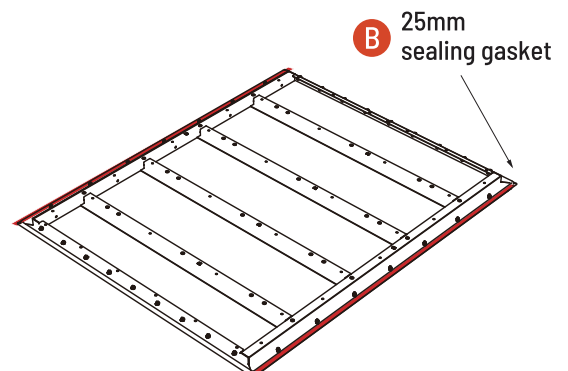
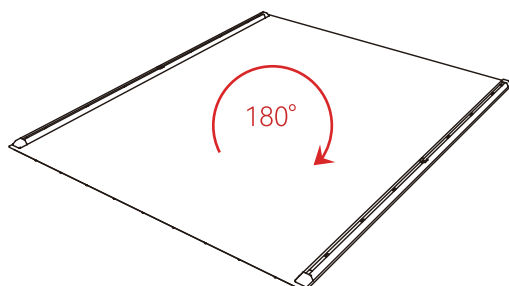
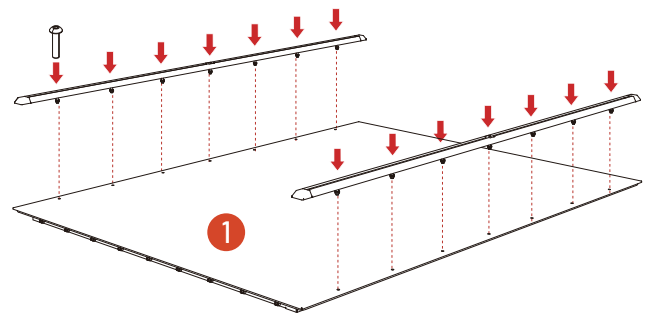


STEP 4

➤ roof top crossbar rails and top plate assembly

1. Attach 25mm wide sealing gaskets to the inside of both ends of the roof panel, then cut out the covered mounting holes;
2. Install the pre-assembled cross bar rails into the aligned mounting holes on both ends of the roof panel. Pass the bolts through the sealing gaskets on the roof panel, but do not install the nuts yet;
3. Flip the roof cover 180° so that the top surface is facing down. (It is recommended to place a support under the roof cover to suspend it, facilitating subsequent assembly operations).

Precautions: The support must hold the edge of the top panel to prevent uneven stress from causing panel deformation.



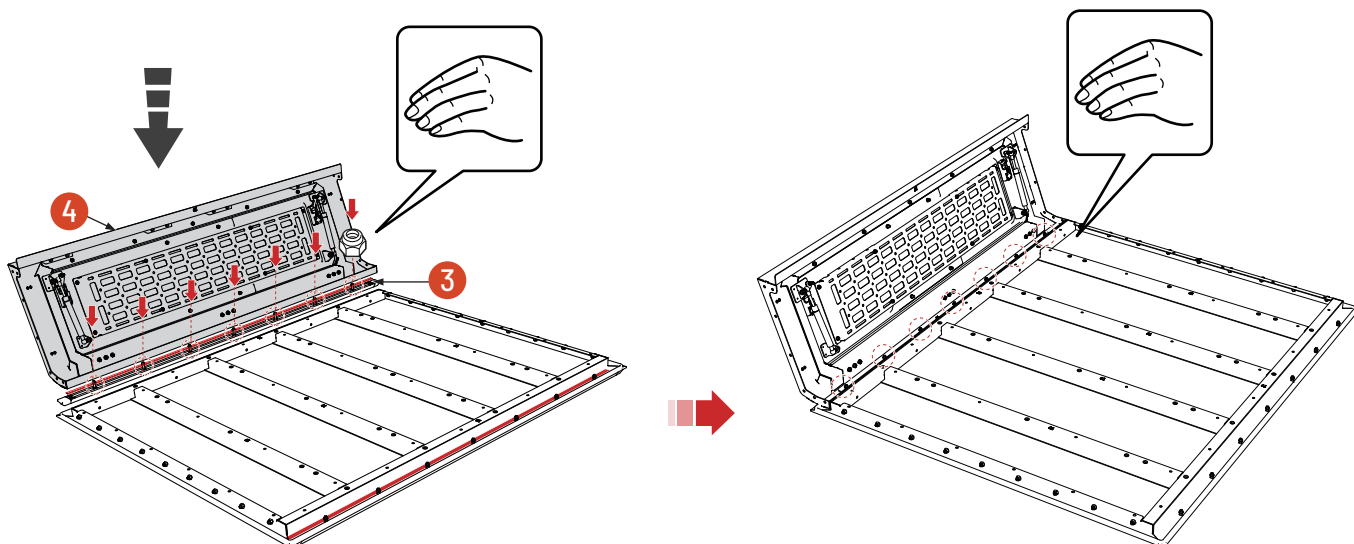
STEP 5



➤ Left side assembly

1. Align the side assembly with the pre-drilled mounting holes at the end of the top cover plate and install it (distinguish left and right according to the markings, L for left and R for right);
2. Embed the top reinforcing rib into the inner side of the top of the side assembly, ensuring the holes are aligned, and screw in the M6 self-locking nut, but do not tighten it yet;

Precautions: If the left and right sides are installed incorrectly on some models, it will affect the fit of the front and rear components and cause incompatibility with the high cover mounting bracket.



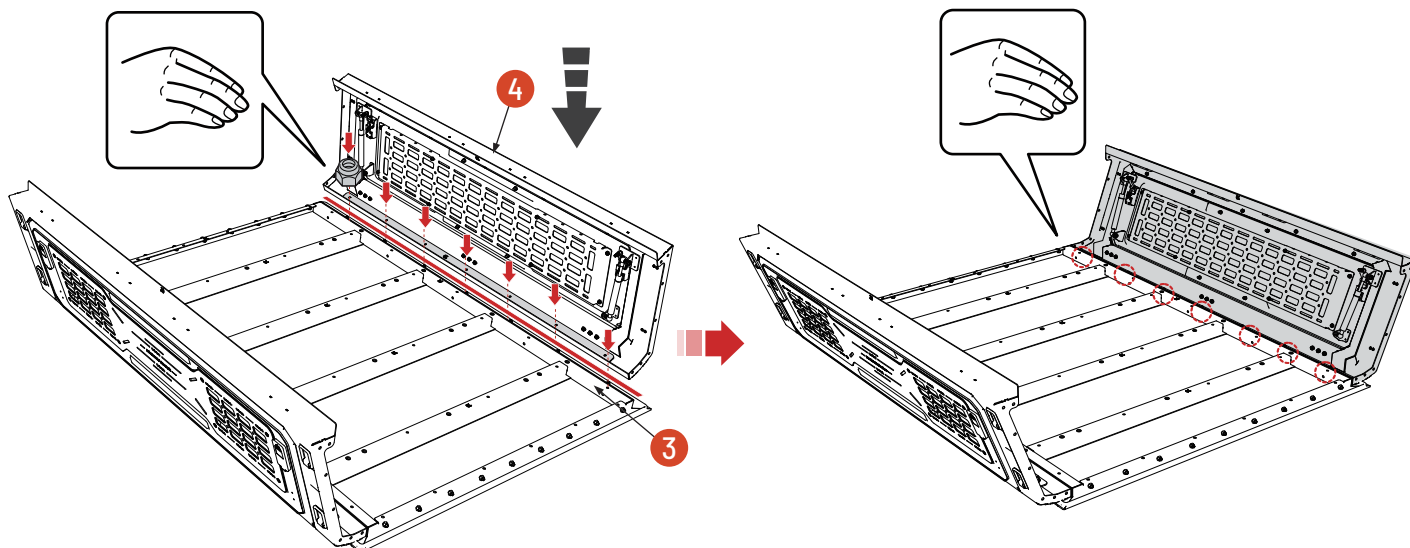
STEP 6



➤ Right side assembly

1. Align the side assembly with the pre-drilled mounting holes at the end of the top cover plate and install it (distinguish left and right according to the markings, L for left and R for right);
2. Embed the top reinforcing rib into the inner side of the top of the side assembly, ensuring the holes are aligned, and screw in the M6 self-locking nut, but do not tighten it yet;

Precautions: If the left and right sides are installed incorrectly on some models, it will affect the fit of the front and rear components and cause incompatibility with the high cover mounting bracket.



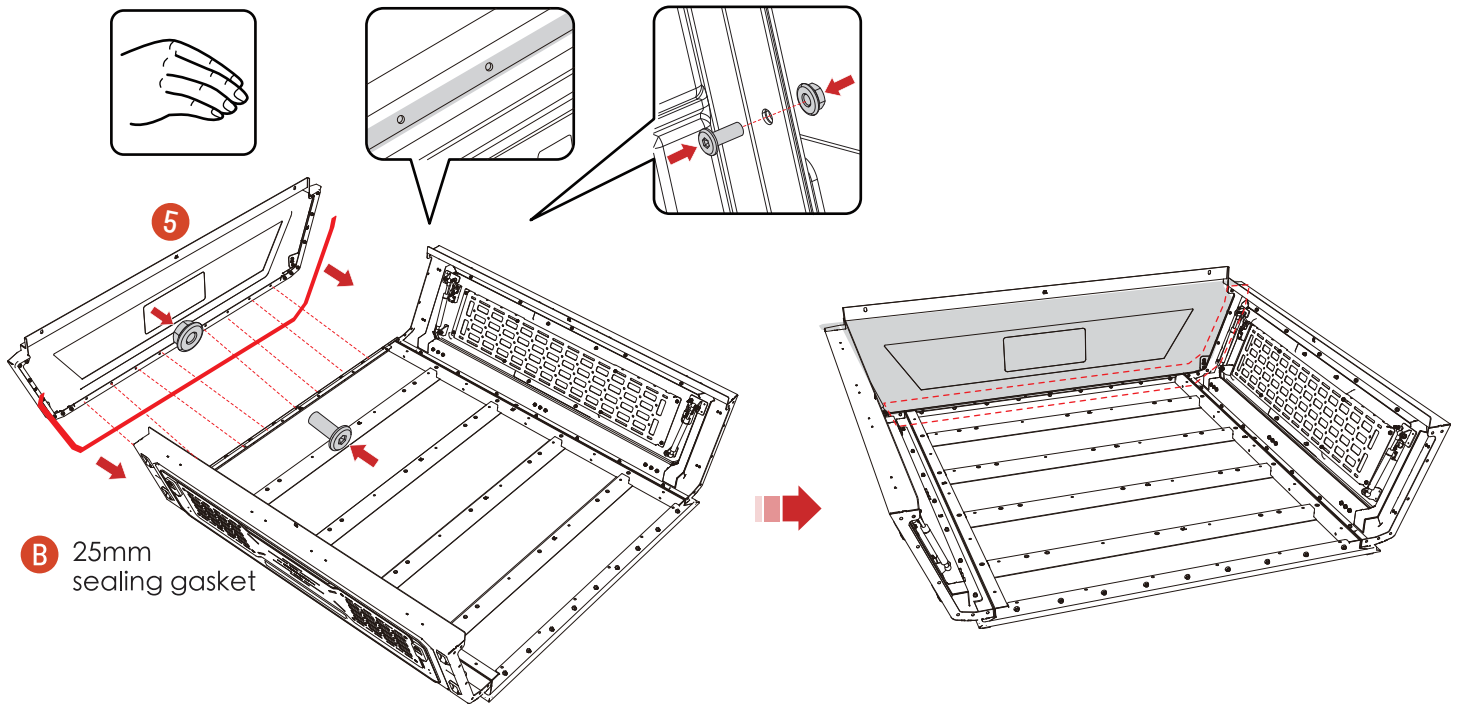
STEP 7



➤ Front assembly

1. Clean the inner flange of the front assembly, attach a 25 mm wide sealing gasket, and cut out any obscured holes;
2. Align the splicing holes of the front assembly with those of the top cover and side assembly, and install the M6×16 flange face hex bolts and M6 flange nuts, but do not tighten them yet;
3. Install the wiring harness fixing bracket on the inner left front side of the side assembly.

Precautions: Ensure the holes are precisely aligned, and attach the 25mm sealing gasket to the inside for easy application of sealant later.

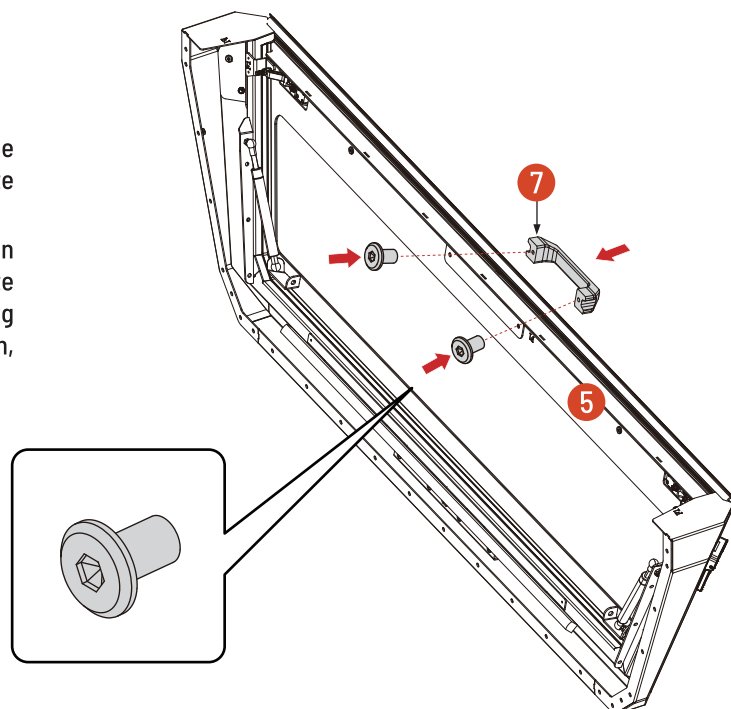


STEP 8



➤ Tailgate handle installation

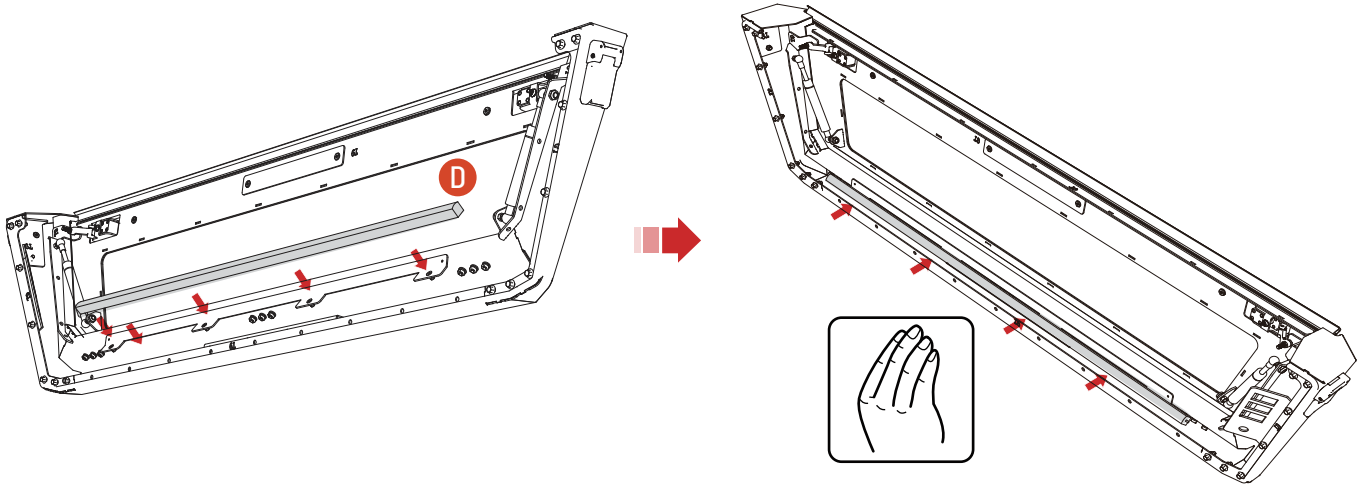
1. Use a 4mm Allen wrench to remove the inner mounting panel of the tailgate handle (avoid scratching the paint);
2. Use a 5mm Allen wrench and M8×12 pan head Allen bolts to secure the tailgate handle to the corresponding mounting hole on the tailgate, with a torque ≤ 20 Nm, then reinstall the cover plate;



STEP 9

➤ Rear assembly interior lighting assembly

1. Embed the internal lighting lamp into the pre-installed U-shaped bracket inside the rear assembly and secure it firmly.



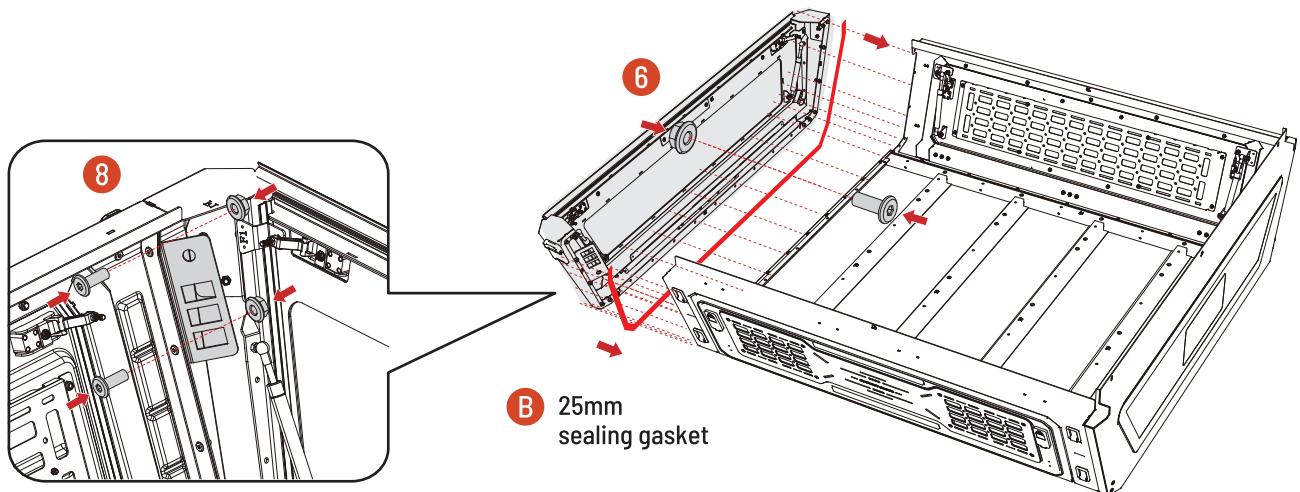
STEP 10



➤ Rear assembly

1. Attach a 25 mm wide sealing gasket to the inner flange of the rear assembly, cut out the obscured holes, align it with the holes on the top plate of the high cover and the side assembly, and install it with M6×16 flange bolts and nuts, but do not tighten them yet (torque: approximately 10 N.m) ;
2. Install the switch panel on the inner left rear side of the side assembly, and embed the 3 rocker switches (press lightly until fully engaged).

Precautions: Ensure the holes are precisely aligned, and attach the 25mm sealing gasket to the inside for easy application of sealant later.

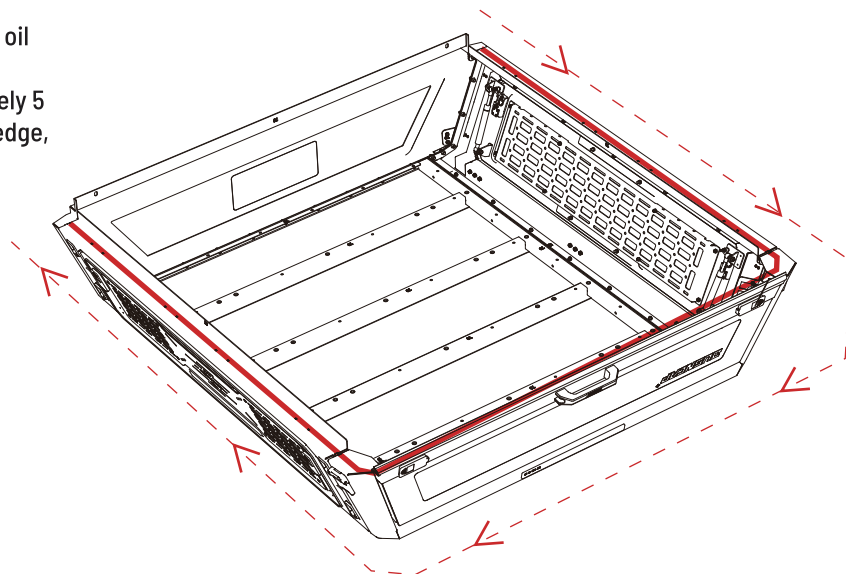


STEP 11

➤ Sealing is the "core step in waterproofing."

■ Apply type B adhesive strips:

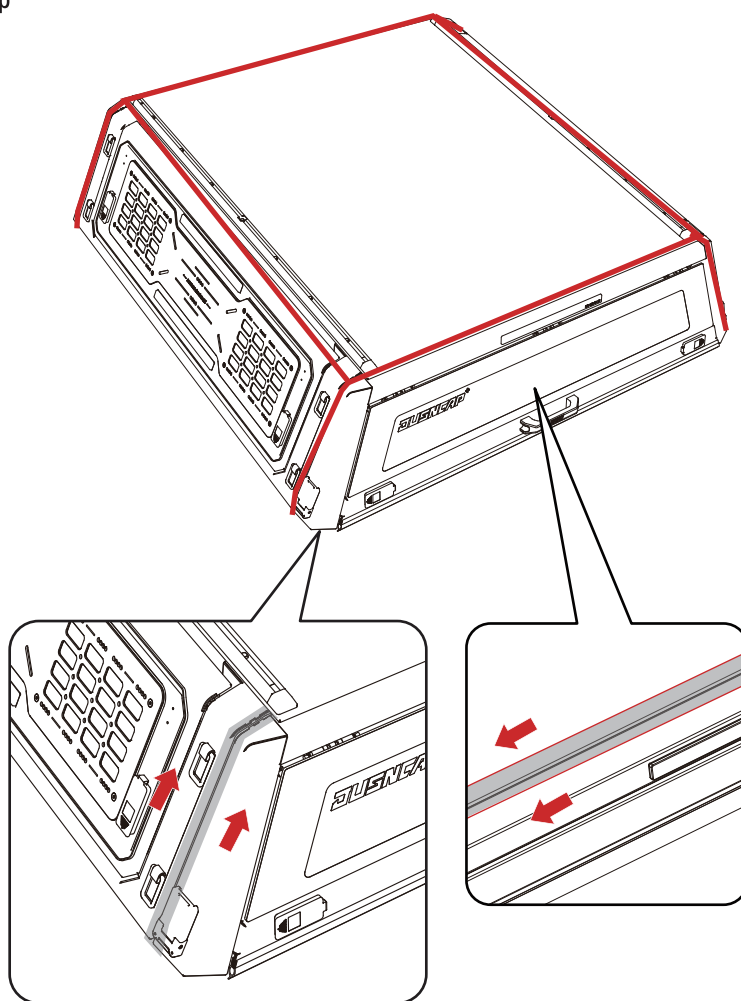
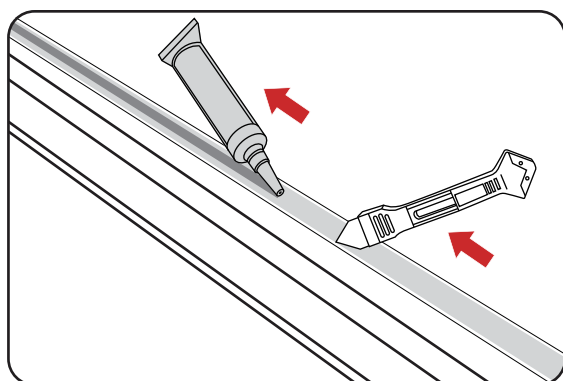
1. Clean the bottom edge of the lid, removing oil and dust;
2. Attach the lid continuously for approximately 5 mm along the outside edge of the bottom edge, without interruption;



■ Apply sealant:

1. Apply masking tape to both sides of the assembly gap to define the area to be covered with sealant;
2. Apply sealant evenly along the gap (2-3 mm thick), ensuring complete coverage;
3. Use a sealant scraper to smooth the sealant, and immediately remove the masking tape (before the sealant cures) to avoid leaving any residue.

Precautions: Avoid rain within 24 hours after application to ensure the sealant is fully cured.



➤ Top heavy duty cross bars

01 Single base assembly

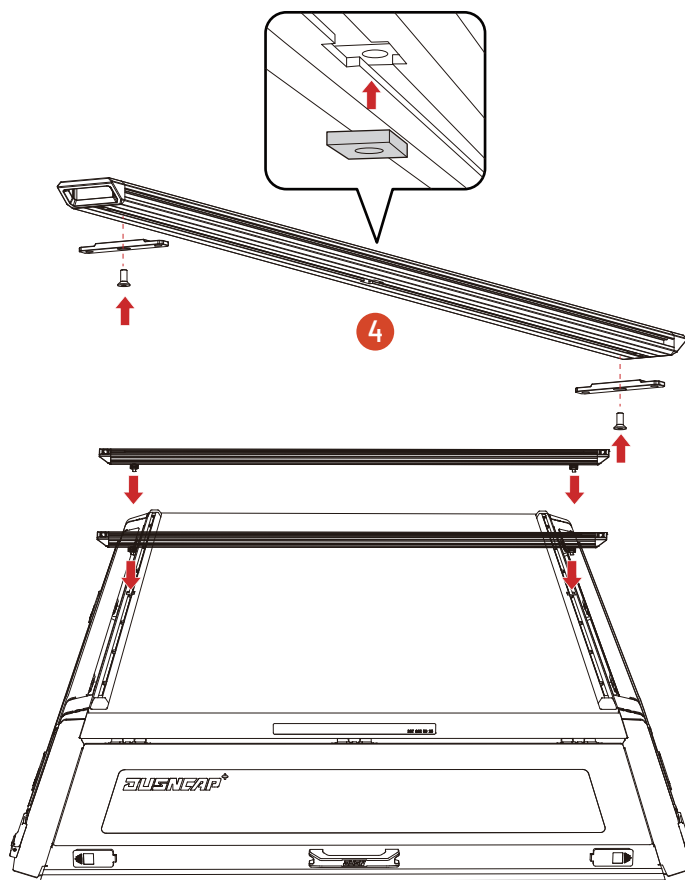
Slide the M8×19×19×4 mm square nut into the groove in the middle of the crossbar, one nut at each end of the crossbar;

02 Dual base installation

Insert the M8×25 countersunk bolt through the mounting base and screw in the M8×19×19×4 mm square nut;

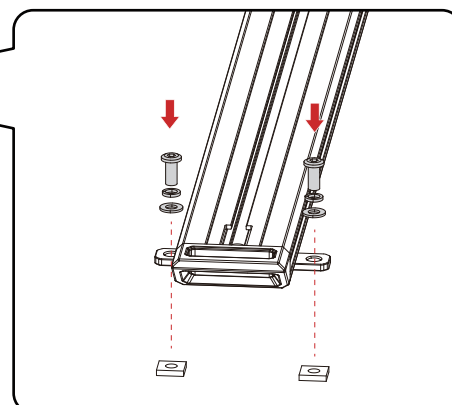
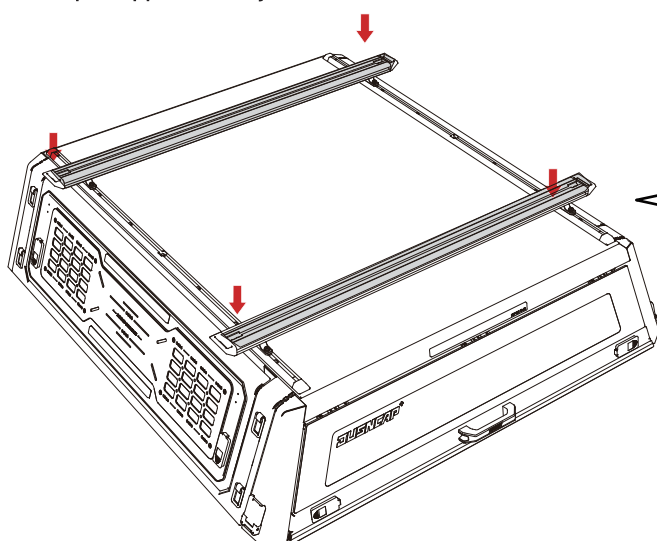
03 Adjustable base spacing

1. **Measurement and Recording:** Measure and record the center-to-center distance between the left and right sides of the assembled roof top cross bar rails;
2. **Adjusting and Tightening:** Adjust the mounting base spacing to match the recorded dimensions, and tighten the M8×25 countersunk bolts using a 5mm Allen wrench. Adjust and tighten the other crossbar in the same way.



04 Top heavy-duty crossbar fixed to luggage rack longitudinal bar

1. **Pre-install roof top cross bar rails:** Slide eight M8×19×19×4 mm square nuts into the grooves in the middle of the longitudinal bars of the cross bar rails, two nuts at each end of each bar;
2. **Hole alignment:** Adjust the spacing and position of the square nuts to align the pre-installed top heavy-duty crossbar and mounting base with the holes in the square nuts;
3. **Tightening and fixing:** Screw eight M8×20 pan head hex bolts, eight M8 spring washers, and eight M8 flat washers into the square nuts in sequence. Adjust the distance between the front and rear of the crossbars as needed, and finally tighten the bolts.(torque: approximately 20 N.m)



➤ Inner storage box

01 Disassembly steps:

Remove the M6 bolts and nuts at the bottom of the side door frame;

02 Embedded positioning:

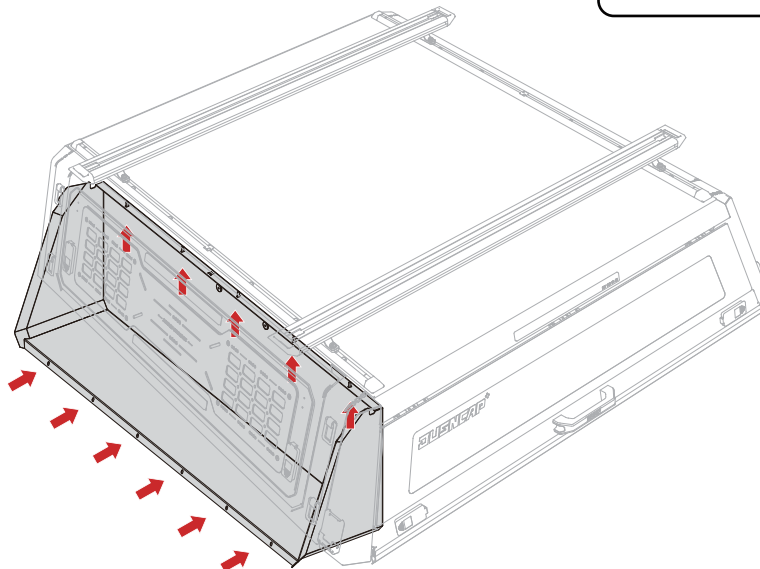
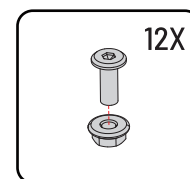
Embed the top of the storage box into the top of the truck cap side door frame, aligning it with the pre-drilled holes at the top and the holes at the bottom of the disassembled side door frame, and initially install the bolts and nuts;

03 Top installation:

Secure the top of the storage box with M6×16 pan head hex bolts;

04 Reset and tighten:

Reinstall the removed M6 bolts and nuts back into their original positions at the bottom of the side door frame and tighten them (torque: approximately 10 N.m).



➤ 2-in-1 Flagpole Support

01 Disassembly steps:

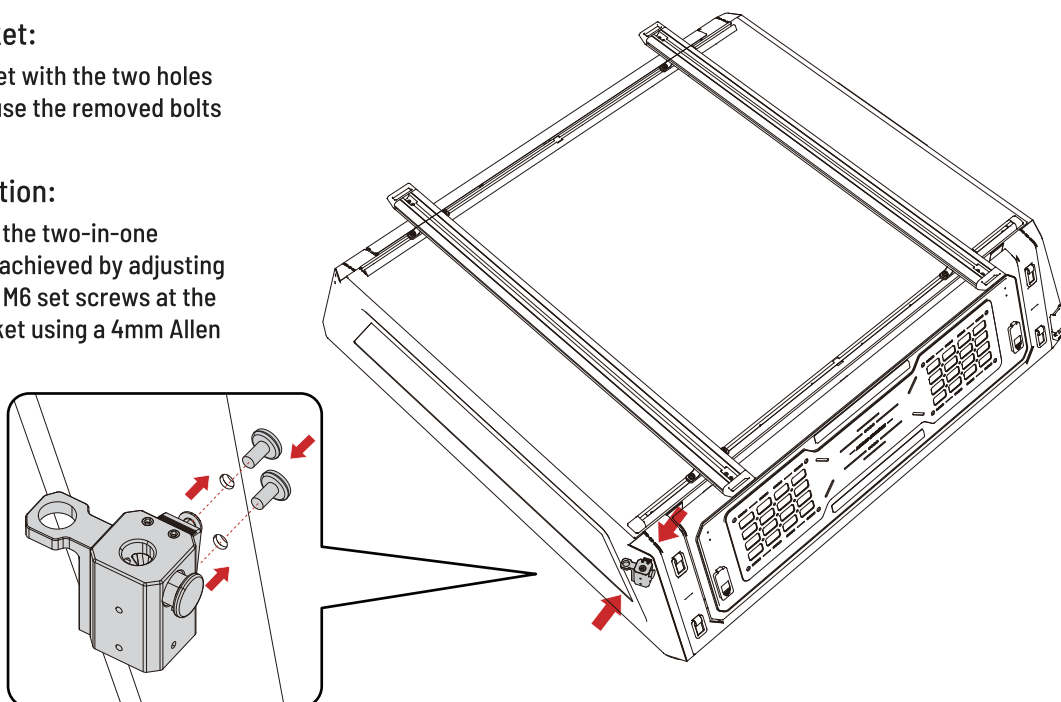
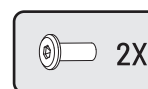
Remove the two pre-installed bolts and nuts on the side of the front assembly before removing the top cover;

02 Fixed flagpole bracket:

Align the flagpole bracket with the two holes after disassembly, and use the removed bolts to install and tighten it.

03 Adjust rotation function:

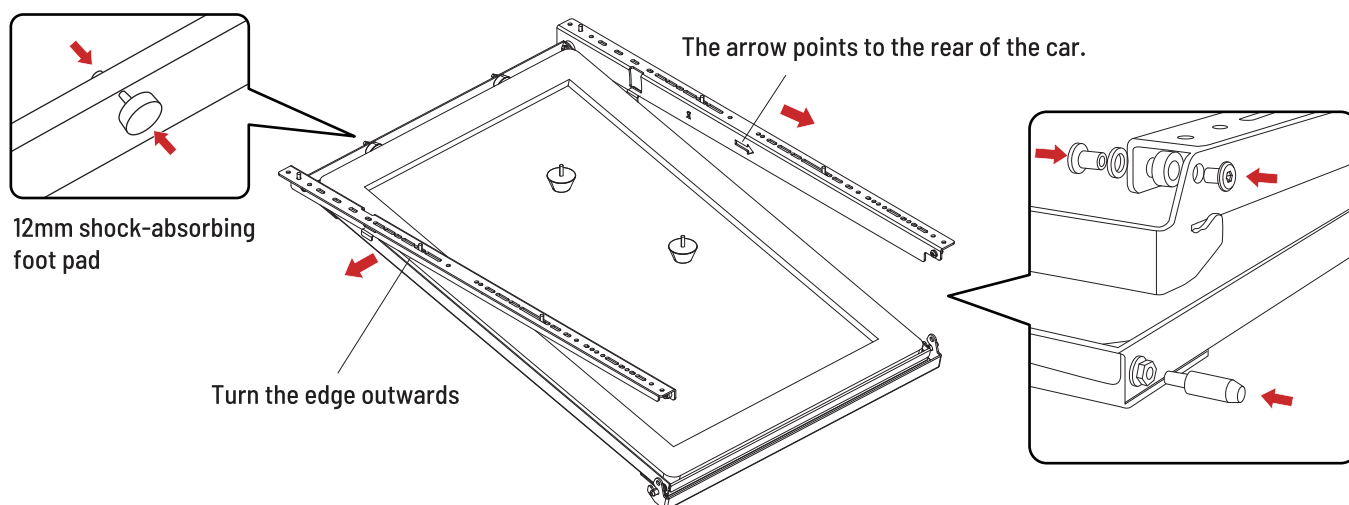
The rotation function of the two-in-one flagpole bracket can be achieved by adjusting the tightness of the two M6 set screws at the top of the flagpole bracket using a 4mm Allen wrench.



➤ Outdoor Folding Table Kit

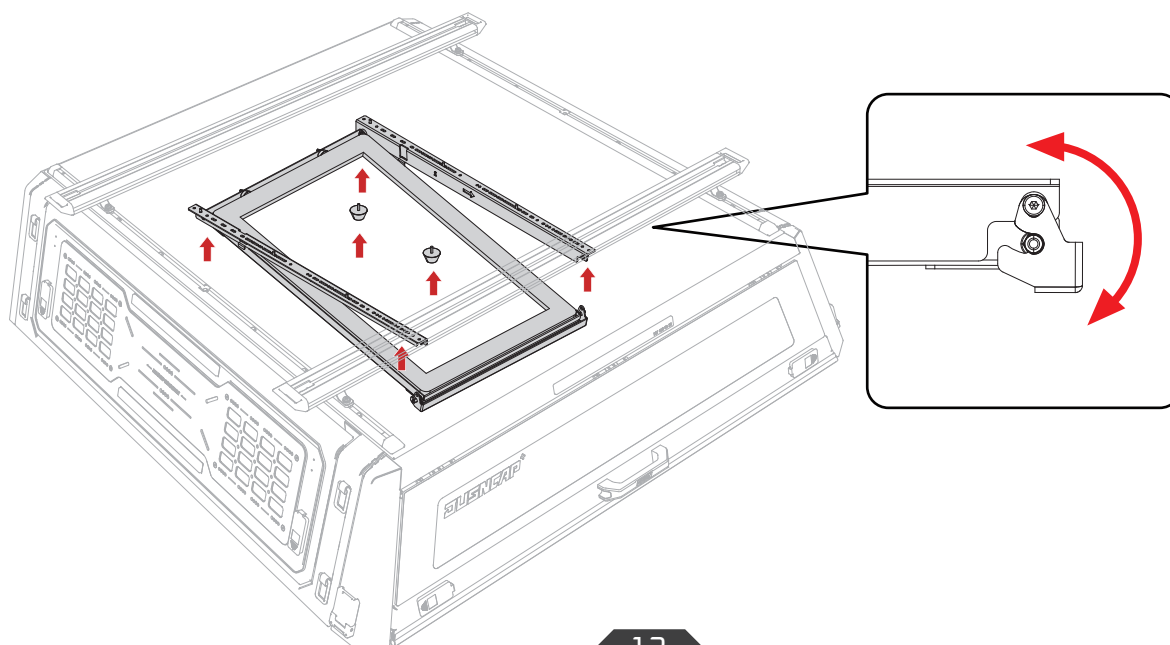
01 Folding table frame assembly

- 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

➤ Model A truck cargo box assembly

01 Positioning:

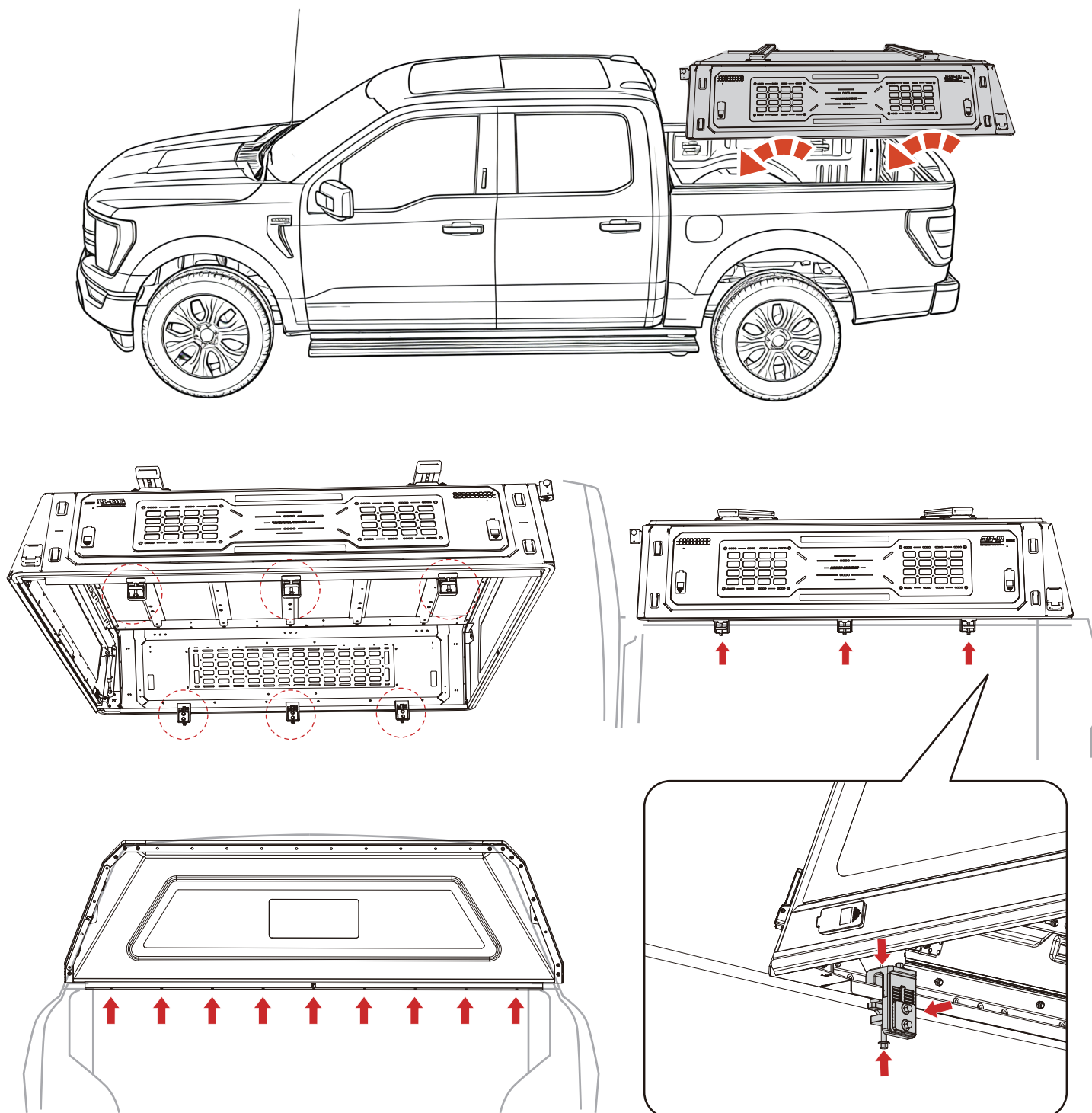
Please have four people work together to lift the assembled truck cap onto the truck bed.

4 PERSON JOB



02 Secure and fasten:

Install the mounting bracket and secure it with screws.
(torque: approximately 20 N.m)



➤ Model B truck cargo box assembly

01 Positioning:

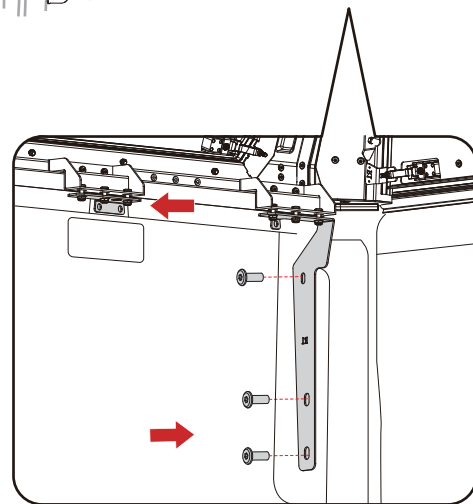
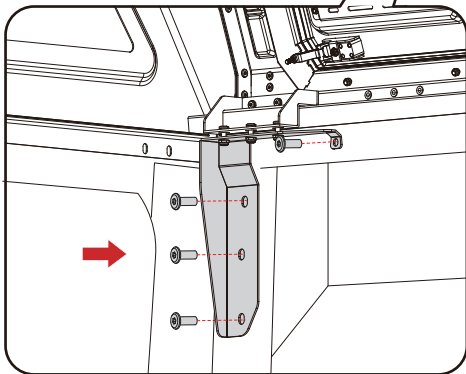
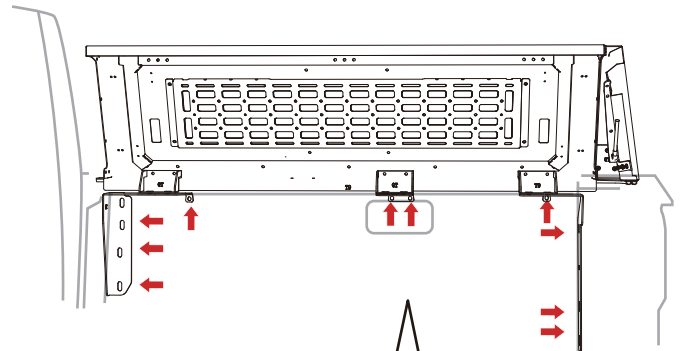
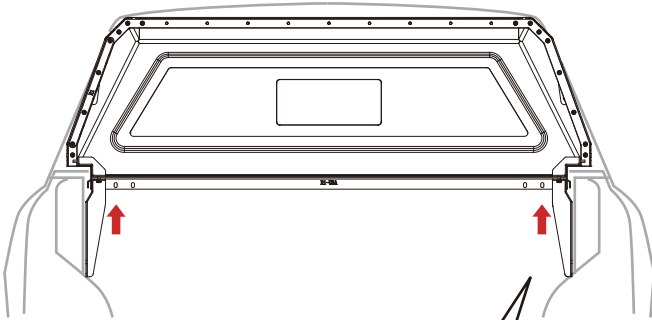
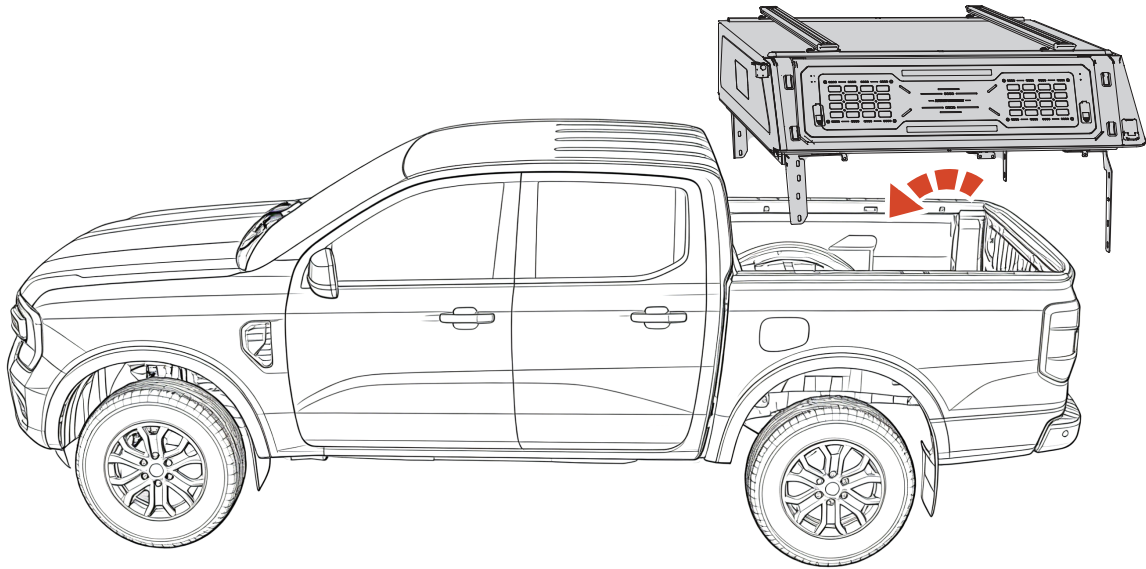
Please have four people work together to lift the assembled smart cover onto the truck bed.

4 PERSON JOB



02 Secure and fasten:

Install the mounting bracket and secure it with screws.



06 TRUCK CARGO BOX ASSEMBLY

➤ Model C truck cargo box assembly

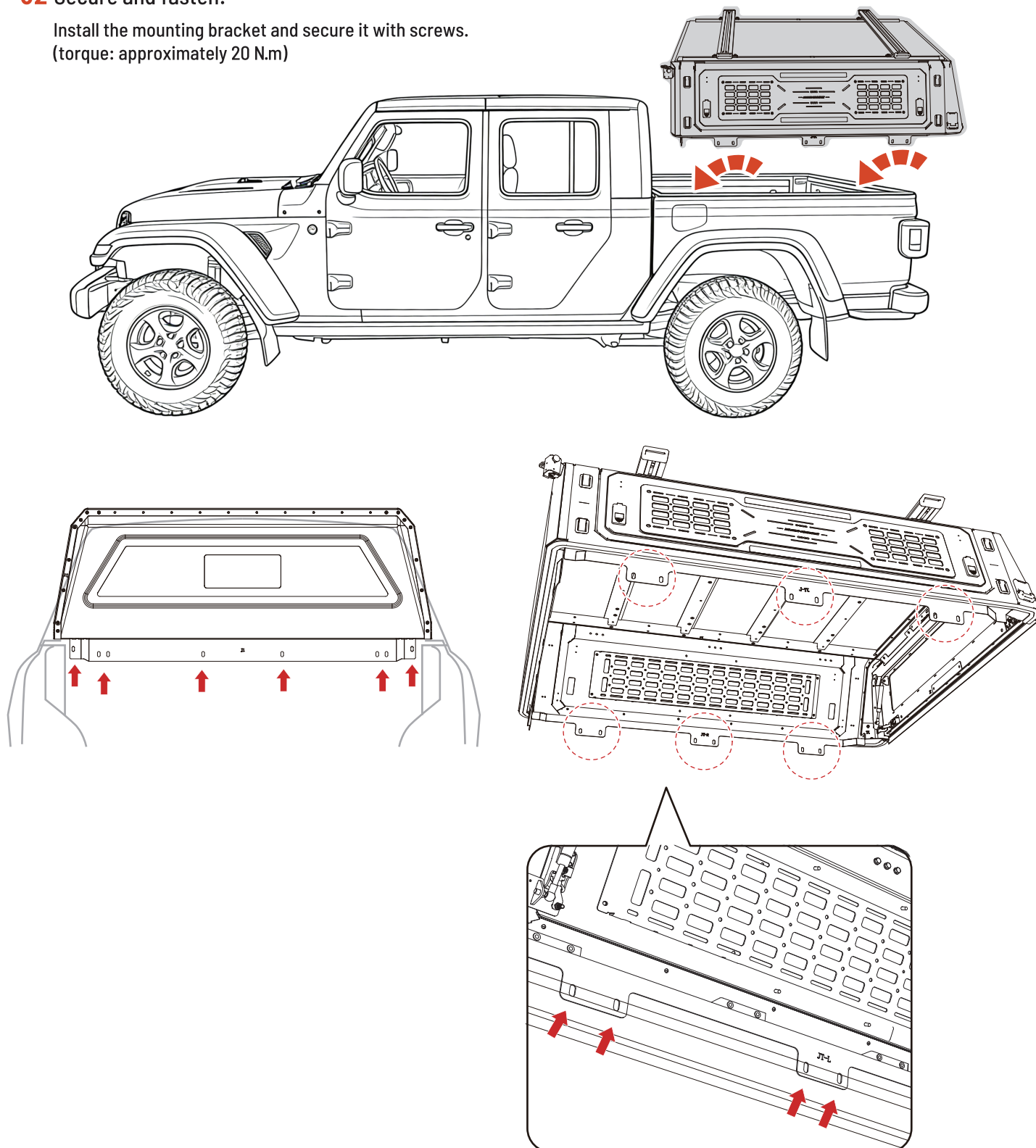
01 Positioning:

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



02 Secure and fasten:

Install the mounting bracket and secure it with screws.
(torque: approximately 20 N.m)



06 TRUCK CARGO BOX ASSEMBLY

➤ Model D truck cargo box assembly

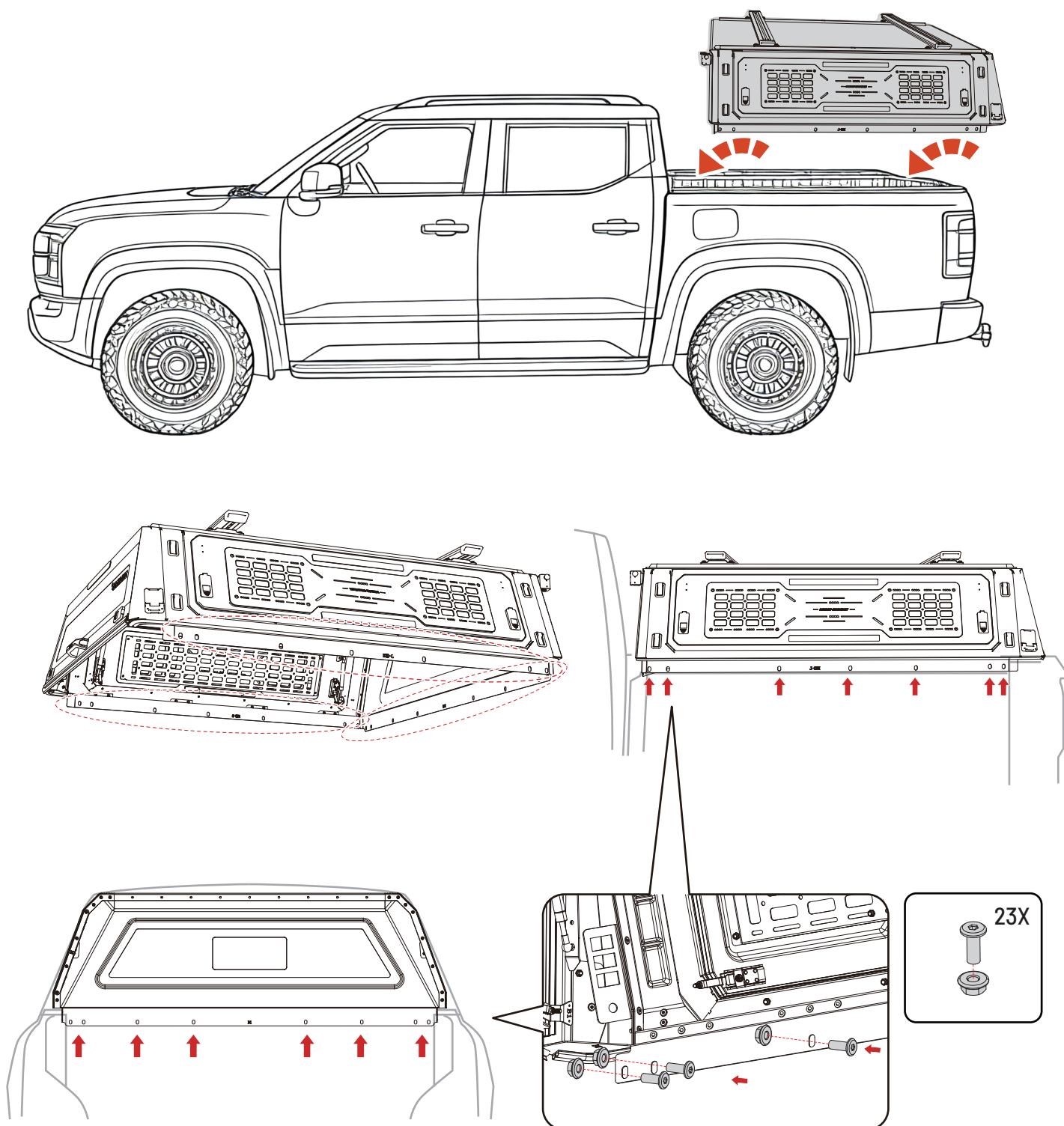
01 Positioning:

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

02 Secure and fasten:

Install the mounting bracket and secure it with screws.

4 PERSON JOB

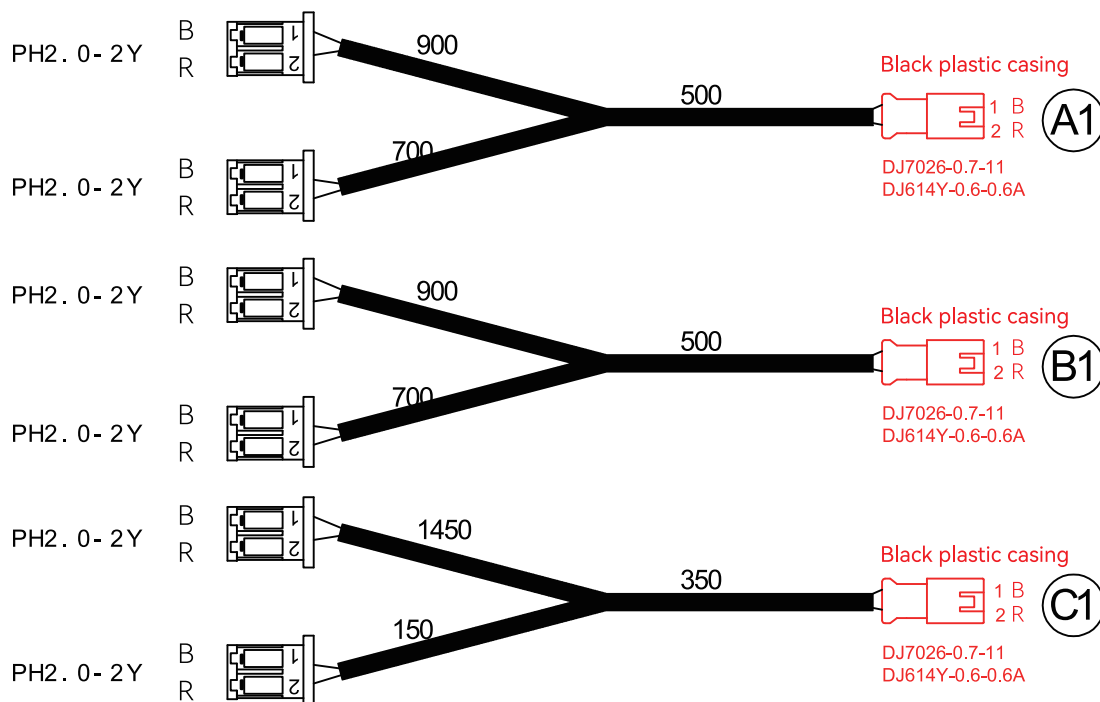


07 WIRING CONNECTION

➤ WIRING CONNECTION

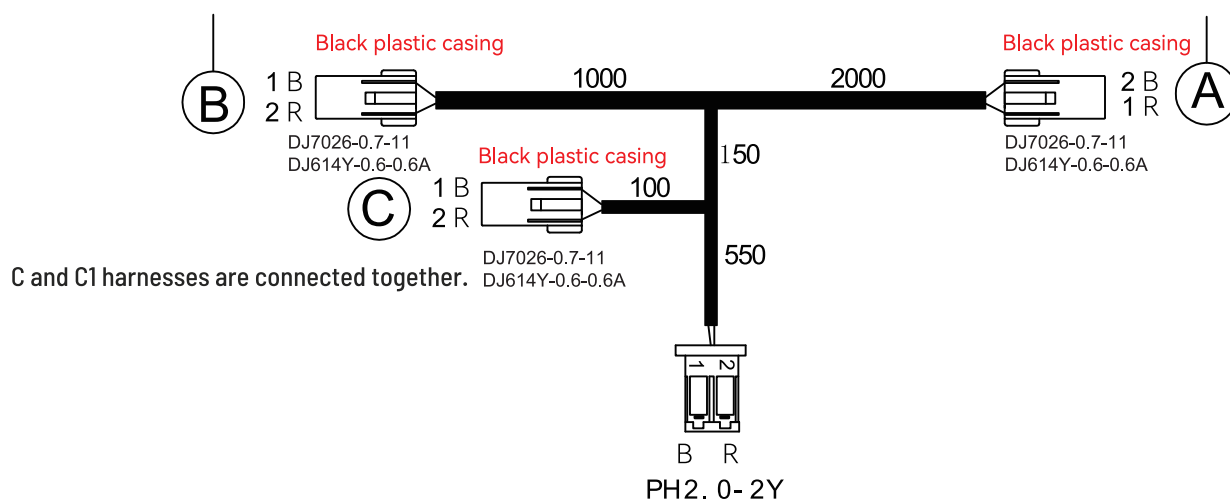
- Harness diagram

Electronic lock input harness



B and B1 wire harnesses are plugged into each other.

A and A1 harnesses are plugged into each other.

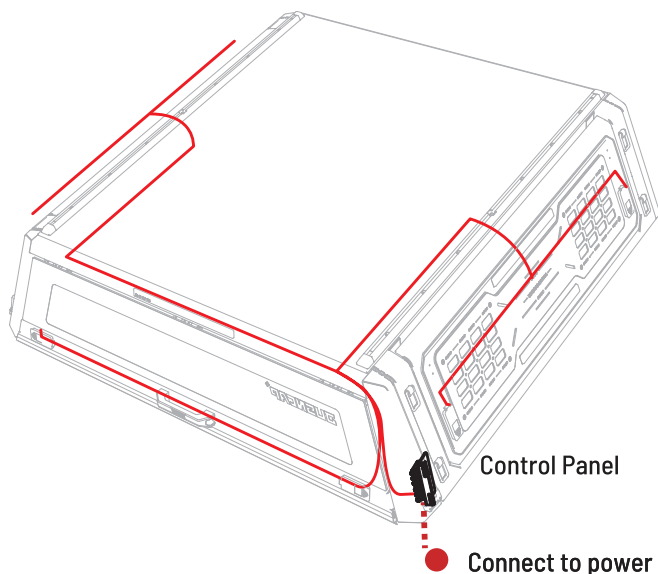
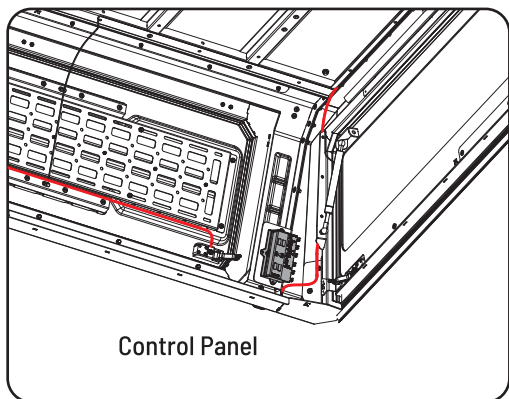


The left and right door panel lighting harnesses are connected to the car's parking lights.

07 WIRING CONNECTION

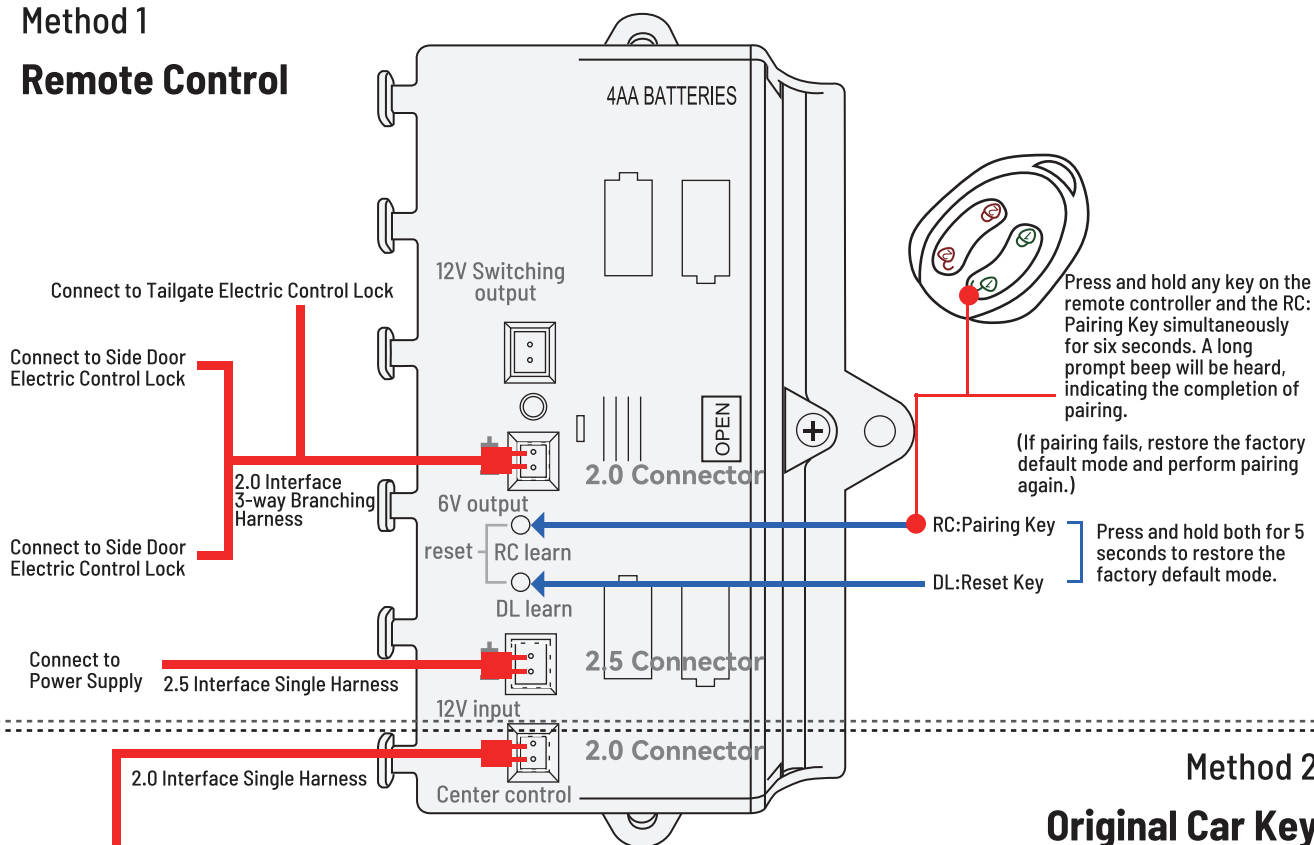
ELECTRONIC CONTROL LOCK WIRING GUIDE

Note: Please run the wiring along the four corners.



Method 1

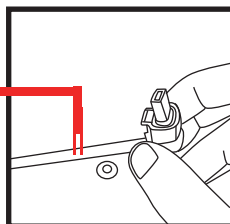
Remote Control



Method 2

Original Car Key Control

Connect the original car tailgate lock harness with the 2.0 Interface Single Harness in parallel; strip the tailgate lock harness to do so.



Original Car Tailgate Lock Electric Control Harness Connector

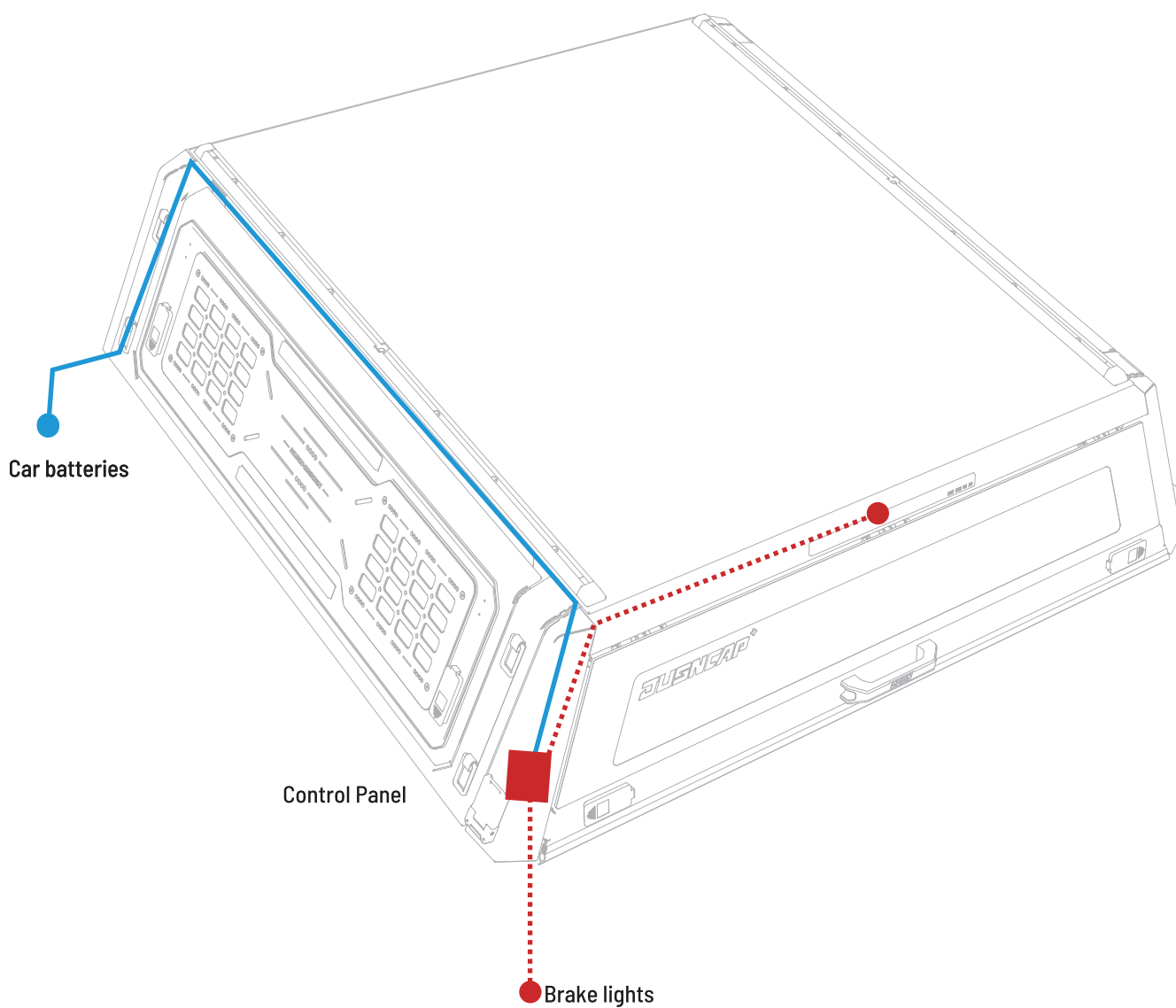
07 WIRING CONNECTION

➤ LIGHT WIRING CONNECTION GUIDE

Note: Please run the wiring along the four corners.

————— Connect the control panel to the battery.

..... Connect the brake lights.



■ POST-ASSEMBLY INSPECTION



Fastener Check: Verify that all bolts and nuts are tightened to the specified torque, with no looseness (focus on M6/M8 critical connections);



Sealing Check: Inspect sealed areas for warping, gaps, or bubbles; ensure the Type B rubber strip is fully attached and the sealant covers all gaps;



Functional Check: Test the tailgate handle (smooth operation), interior light (normal illumination), and optional parts (e.g., folding table opening/closing, crossbar stability);



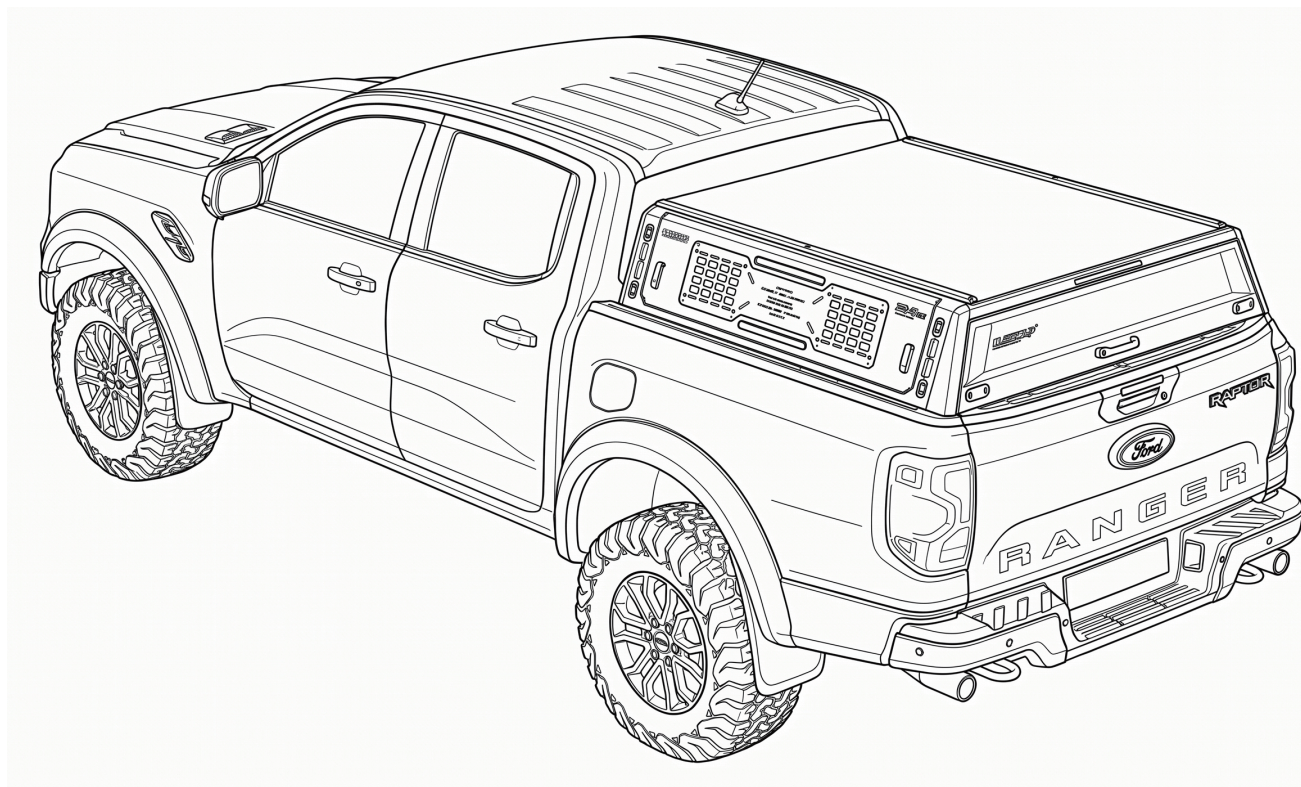
Appearance Check: Ensure no scratches or deformations on the canopy.

■ MAINTENANCE RECOMMENDATIONS

- **Regular Inspection:** Recheck bolt tightness every 3 months; retighten any loose fasteners promptly;
- **Seal Maintenance:** Replace aged or damaged gaskets, rubber strips, and sealant annually to maintain waterproof performance;
- **Cleaning Care:** Clean the canopy and optional parts regularly; avoid using corrosive cleaners to prevent damage to the surface and seals;
- **Storage Protection:** If the vehicle is not used for an extended period, park it in a dry environment or cover the canopy to avoid prolonged exposure to harsh.



SYMPTOM	POSSIBLE CAUSE	SOLUTION
Water leakage at joints	Incomplete sealant coverage; gasket wrinkles	Reapply sealant after cleaning; replace wrinkled gaskets
Loose parts after assembly	Insufficient torque; incorrect fastener	Retighten to specified torque; replace mismatched fasteners
Folding table cannot open/close	Incorrect bracket direction	Disassemble and reinstall brackets according to marks
Interior light not working	Poor connection; loose wiring	Check wiring harness connection; reattach loose wires



CANOOPY

THANKS FOR YOUR PURCHASE

PLEASE LET US KNOW IF YOU HAVE ANY QUESTIONS