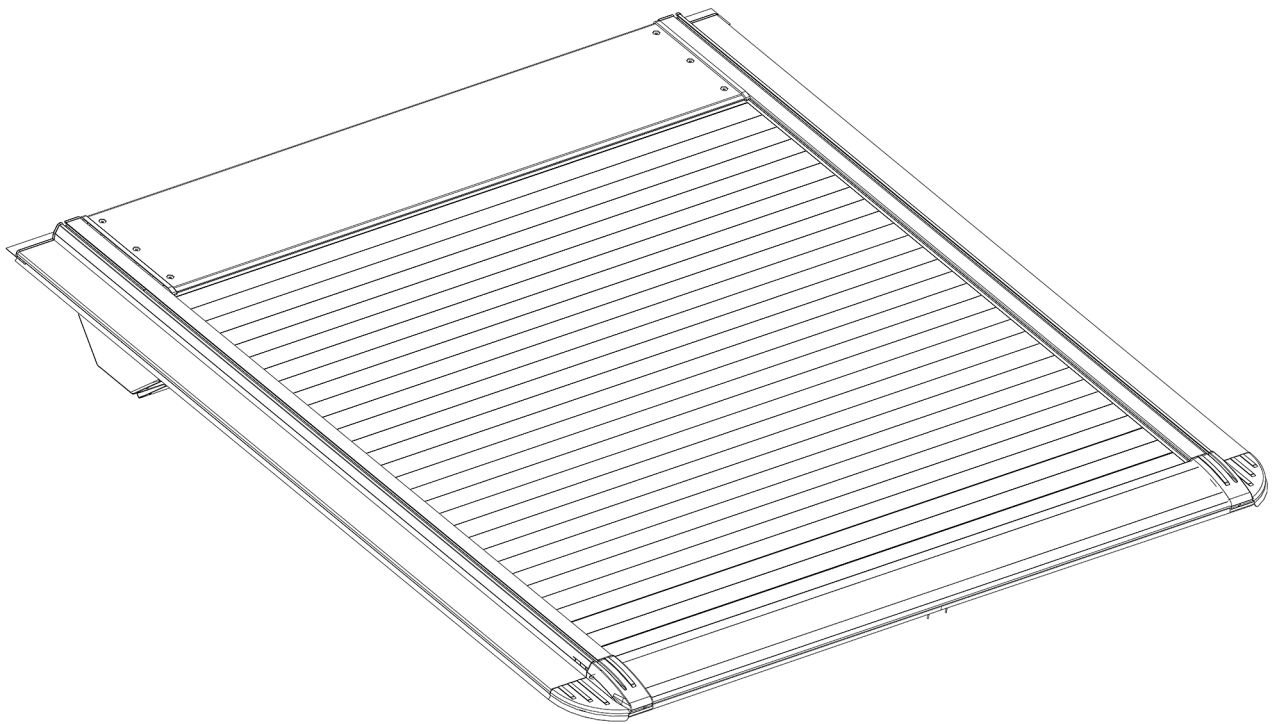


Pickup Retractable Tonneau Cover Installation Manual (EM-K22&EM-K44)



1. Matters need attention:

1. Please install the parts in a safe environment, and wear the corresponding safety protective equipment.
2. Please read this manual carefully before installing the product, pay attention to protect the surface of the vehicle, and avoid scratches during the installation process.
3. Check whether the parts in the package are complete before installation.
4. Please regularly check whether all the parts connected to the car are loose to ensure the safety of use.
5. Use traces between the slide track and the rolling curtain are normal test traces.
- 6, this curtain has no load-bearing function, do not place the heavy object above the curtain.
7. The drainage pipe passes through the drainage hole of the rear tail box.
8. Before folding up the curtain, make sure to ensure that the surface is clean to avoid foreign bodies involved in the box.

2. Kindly reminder:

1. When the curtain is opened or closed, pay attention to check whether there is foreign body, avoid the human body contact with the opening and closing area, and avoid pinching.
2. When the box body and the side rod slide rail are installed, the rolling shutter has the automatic return function. Please pay attention to the stability to prevent clamping.
3. Please do not close the pet or person in the closed rear tail box, which may cause suffocation.
4. The number of people installing the curtain is recommended to be 2, and the installation time is about 45-60 minutes.

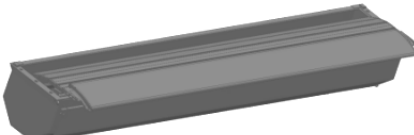
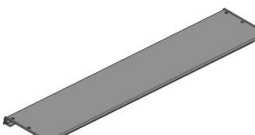





TABLE OF CONTENTS


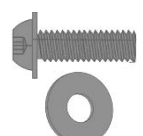


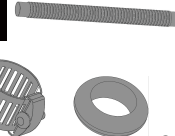
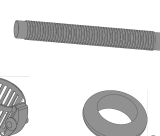
- 1. Product Introduction.....2
 - 1.1 Bill of Material.....2
 - 1.2 Product Components.....3
- 2. Installation4
 - 2.1 Preparation4
 - 2.2 Assembly.....5
 - 2.3 Installation.....12
 - 2.4 Wiring.....16
 - 2.5 Adjust/check.....17
- 3. Description.....21
 - 3.1 Introduction to remote control.....21
 - 3.2 Key Fob Control.....23
 - 3.3 Front Button Control.....23
 - 3.4 APP/Wechat Program.....23
- 4. Maintenance and repair.....25
 - 4.1 Solutions to common problems.....25
 - 4.2 Rolling shutter failure analysis.....25
- 5. Helpful Maintenance Hints.....26

1. Product Introduction




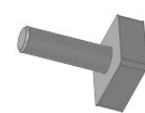



1.1 Bill of Material

M1  1X	M2  1X
M3  1X	M4  1X
M5  1X	

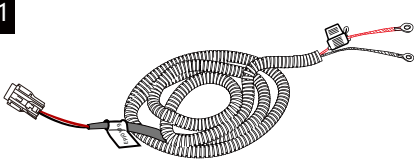
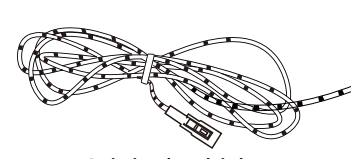
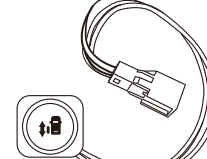
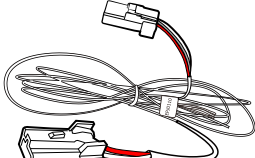
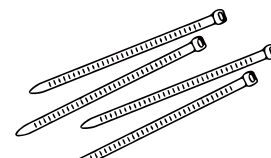

Bill of Material-Brackets(Components may vary by vehicle)

A  2X	B  6X	C  10X	D  2X	E  2X	F  2X
---	--	---	---	--	--

Bill of Material-Brackets

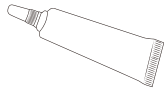
G  6X	H  6X	I  6X	J  6X
K  6X	L  6X	M  L1+R1	

Bill of Material-Electronic Parts

Y1  Power Cord (Gray) 1X	Y2  Original vehicle signal line (yellow) 1X	Y3  Switch button line (white) 1X
Y4  Signal extension line (white) 1X	Y5  20X	Y6  2X

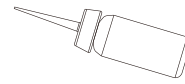
Maintenance

Sealant



1X

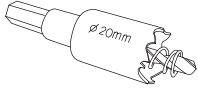
Lubricant



1X

Bill of Material-Tools

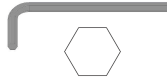
N1



Φ20mm

1X

N2



S=5

N3



1X

S=5

N4

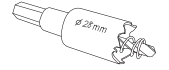
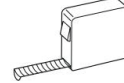
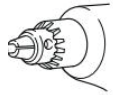
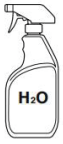


1X

S=8/10

1X

Other Assistive tools (Provided by Customer)



Φ28MM

1.2 Product Components

Carton Box



M2



M4



M3



M5



M1



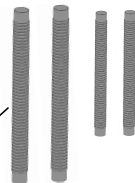
Honeycomb Board



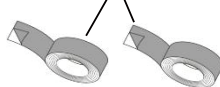
Foam Block

Honeycomb Board

Drain Tube



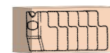
A



Accessory Box



L



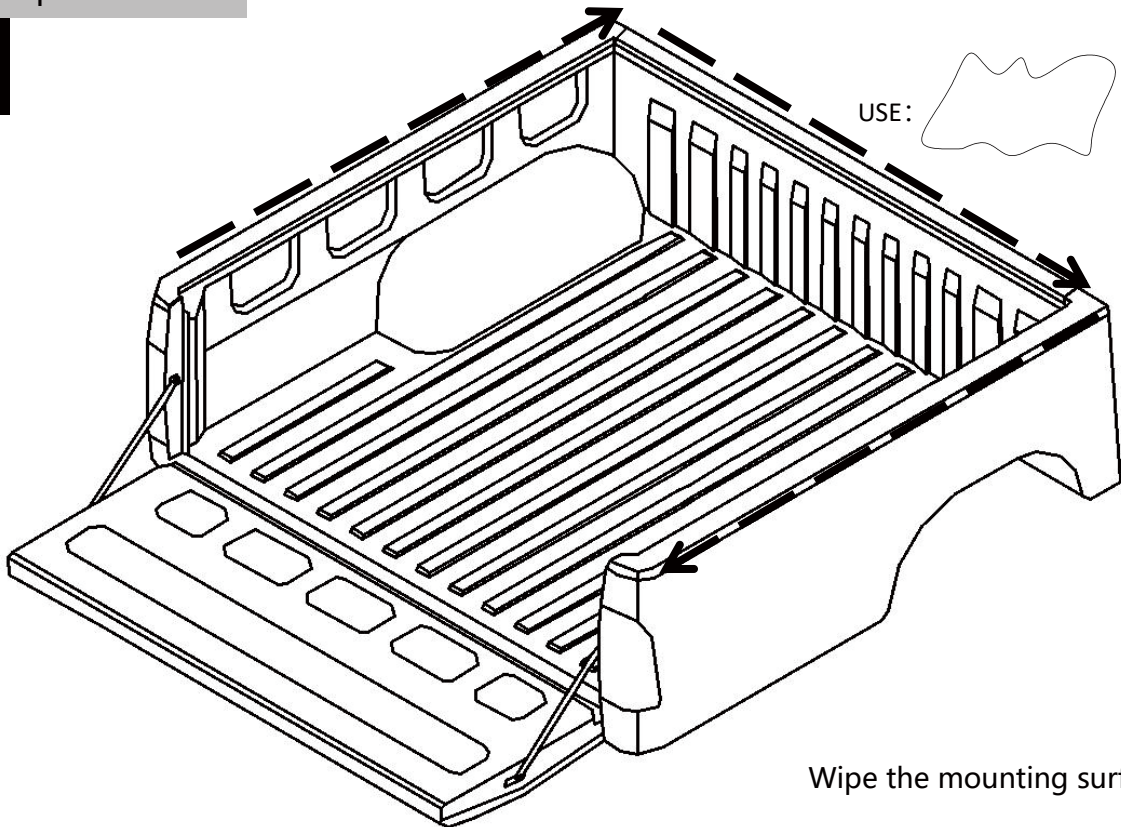
Carton Box



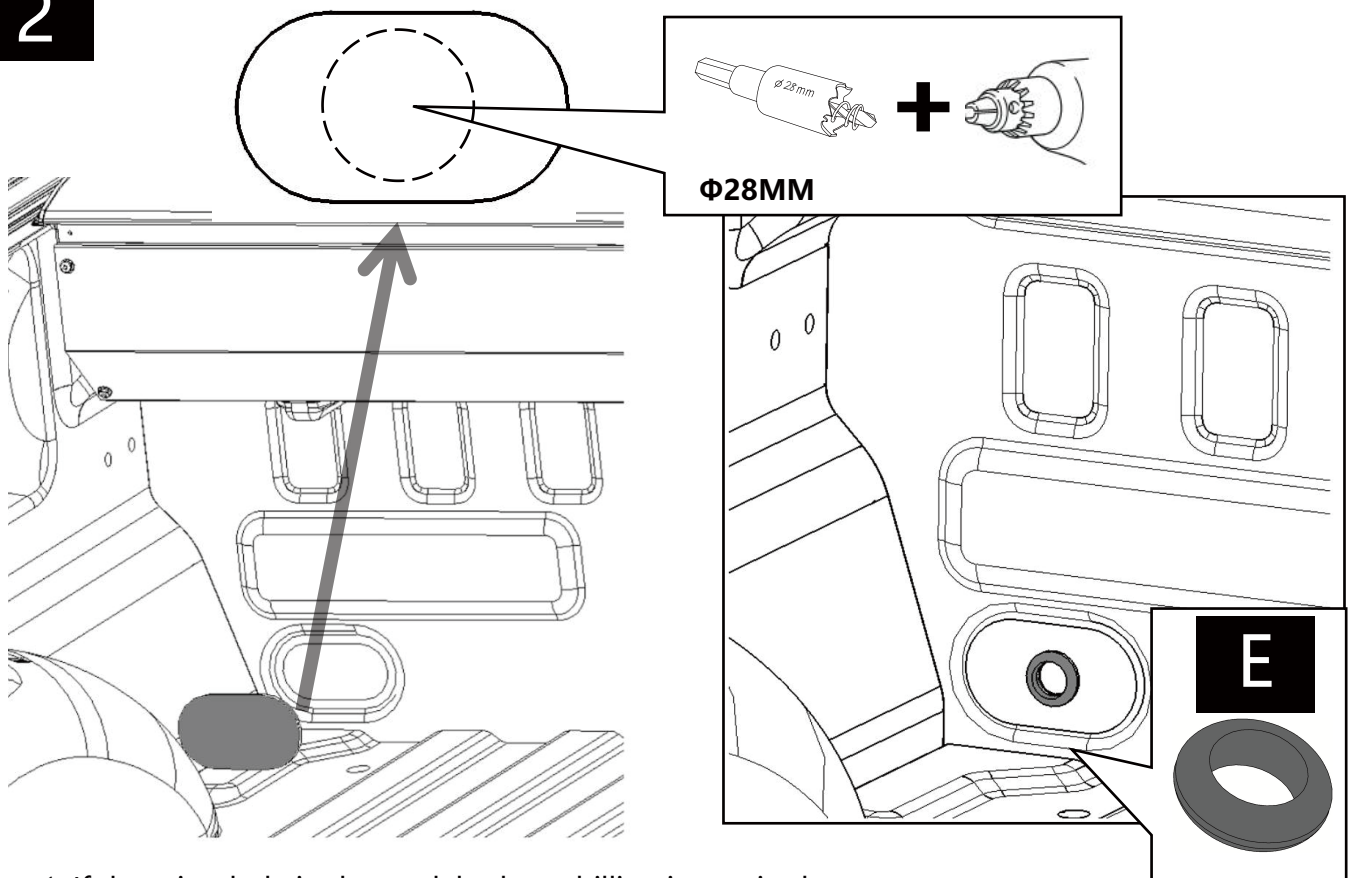
2. Installation

2.1 Preparation

1

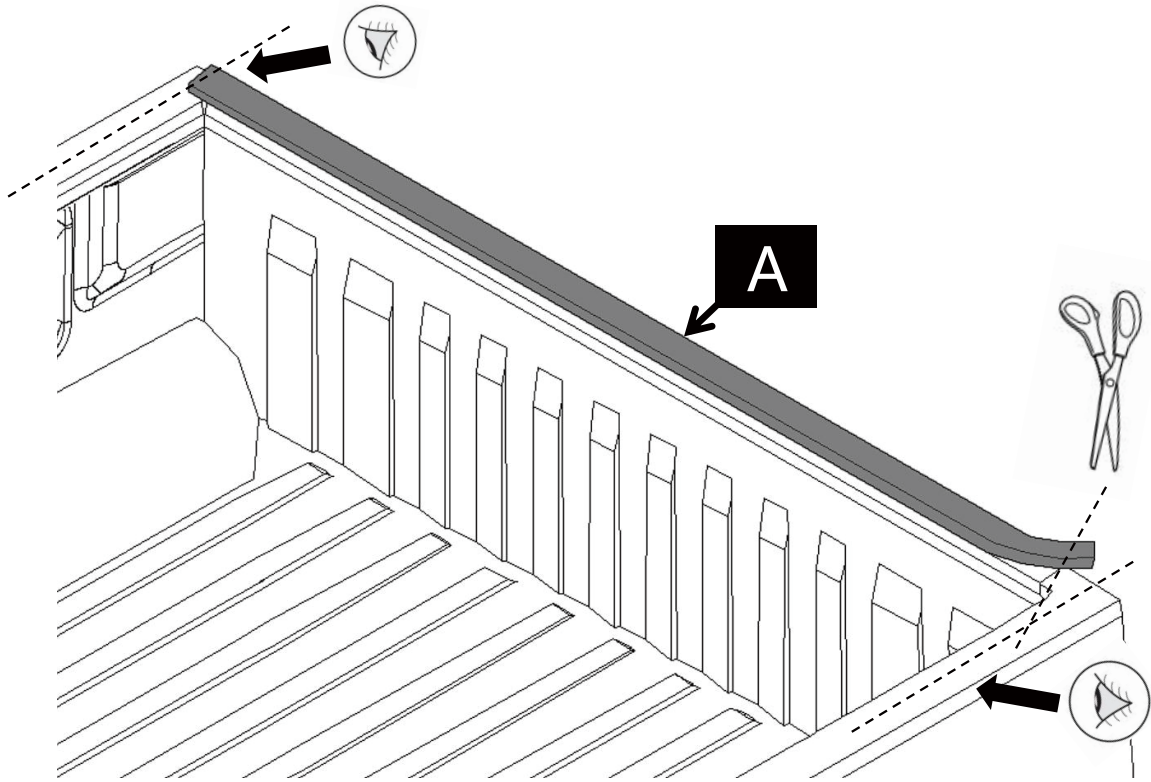


2



1. If there is a hole in the truck bed, no drilling is required.
2. Remove the truck bed drainage plate on both sides. Drill a $\phi 28$ hole with the above tool(- make the hole surface smooth without hurting hands and then install the rubber washer). Install the plate back.
3. The non-drainage movable plate should be drilled in the truck bed.

3

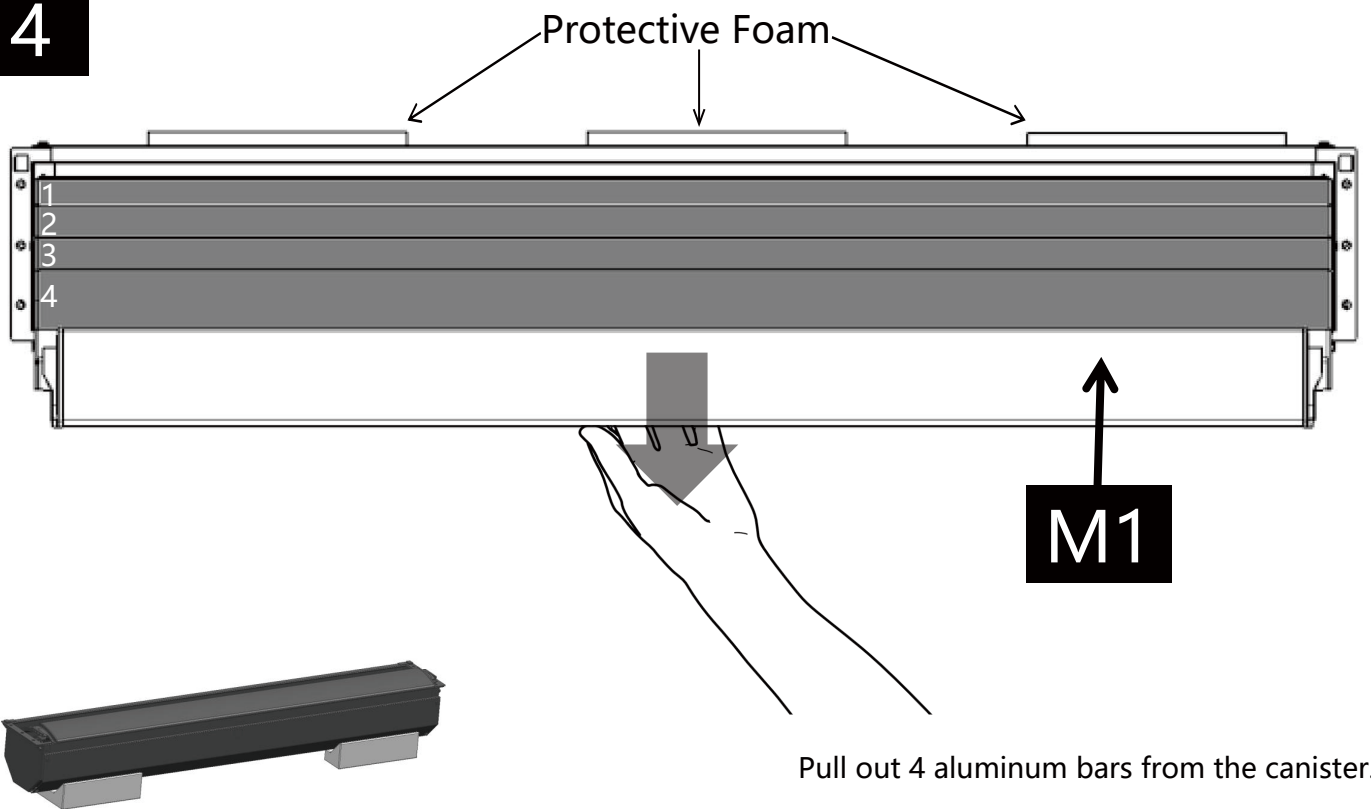


TIPS: If the foam surface is uneven with the car after sticking one piece of foam, it is necessary to stick multiple pieces of foam until they are even.

Stick the foam of accessory A onto the upper edge of the front end of the truck bed, and use scissors to cut off the excess part. The two ends of the foam should be aligned with both sides of the truck bed.

2.2 Assembly

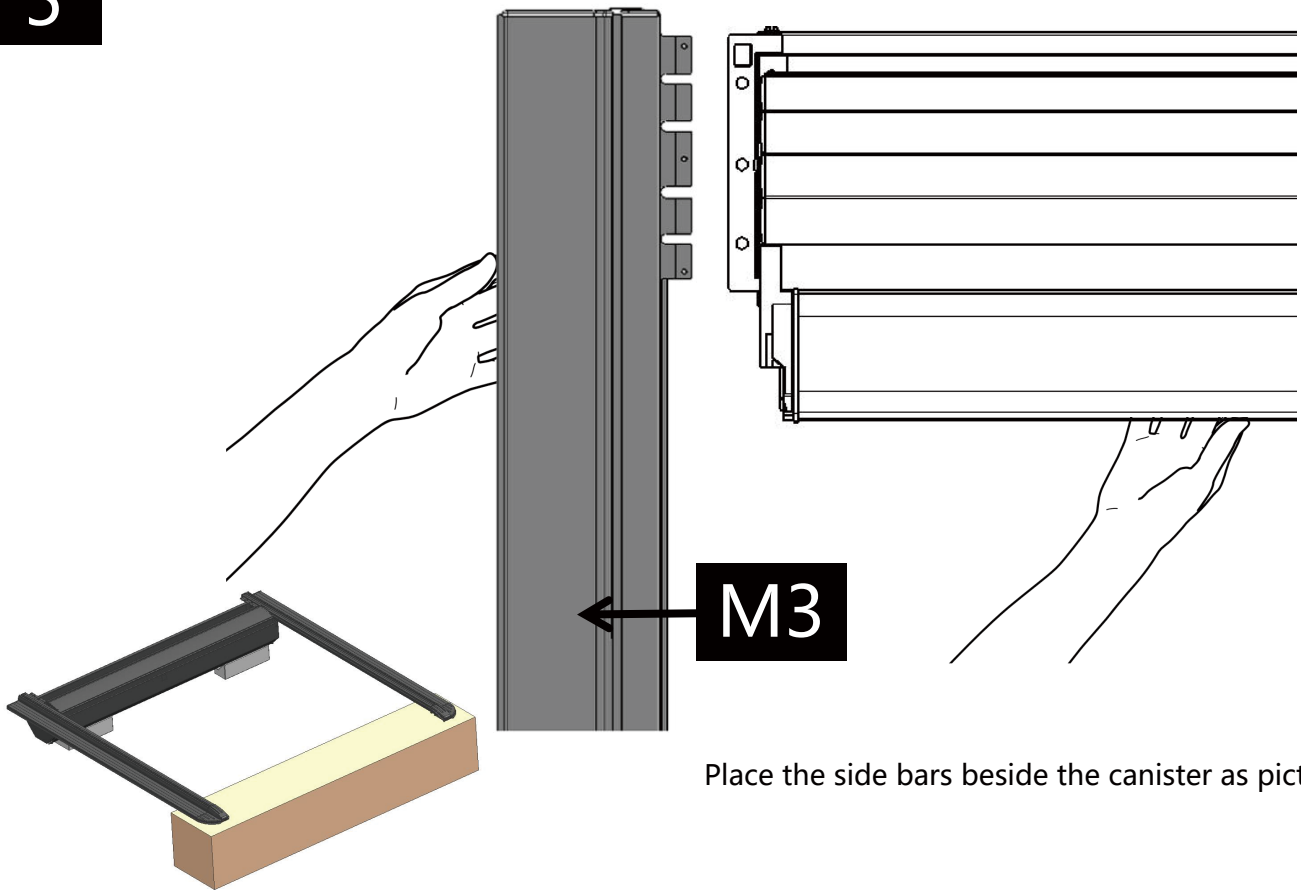
4



Pull out 4 aluminum bars from the canister.

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

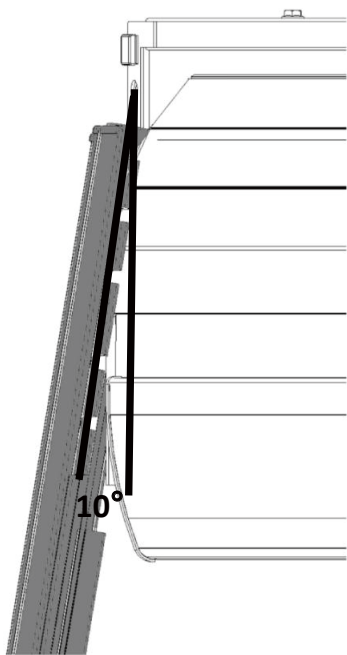
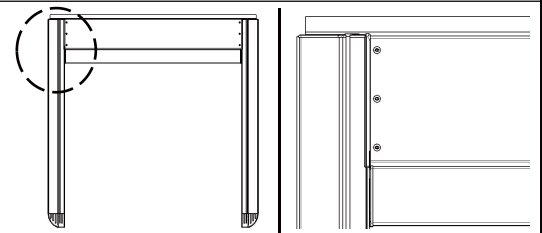
5



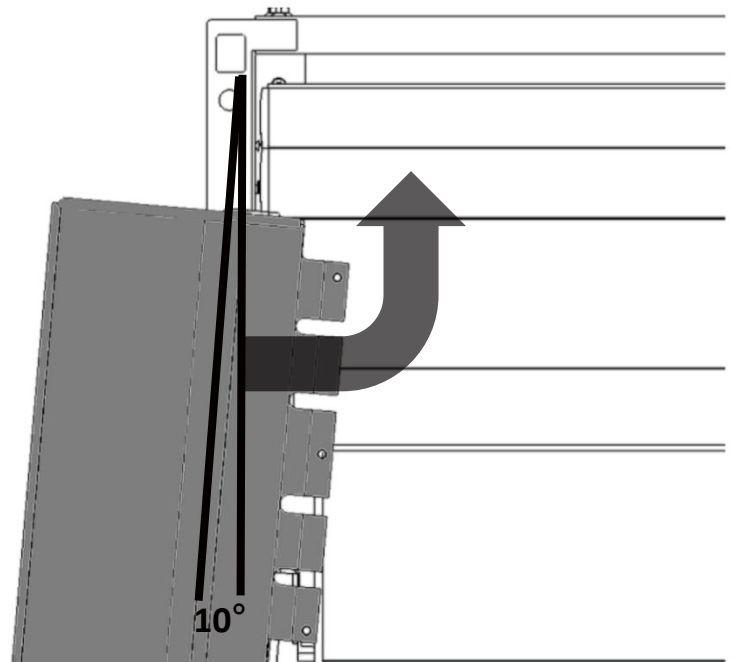
Place the side bars beside the canister as picture.

Tips: Place the side bars on carton box to avoid scratch.

6

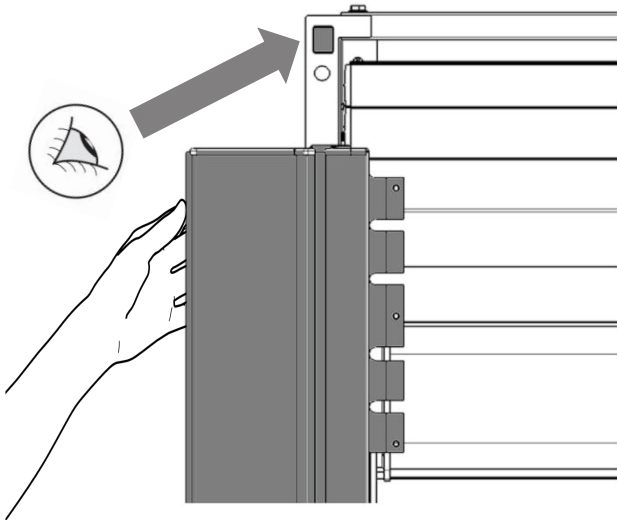
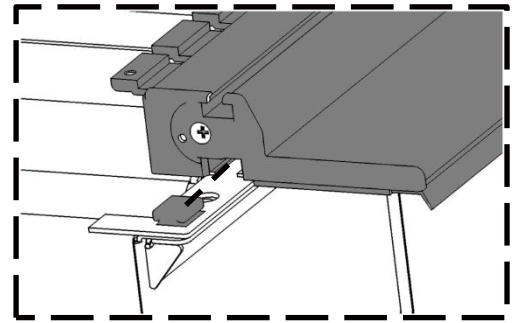
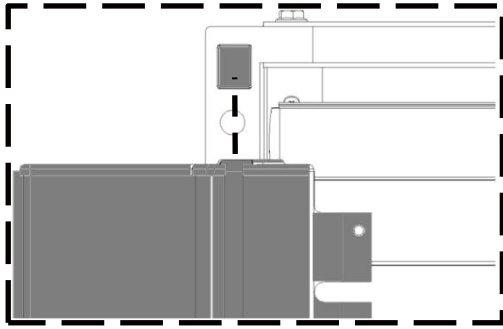


Tips: Avoid excessive operation leading to product damage.

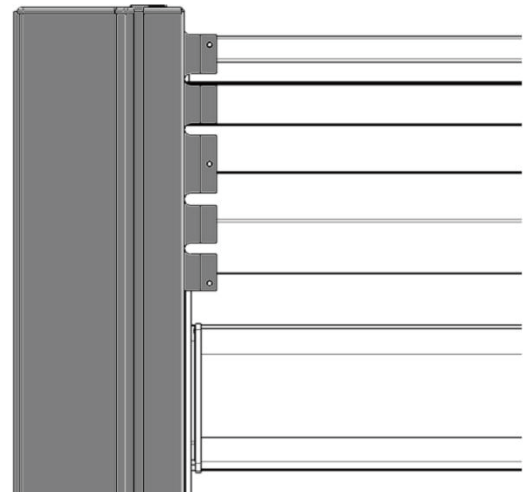


Lift the side bar up 10° and then out 10°;
Slide the roller into the side bar chute.

7

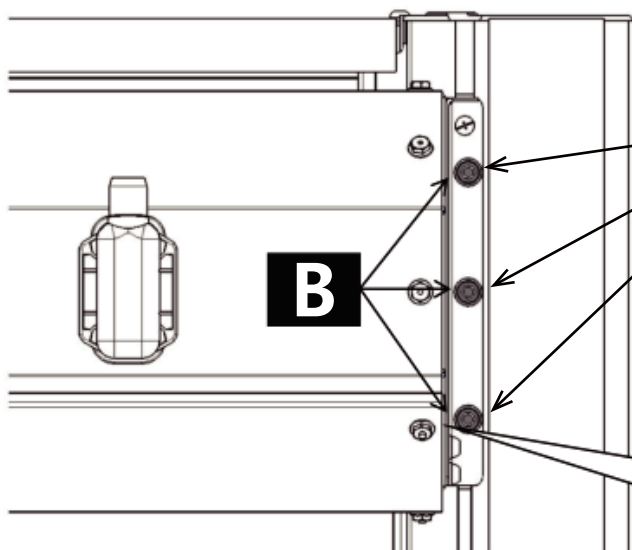
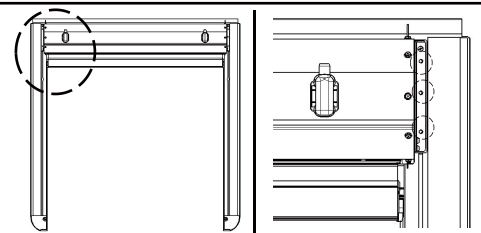


Tips: Avoid excessive operation leading to product damage.



Align the side bar groove with the raised T-block and push the side bar until it can not move forward.

8



Sliding nut



Note: After the first screw is halfway in, start installing the second screw. Fully tightening the first screw may make installing the second screw difficult.

USE: **N2**



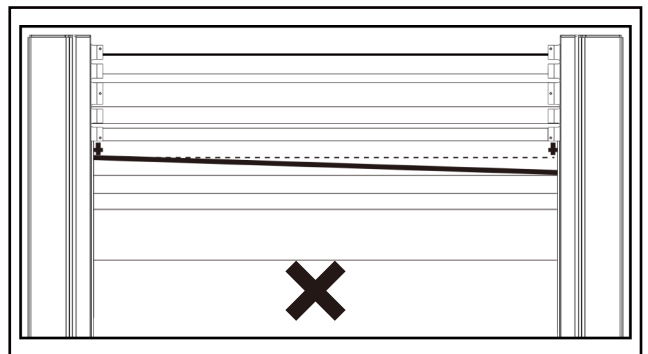
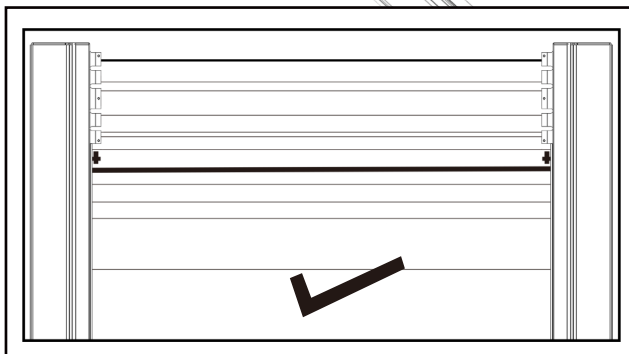
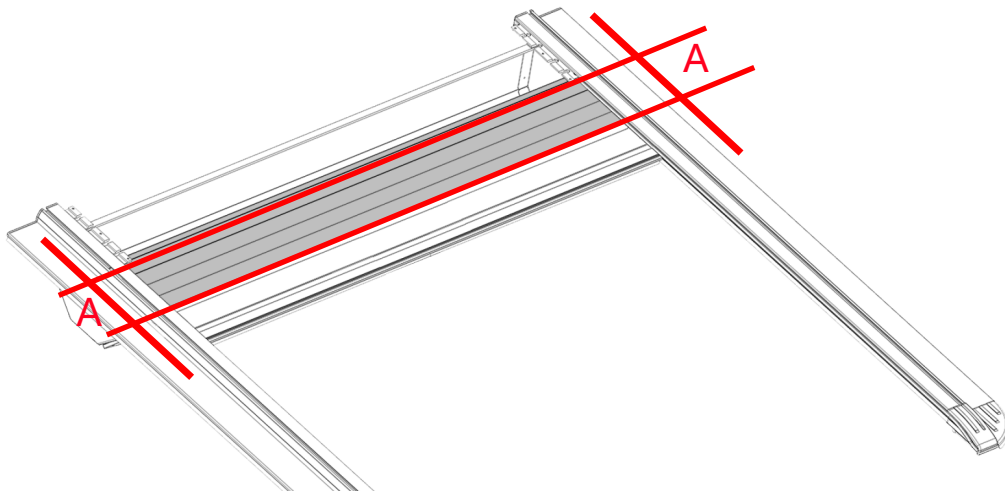
S=5

Using a (N2) hexagon wrench, tighten the (B) Bolt.

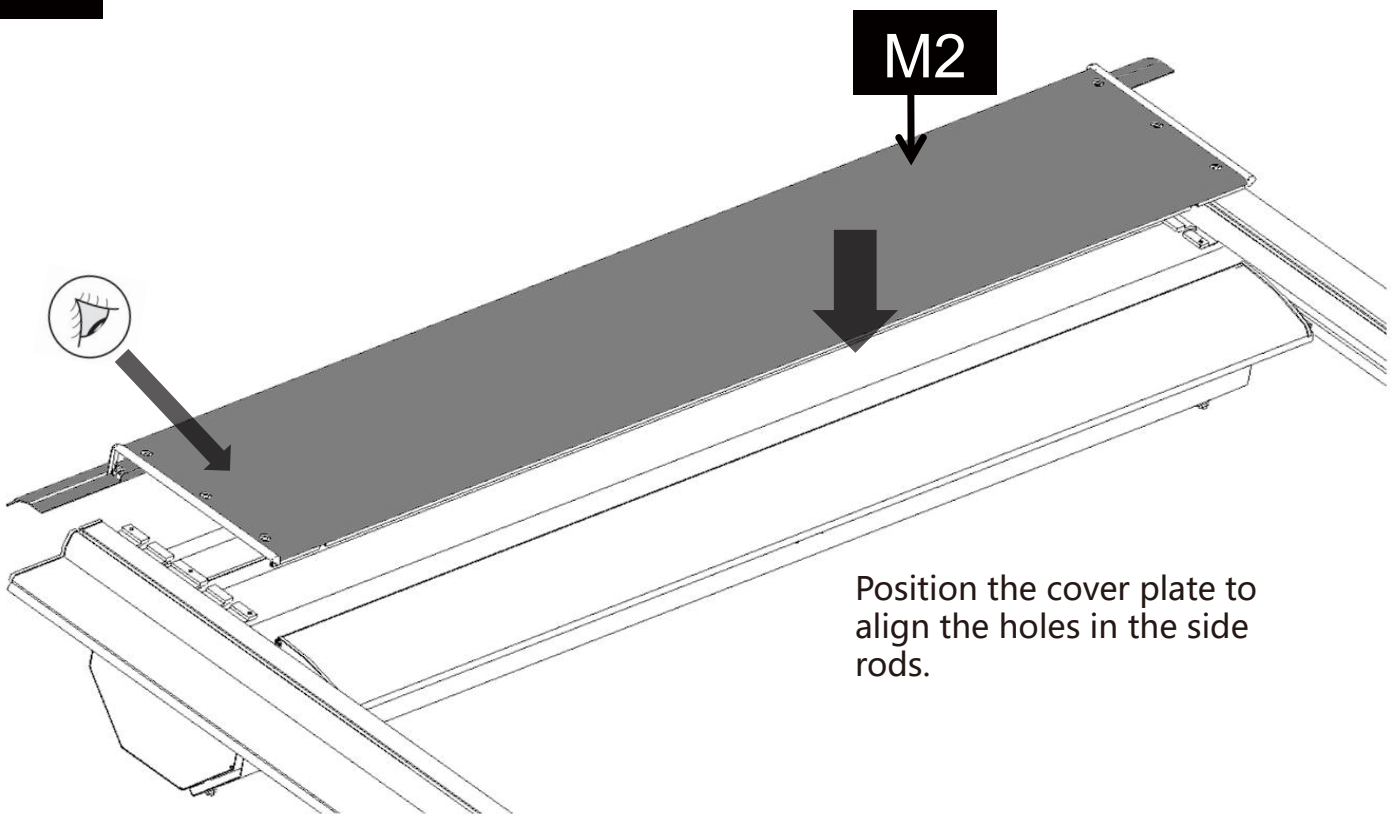
TIPS: This operation need to reverse the canister. If the bolts can not be fixed, please adjust the side rail and the canister hole alignment.

9

Before fully fixing the side bar, make sure that the roller shutters are in line (distance A = A).



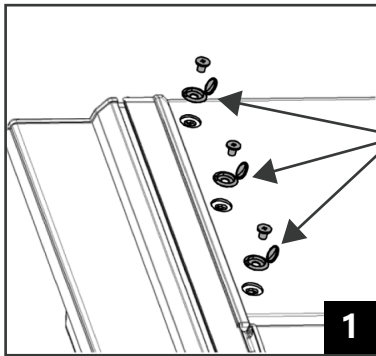
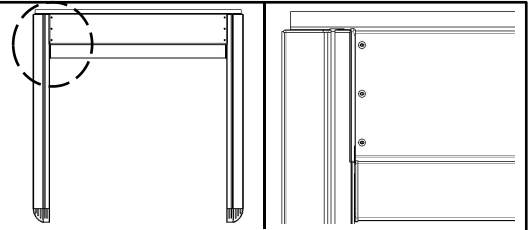
10



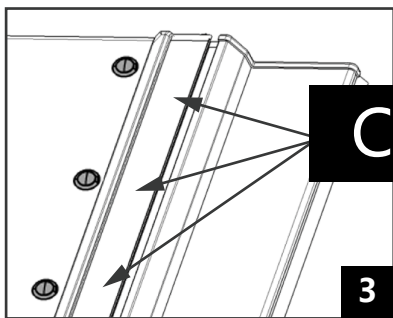
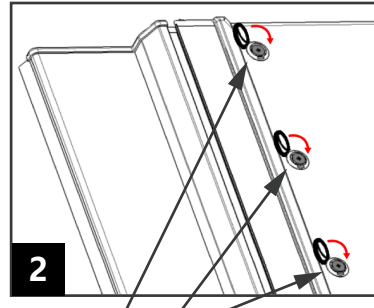
Position the cover plate to align the holes in the side rods.

TIPS: The cover needs to be aligned, taking care not to scratch the box.

11



C



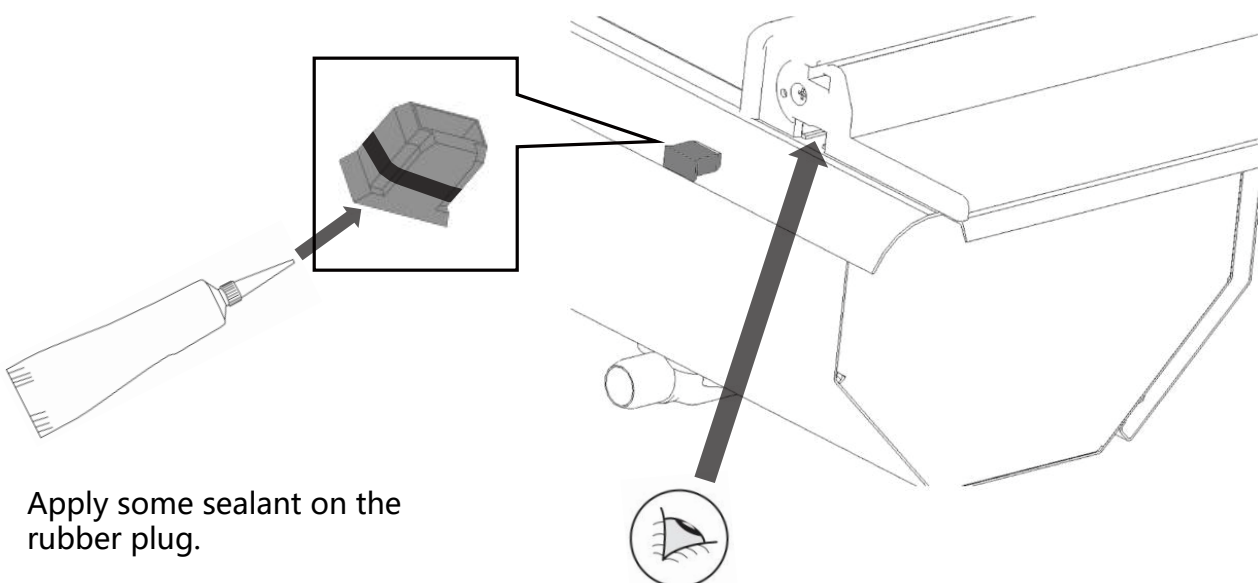
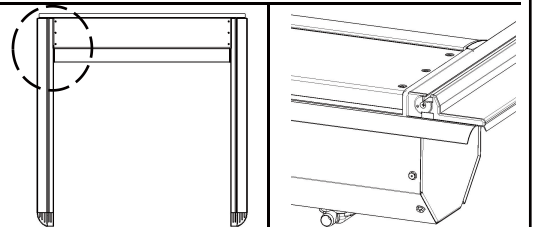
C



The holes on the cover plate are arranged with (C) base and bolts in turn. Tighten the bolts using a (N2) cross wrench. Finally close the (C) lid.

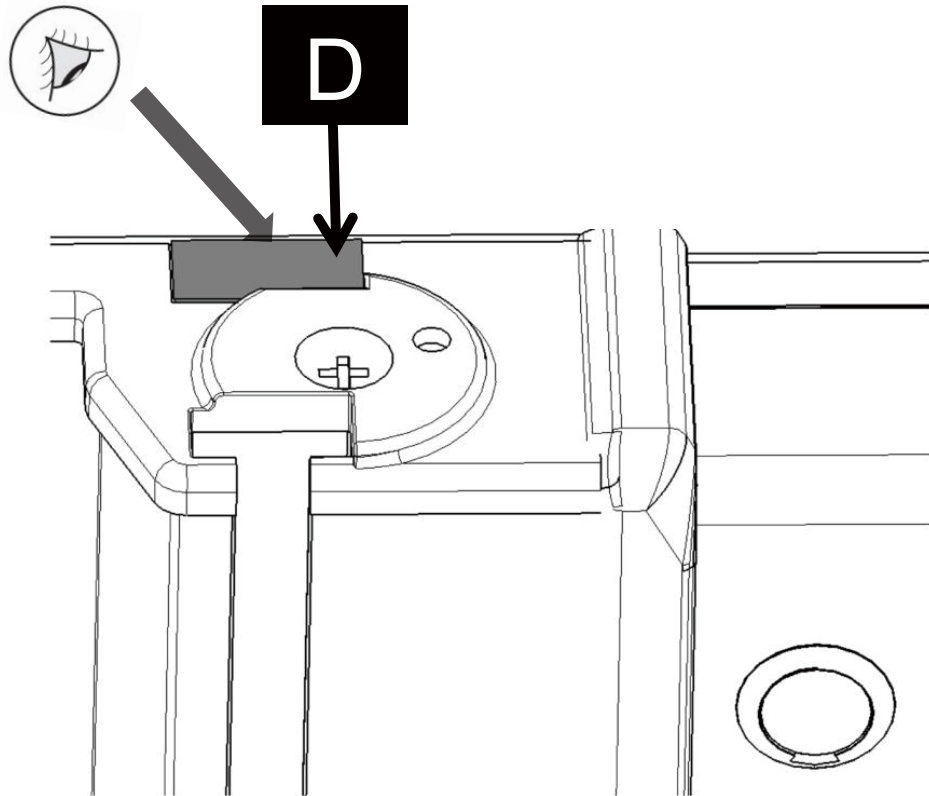
TIPS: Pre-tighten the left side bolts first, then tighten them all at once after installing the right side bolts.

12



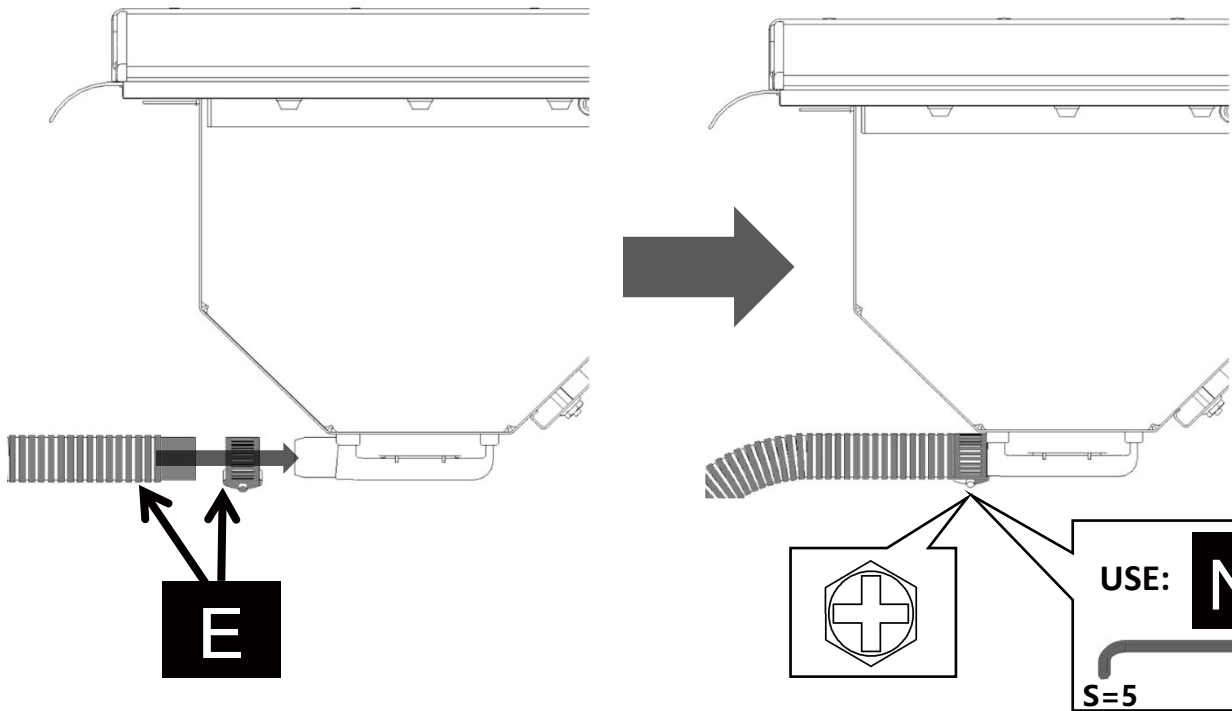
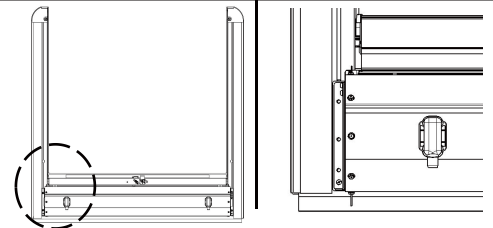
Apply some sealant on the rubber plug.

Tips: The narrower portion of fitting D should be oriented downward.



Place (D) at the front end of the side bar as shown.

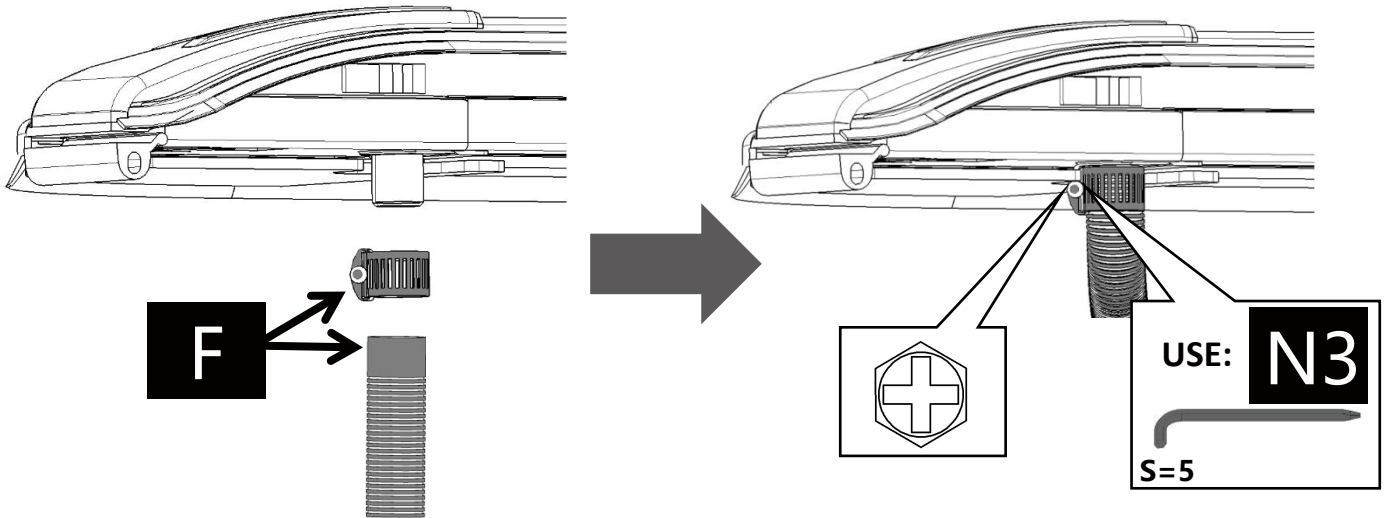
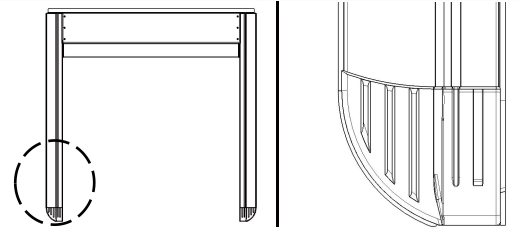
13



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

Tighten the (E) bolt using a (N2)
hexagon wrench.

14

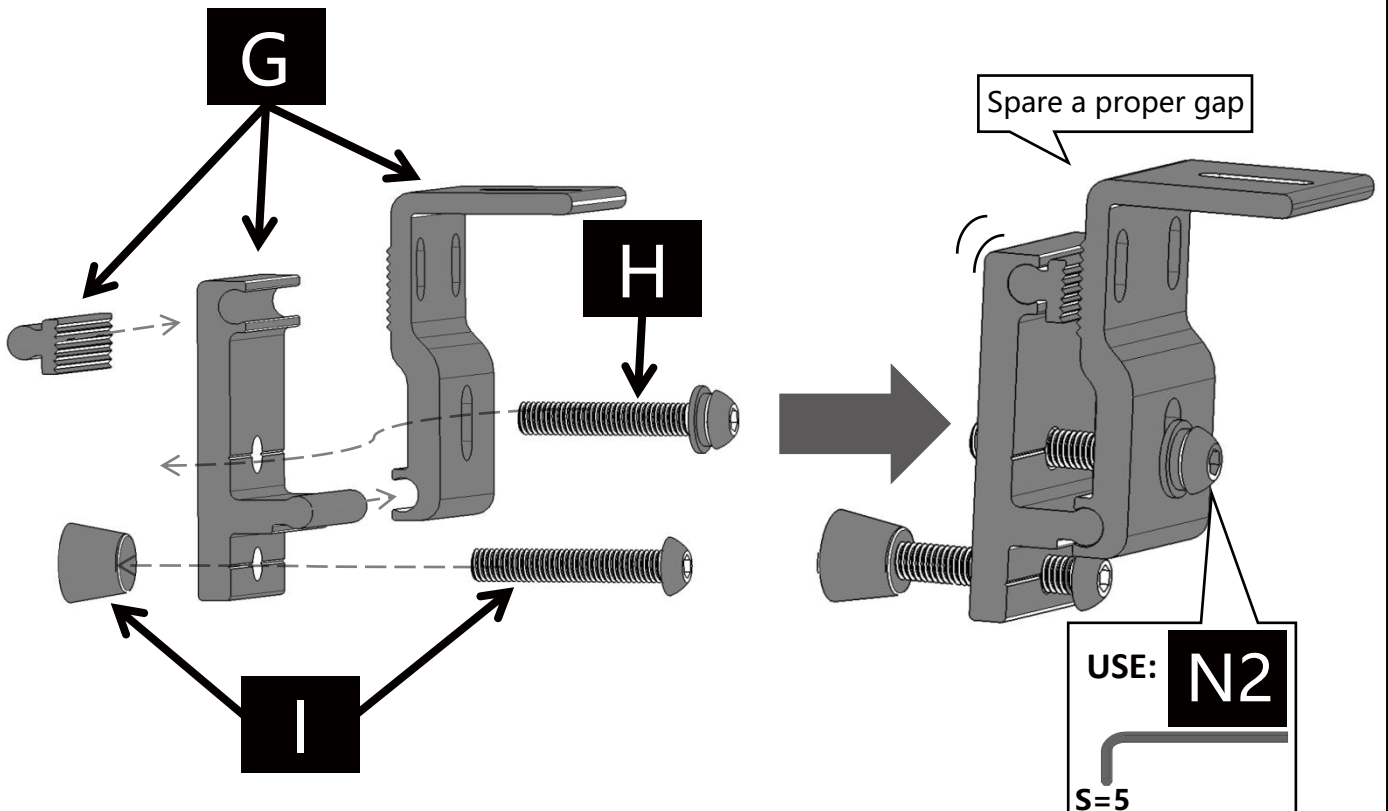


Tips: Install the drain tubes consistently.

Fix bolt on part F with wrench.

15

Bracket shapes and assembly methods may vary depending on the vehicle.

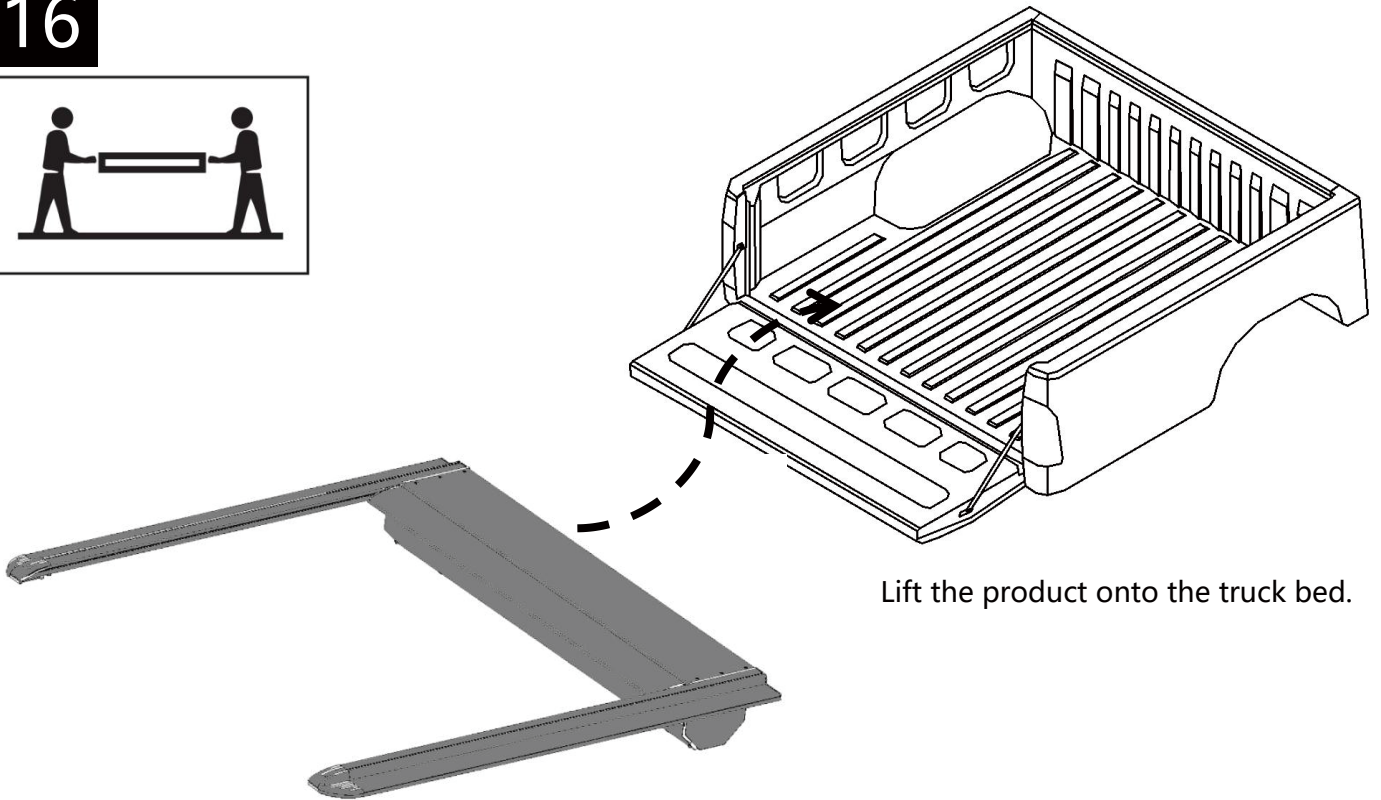
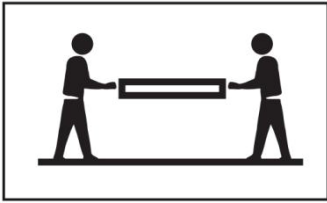


Tips: Six pieces in one set. Do not tighten, to spare a gap for installation on the vehicle.

Assemble part I, G, H together, and pre-tighten the bolts with wrench.

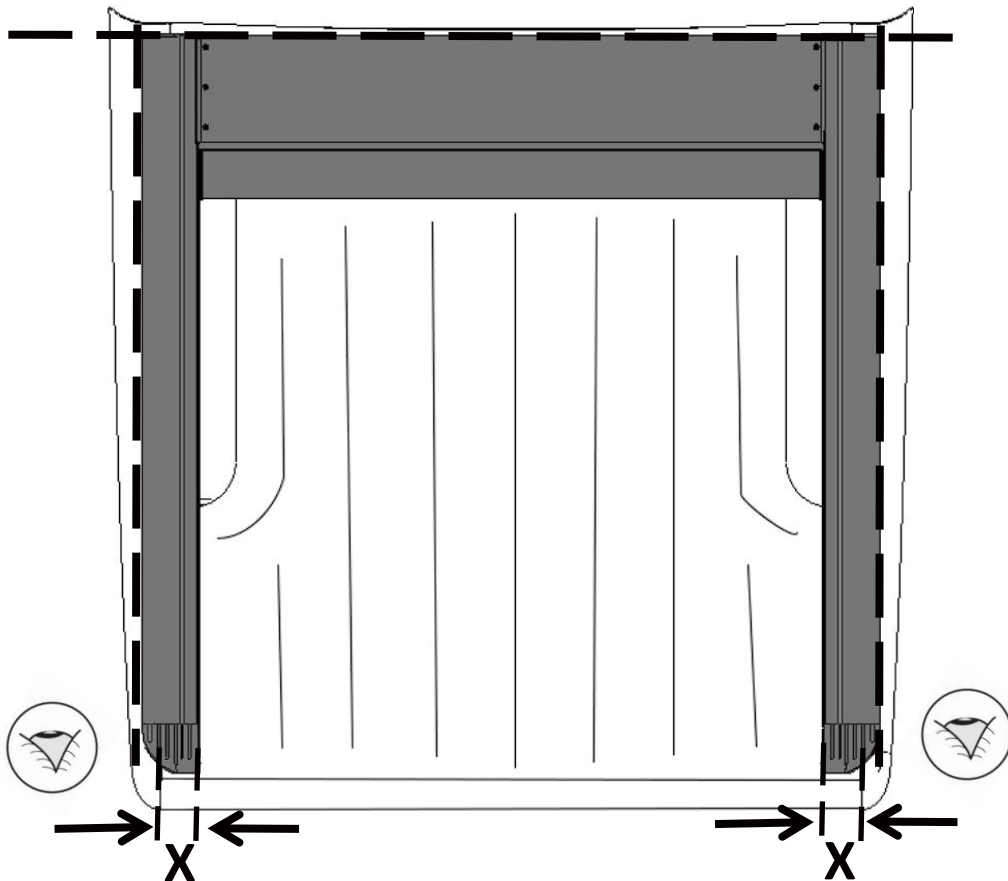
2.3 Installation

16



Lift the product onto the truck bed.

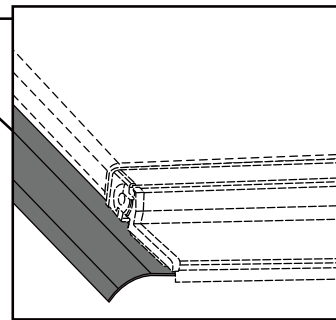
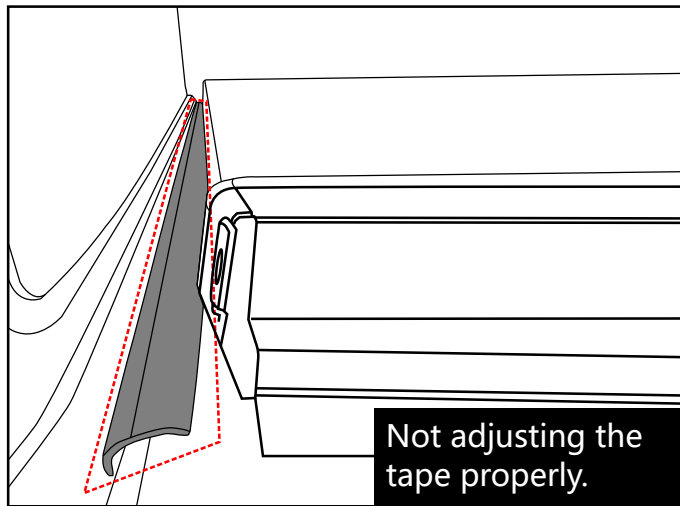
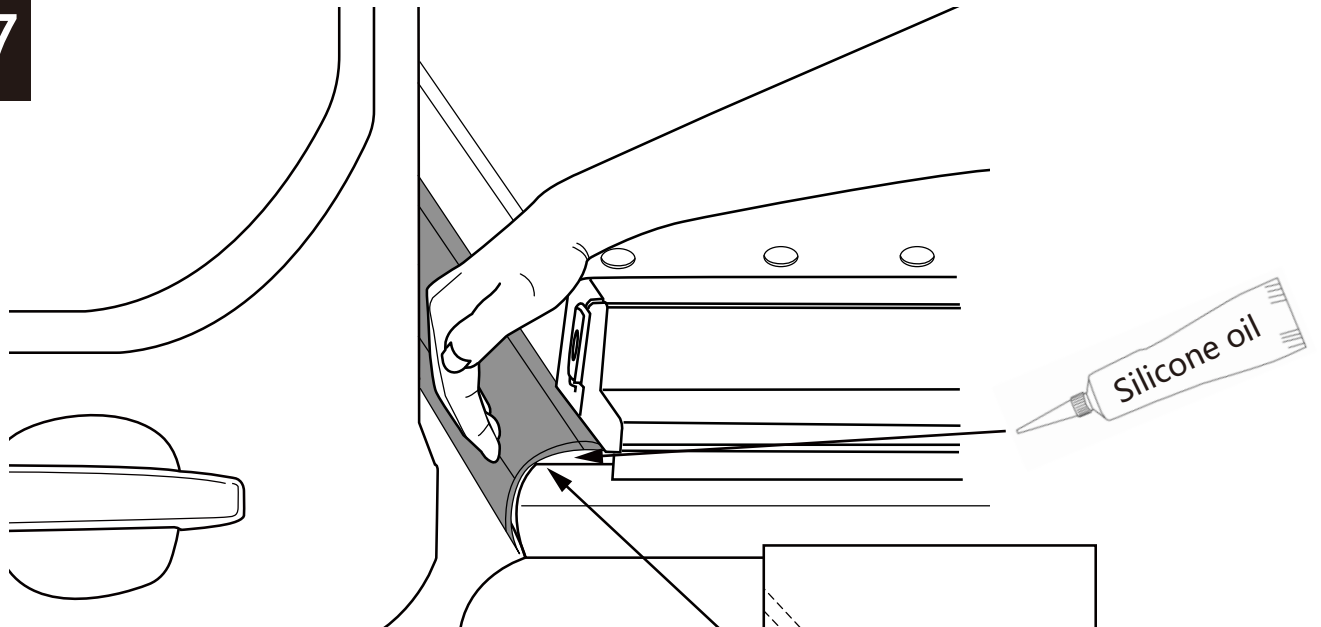
Tips: Installation requires 2 people to lift the product onto the truck bed for safety of personnel and product. Please pay attention to avoid any scratch on vehicle and product surface.



TIPS: If the end cap is not covered on the tailgate for 1-2cm, you need to move the cover backward slightly.

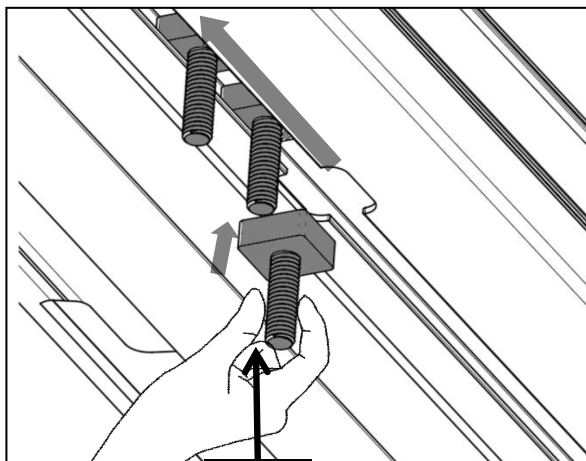
Push the roller to the end; Keep the same distance on both sides.

17

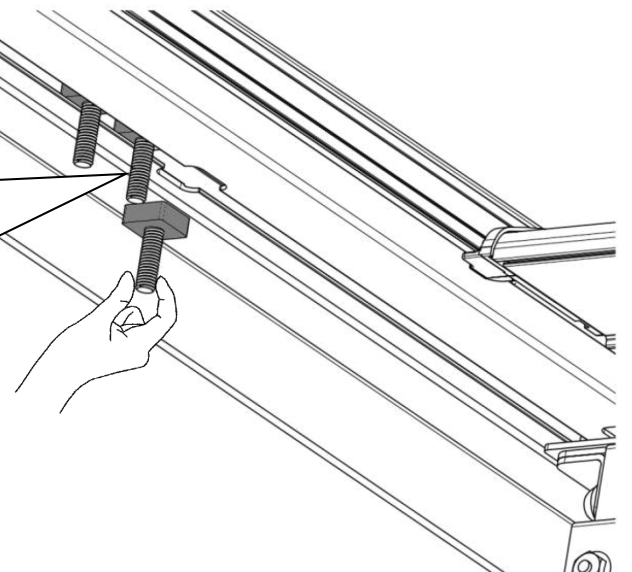


We lengthened the waterproof tape, side rails after assembly need to let the side rails neatly pressed waterproof tape to improve waterproof.

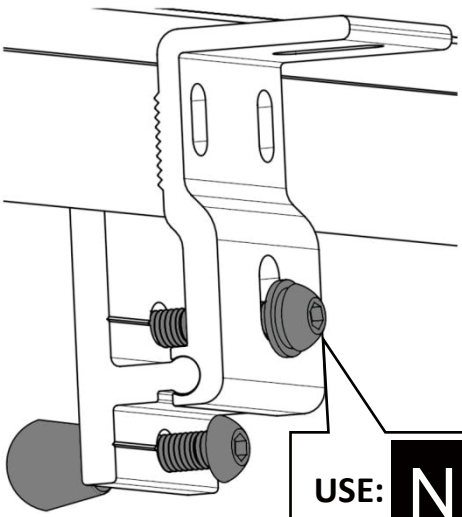
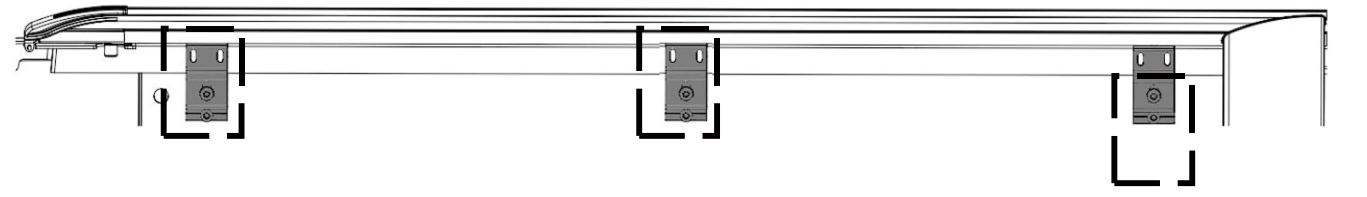
18



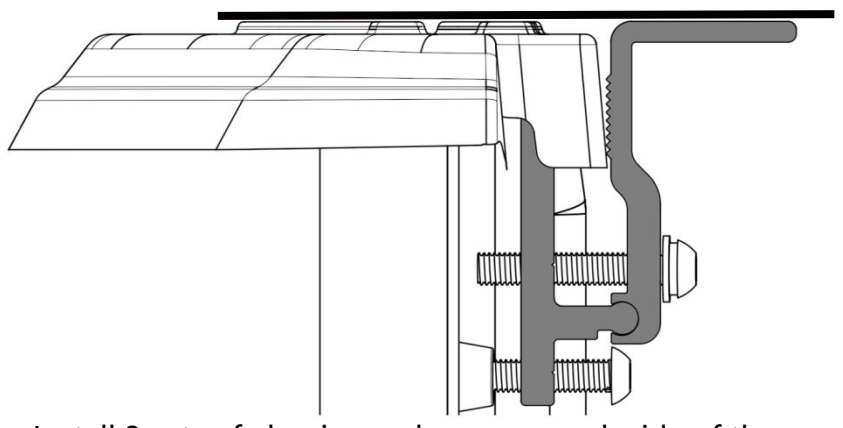
J



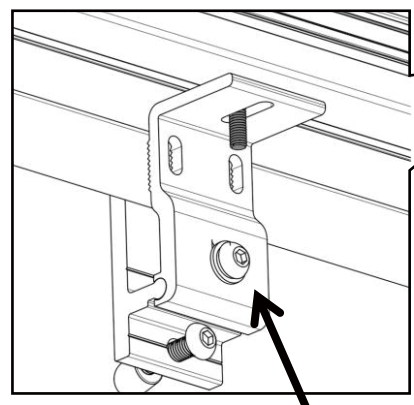
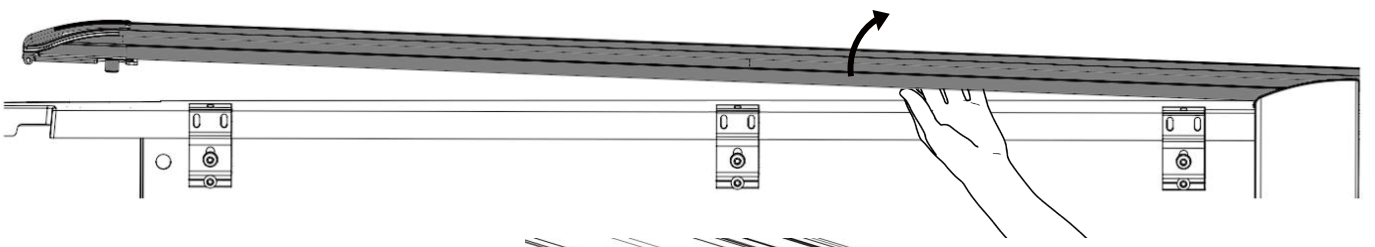
Place the fittings J into the slots next time the side bars are slid, 3 on each side (half of the total) The number required varies for different models.



USE: **N1**
S=5



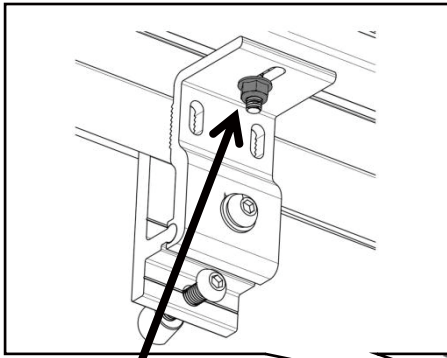
Install 3 sets of aluminum clamps on each side of the car. The aluminum clamps are flush with the car. Tighten the aluminum clamp bolts with (N1) hexagon wrench as shown. Aluminum clamps are installed with the cross section of the carriage, as shown. (when installing 3 groups of aluminum clips, install the aluminum clips as close as possible to the front, middle and rear ends of the car).



J

Slightly lifting up the side bar, and then insert bolt into the bracket.

20



K

USE:

N3

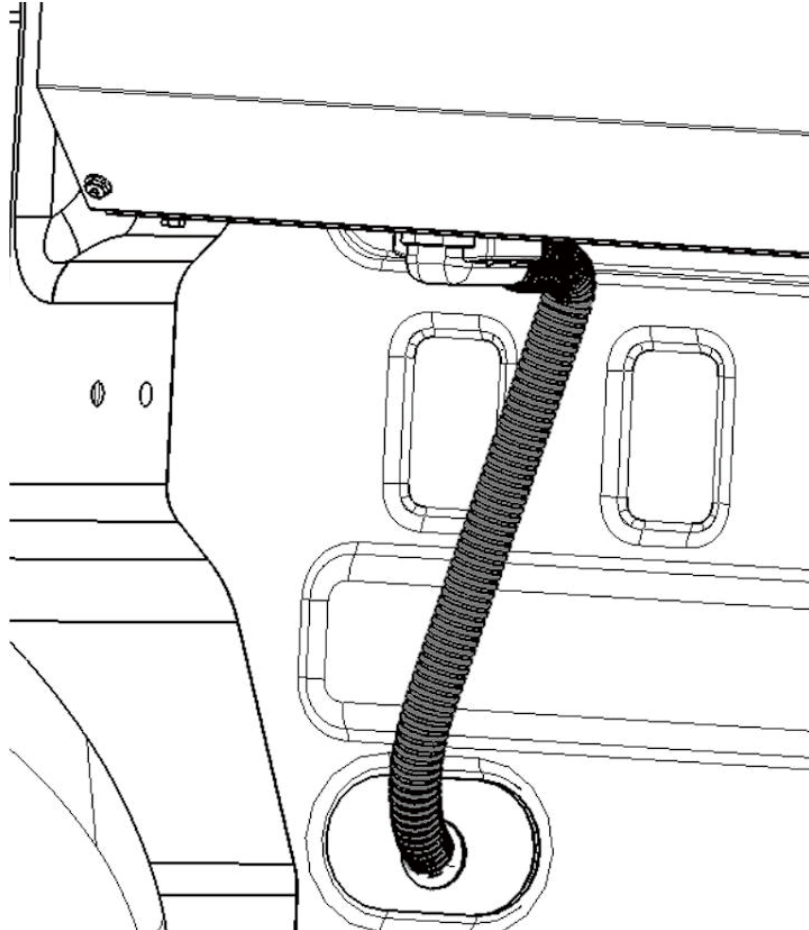


S=8/10

Tips: Do not tighten completely, just pre-tighten a little bit so the side bar can still be adjusted.

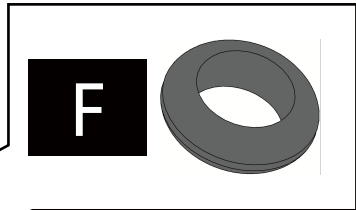
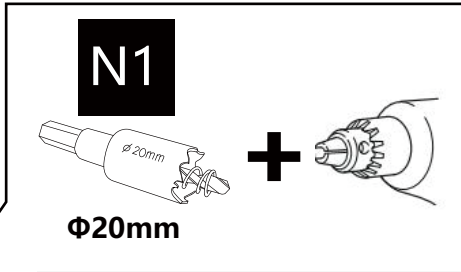
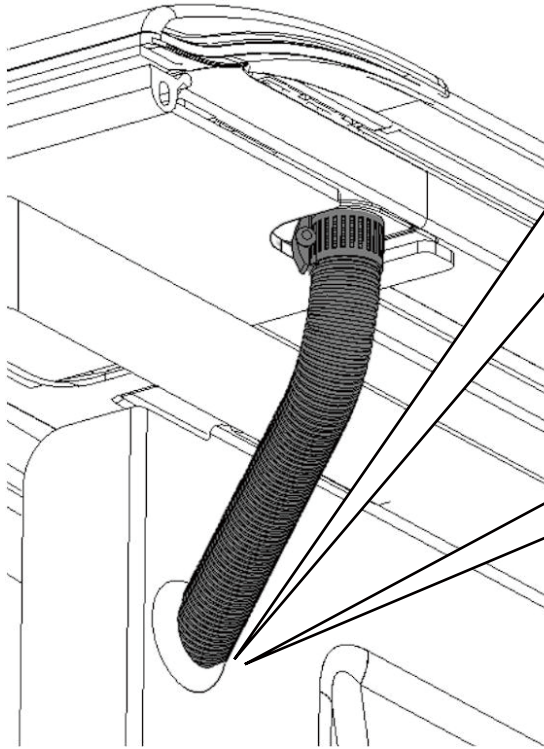
The (K) nut is assembled with the (J) Bolt, and can be preloaded by using a (N3) wrench without being screwed into a firm state.

21



Thread the canister drain tube out of the truck bed.

22



1. If there is an original hole around the end of the side rod, the side rod drainage pipe can be inserted out of the carriage,
 2. If no hole, you can use the φ 20 mm hole opener with hand drill to remove Burr Cape, also need to install accessories (F) apron.

2.4 Wiring

23



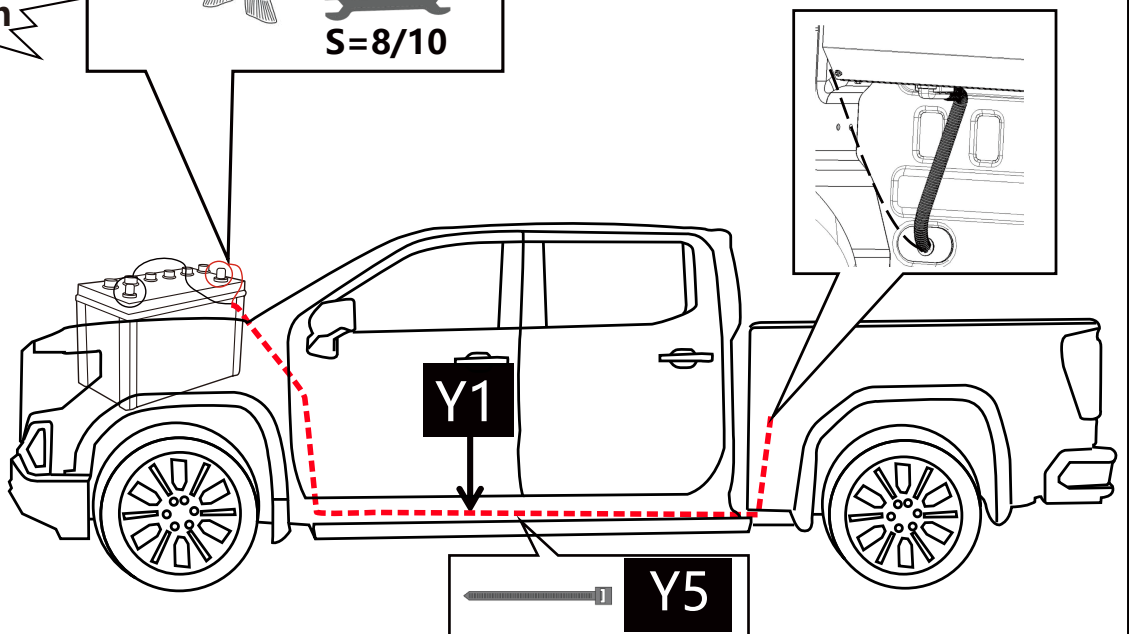
USE:



N4

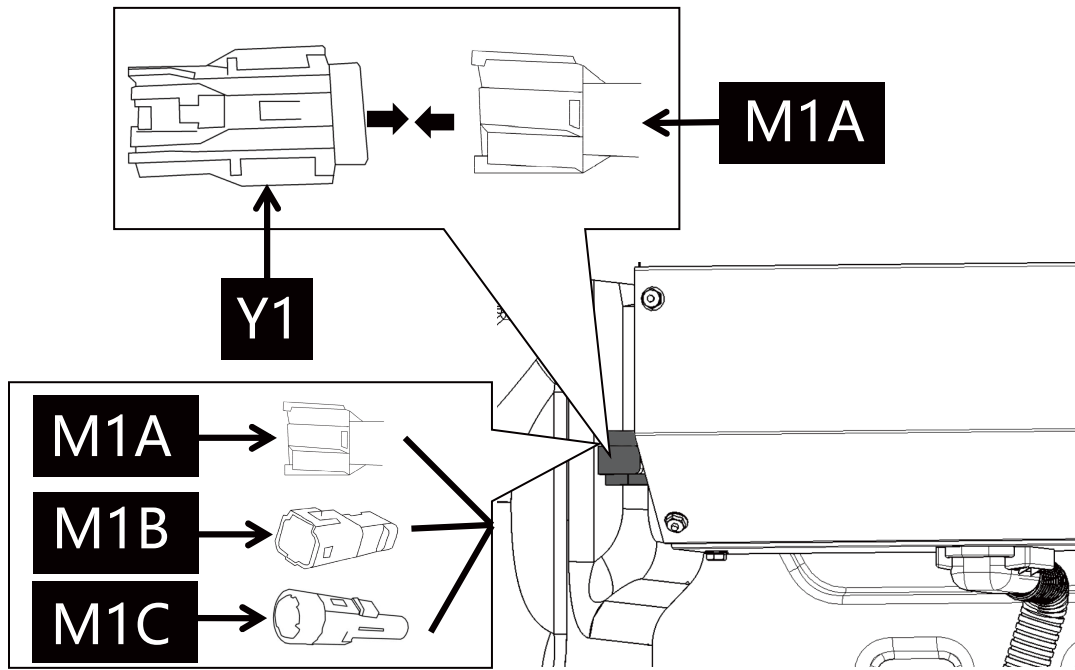


S=8/10



Wear the insulating gloves and open the hood. Loosen the bolts at the positive and negative pole of the original vehicle battery, and install the harness Y1 in the corresponding position of the battery, Tighten the bolts. Route the rest of the harness from the bottom of the car to the trunk bed (fix the harness with Y5 cable ties) and pull it out through the hole of drain tube. Connect harness Y1 (in gray color) with roller gray interface M1A. Harness route need to avoid exhaust pipes, moving parts, vulnerable parts etc., thus to protect the vehicle as well as avoid harness damage.

24



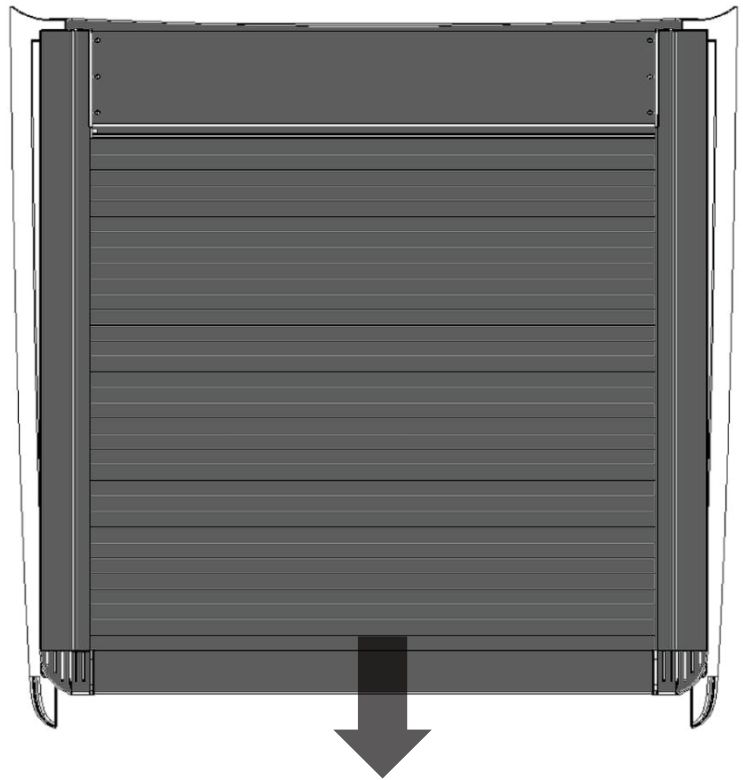
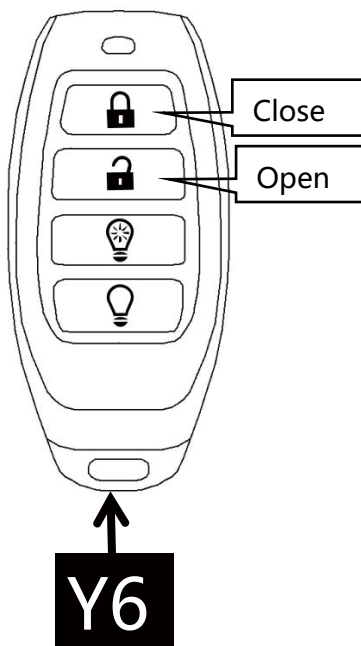
Take the gray interface and connect the power cable M (gray) to the plug M1A.

TIPS: : Please distinguish the above 3 different connector interfaces.

2.5 Adjust/check

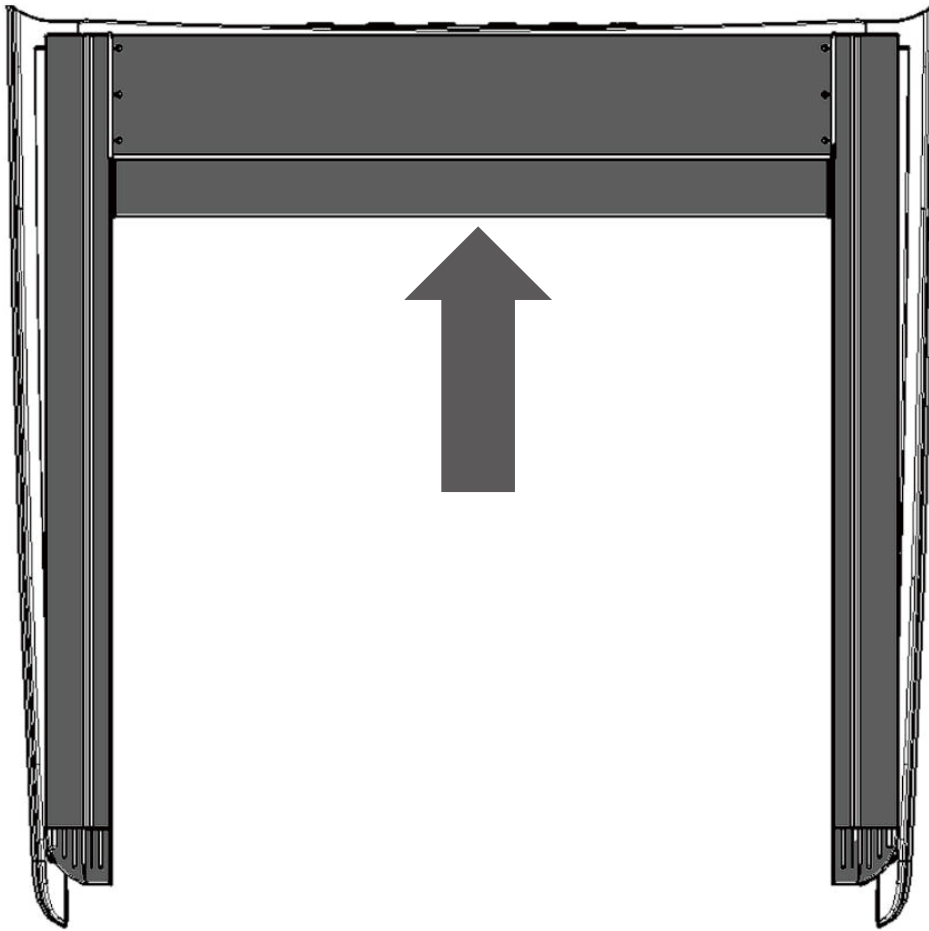
Option1: Gauge M5

25

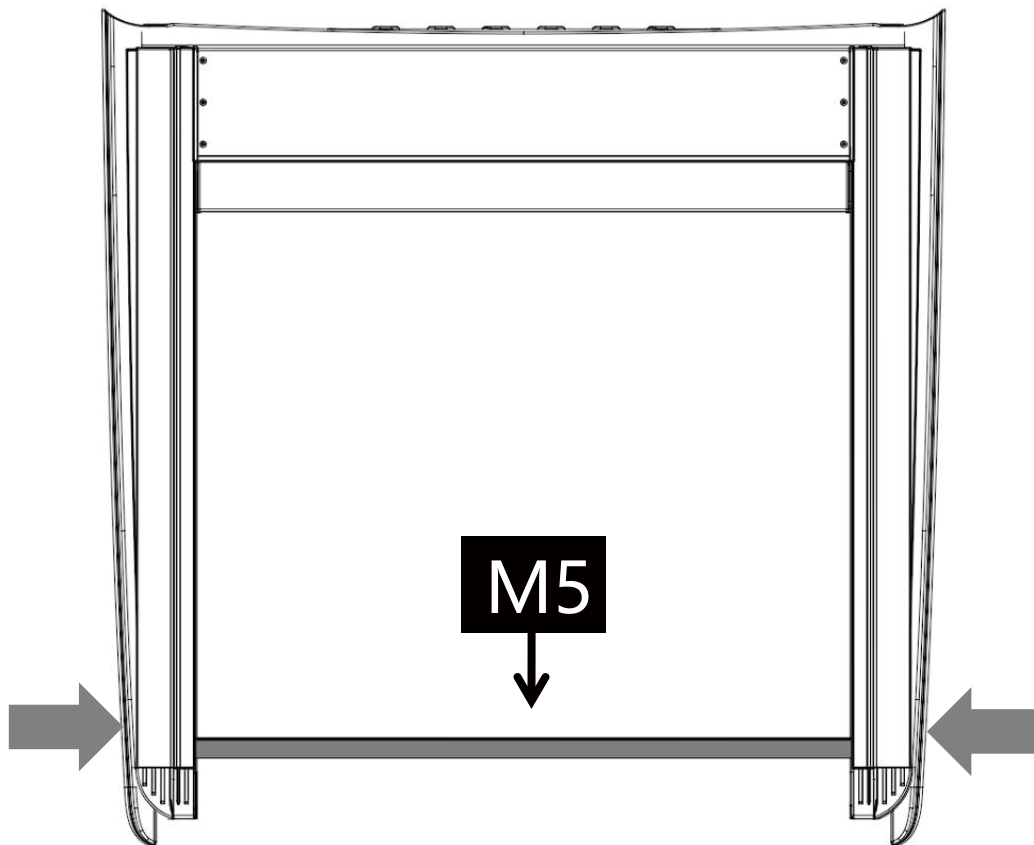


Use (Y6) electronic remote control to click the key/unlock key to test the normal operation of the roller shutter.

26



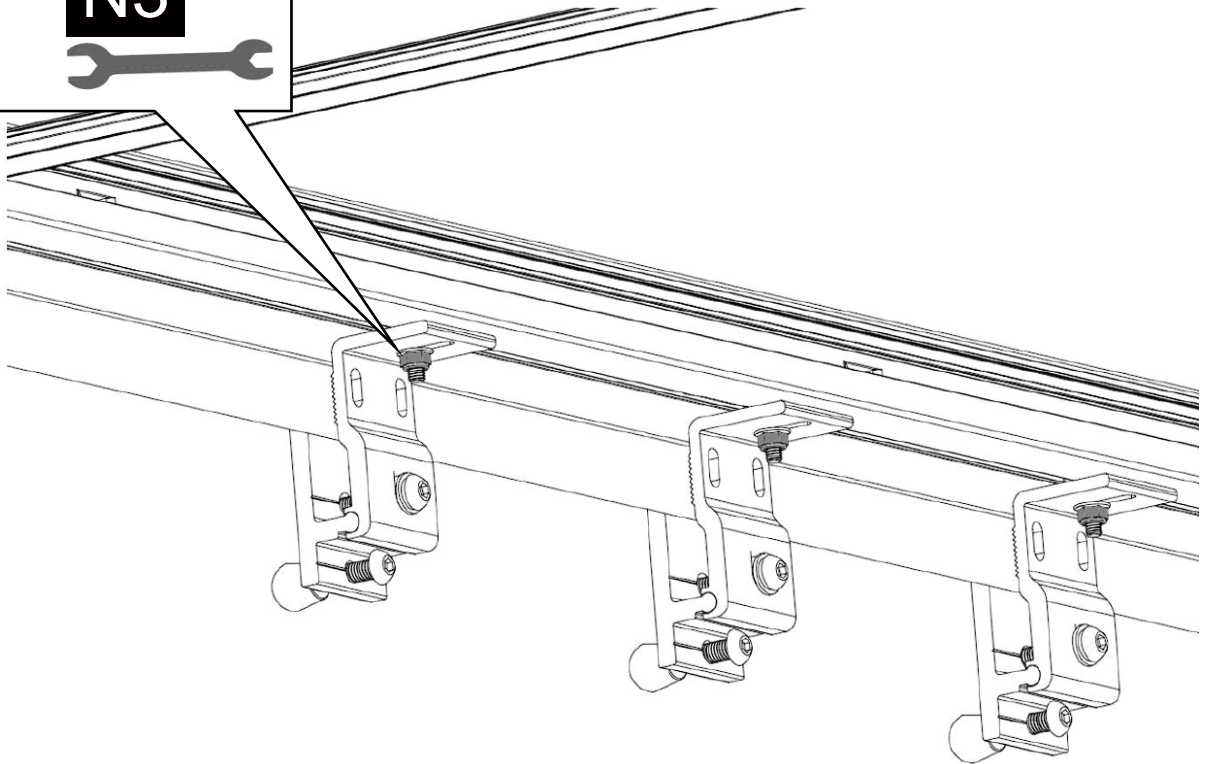
Close the cover with remote key.



Place gauge M5 into the side bars, move back and forth several times to test whether the roller is well installed. Then push against the side bar end cap to the middle on both sides and adjust it with slight force.

27

USE: **N3**



Tips: This is another way of adjustment.

Tighten the nut of the aluminum clamp using the (N3) wrench.

Option2: Gauge M

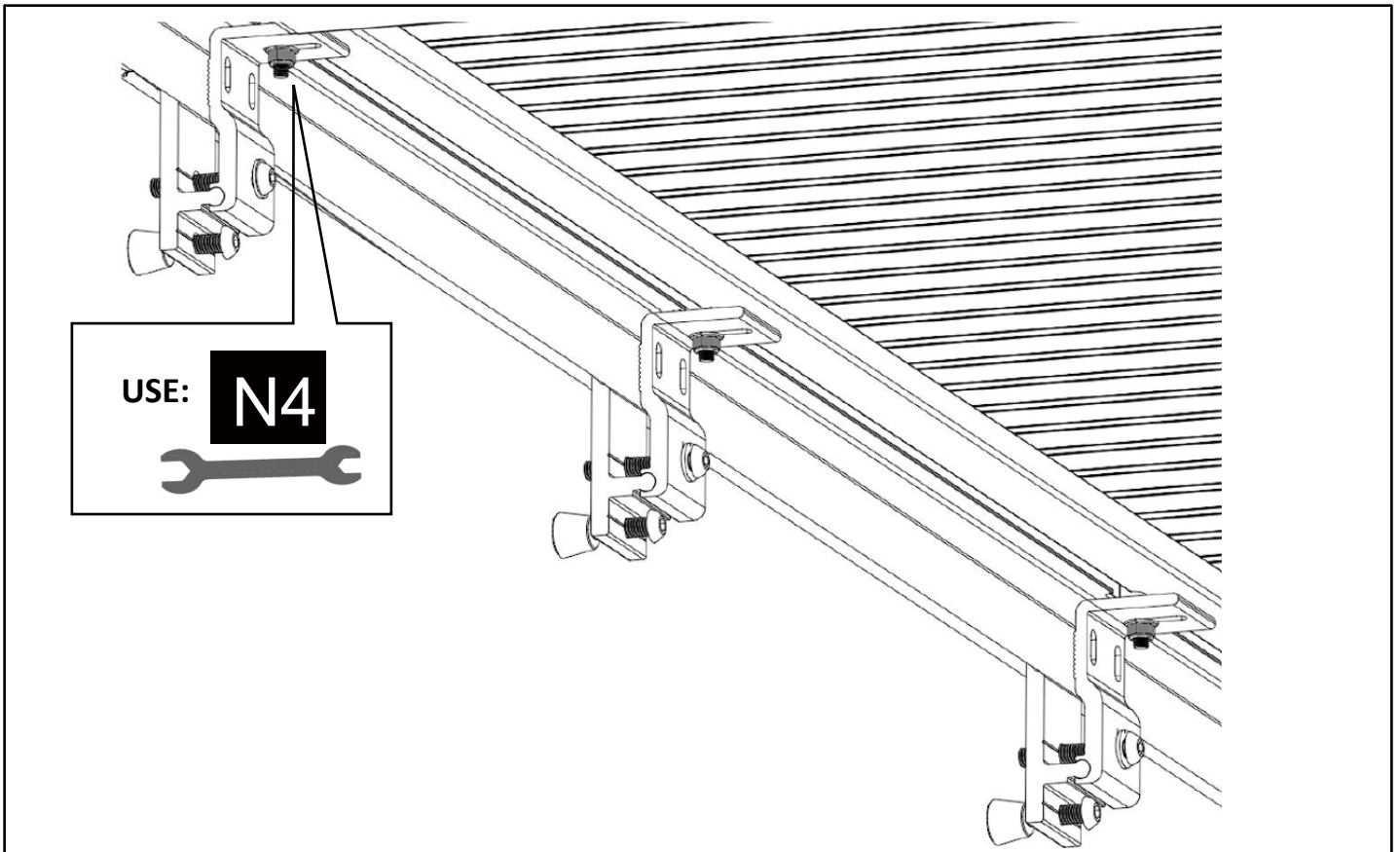
28

M



Tips: This is another way of adjustment.

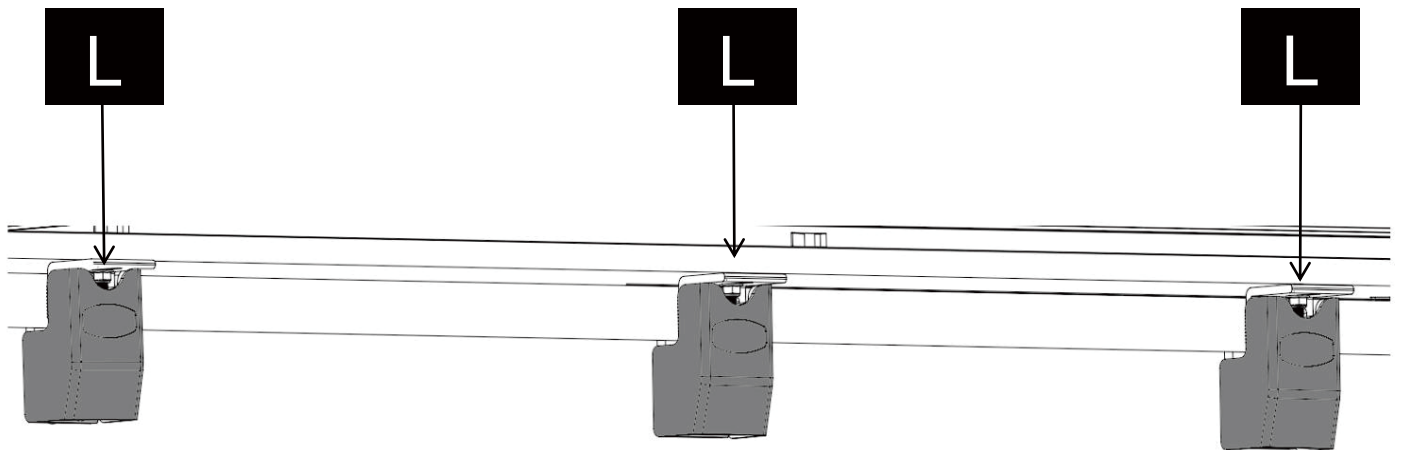
Close the roller, and place the gauge M between tailgate bar and side bar ends, gap between 7 -9 mm is the best state.



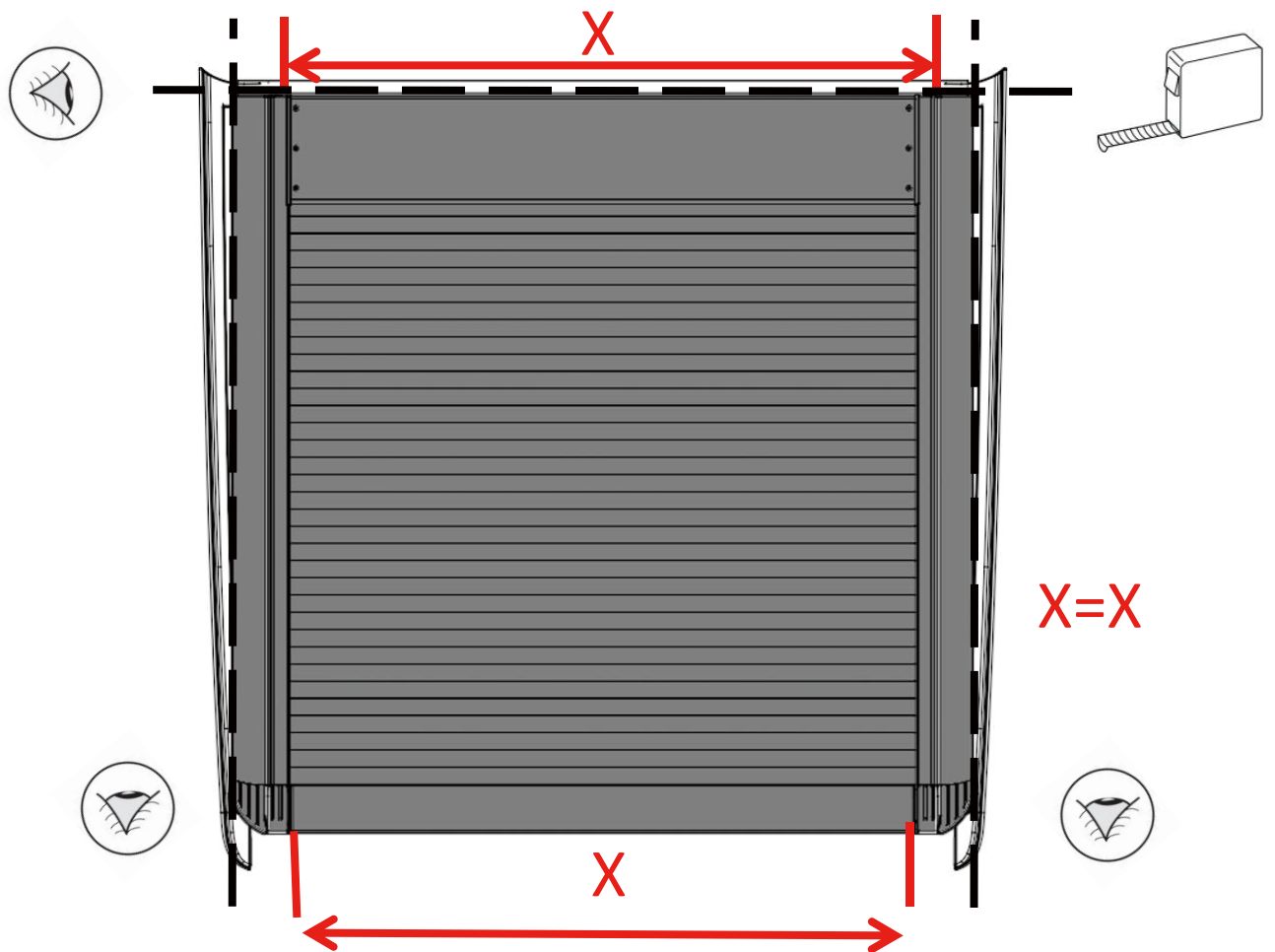
Tips: Fix the nuts on both sides first, then take away the gauge M.

Use a wrench (N4) to tighten the nuts on both rear brackets, then open the shutter and tighten the nuts on all brackets.

29



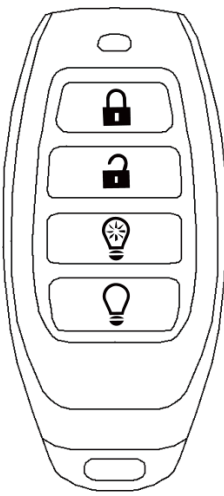




Check that the bracket nuts are fully tightened and that the (L) aluminum clamp housing is installed.



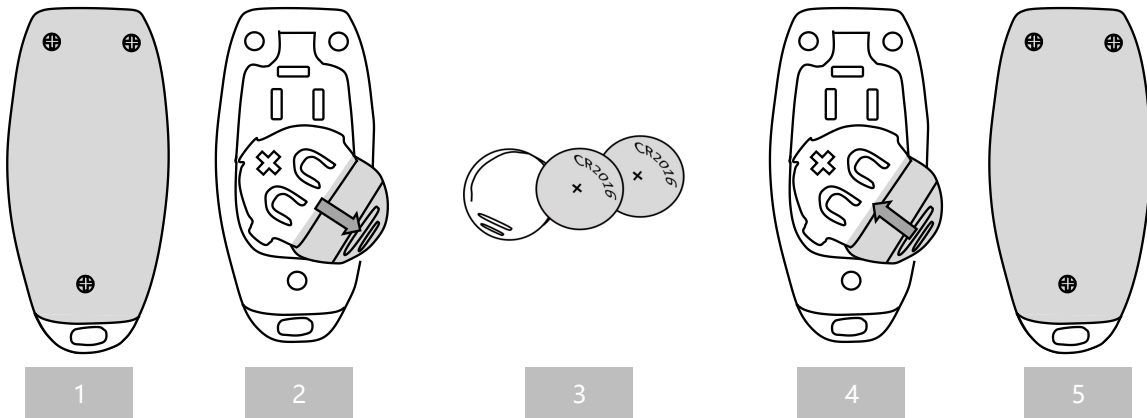
Make sure all the bolts are tightened; Close the roller and see if the roller is parallel on both sides as shown in pic. Measure if the distance are the same in front and rear (with- in 2mm difference is the best state).

3. Description

3.1 Introduction to remote control.

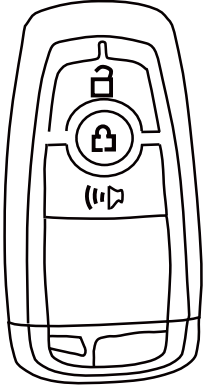
	Button	Button Name	Description
		Close	1. Press the button to close the cover if its under static mode. 2. Press the button to stop the cover if its under moving mode.
		Open	1. Press the button to open the cover if its under static mode. 2. Press the button to stop Light on the cover if its under moving mode.
		Light on	1. Press the button to light on if the light is off, and the brightness is restored to the previous brightness. 2. Press the button to switch to the next brightness level if the light is on(level 3 brightness in cycle switch) .
		Light off	Press the button to turn off the LED light.

Replace the battery with the remote control:

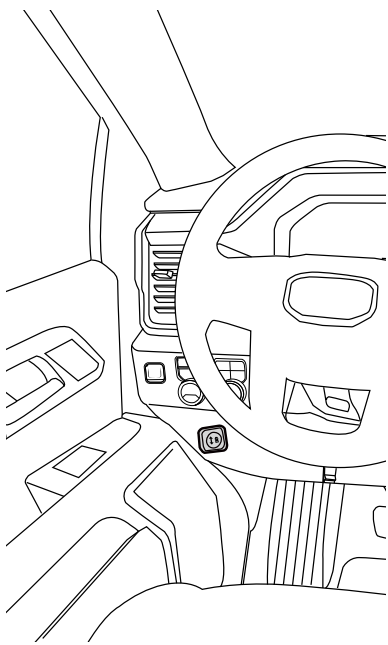


Remote Key Extras			
Key combination function	Sound of successful operation	Operation	Remarks
Code Match	1 long and 1 short	Press both Open & Close button at the same time.	The operation is effective within 5s after power-on.
Open/close the cover in place	1 Long	Press Light Off button 3 times.	No time limits for this operation, but the 3 times press must be continuous.
Initialize the cover position	1 long 2 short	Press both Light On & Off button at the same time twice in 3S.	This operation if effective only when the cover is completely closed.
Adjust anti-pinch strength	1 long 3 short	Press both Close & Light Off button at the same time twice.	3 strength levels switch in circle (the default setting is medium strength).
Adjust the running speed	1 long 4 short	Press both Open & Light On button at the same time twice.	3 strength levels switch in circle (the default setting is medium strength).


3.2 Key Fob Control

	Operation	Cover State	Remarks
	Press Unlock 3-5 times continuous	Cover open	Press 3 to 5 times in 2 seconds to be effective, more than invalid.
	Then Press Unlock 1 time	Cover stop	This operation is only effective under cover moving status (press Unlock 1 time to stop the cover); If not under moving status, this operation is invalid.
Press Unlock twice	Light on	When the cover is under closed status, press Unlock twice in 2 seconds, then the light on (time-out invalid).	

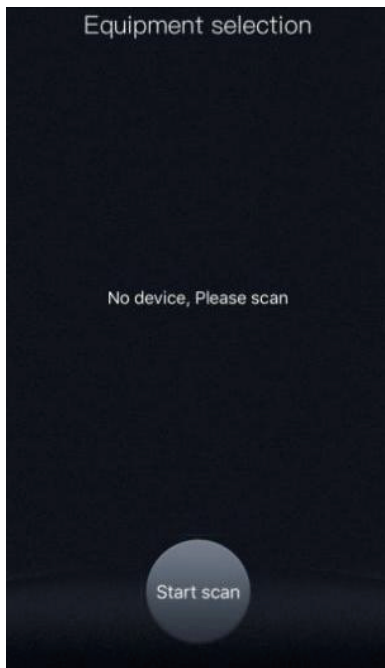
3.3 Front Button Control

	In order to facilitate user's operation, we offer an extra option with button control near driver's seat, so the user can easily control roller.		
	Operation	Function	Remarks
	Long press (about 1s)	Cover open	This operation is only effective when the cover is under closed status, after the operation of the cover to open, and in the open button light has been lit.
	Press again	Cover stop	1. When the cover is under moving status, press again to stop. 2. When the cover is stopped and under an open state, press again to close. 3. When the cover is under closed status, the operation is invalid.
	Short press	No react	To avoid mis-operation, if the cover is not activated by long press, short press is considered by the system as mis-operation, do not react.

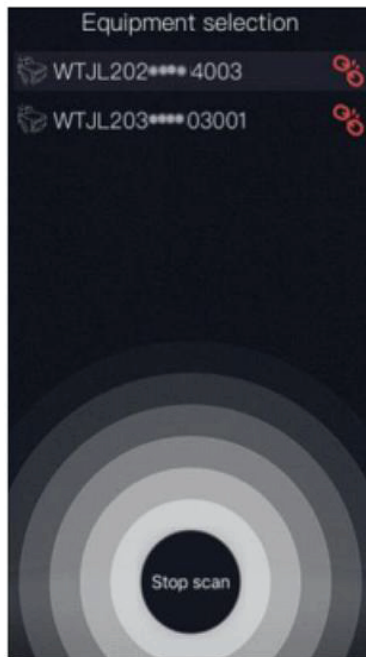
3.4 APP/Wechat Program

IOS system	Android system	Wechat app
For IOS system smartphone, please search 'Smartctr' in APP store to download.	For Android system smartphone. Please search 'Smartctr' in Googleplay to download.	 <p>Please use wechat to scan this QR code.</p>
<p>1. You need to turn on your phone's Bluetooth to connect to the cover . 2. Initial password is 123456 3. Please change the password after login.</p>		

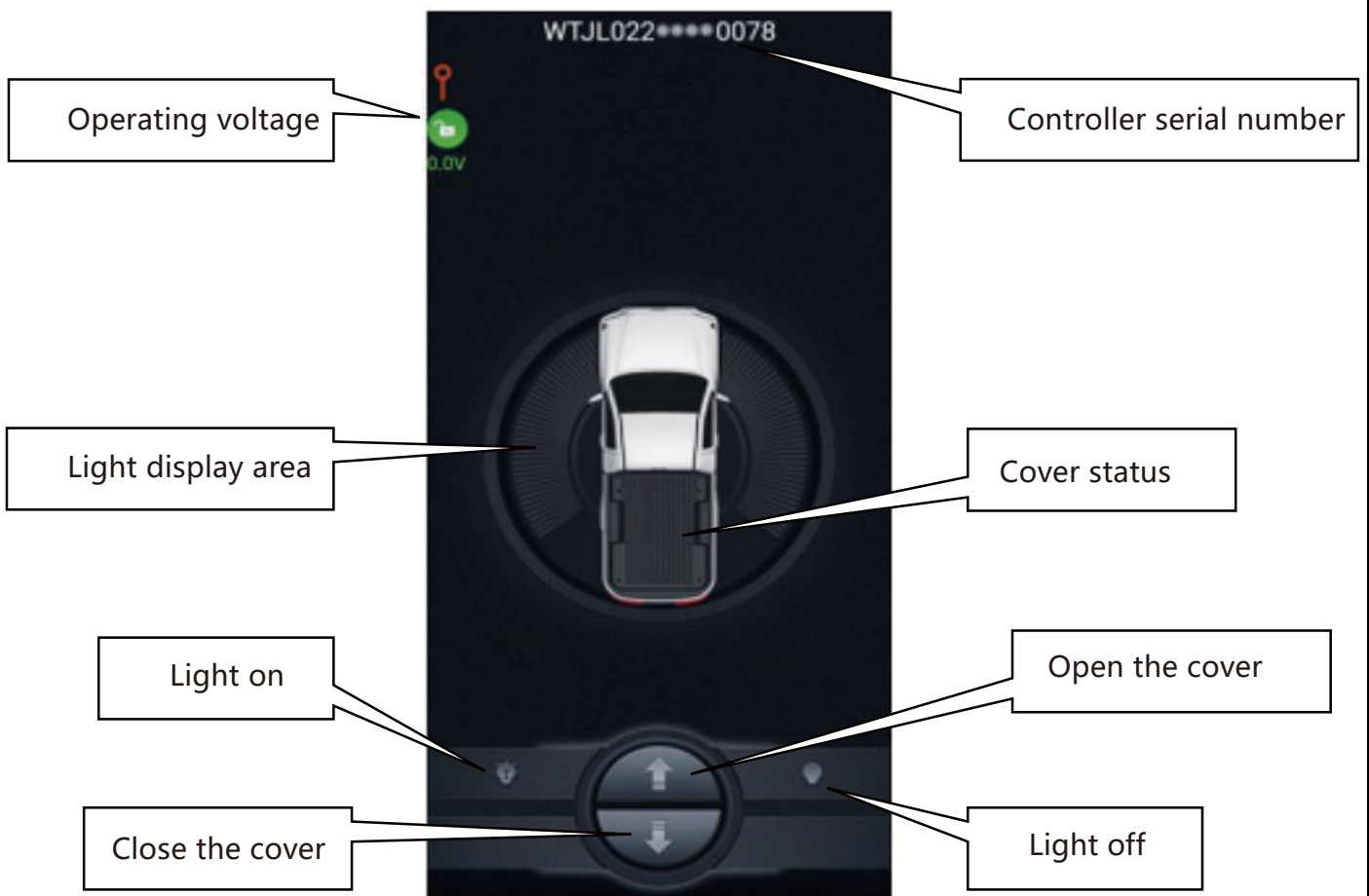
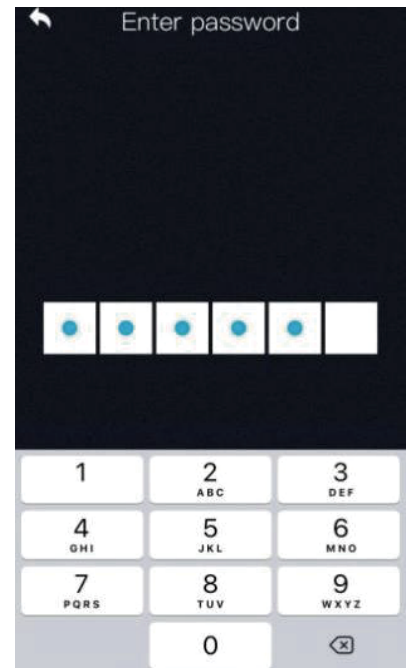
1. Enter the interface



2. Search for cover



3. Enter the password



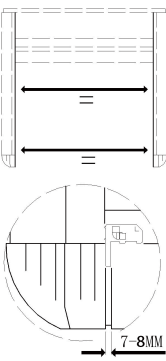
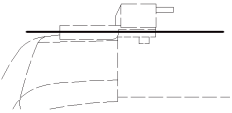
4. Maintenance and repair

4.1 Solutions to common problems.

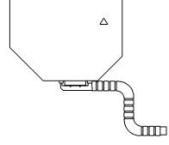
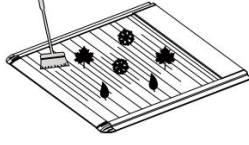
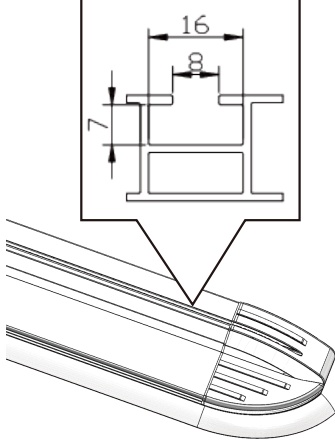
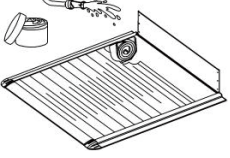
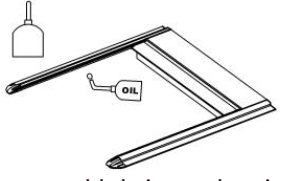
Alarm sound for abnormal operation of roller shutters

Abnormal sound	Reason	Remarks
2 short	Over current in motor operation	Operating resistance is too big. Mainly because run into obstacles, or not on time maintenance.
3 short	Time out for motor operation	Cover one-way running time for more than 15S.
4 short	No Hall signal detected	Motor or controller failure, or not well connected with the plug.

Rolling shutter failure analysis:

Number	Common fault phenomenon	Analysis	Pics	Solutions
1	Abnormal sound-2 short	1.Side bars are installed inward or outward and not placed parallel. 2.Big resistance leads to non-smooth operation. 3.Side bars deform due to heavy load for sport bar/ladder rack etc.		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. 4. Check if the side bar is deformed by the pressure of other heavy load parts. 5.Adjust the brackets of side bar installation, to make sure the side bars are parallel to the roller.
2	Abnormal sound-4 short	No Hall signal detected.		1.Unplug and replug the controller connector as well as the motor. 2.Replace the controller or motor.
3	The remote key can not control the cover	1.The cover not power on. 2.Low battery in the remote key. 3.Unmatched code with controller.	\	1.Check if the LED light on controller is flashing to confirm power supply is okay. If no power, check if the positive fuse of roller burnt out. 2.Check if the indicator on remote key is obviously dimmed or no light when you press the button, then replace battery. 3.Do code match for the remotes.

4.2 Rolling shutter failure analysis.

 Keep the drainpipe free from blockage.	 Clean the litter before use.	 Compatibility:M8 bolt.
 Clean and lubricate the canister every 6months.	 Clean and lubricate the side bars every 3months.	

5. 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: CR2016).

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!