

**Pickup Retractable Tonneau Cover Installation
Manual-TACOMA(BY21A&BY21B)**

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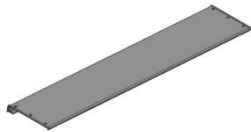
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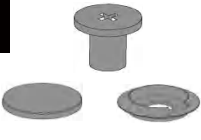
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1 Product Introduction

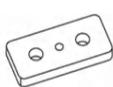
1.1 Bill of Material-General

M1	M2
 1X	 1X
M3	M4
 1X	 1X

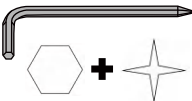
Bill of Material-Canister

A	B	C	D	E
 1X	 4X	 6X	 2X	 2X

Bill of Material-Brackets

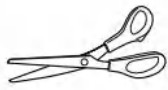
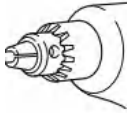
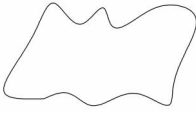
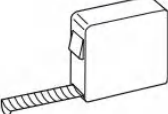
F	G	H	I	J	K
 12X	 6X	 6X	 6X	 6X	 L1+R1

Maintenance

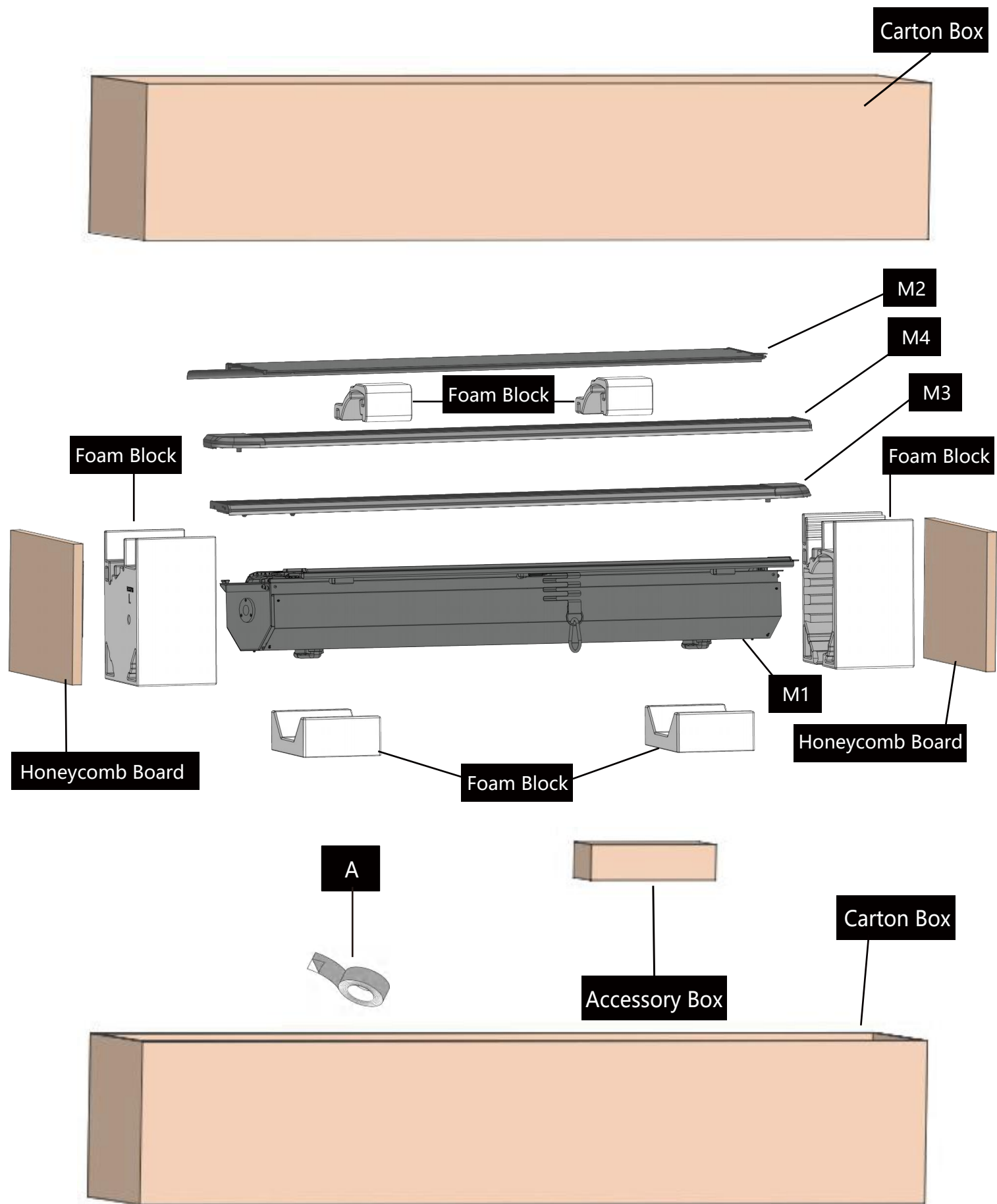
L	M	N	P	Q
 1X	 1X	 S=5 1X	 S=5 1X	 S=8/10 1X

Bill of Material-Tools

Other Assistive tools (Provided by Customer)

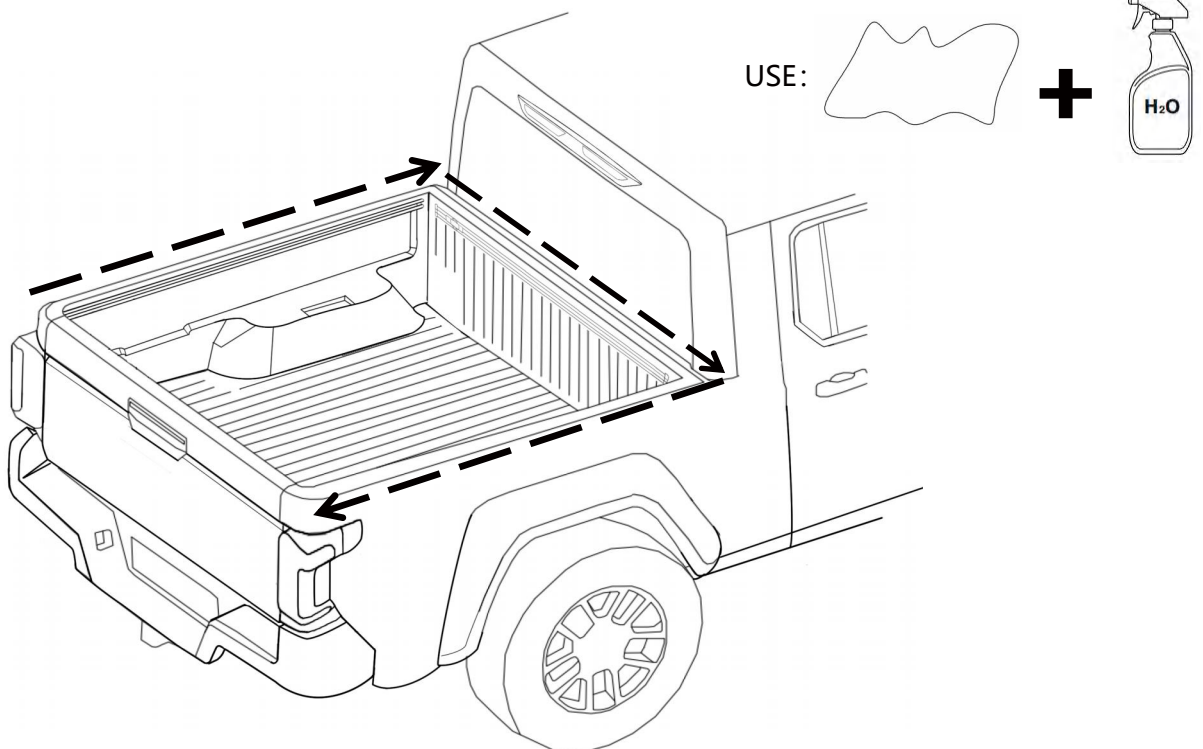
 Φ28	 Φ20			
				

1.2 Product Components

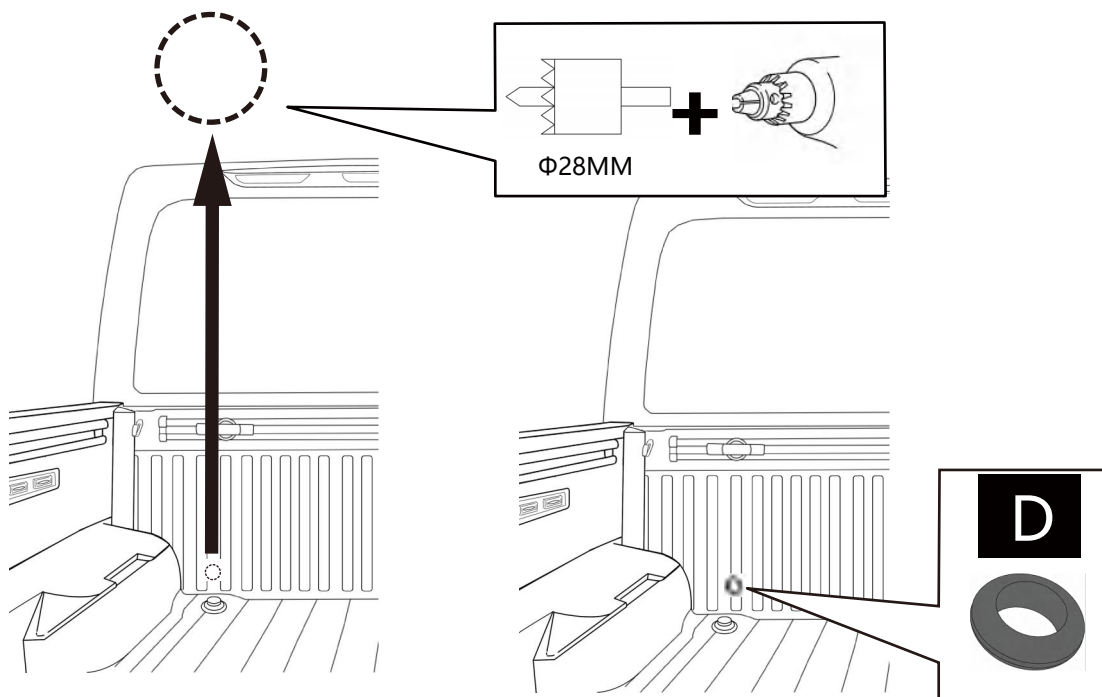


2. Preparation before installation

2.1 Make sure the car has no other accessories and remains



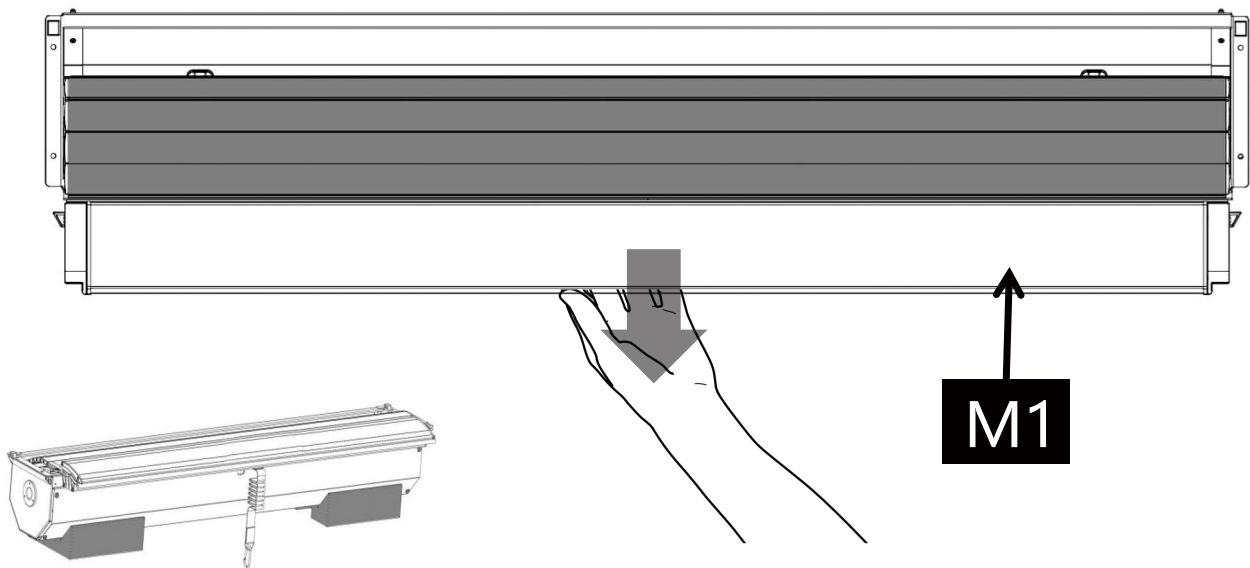
Wipe the mounting surface dean.



1. if the body has holes, there is no need to drill;
2. Remove the drainage movable board on both sides of the carriage, use the accessories L drill to drill the electric drill after drilling, and install back to the car. After drilling, remove the burr cloak and the D glue diagram of the accessories should be installed;
3. no drainage movable plate device in the car drilling

3. Roller lid assembly

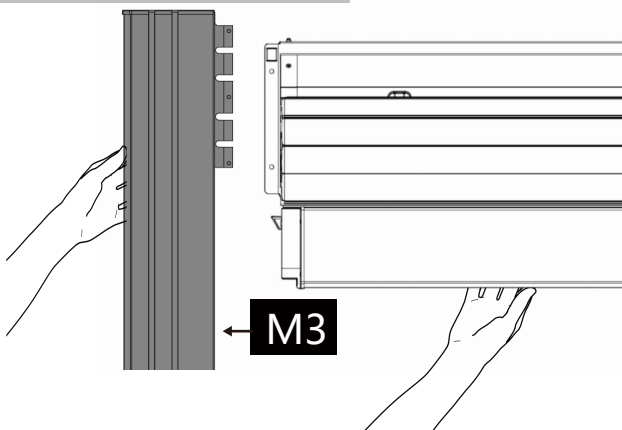
3.1 Pull out the 4-6 frame roller leaves



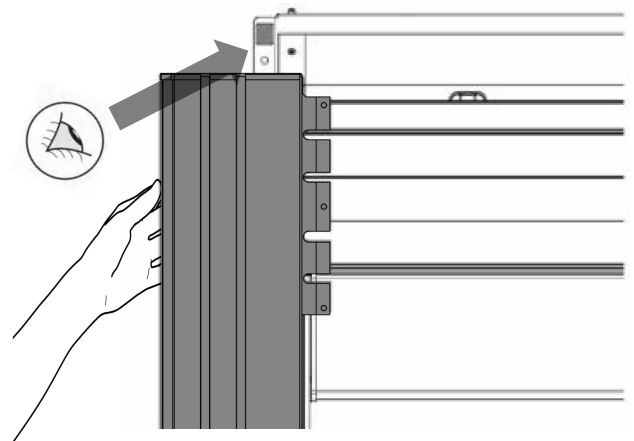
Tips: Put the canister on the foam block for assembly to avoid scratch.

Pull out 4 aluminum bars

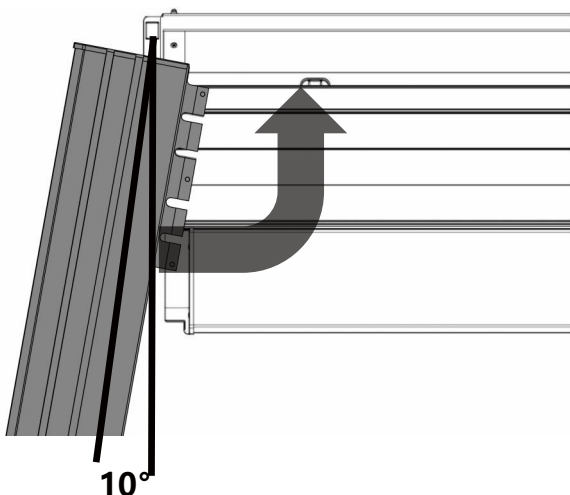
3.2 Assembly side rod



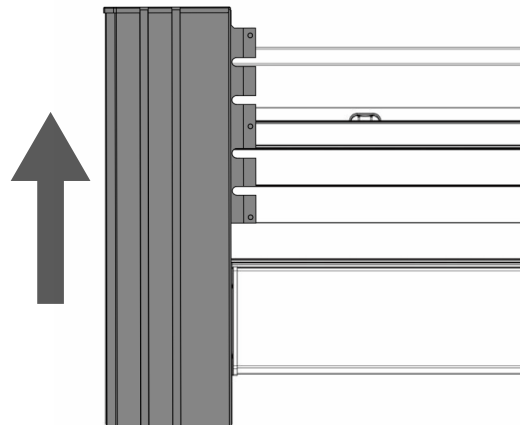
Step 1: hold the side bar with the left hand and hold the cover plate with the right hand



Step 2: align the side bar groove with the T shaped block in the box, Insert the side bar into the T-block a little



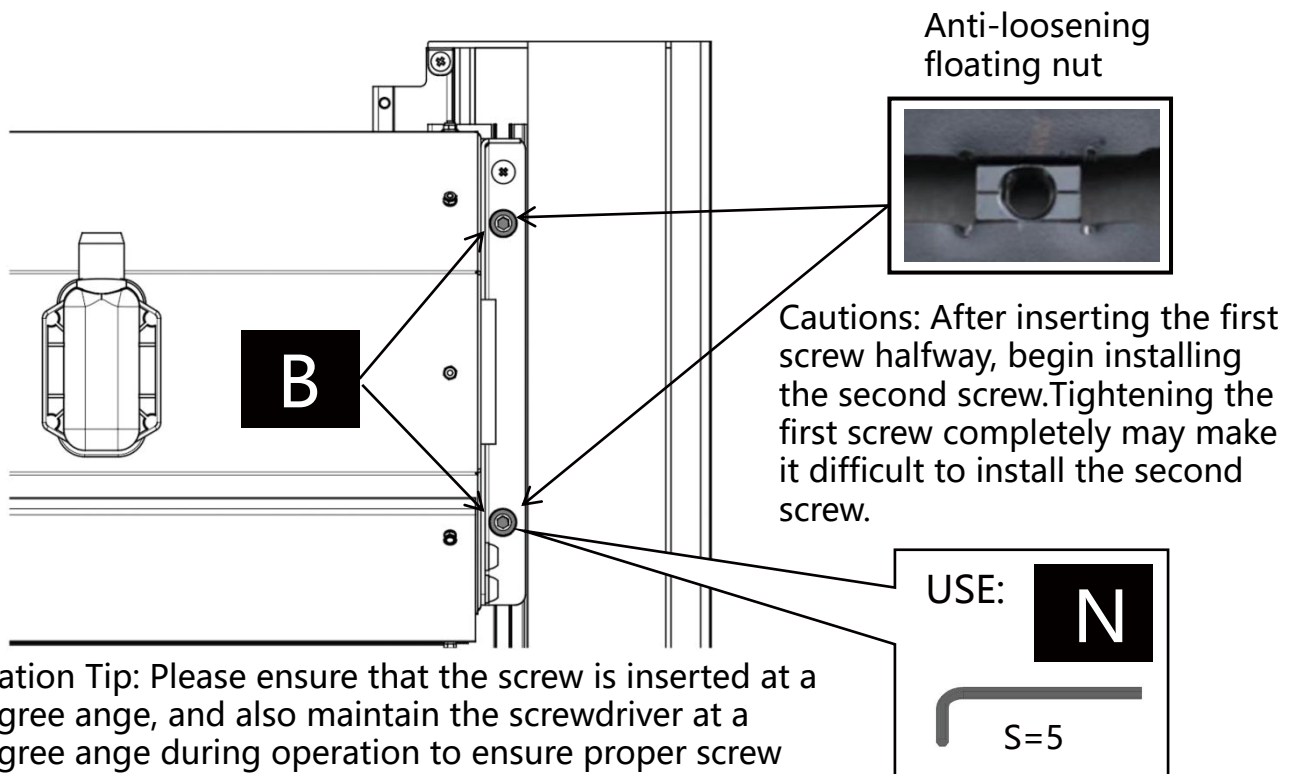
Step 3: Move the side bar to the left, and then load the box to the right



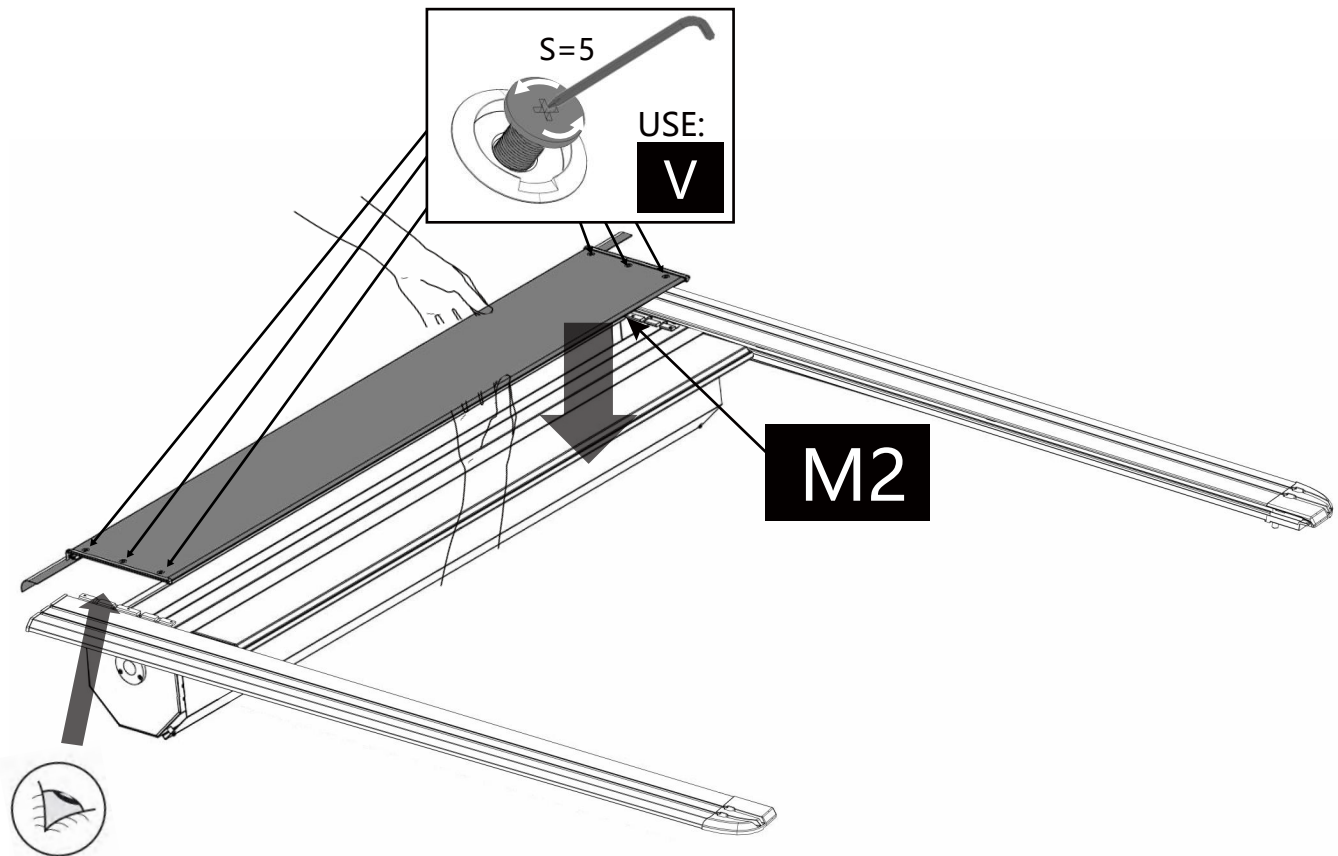
Step 4: Push the side bar forward to the end. (Left and right side bars are installed in the same way)

4. Install side rod screws

4.1 Install side rod screws



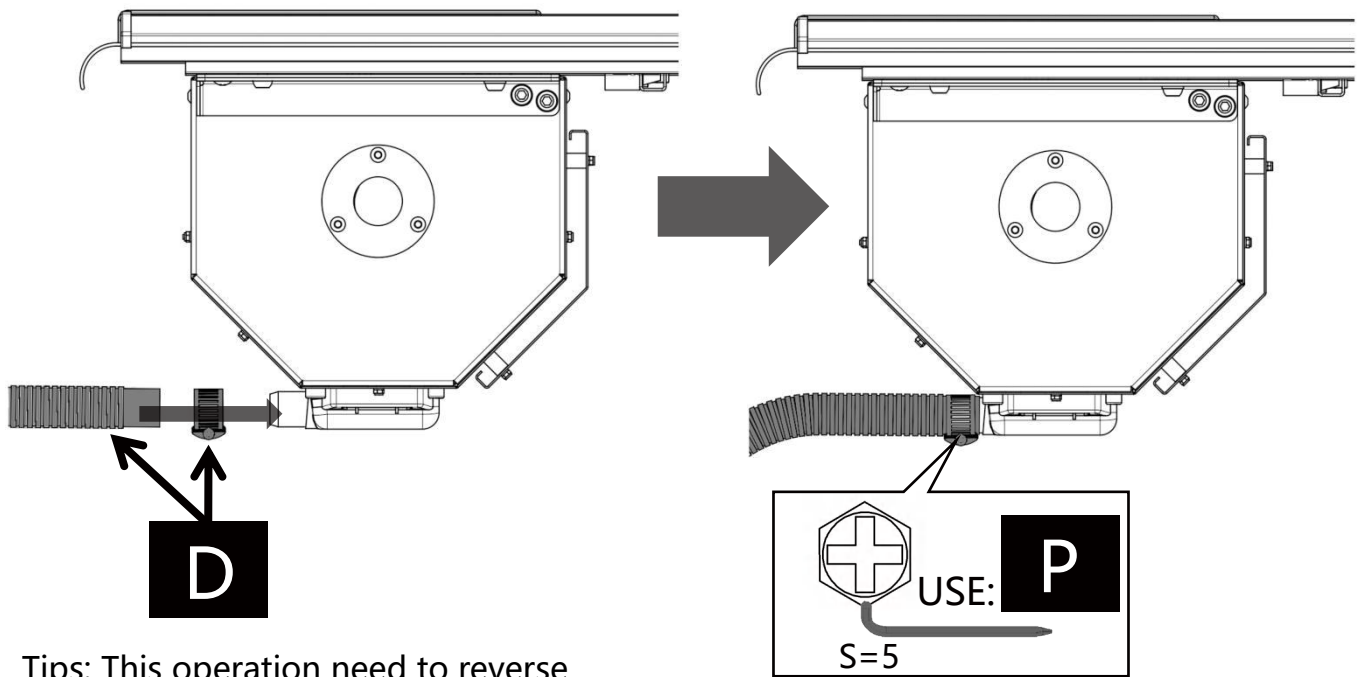
4.2 Install the upper cover of the box



Tips: Match the top cover exactly to the canister.

5. Install drainage pipe

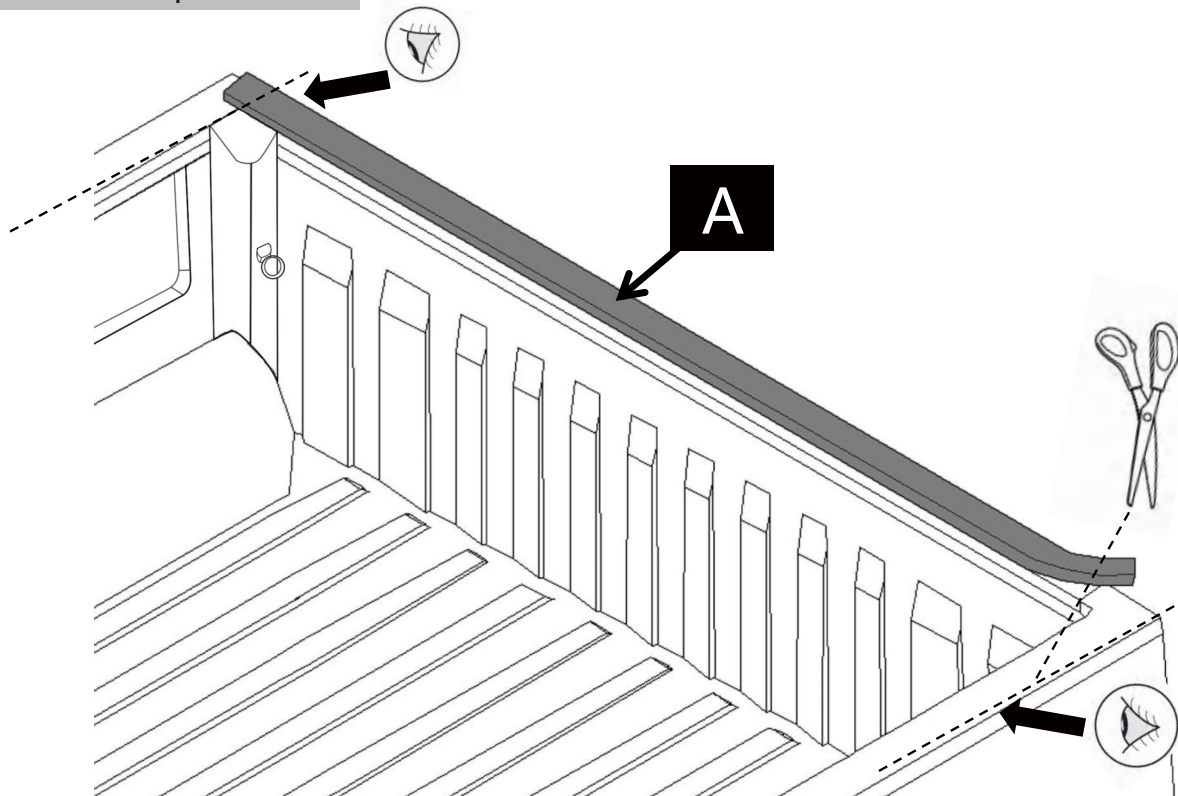
5.1 Install front drain pipe



Tips: This operation need to reverse the canister. And install the drain tubes consistently.

Fix bolt on part D with wrench.

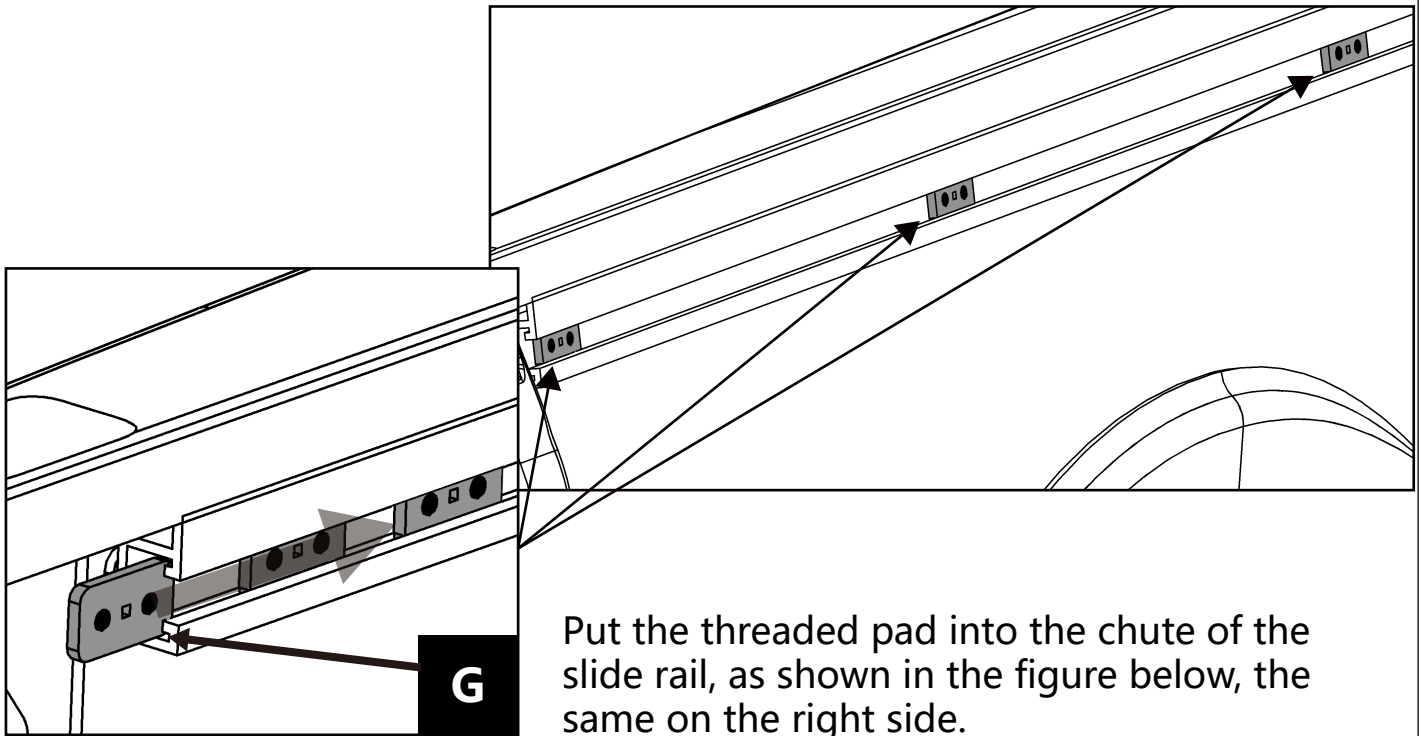
5.2 Paste waterproof foam



Paste the foam on the front bar to achieve same height level with truck side bar, and cut off the excess parts to make sure aligning on both sides.

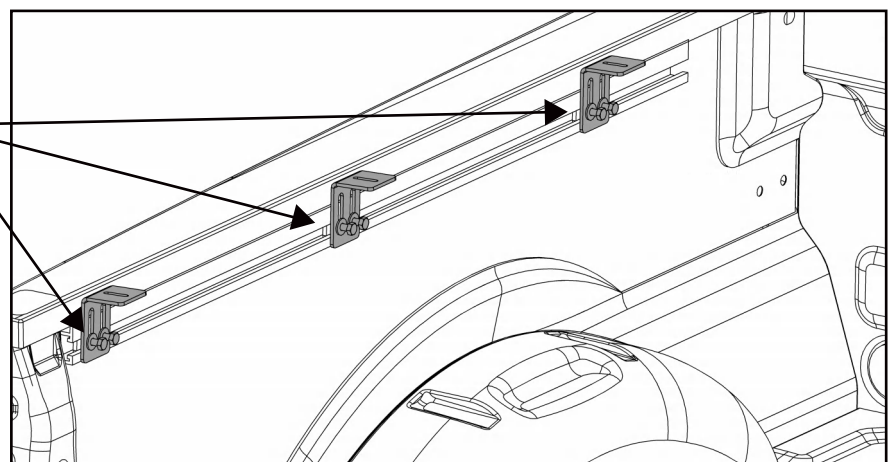
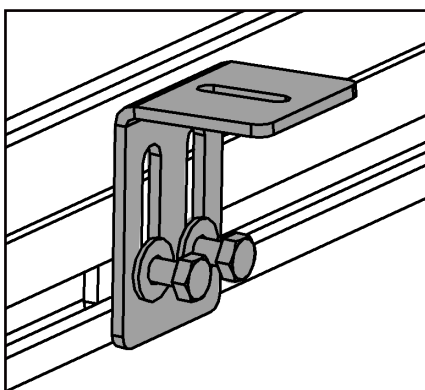
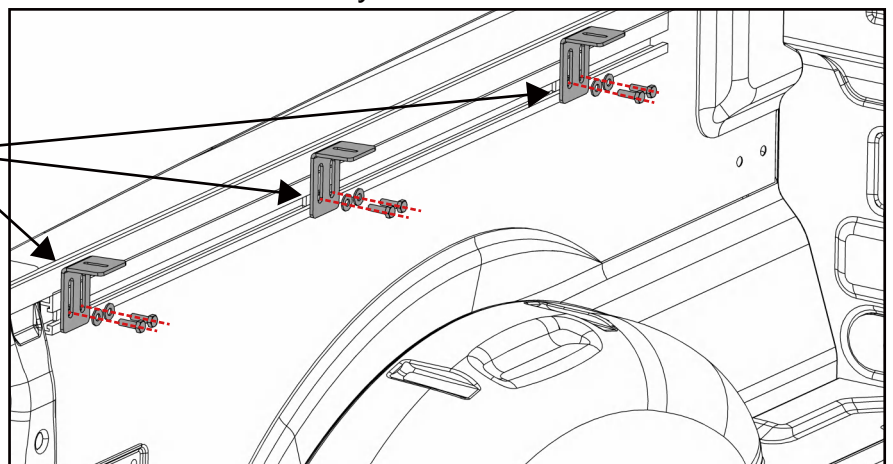
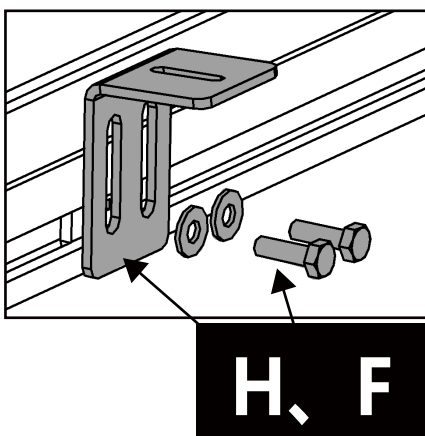
6. Assemble all the scaffolds

6.1 Assemble the threaded pad into the car chute



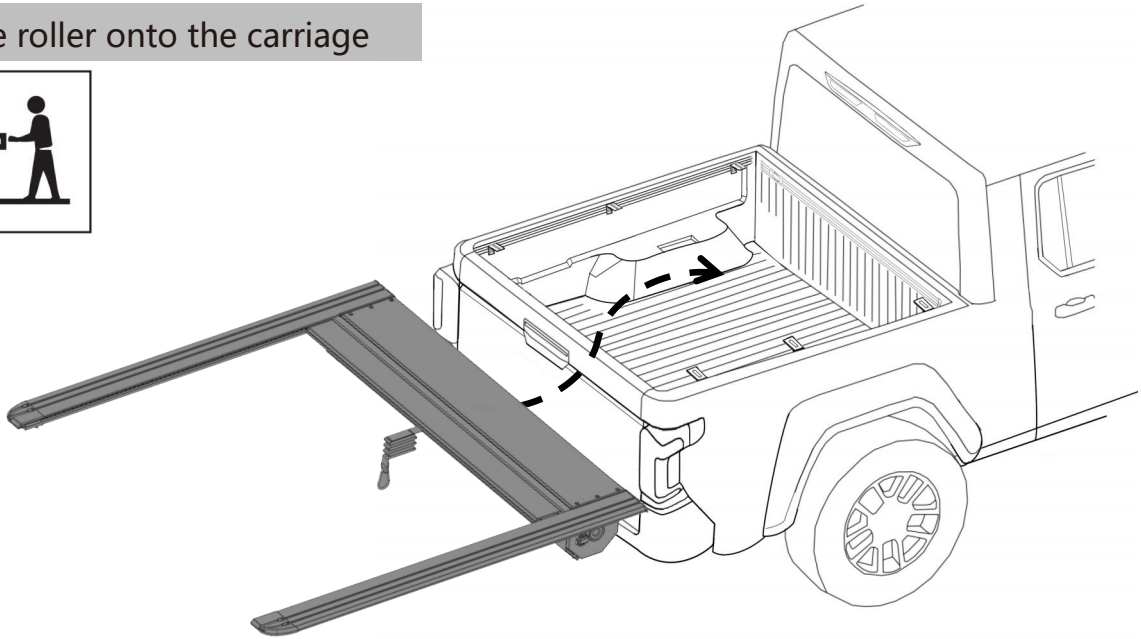
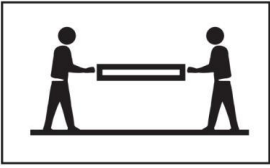
6.2 Assembly iron bracket

With the external hexagon bolts and gasket preinstalled bracket, as shown in the figure below, the right bracket is mounted in the same way.



7. Lift the roller onto the carriage

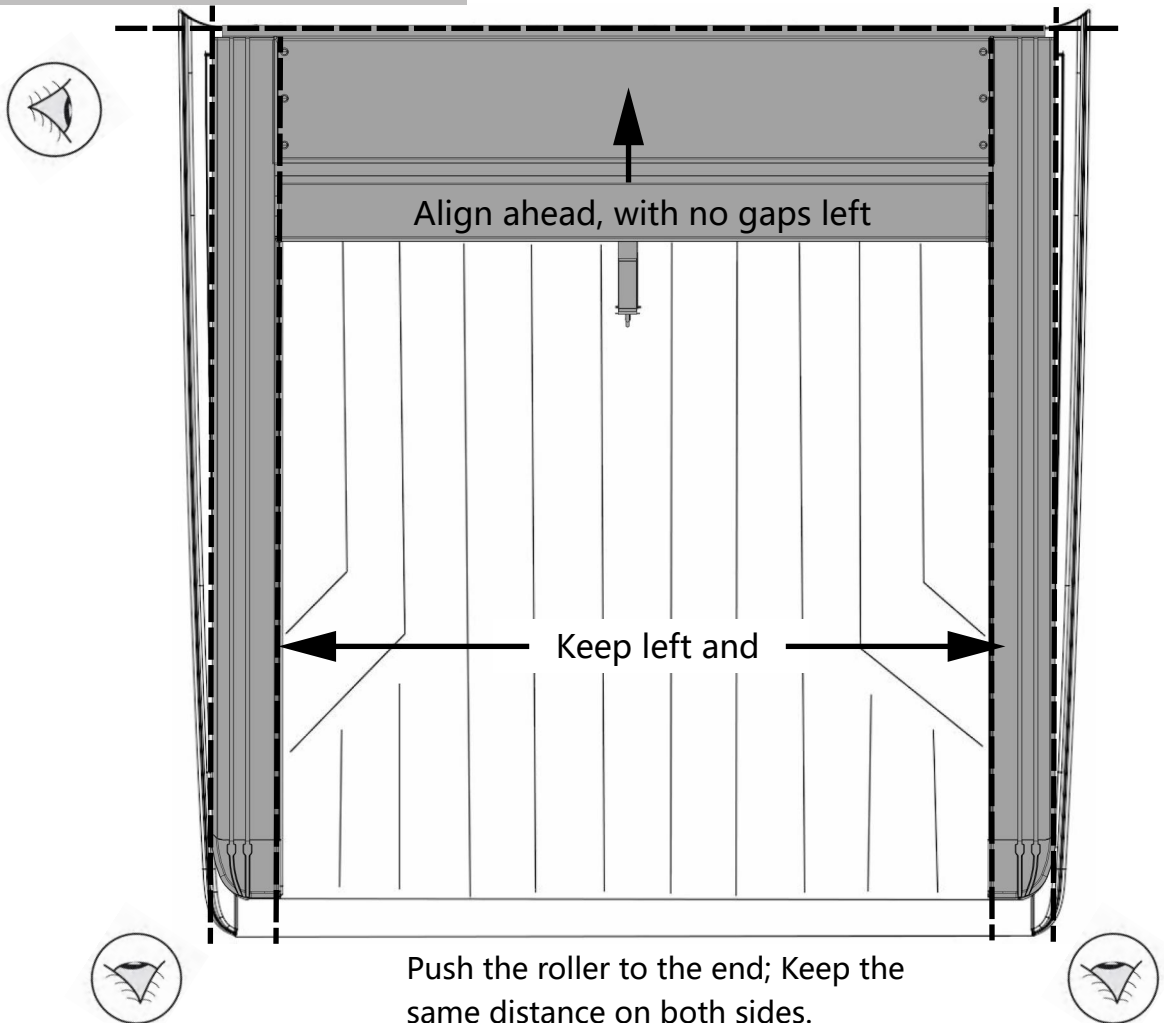
7.1 Lift the roller onto the carriage



Tips: Installation requires 2 people to carry the product onto the truck bed for safety of personnel and product. Please pay attention to avoid any scratch on vehicle and product surface.

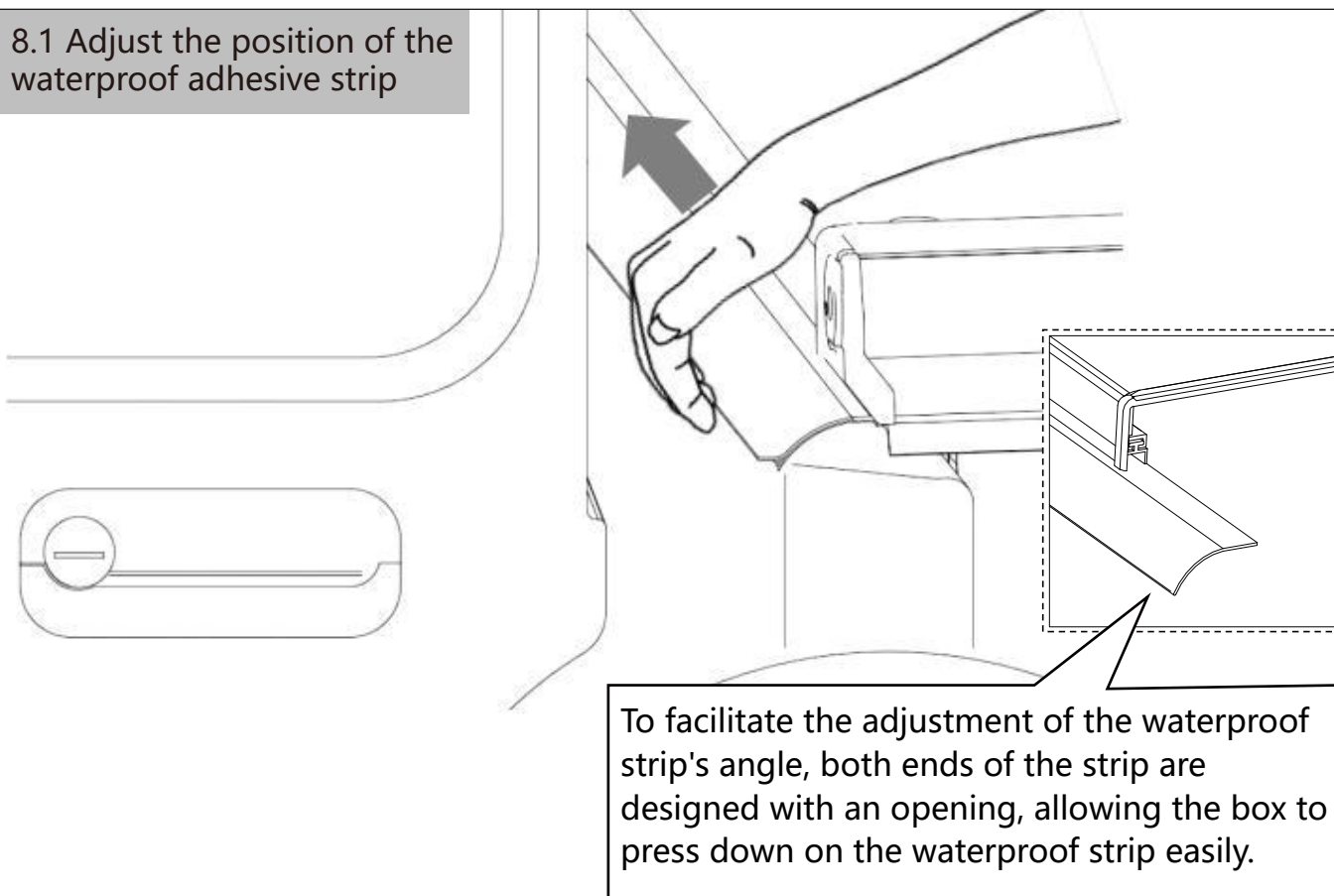
Lift the product onto the truck bed.

7.2 Adjust the position of the roller

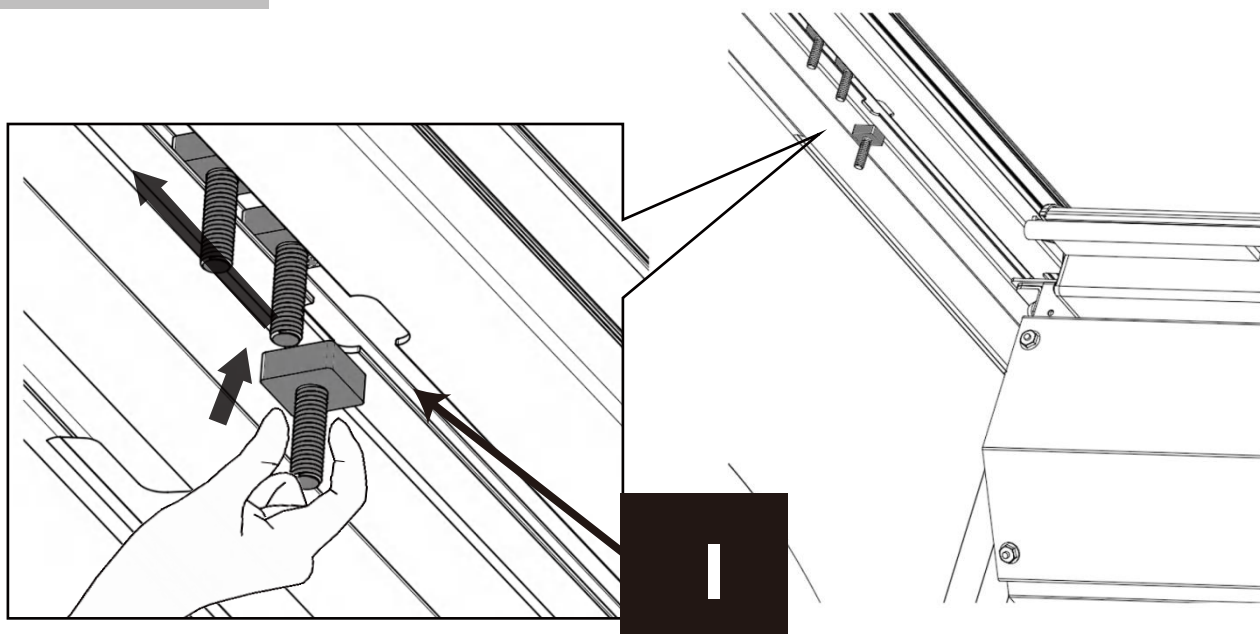


8. Adjust the waterproof rubber strip of the box-put the T-shaped screws well

8.1 Adjust the position of the waterproof adhesive strip



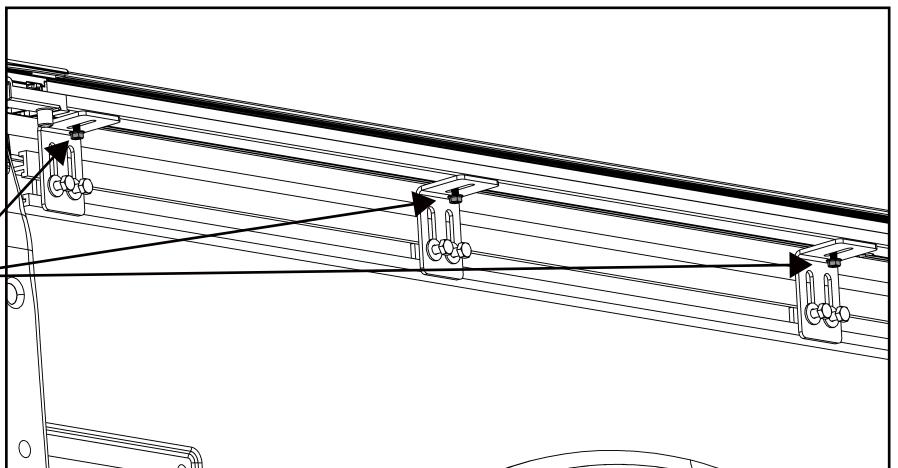
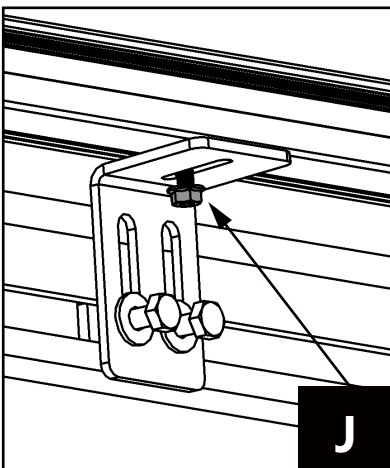
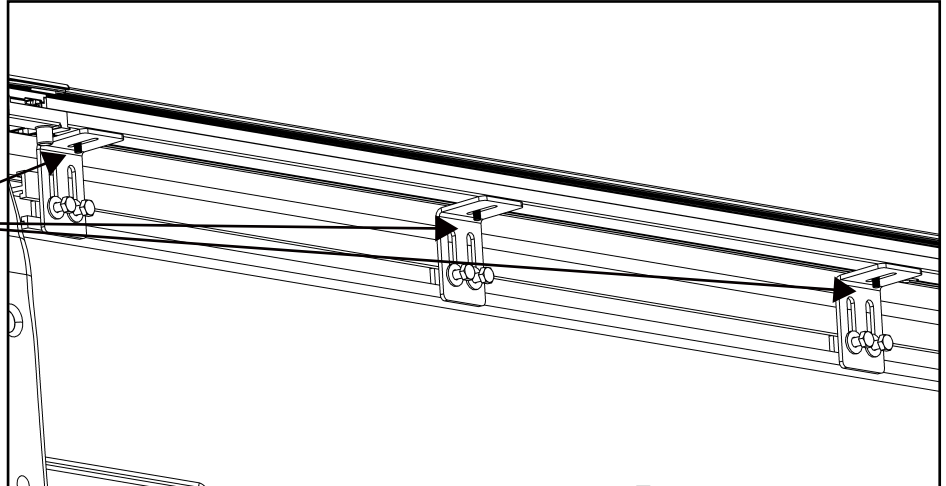
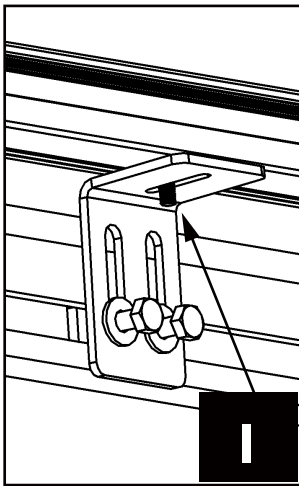
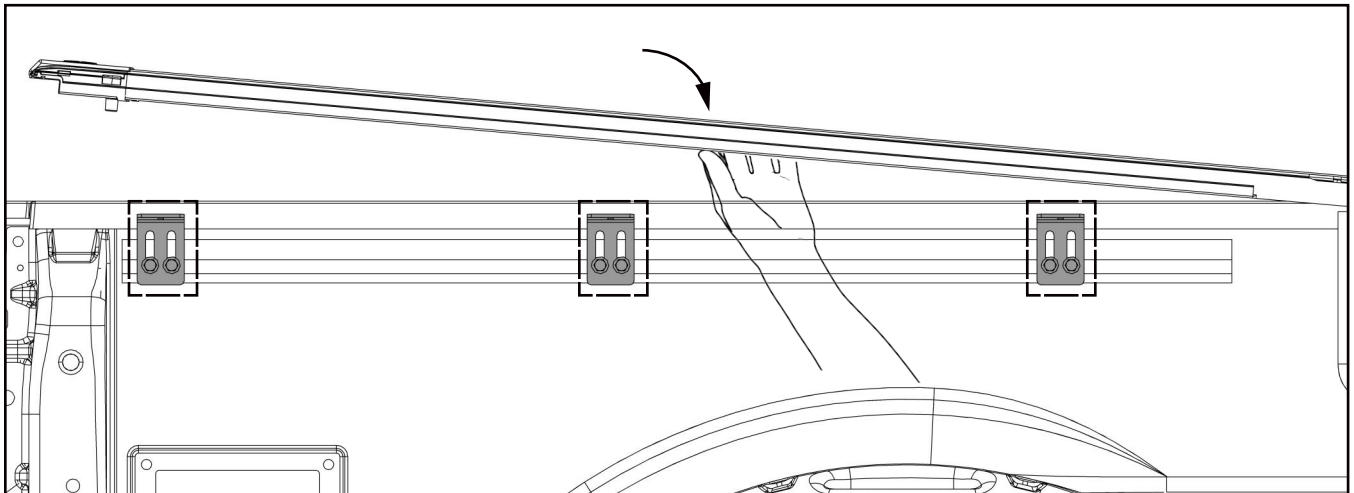
8.2 Place T bolts



Put accessory I into the side bar next chute with three (half of the total) on each side.

9. All scaffolds are in place

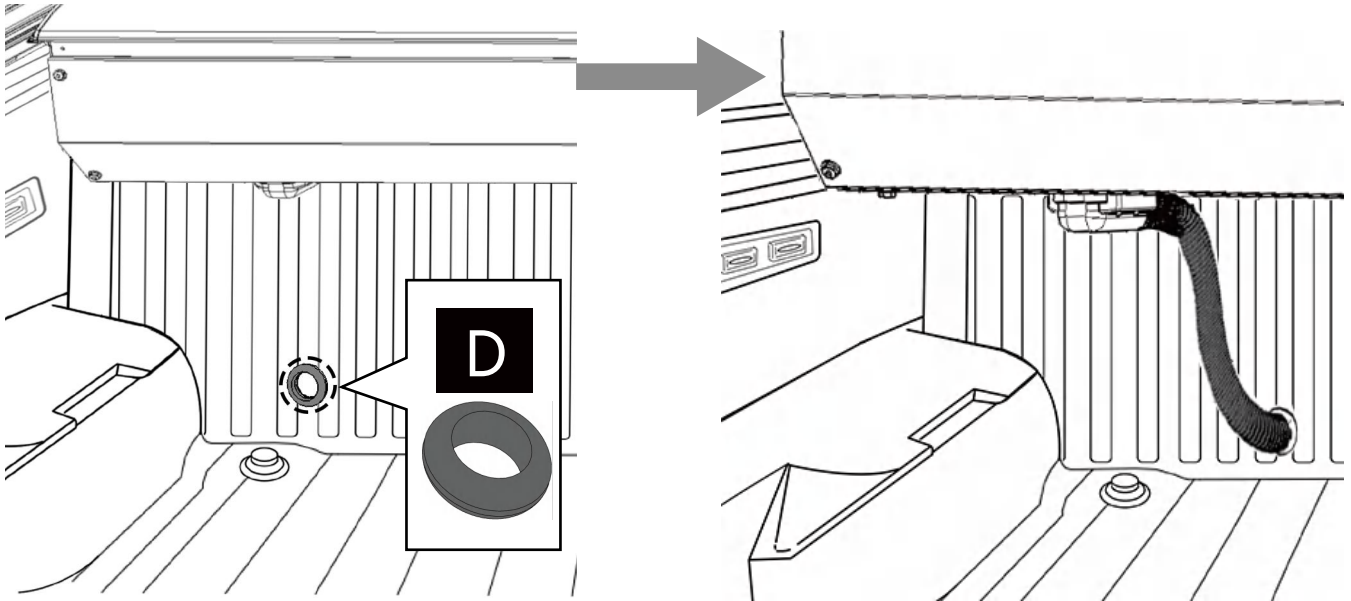
9.1 Pre-installed square head bolt



Put the square head bolt from the bottom opening groove of the side rod, move the bolt to the bracket hole, use the accessory JM 6 self-locking nut, pre-tighten the side rod on the bracket, the same right side;

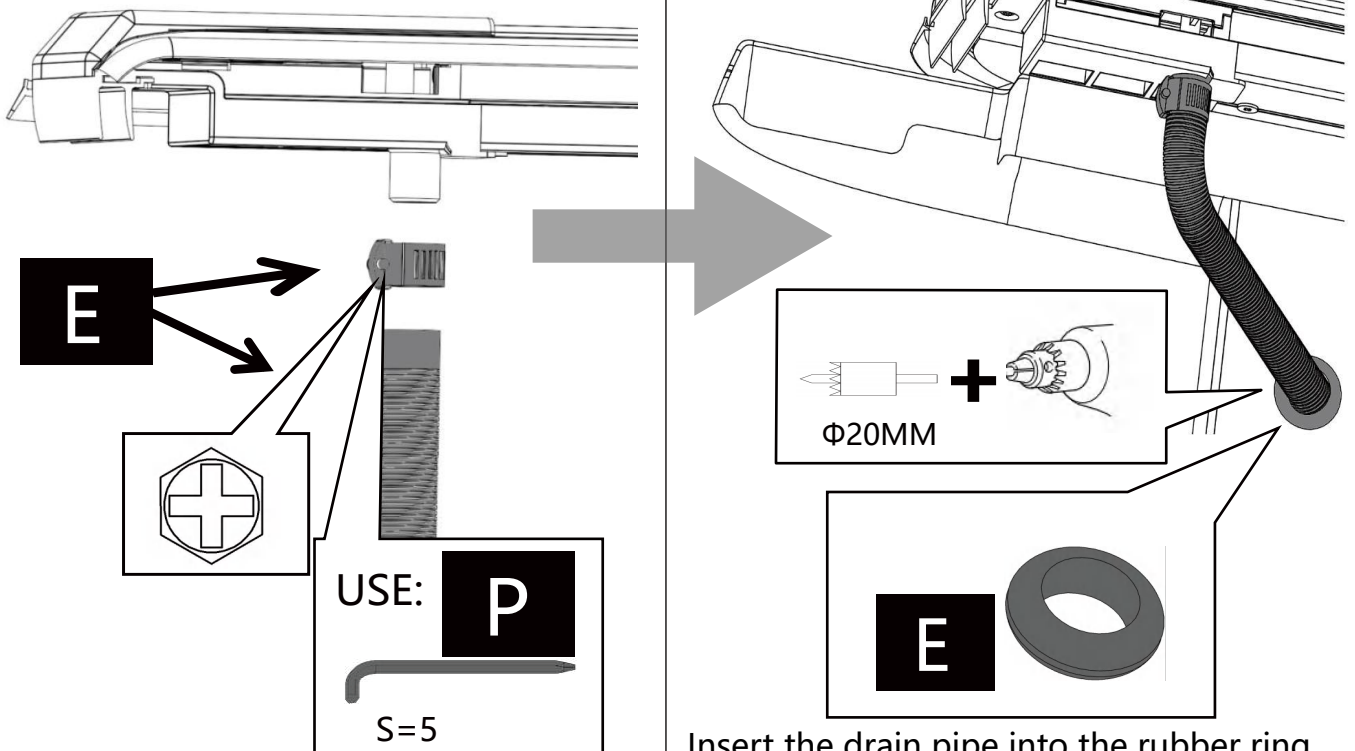
10. Install the front and rear drains

10.1 Install front drain pipe



The truck bed's original drainage hole is covered by a plastic cap. You can either remove the cap and insert the drainage tube directly, or you can use the 28mm drill bit from the accessory pack to drill a hole in the plastic cap and then insert the drainage tube. This will look more aesthetically pleasing. The entire installation process does not require drilling into the truck body.

10.2 Install the rear drain

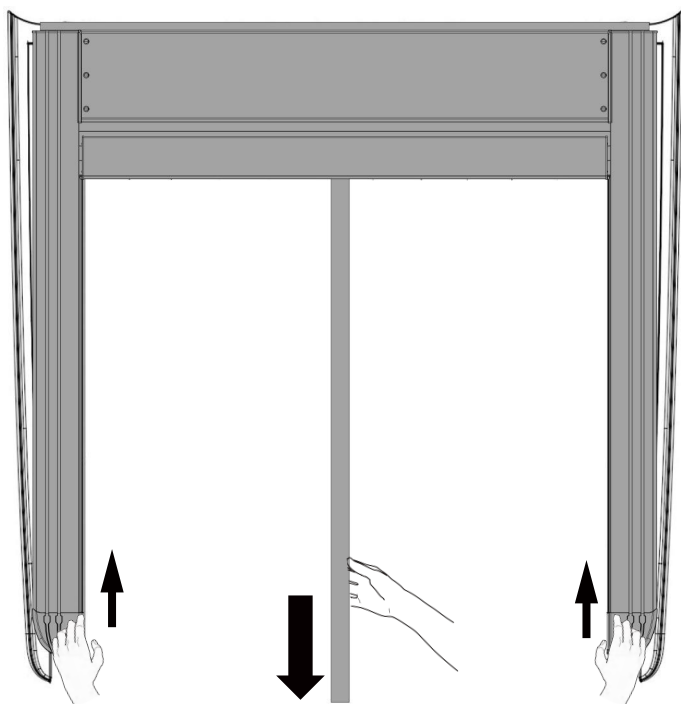


Fix bolt on part E with wrench.

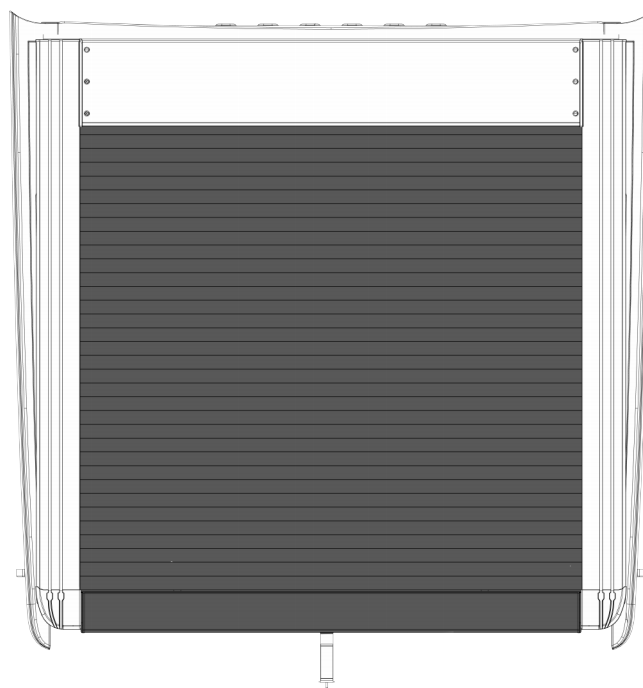
Insert the drain pipe into the rubber ring and insert it into the original drainage hole.

11. Use the measuring tool to measure the parallelism of the rolling shutter

11.1 Pull the shutter door up

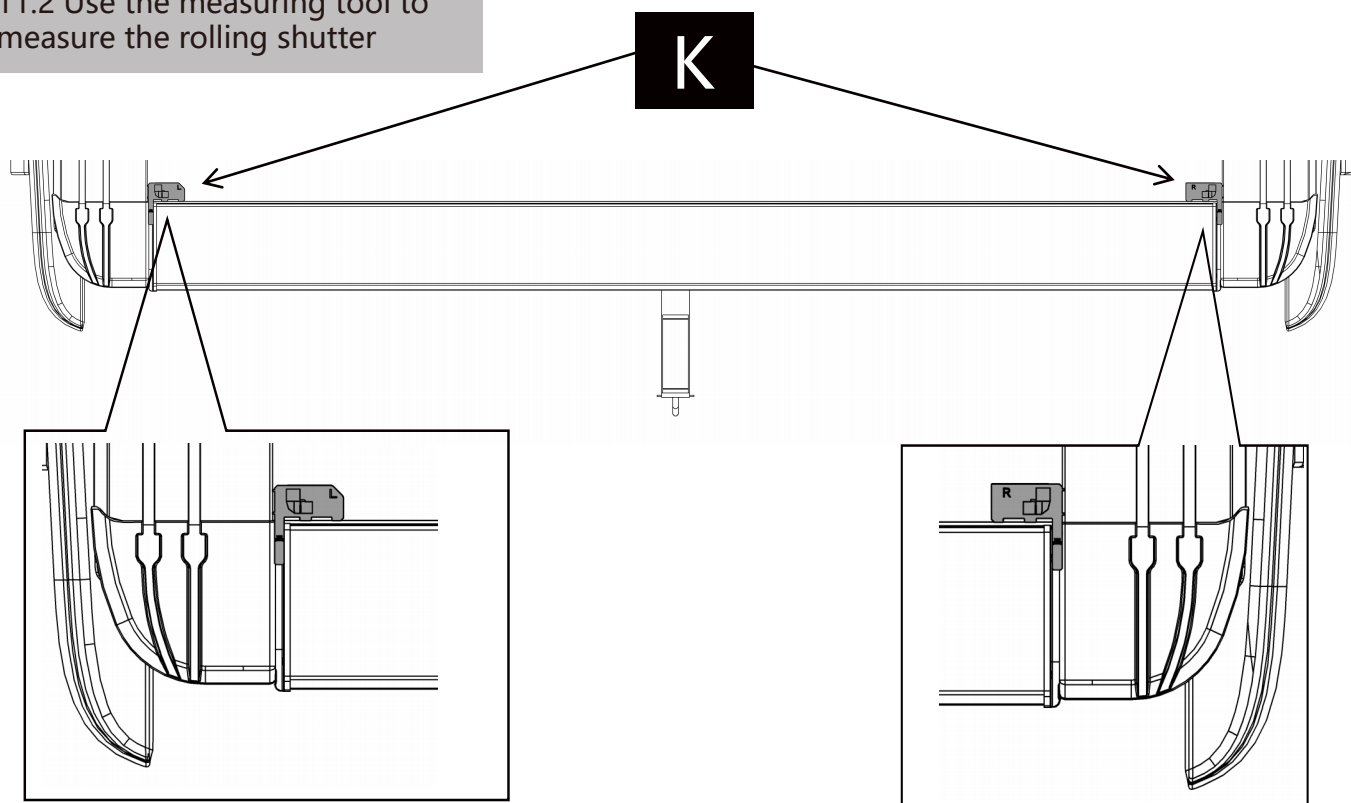


Note: After pulling the curtain, check whether the lid of the pickup truck is facing forward, there is no gap, and whether the left and right are centered



Pull the rope at the end of the tailgate bar to close the cover.

11.2 Use the measuring tool to measure the rolling shutter

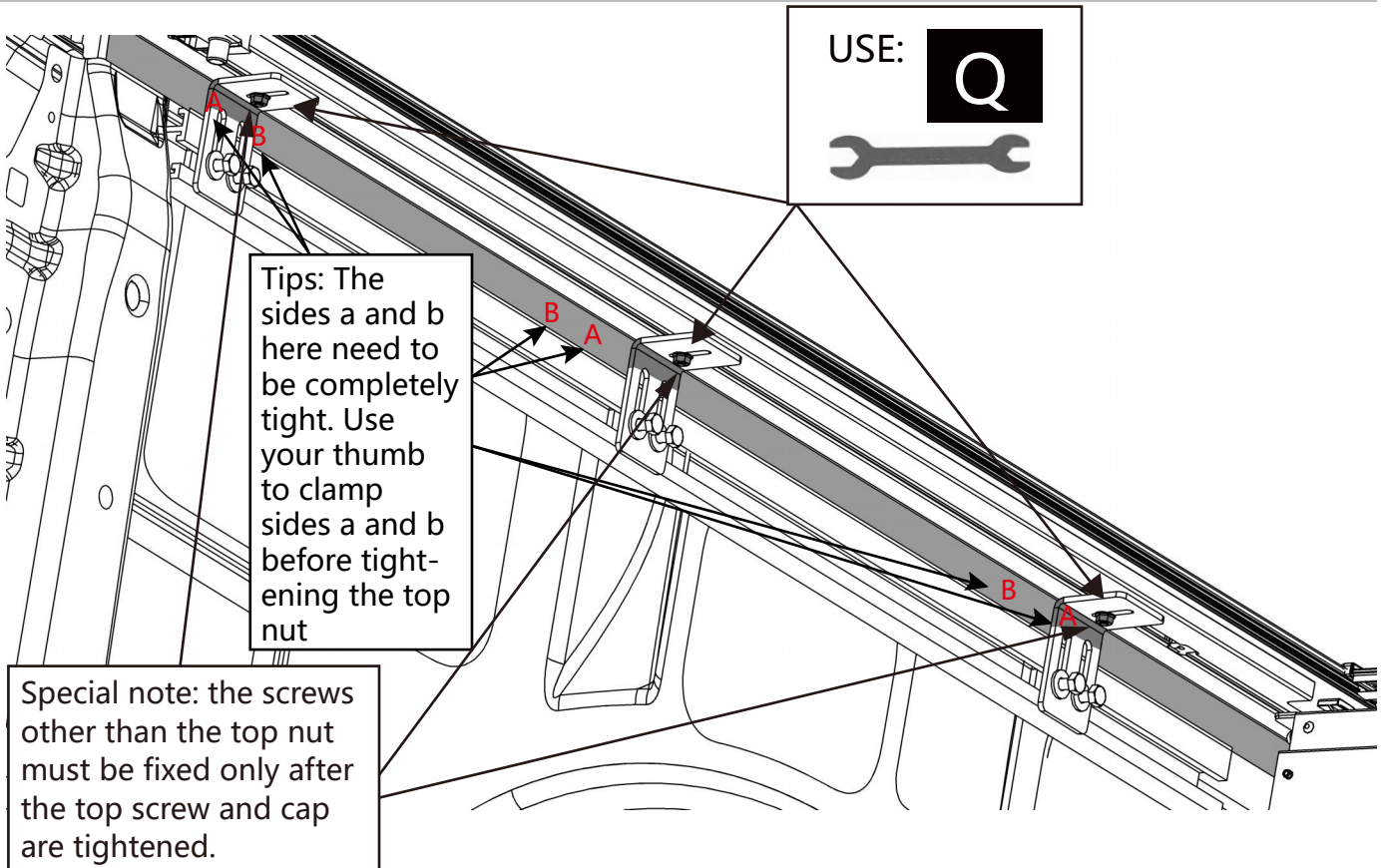


In order to facilitate buyers to check whether the rolling curtain is installed parallel, we developed measuring tools to replace measuring tape

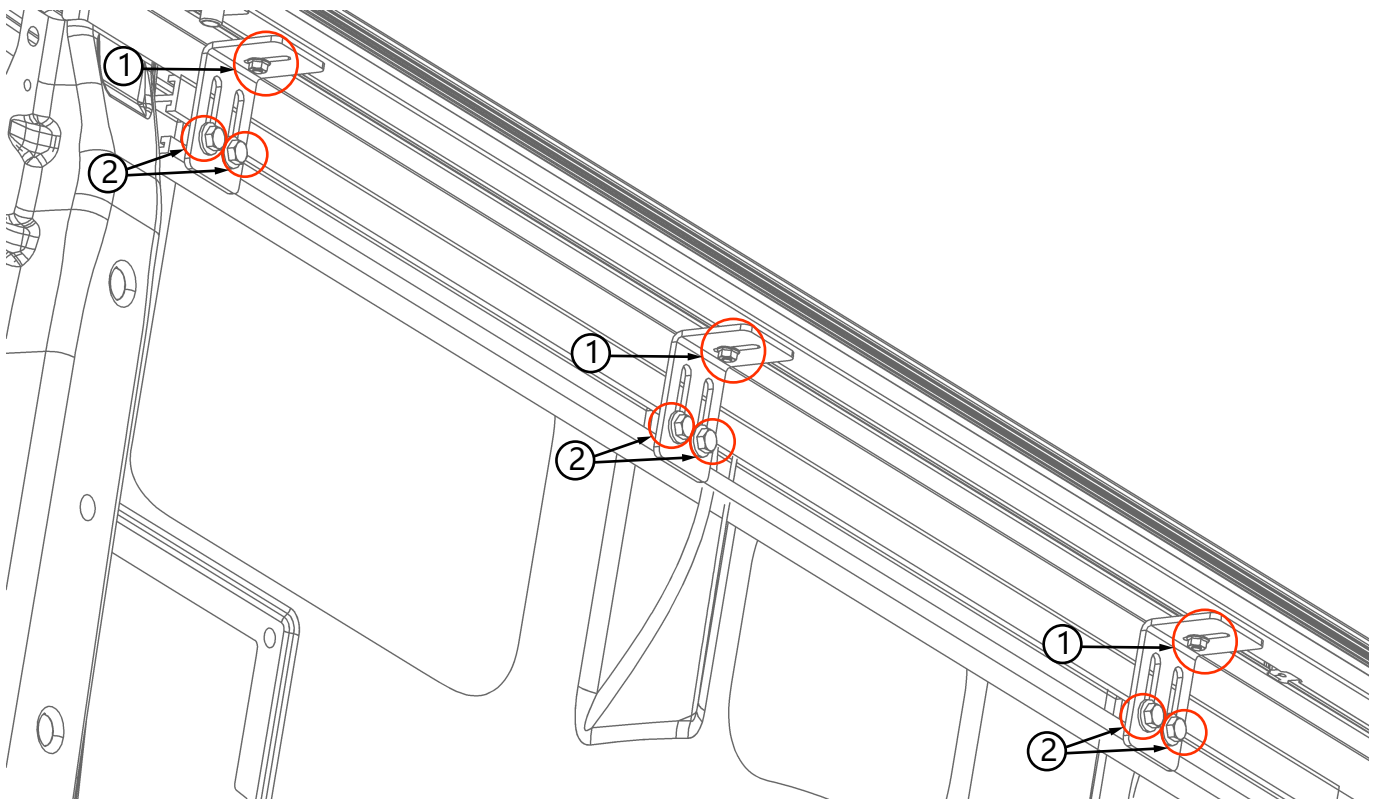
Close the roller, and place the gauge K between tailgate bar and side bar ends, gap between 7-8 mm is the best state.

12. Tighten the bracket screw

12.1 Tighten the screws of the rear bracket, pay special attention: first tighten the top nut

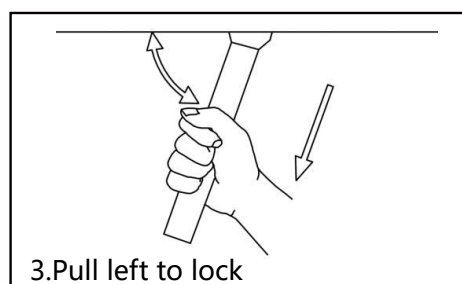
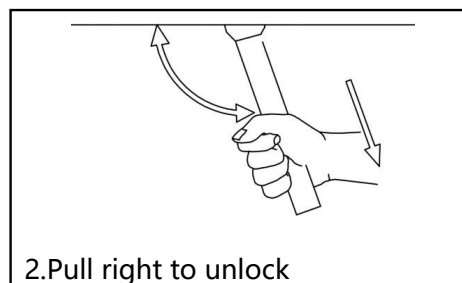
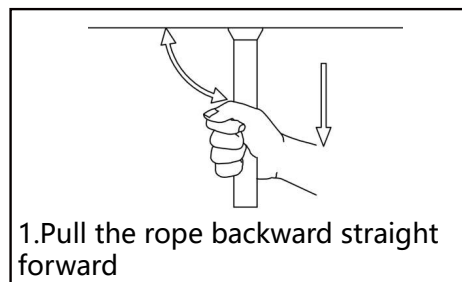
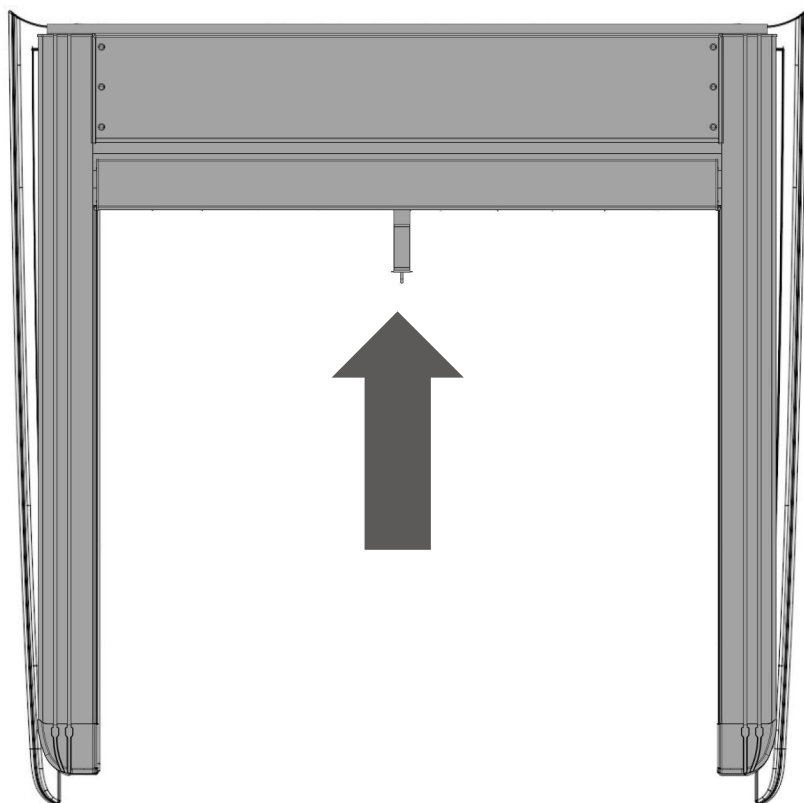


12.2 Screw installation order

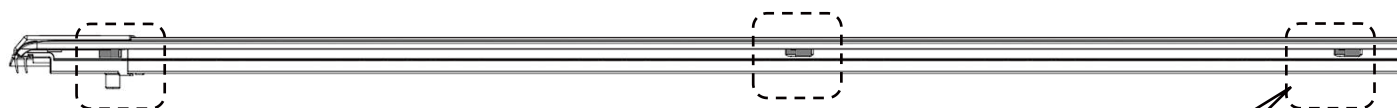


Tips: the ws must be fixed in order, otherwise problems may arise

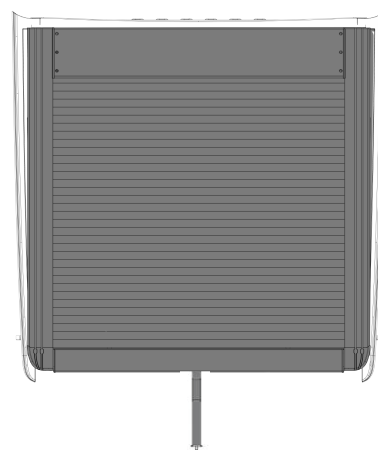
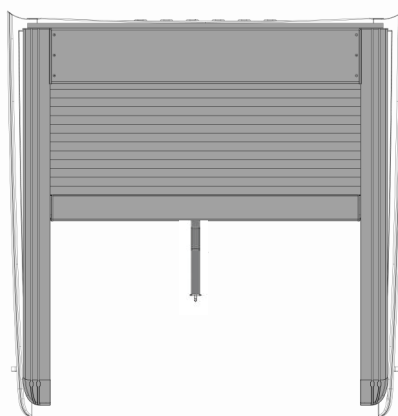
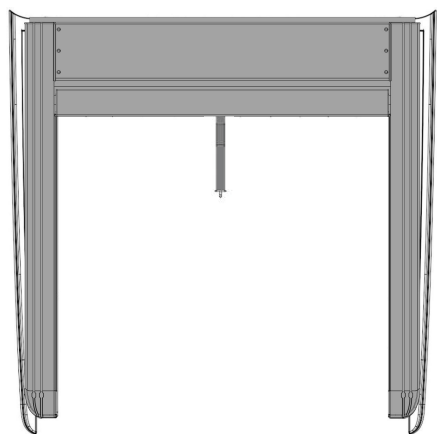
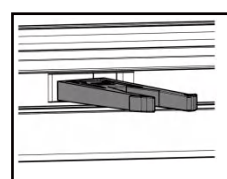
12.3 Unlock roller lid



12.4 Function Introduction

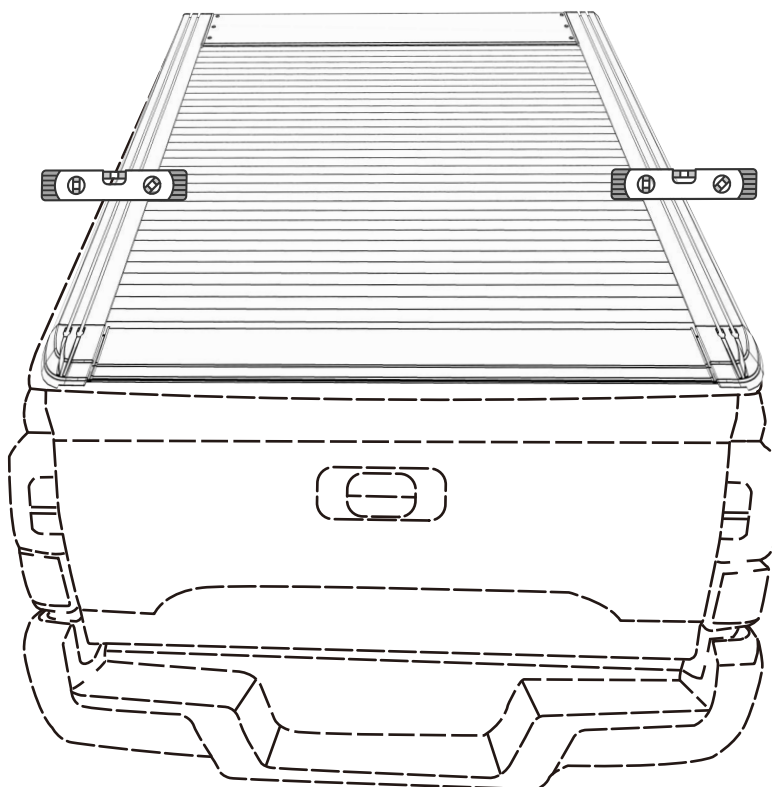
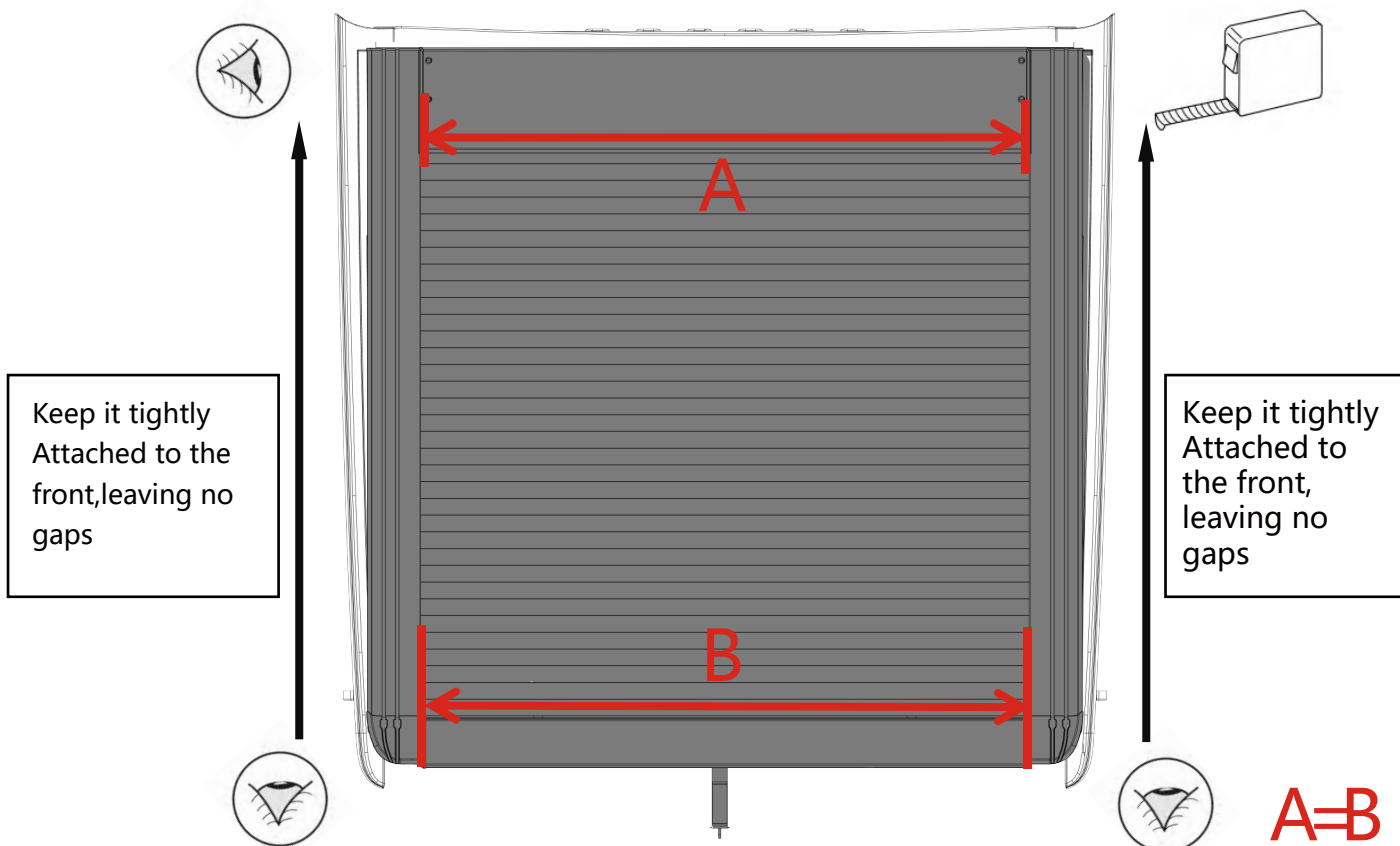


The cover can be unlocked in three positions, and this function can be used based on different needs.



13. Key adjustment link

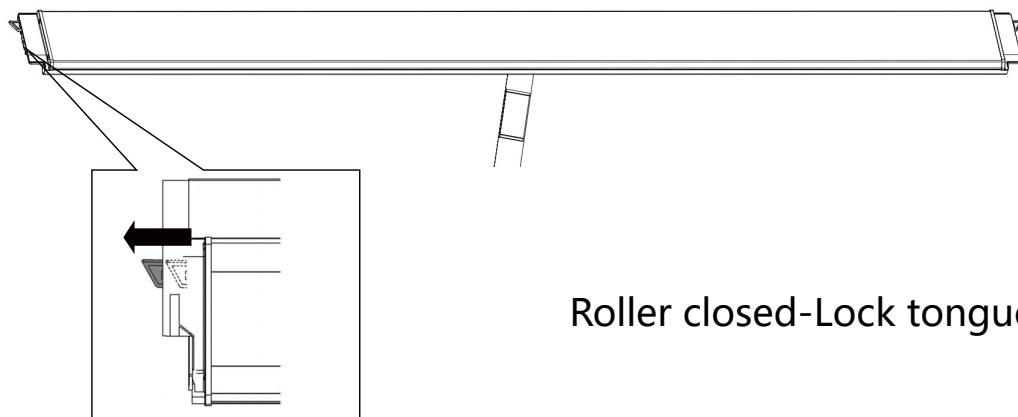
13.1 Ensure that all bolts are tightened; close the shutter and check if the sides of the shutter are parallel as shown in the figure. Whether the distance before and after the measurement is the same (the difference within 2mm is the best state).



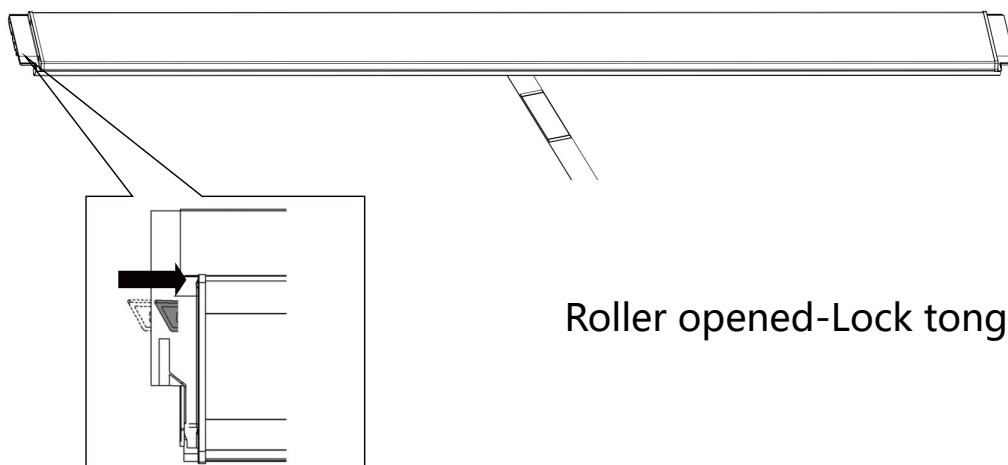
Tips: Note the parallelism of the two side bars, if mounted inward, raise the bracket mount.

14. Operation

14.1 Manual Lock Introduction

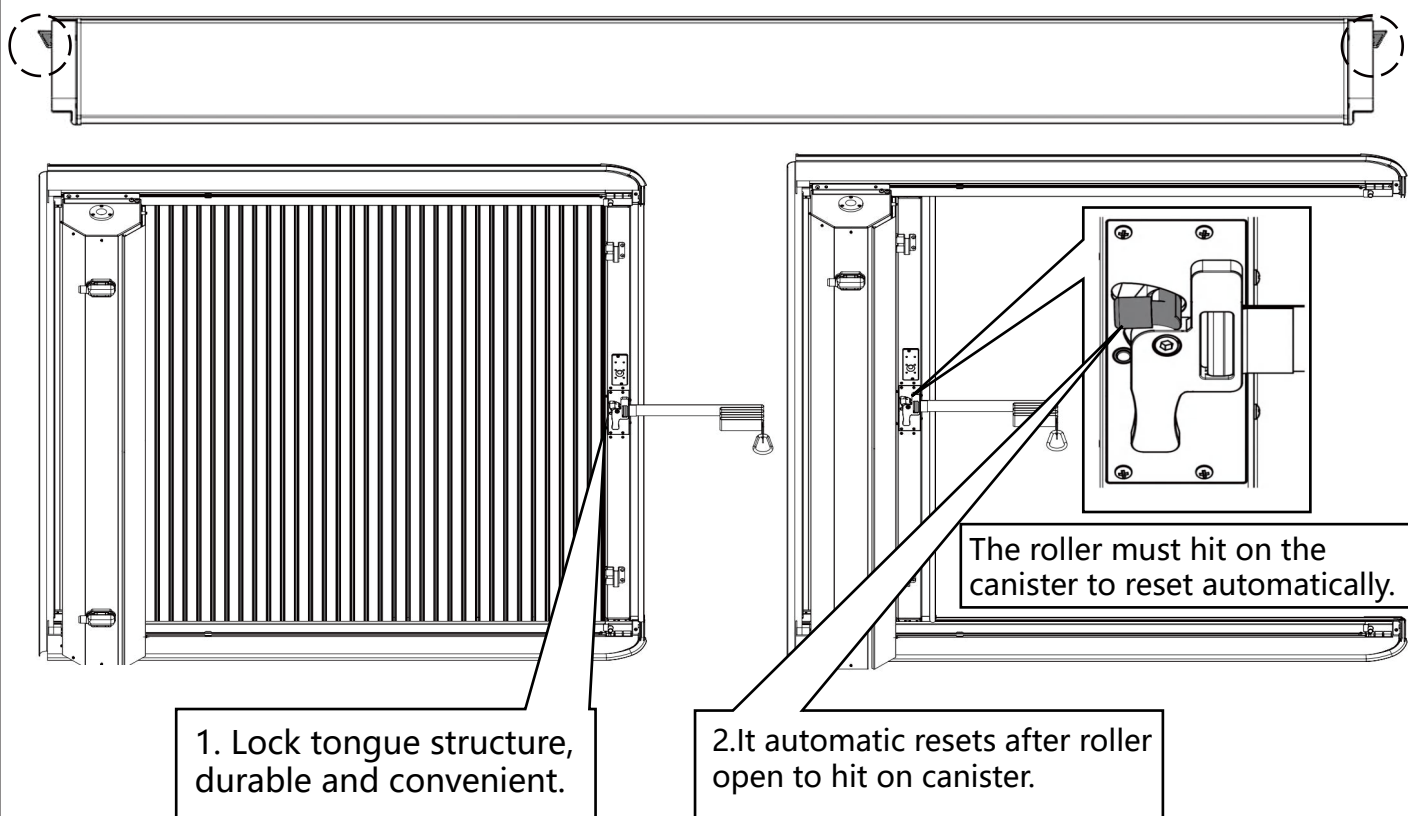


Roller closed-Lock tongue out.

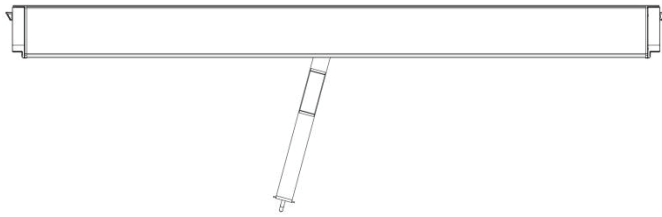


Roller opened-Lock tongue in.

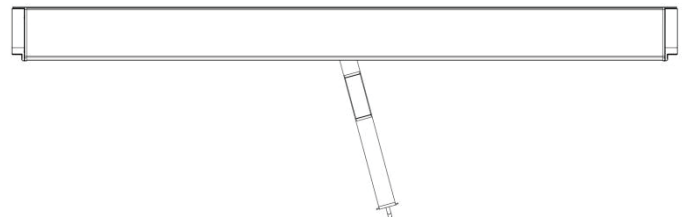
14.2 Benefits



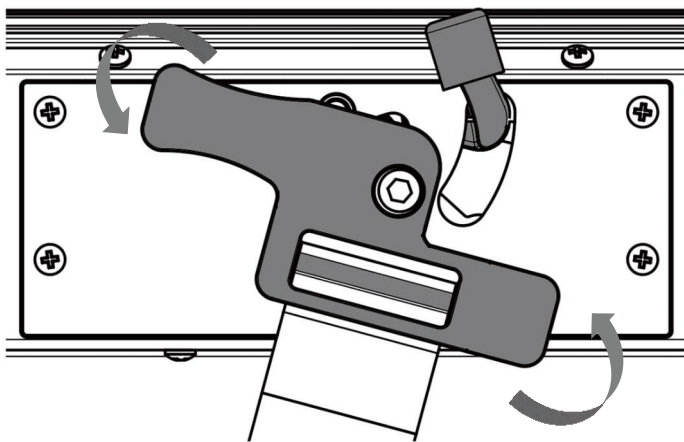
14.3 Operation



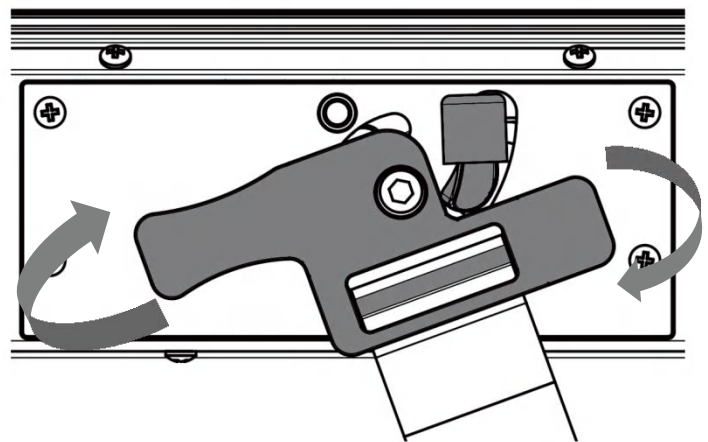
Lock: Pull left to lock.



Unlock: Pull right to unlock.

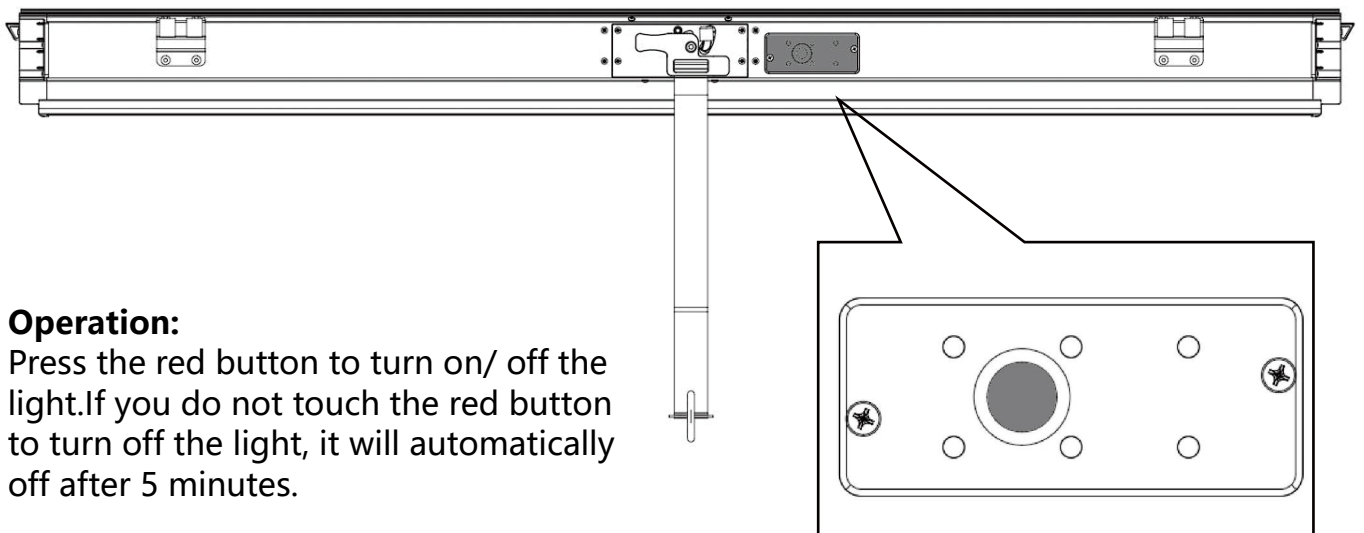


Rotate the block counterclockwise to unlock.



Rotate the block clockwise to lock.

14.4 LED Light

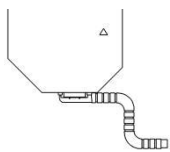


Operation:

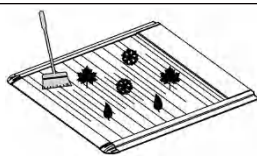
Press the red button to turn on/ off the light. If you do not touch the red button to turn off the light, it will automatically off after 5 minutes.

15 Maintenance

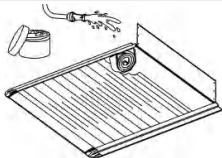
15.1 Daily Maintenance



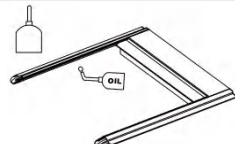
Keep the drainpipe free from blockage.



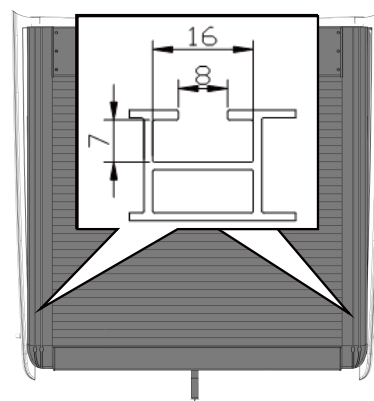
Please clear the litter before use.



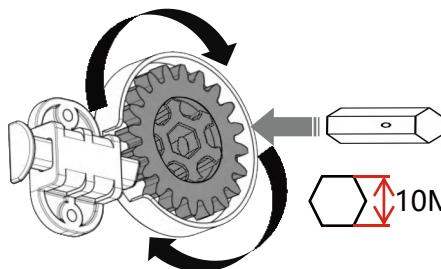
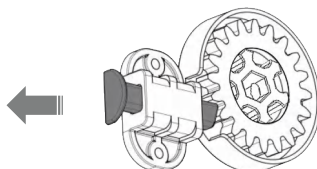
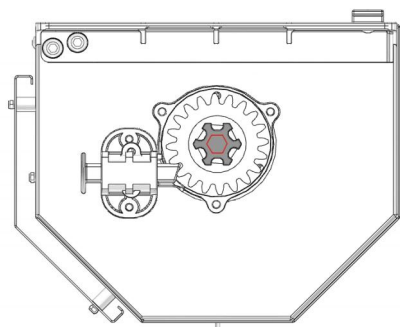
Clean and lubricate the canister every 6 months.



Clean and lubricate the track every 3 months.



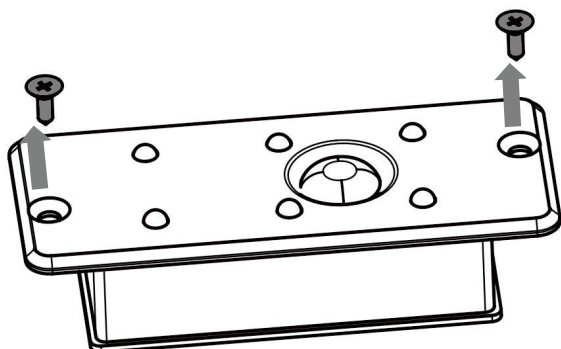
Compatibility : M8 bolt.



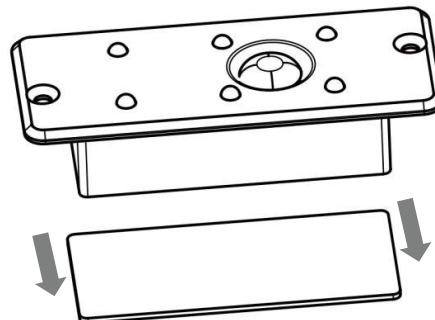
If the roller retract speed is too fast or customer has to take out the cover to clean canister, please pull out torsion spring control block to release the force.

If the roller retract speed is too slow/less force, then rotate clockwise with the hex block. Note: No need to operate the torsion spring control block.

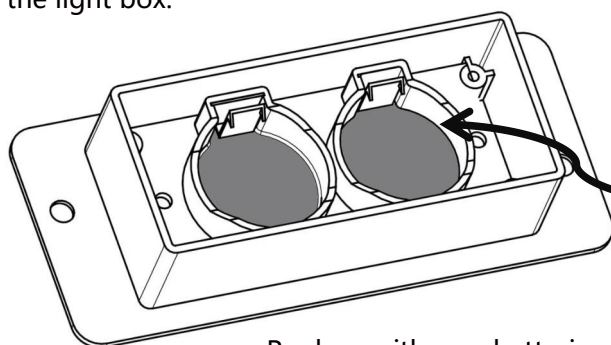
Change the batteries for LED Light:



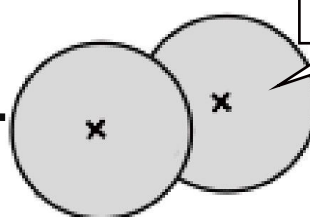
Unfasten the screws on both sides to take out the light box.



Remove the foam under the LED light box.

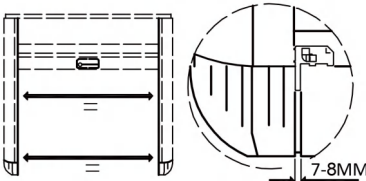
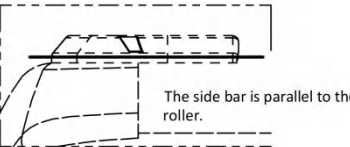
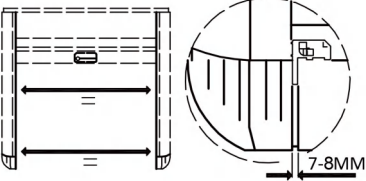


CR2450



Replace with new batteries and install the light box back to the roller. Please pay attention to the +/- pole of the batteries during installation.

15.2 Common Problem Solution

No.	Common Fault Phenomenon	Analysis	Pics	Solutions
1	1.It can't roll in after unlock. 2. Not enough strength to roll in completely.	1.Side bars are installed inward or outward and not placed parallel. 2.Big resistance leads to non-smooth operation.		1.Use the installation gauges; 2.Adjust the side bar installation to make sure the front and rear distance are the same; 3.Pull the roller out completely, and measure the gap between tailgate bar and side bar ends, gap between 7-8mm is the best.
		1.Side bars were installed collapses downward.		1.Adjust the brackets of side bar installation, to make sure the side bars are parallel to the roller.
2	The roller can't lock, or auto open during driving.	1.Side bars are installed outward so the gap is too big to lock.		1.Use the installation gauges to make sure the front and rear distance are the same; the slide rail is parallel; 2.Pull the roller out completely, and measure the gap between tailgate bar and side bar ends, gap between 7-8mm is the best.

16 Helpful Maintenance Hints

1. To assure quiet and smooth operation of your roller, please regularly clean and lubricate the rail tracks and canister. It is recommended every 3 months or 6,000 km, or when you use it in muddy water, desert, Gobi desert, etc. Please focus on cleaning the side rails and the spiral track inside the container which may have sand, sludge, gravel and other sundry inside. Please use the lubricants we offered or other brand silicone oil-type lubricants after cleaning, and increase the frequency of using lubricants based on actual situation. Avoid using petroleum-based product on rubber seals. Lighter oil spray lubes with PTFE (Teflon) seem to work the best when regularly wiped out and reapplied.
 2. Avoid the thicker grease type because they tend to get sticky and gather a lot of dust and debris and then later dry out. Also Avoid the silicone dry lubes as they tend to cause squealing noise between the sliding components.
 3. Please make sure the roller is in a stop status before cleaning/lubricating, to avoid causing extrusion or collision injury.
 4. To clean the rail tracks and the spiral track inside the container, please apply the lubricant to a rag and wipe it inside of the rail tracks, along the underside of the sweep seal and the top of the wear strip. Repeat until the dust has been removed. You can also use a high-pressure water gun if necessary and then make sure all components have been lubricated. Please do not direct aiming the high-pressure water gun to the motor/ECU/connector when cleaning, and do some necessary waterproof protection for connectors/plugs.
 5. To clean the canister, remove the rail stops, or vertical rails as required, and run the cover out far enough that you can get into the canister. Apply the lubricant to a rag and wipe the inside of the canister, including all components inside the canister. Ensure the Drain Tubes are clear of any debris or blockage. Reassembly the cover .
 6. If you find that the brightness of the remote control signal indicator light is obviously weakened, or the button indicator light does not on, please replace the battery in time (battery model: CR2450).
 7. To keep the roller in tip-top condition, we recommend washing it the same as caring for your truck finish. A lack of proper cleaning and maintenance can affect the operation of the product and reduce its life.
 8. Do not attempt to drive with the tail panel in the partially open position.
 9. Tonneau cover must be free of foreign material including snow and ice before opening panels.
 10. Do not tow your vehicle from the rear with the tonneau on your truck.
 11. Do not operate vehicle with objects on top of cover.
- Failure to follow these cautions may result in severe damage and will void your warranty!