

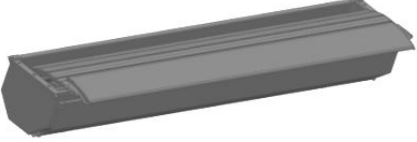
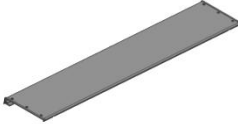





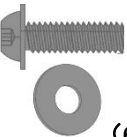
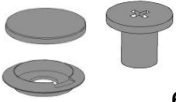

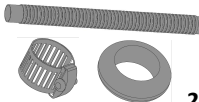
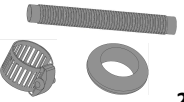



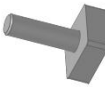





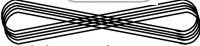








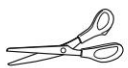

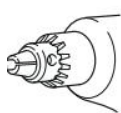

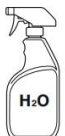
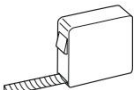
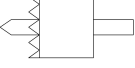

# Pickup Retractable Tonneau Cover Installation Manual

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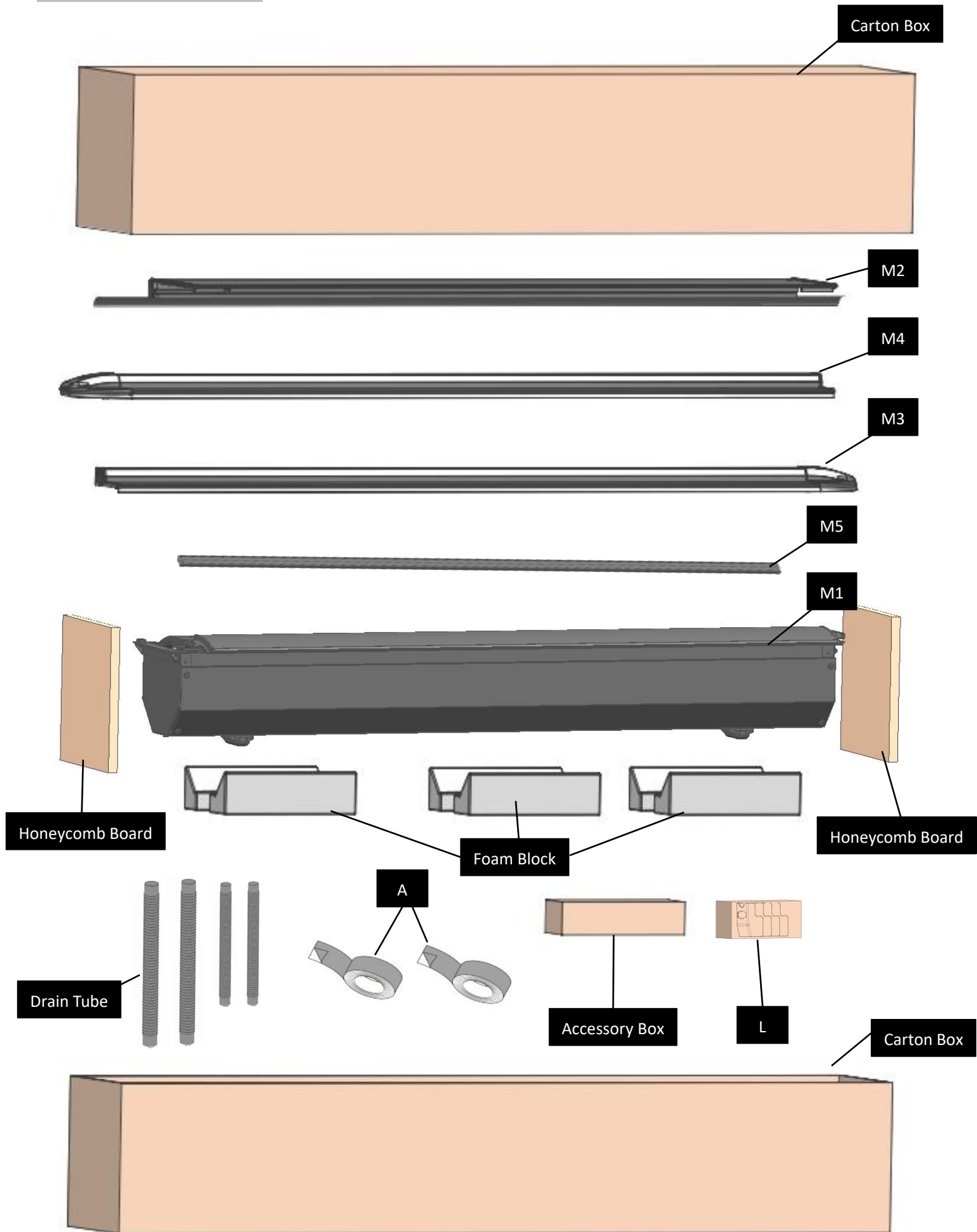
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## 1 Product Introduction

### 1.1 Bill of Material-General

|   |   |  |   |
|---|---|--|---|
| M1  | <br>1X   | M2   | <br>1X   |
| M3  | <br>1X   | M4   | <br>1X   |
| Gauge M5 or M6(for installation adjustment)   |   |  |   |
| M5  | <br>1X   | M6   | <br>L1+R1                                       |
| Bill of Material-Canister(Varies from different car models, but installation is the same) |   |  |   |
| A   | <br>(2X)   | B  | <br>(6X)   |
| C   | <br>6X   | D  | <br>2X   |
| E   | <br>2X   | F  | <br>2X   |
| Bill of Material-Brackets   |   |  |   |
| G   | <br>(4X)                                       | H  | <br>(4X)                                       |
| I   | <br>(4X)                                       | J  | <br>(4X)                                       |
| K   | <br>(4X)                                     | L  | <br>(4X)                                     |
| Bill of Material-Electronic Parts   |   |  |   |
| M   | <br>Power Cord (Gray) 1X                       | N  | <br>Signal extension line (white) 20X          |
| O   | <br>Switch button line (white) 1X              | P  | <br>Original vehicle signal line (yellow) 1X  |
| Q   | <br>Original vehicle signal line (yellow) 1X | R  | <br>Original vehicle signal line (yellow) 2X |
| Bill of Material-Tools  |   |  |   |
| S   | <br>Φ20 1X                                     | T  | <br>S=5 1X                                     |
| U   | <br>S=5 1X                                     | V  | <br>S=8/10 1X                                 |
|   |   |  |   |
| Maintenance   |   |  |   |
| Sealant   | Lubricant   |  |   |
| <br>1X | <br>1X   |  |   |
|   |   |  |   |
| Other Assistive tools (Provided by Customer)  |   |  |   |
|        |    |           |    |
|        |   | <br>Φ28 |    |

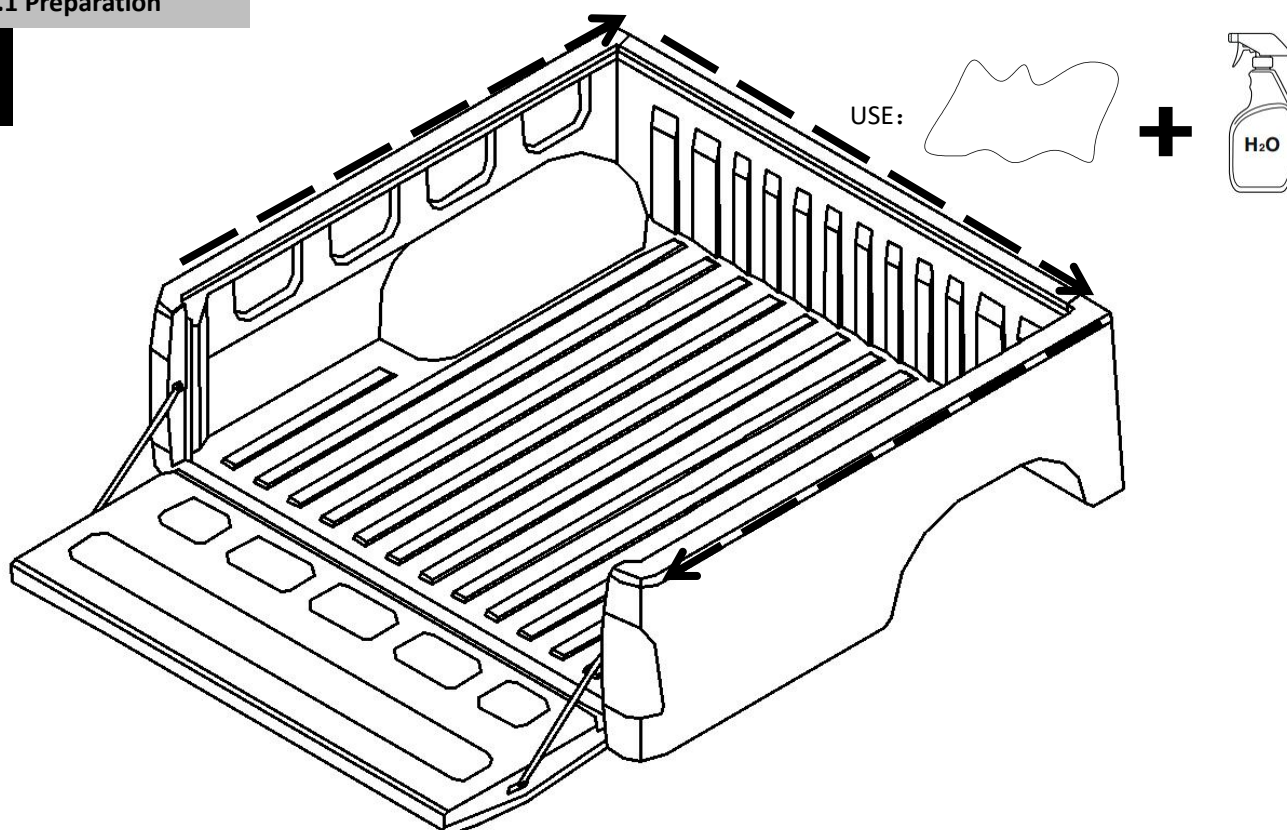
## 1.2 Product Components



## 2.Installation

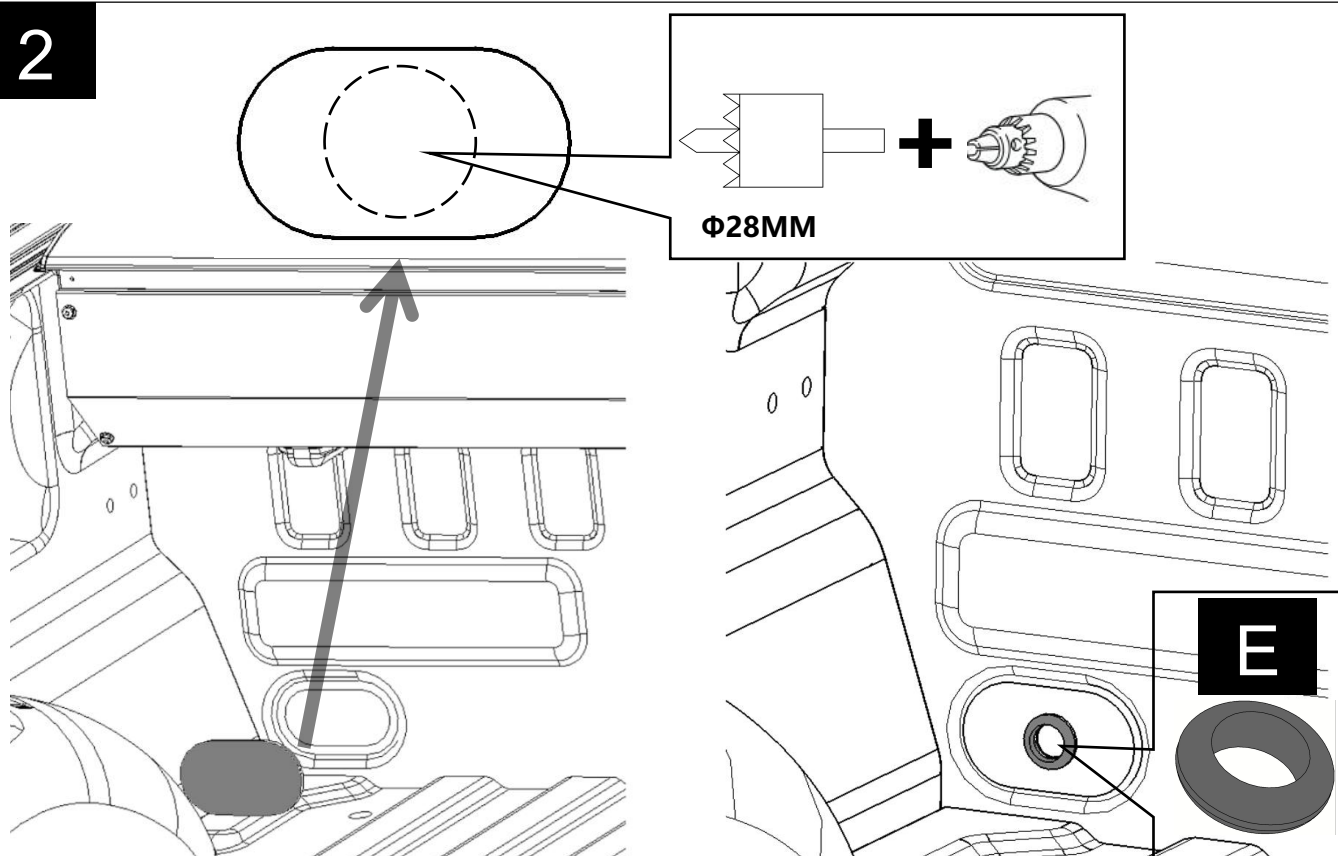
### 2.1 Preparation

1



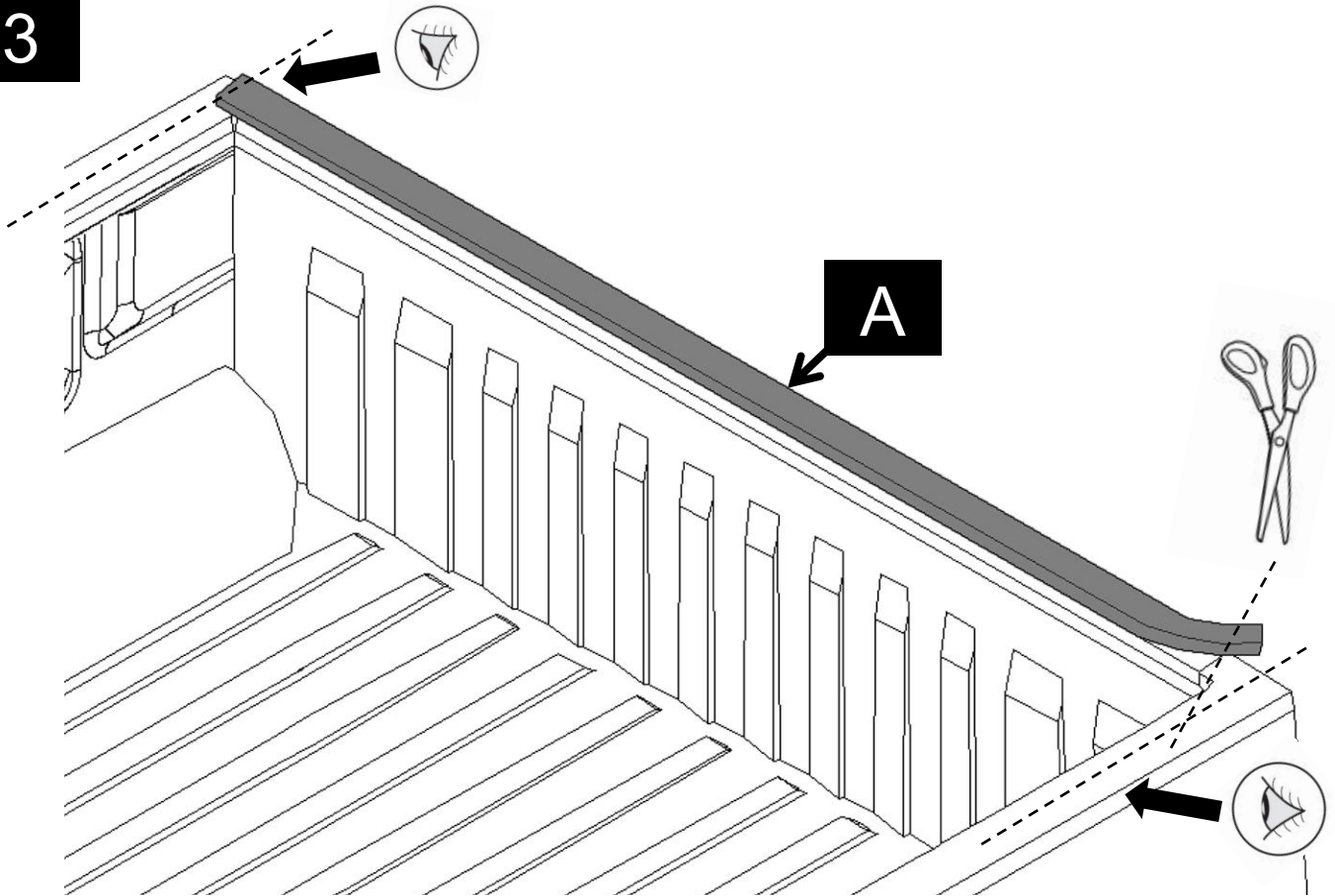
Wipe the mounting surface clean.

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.

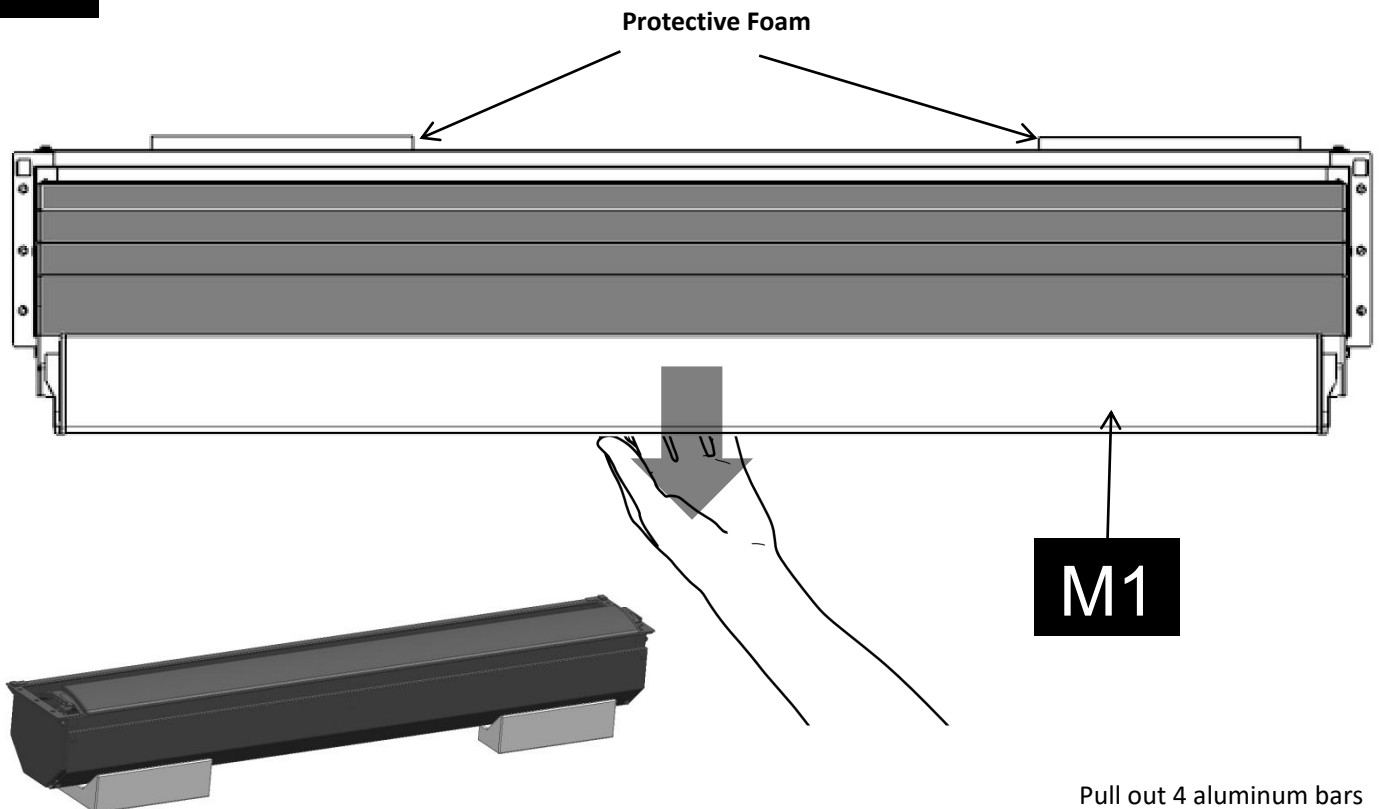
3



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.

## 2.2 Assembly

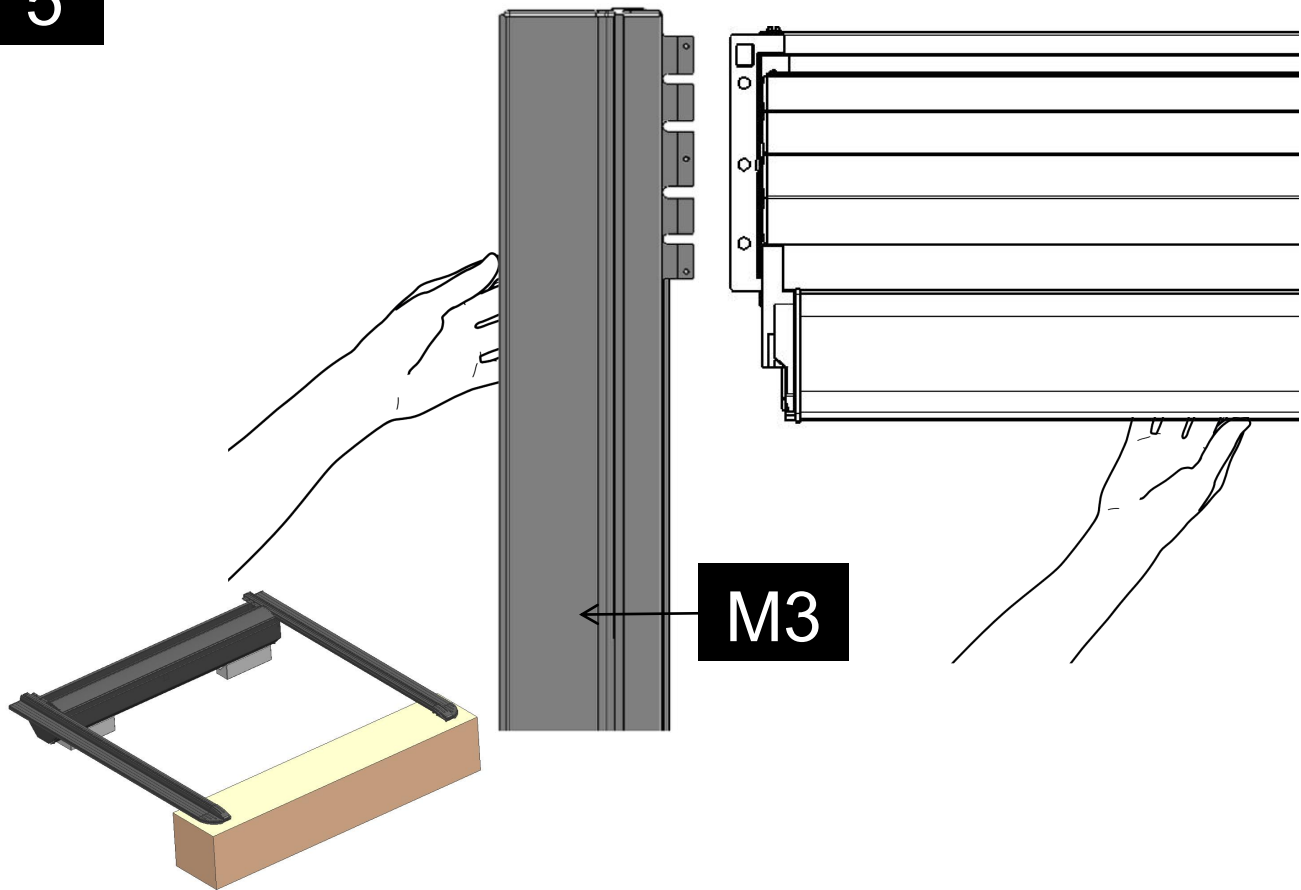
4



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

Pull out 4 aluminum bars from the canister.

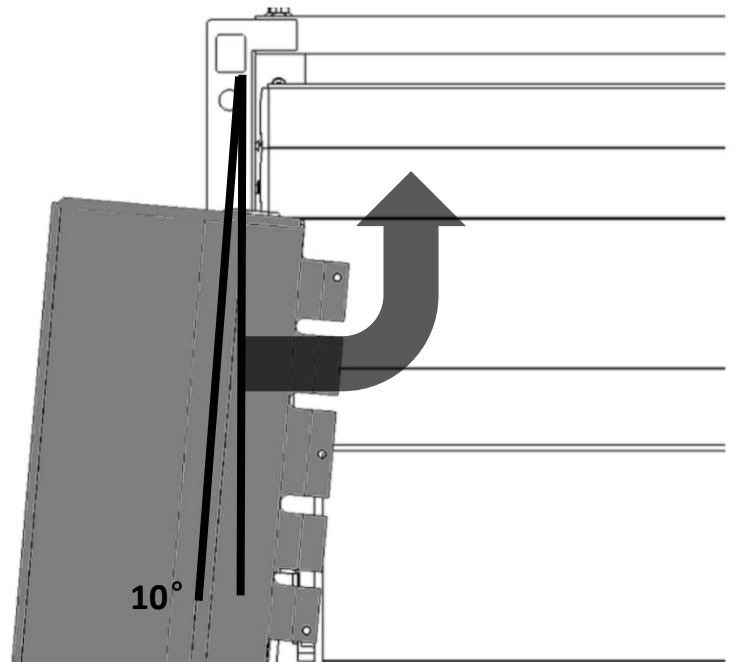
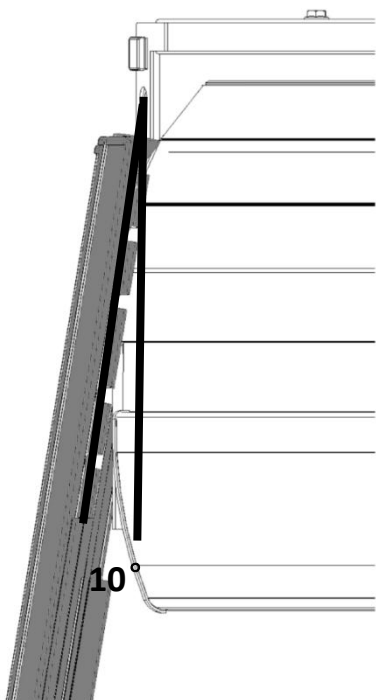
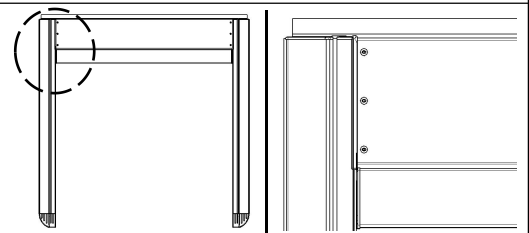
5



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

Place the side bars beside the canister as picture.

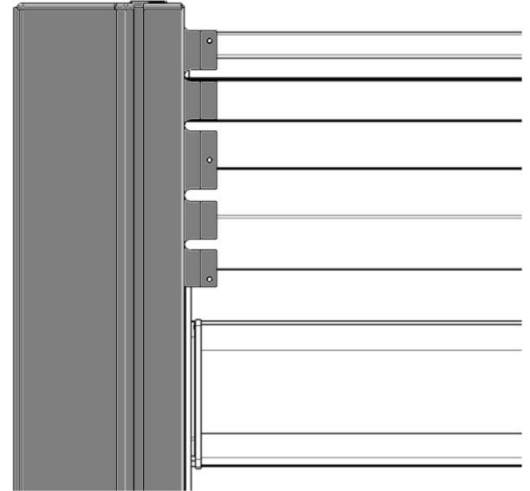
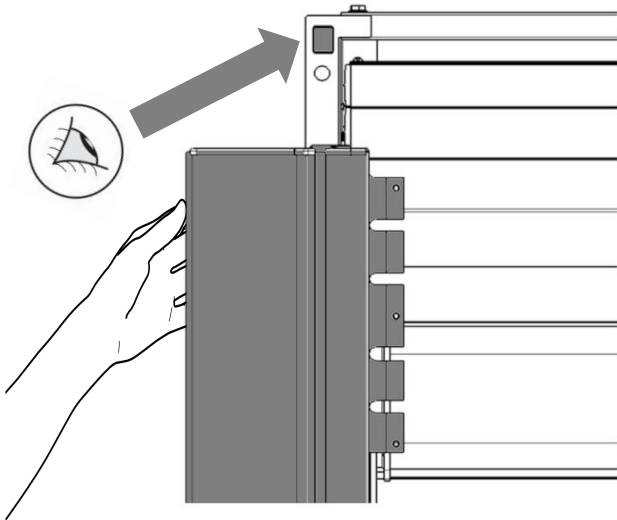
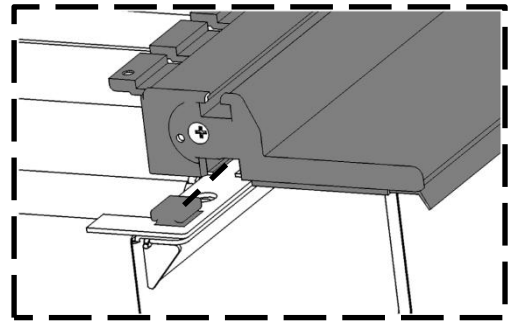
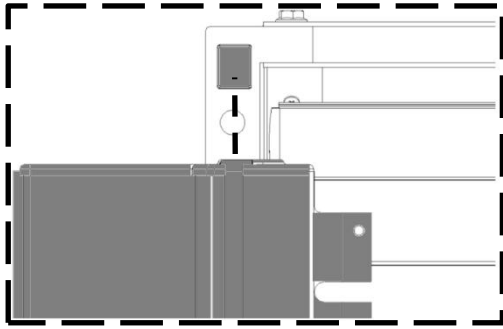
6



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

Tips: Avoid excessive operation leading to product damage.

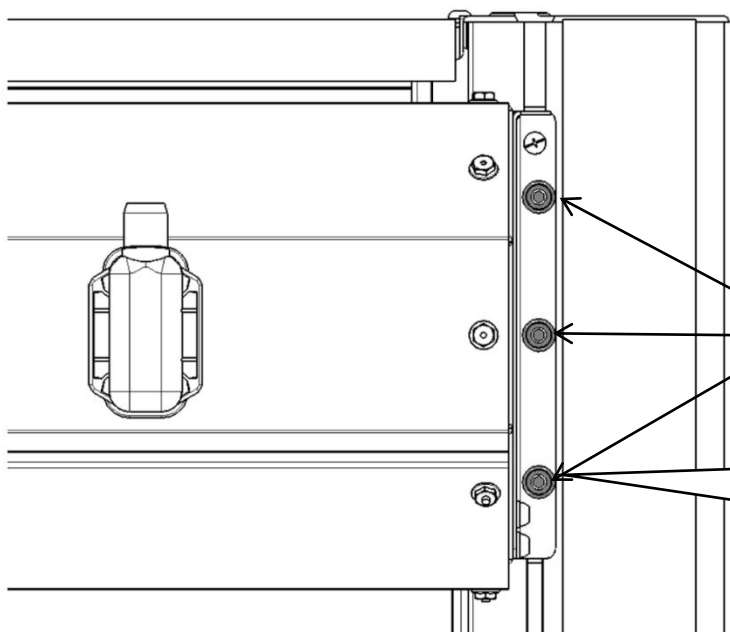
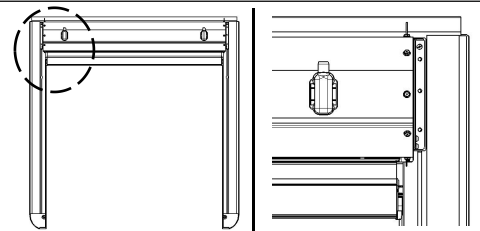
7



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



B

USE:

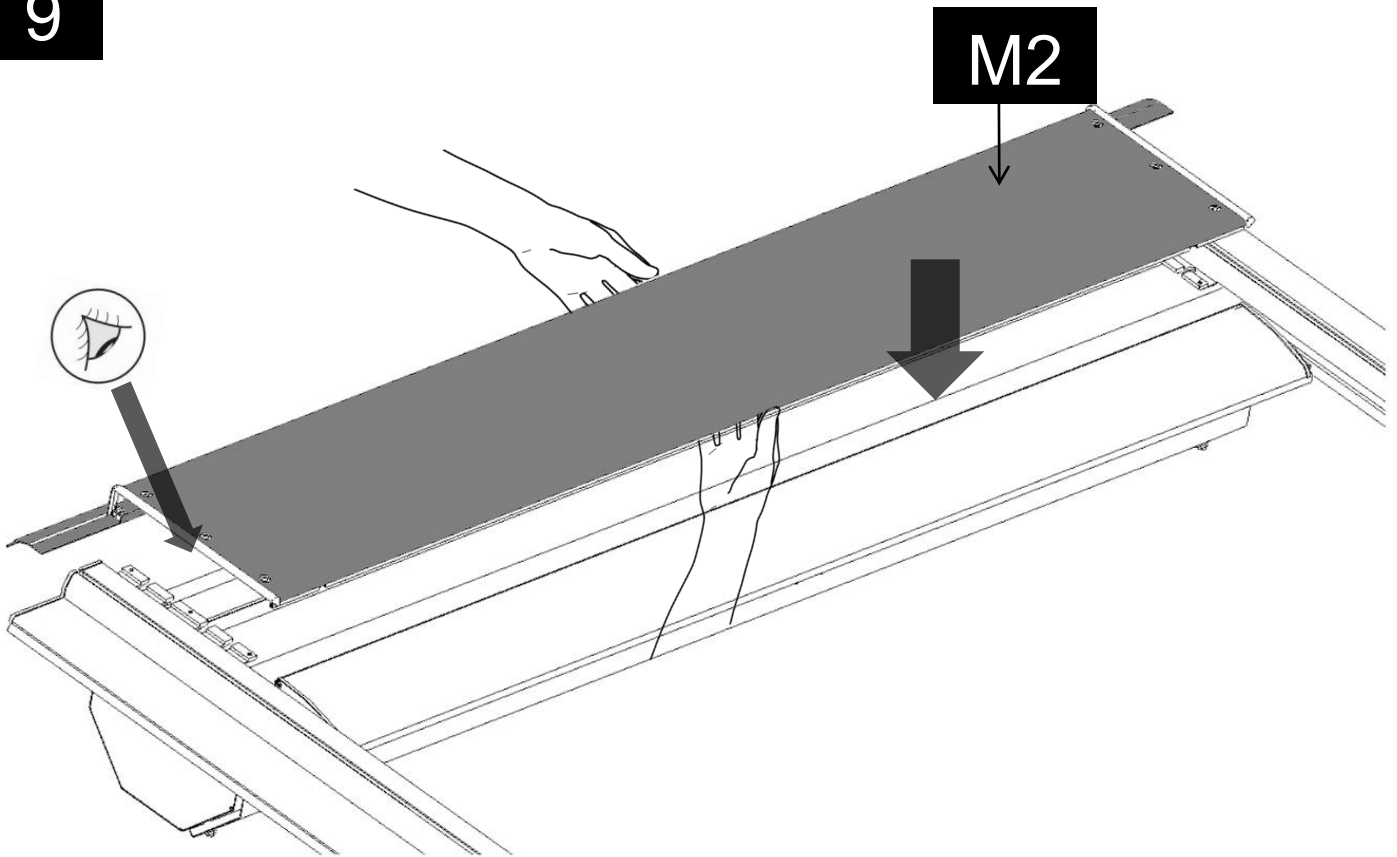
T

S=5

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

Tighten the bolt with wrench.

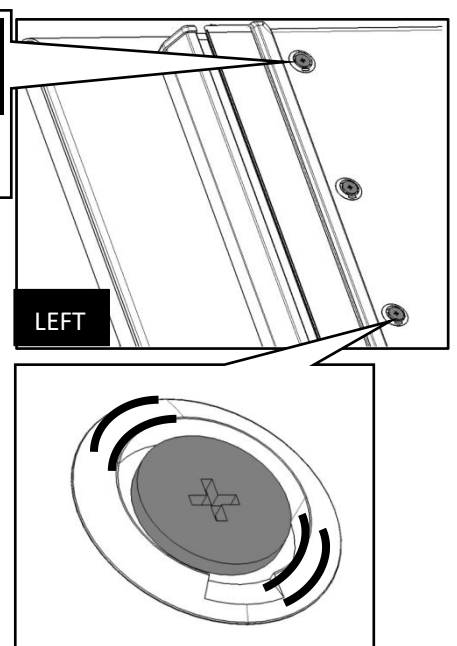
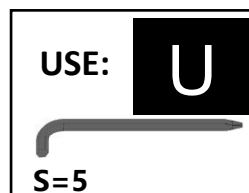
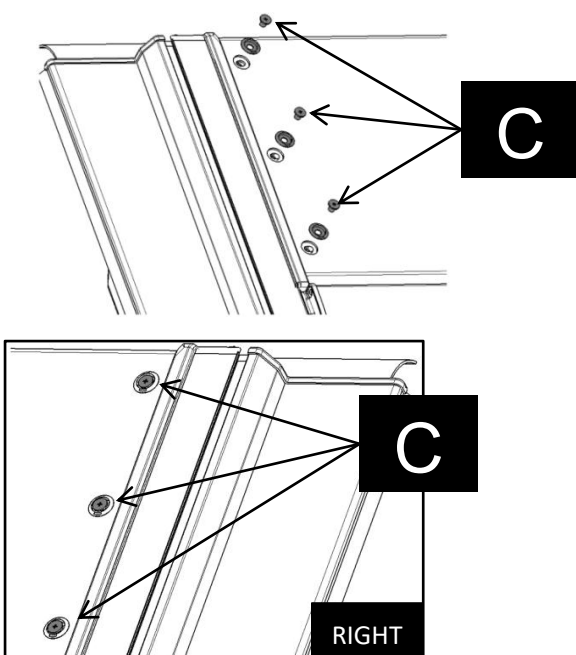
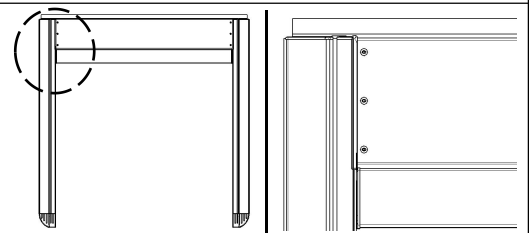
9



Tips: Match the top cover exactly to the canister.

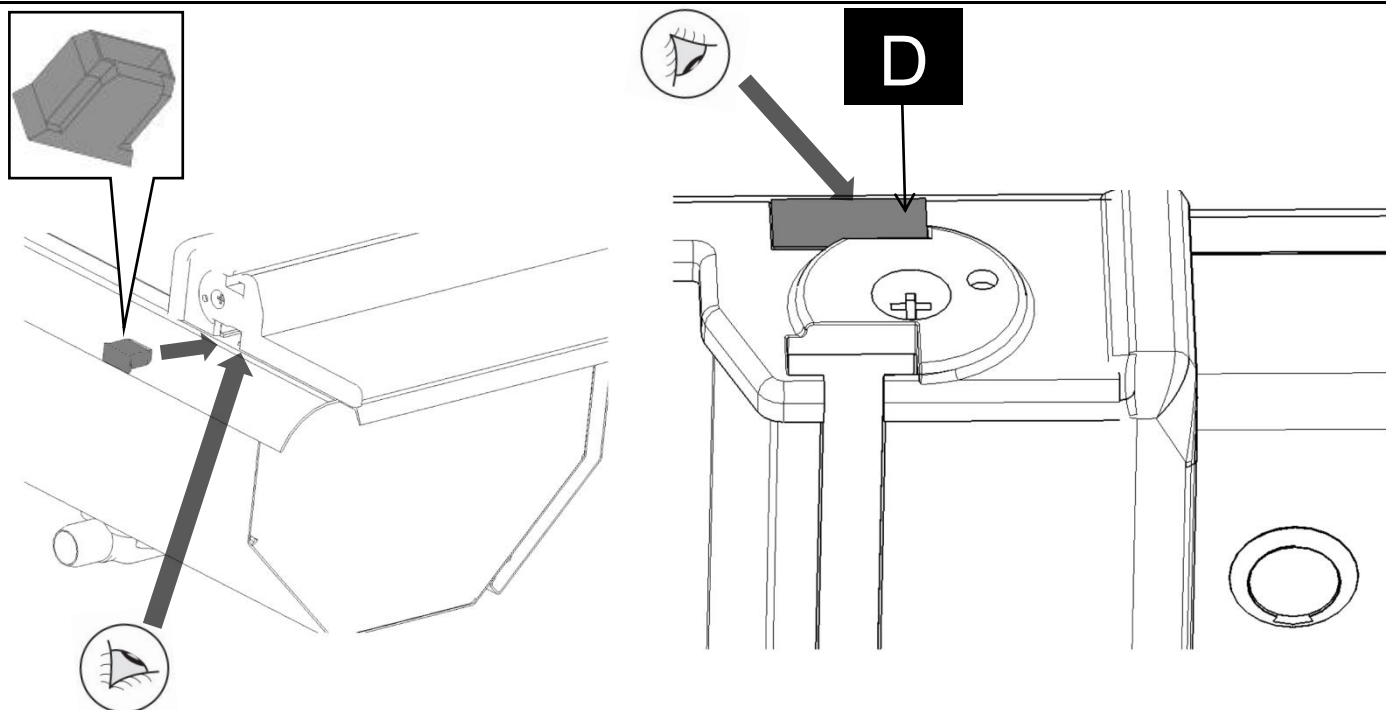
Align the top cover with the holes on side bar.

10

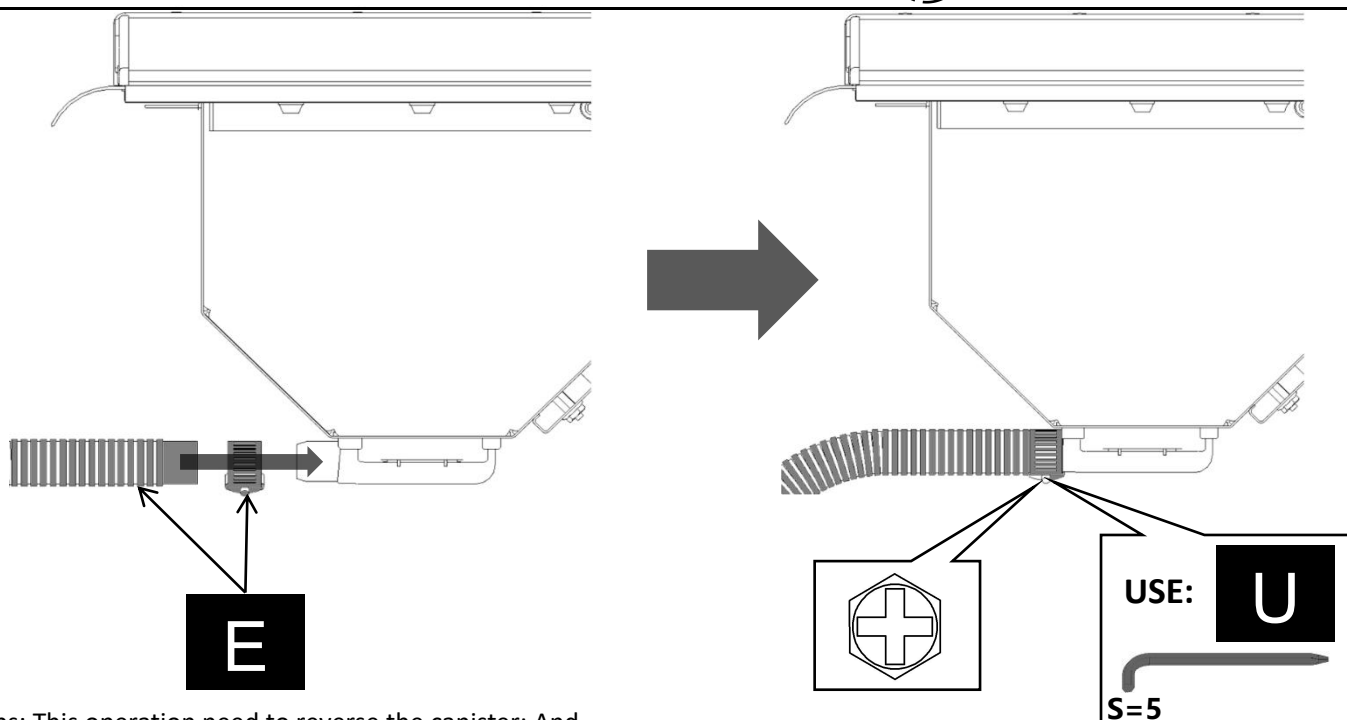
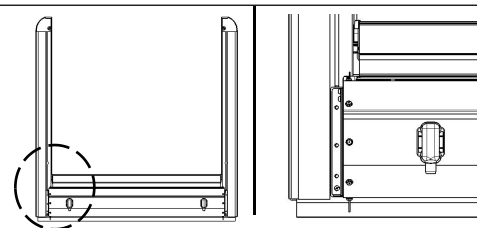


Tips: Pre-tighten the bolts on left side. Then on right side. And fix all the bolts finally.

Place the bolt + washer on the holes of top cover; Tighten the bolts with wrench; Cover them with screw caps.

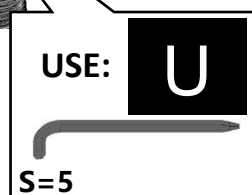
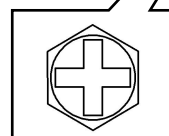
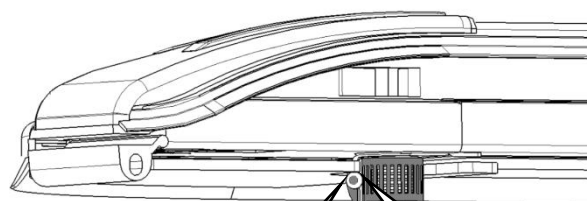
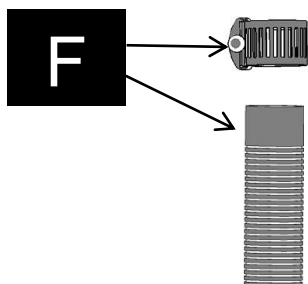
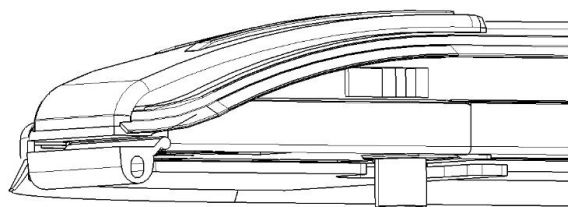
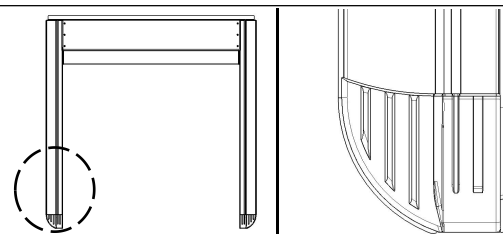


12



Fix bolt on part E with wrench.

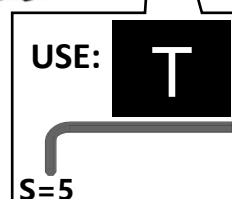
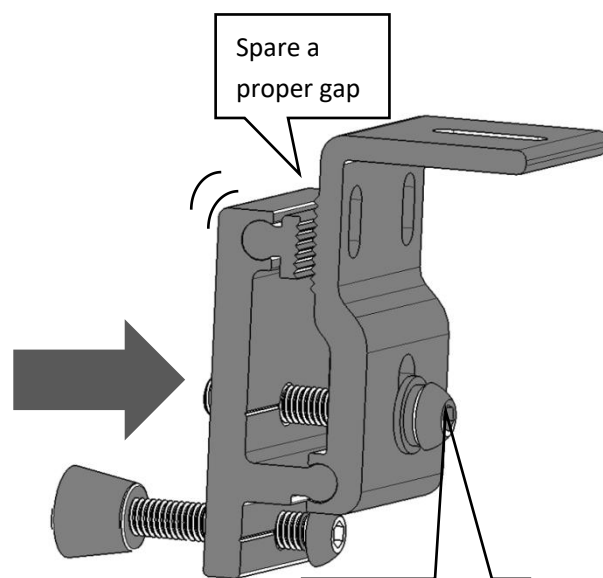
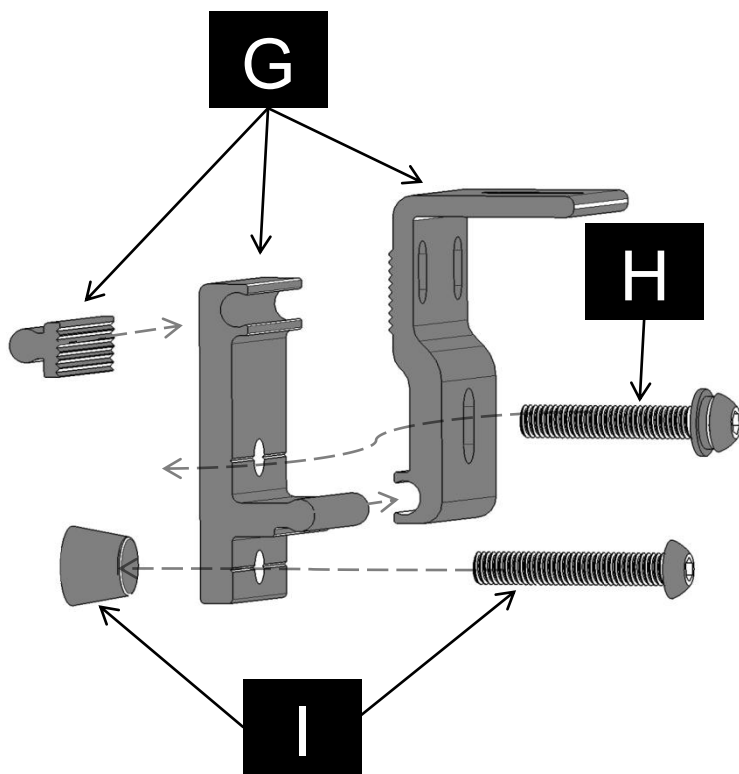
# 13



Tips: Install the drain tubes consistently.

Fix bolt on part F with wrench.

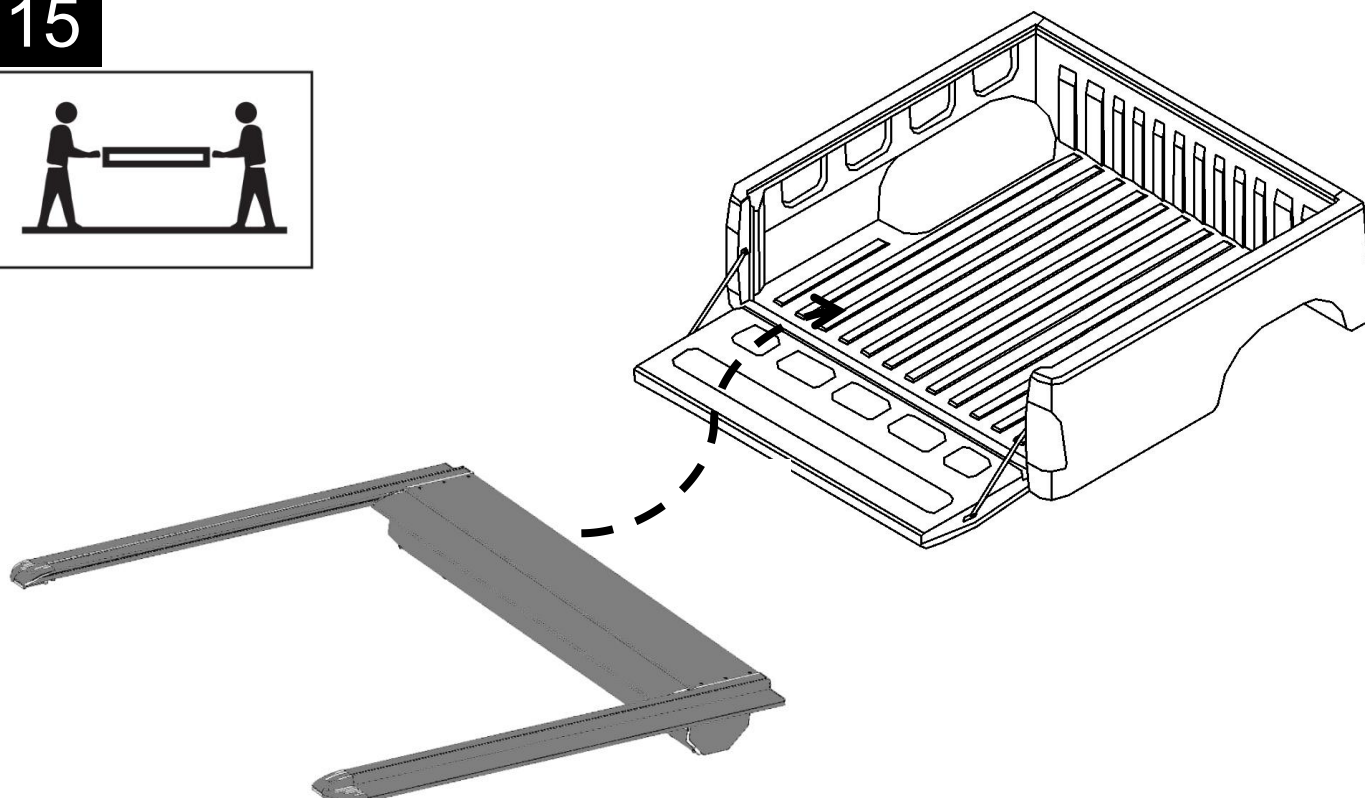
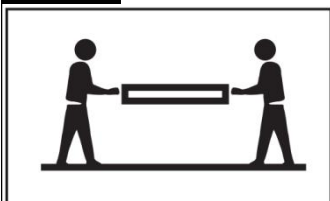
# 14



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

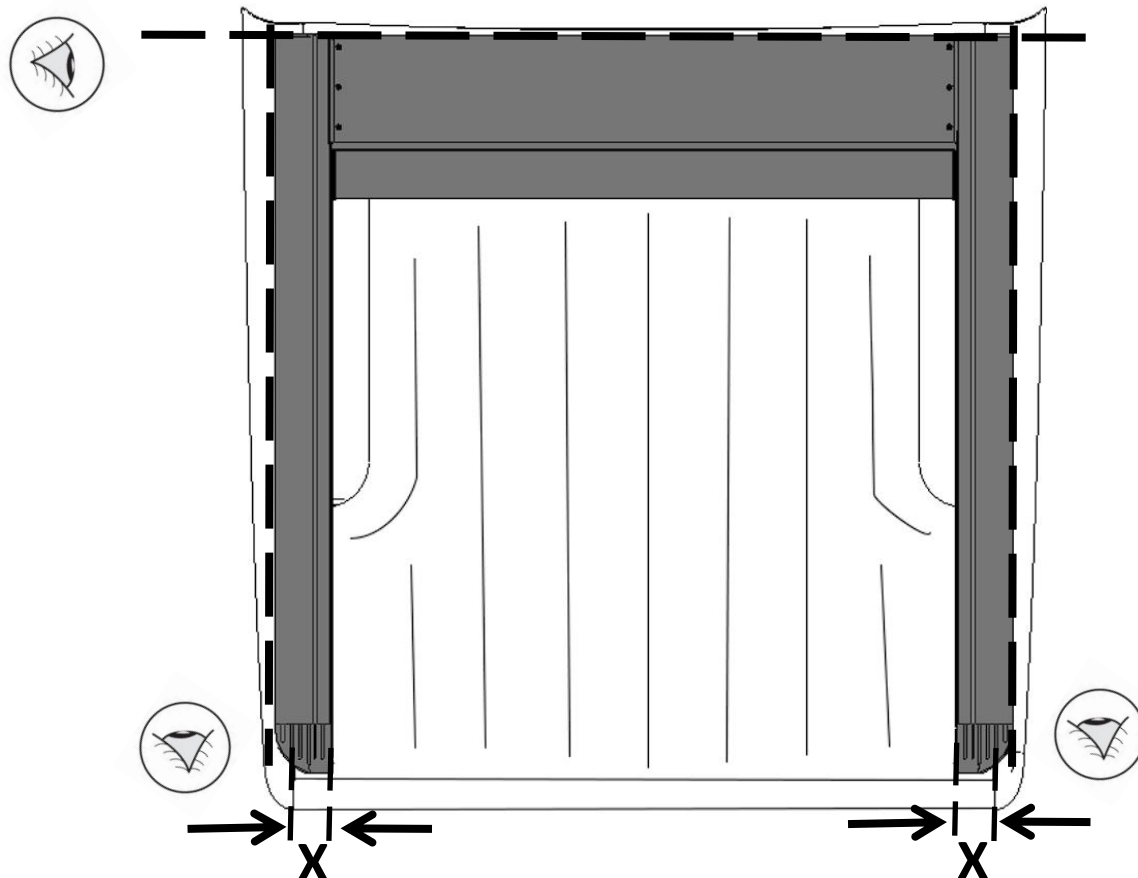
Assemble part I, G, H together, and pre-tighten the bolts with wrench.

15



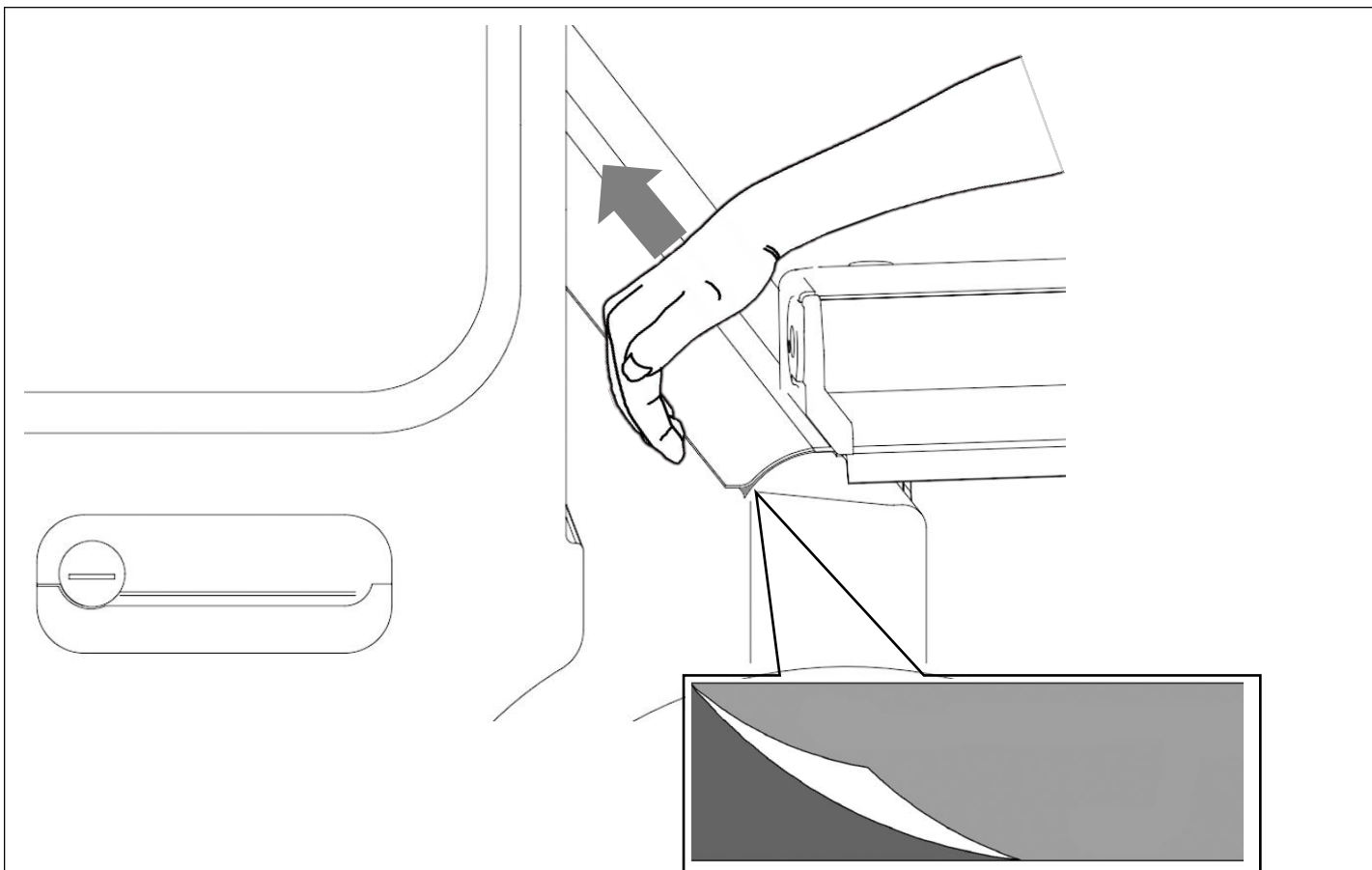
Tips: Installation requires 2 people to lift the product onto the truck bed for safety of personnel and product. Please pay attention to avoid any scratch on vehicle and product surface.

Lift the product onto the truck bed.



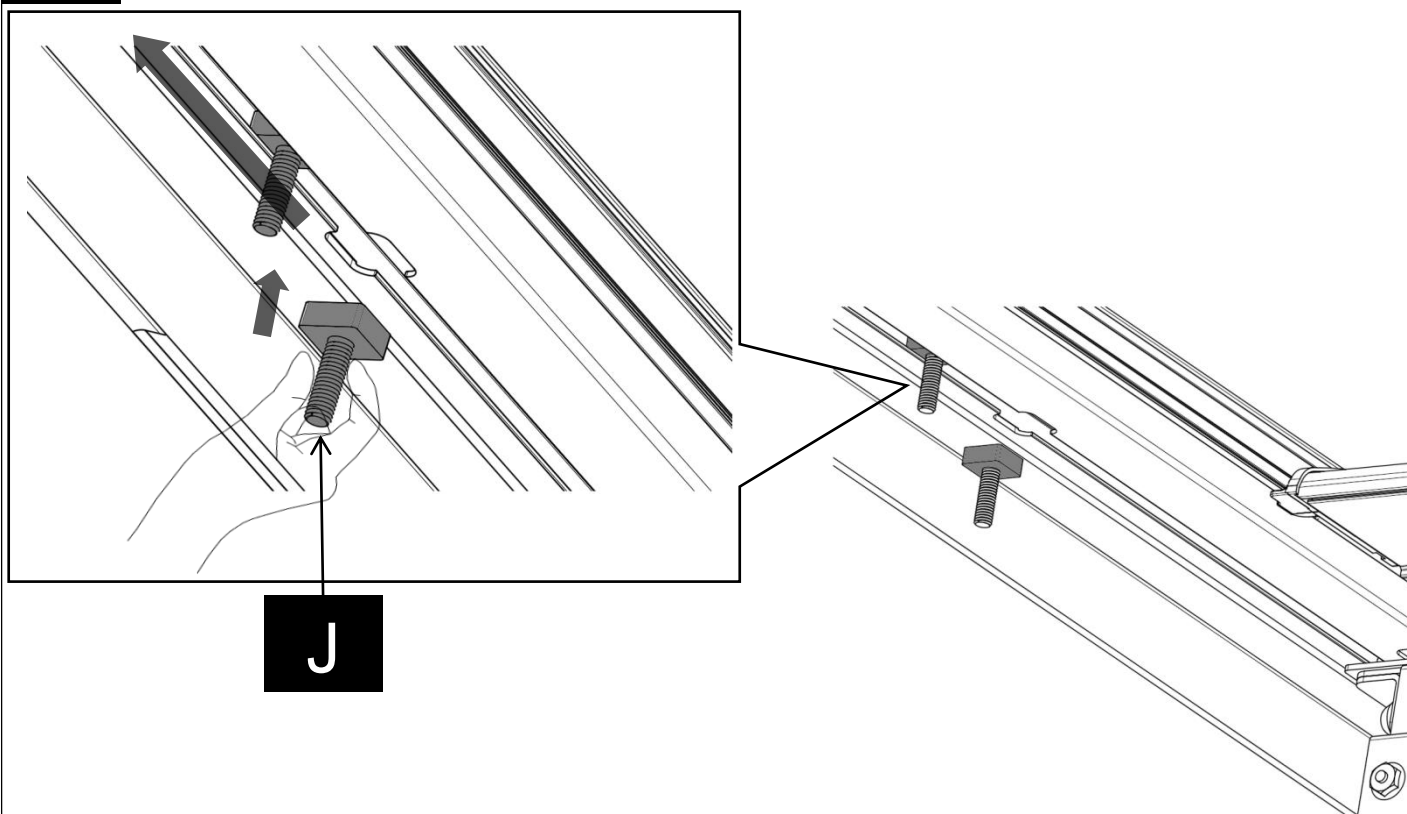
If the end cap is not covered on the tailgate for 1-2cm, you need to move the cover backward slightly.

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



Tear off the tape under the top cover rubber and paste it on the front edge of the truck bed, then press down by hand to make it stick firmly.

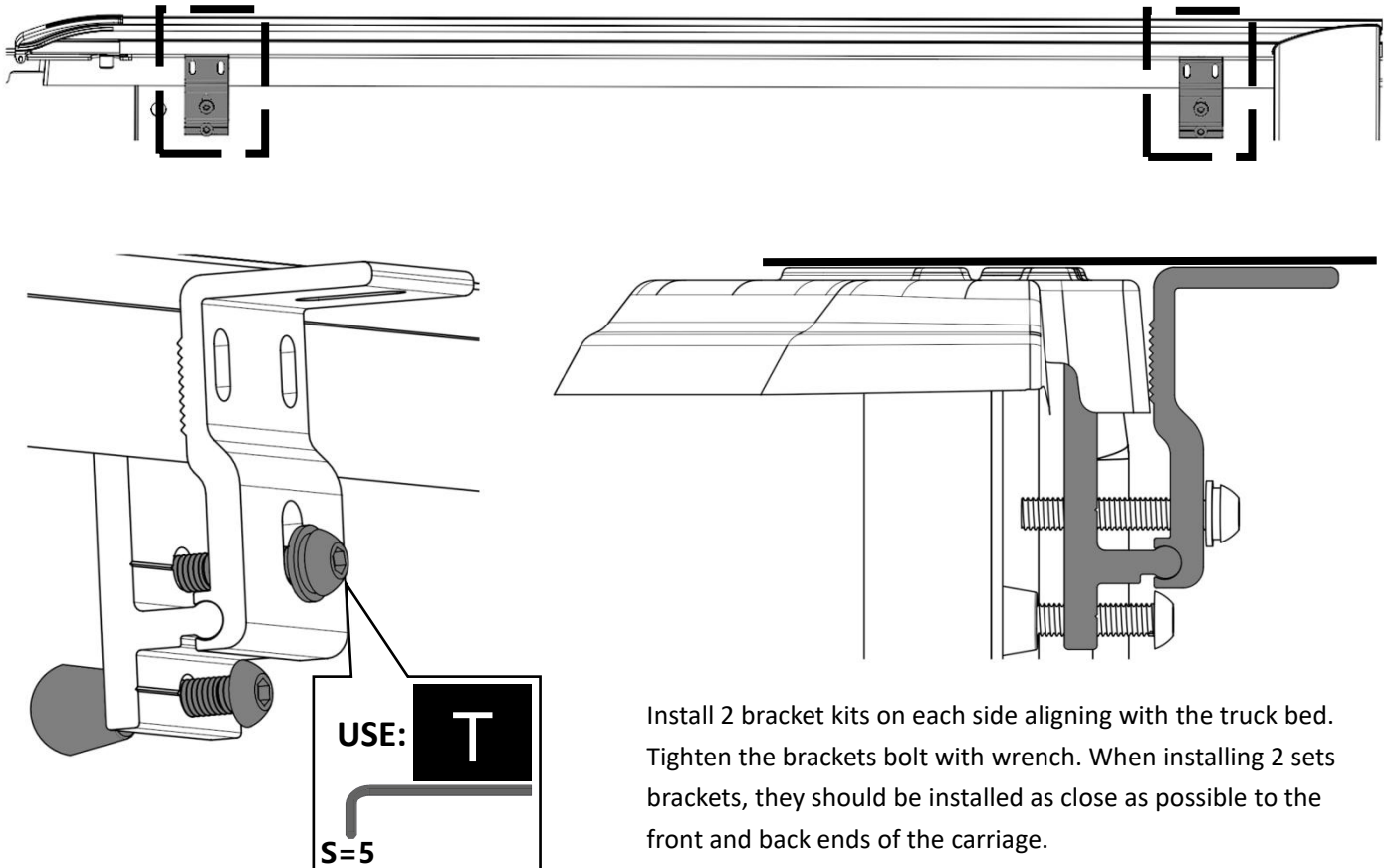
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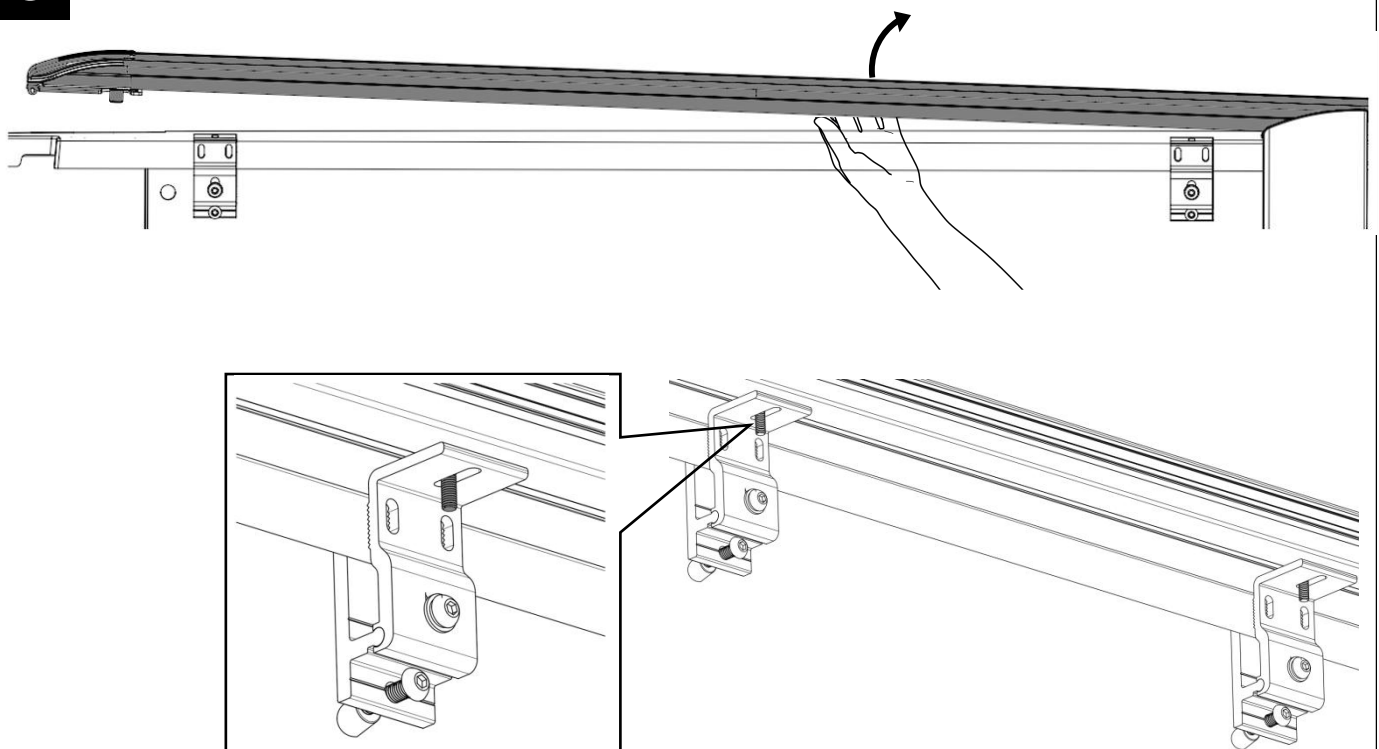
J

Slide T slot into the bottom chute of the side bar. Half/half on each side (different car models with different T slot quantity).

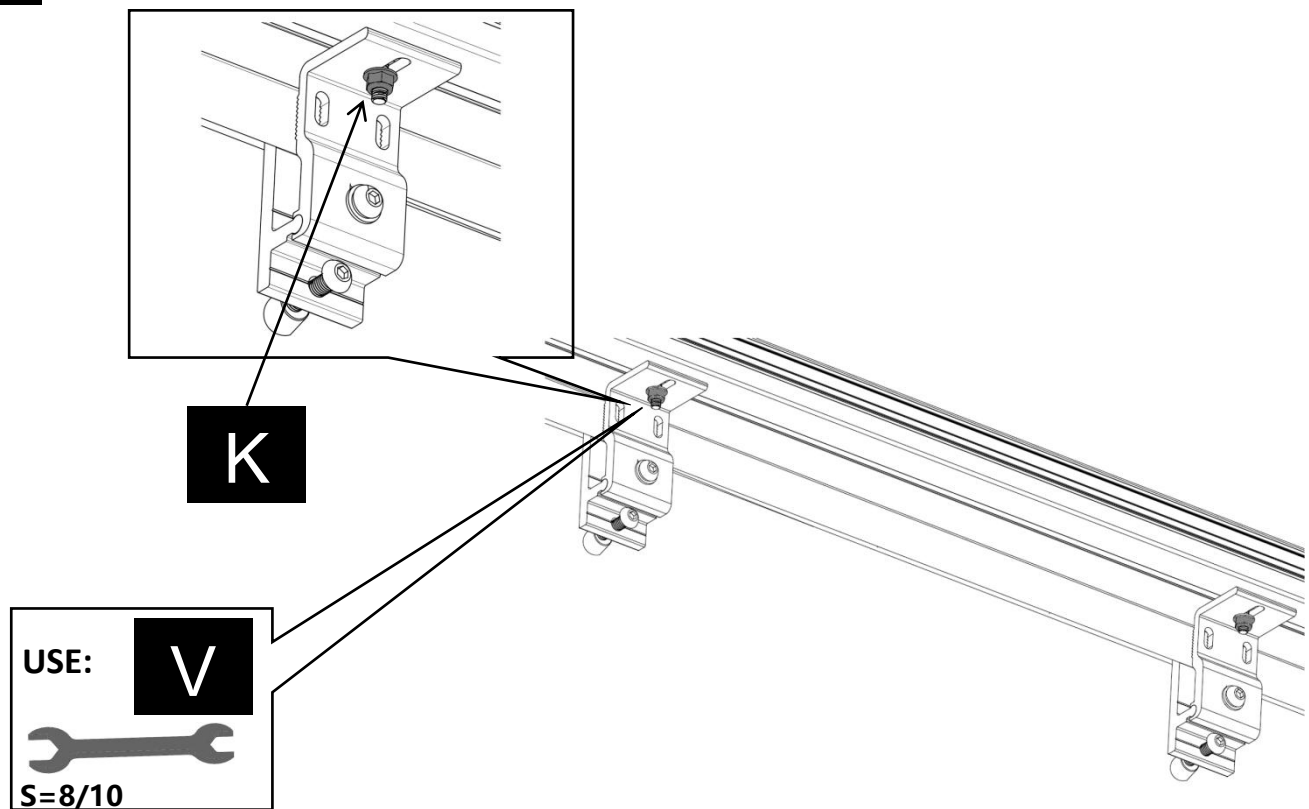
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# 18



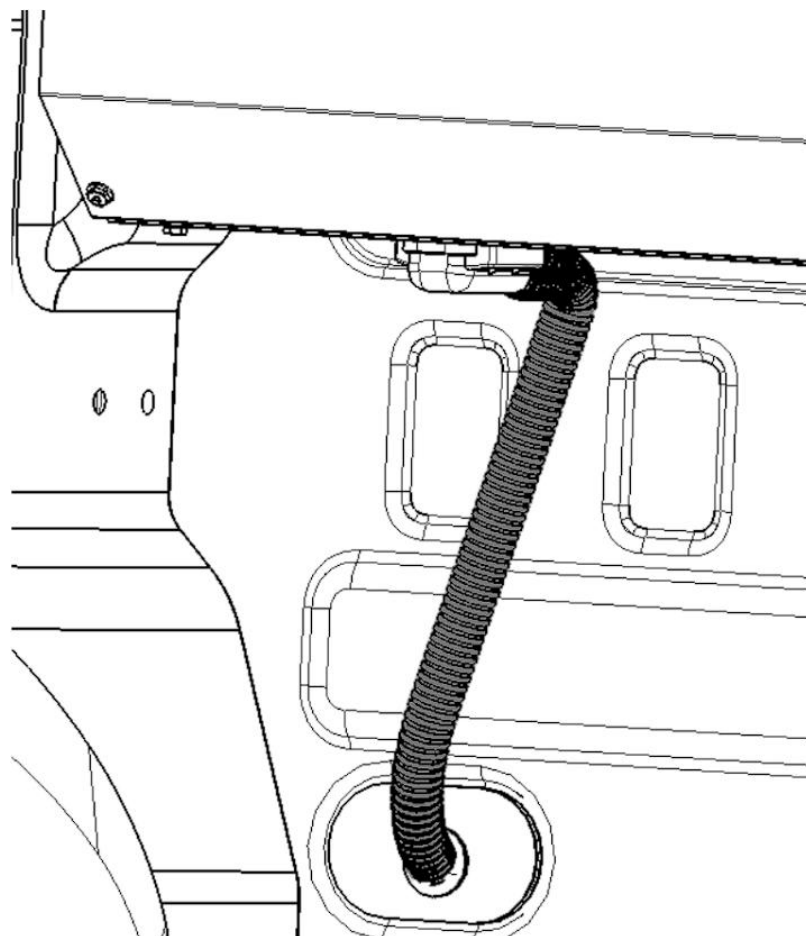
19



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

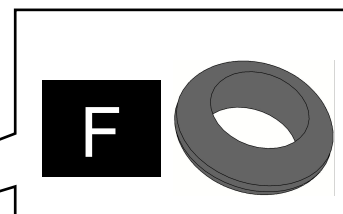
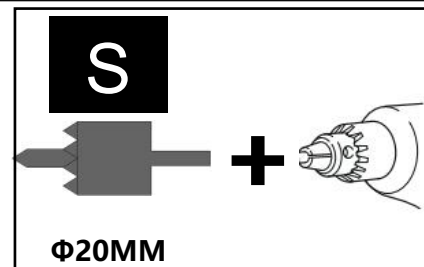
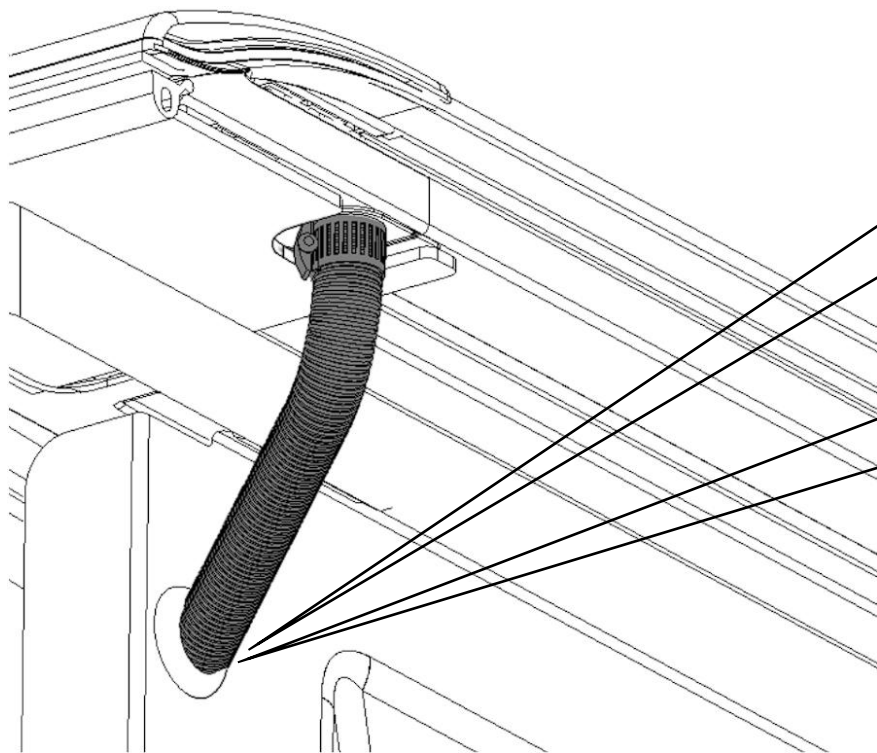
Assemble nut K with bolt, and just pre-tighten with wrench.

20



Thread the canister drain tube out of the truck bed.

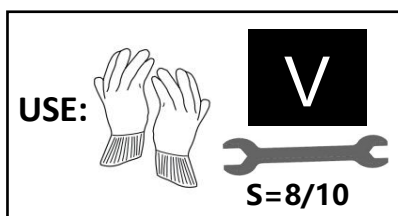
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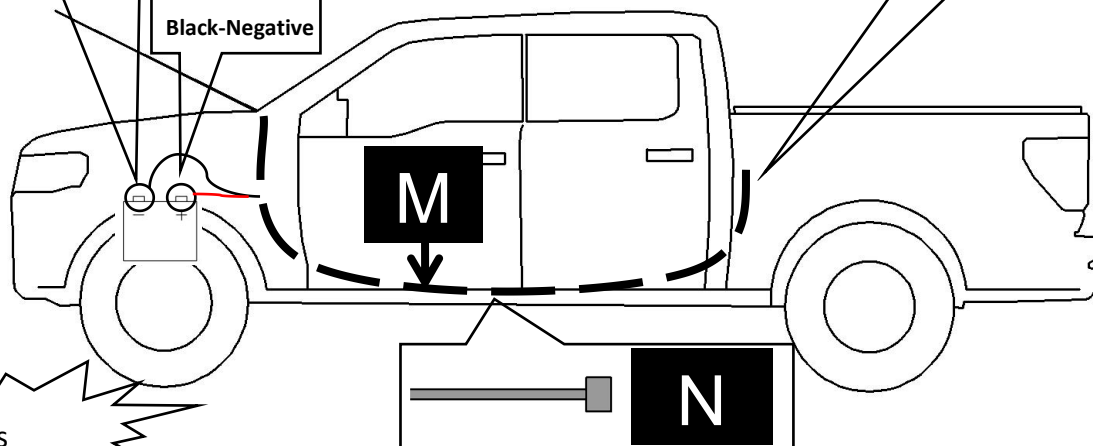
If there is original hole on vehicle around the tailgate, then thread the drain tube out of the car. If not, drill a  $\Phi 20$  hole with the above tool (make the hole surface smooth without hurting hands and then install the rubber washer F).

#### 2.4 Wiring

22

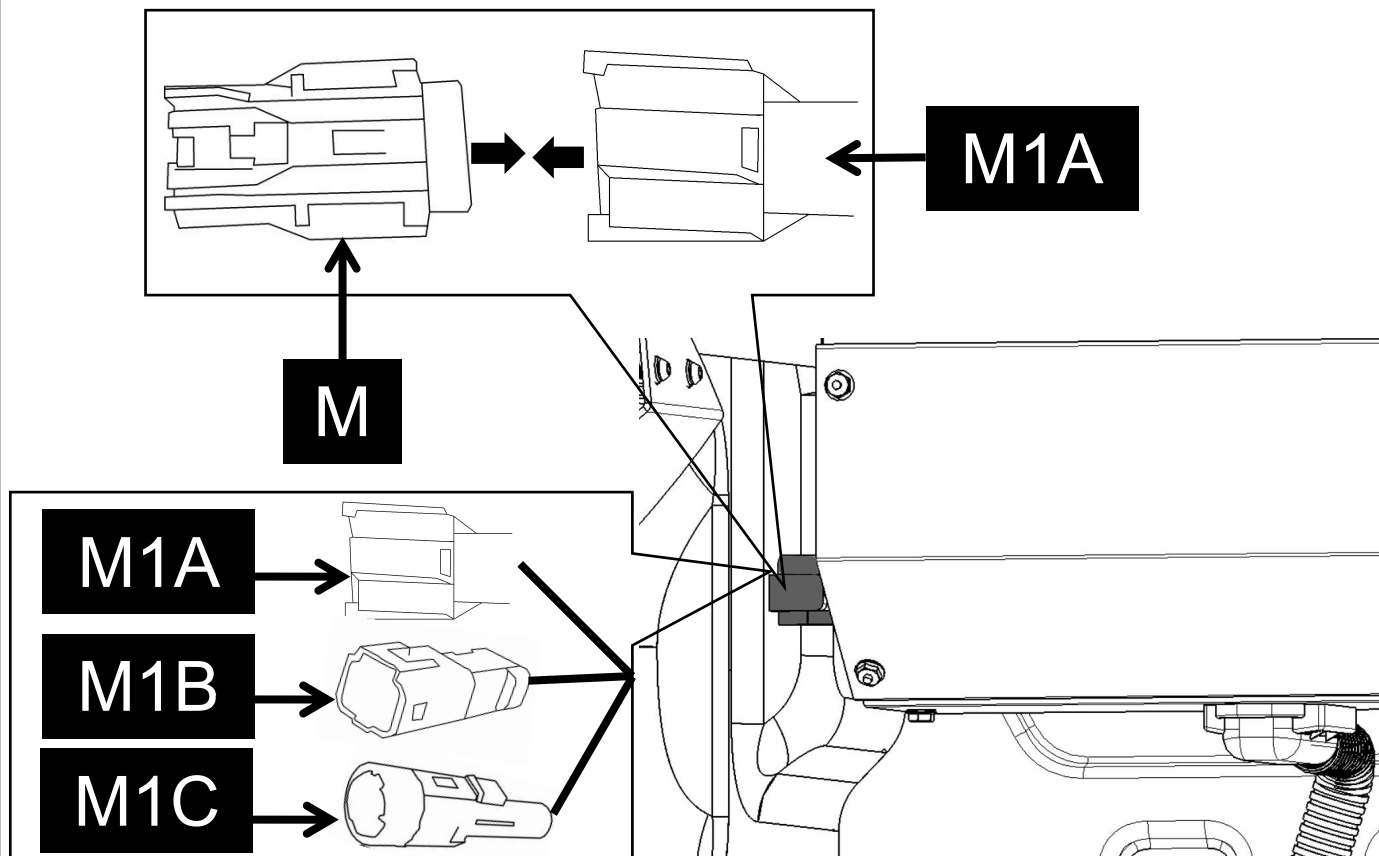


Red-Positive  
Black-Negative



Tips

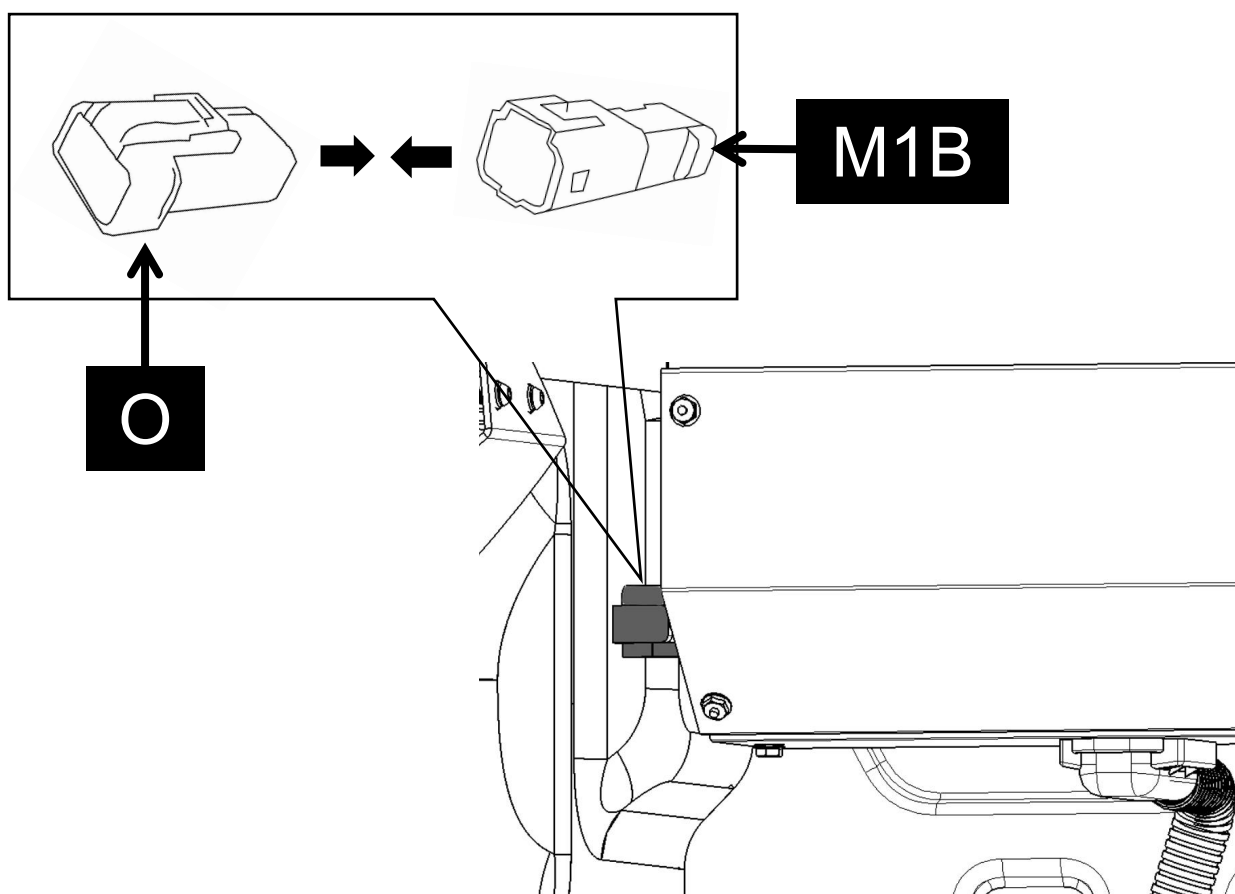
Wear the insulating gloves and open the hood. Loosen the bolts at the positive and negative pole of the original vehicle battery, and install the harness P in the corresponding position of the battery; Tighten the bolts. Route the rest of the harness from the bottom of the car to the trunk bed (fix the harness with S1 cable ties) and pull it out through the hole of drain tube. Connect harness S (in gray color) with roller gray interface. Harness route need to avoid exhaust pipes, moving parts, vulnerable parts etc., thus to protect the vehicle as well as avoid harness damage.



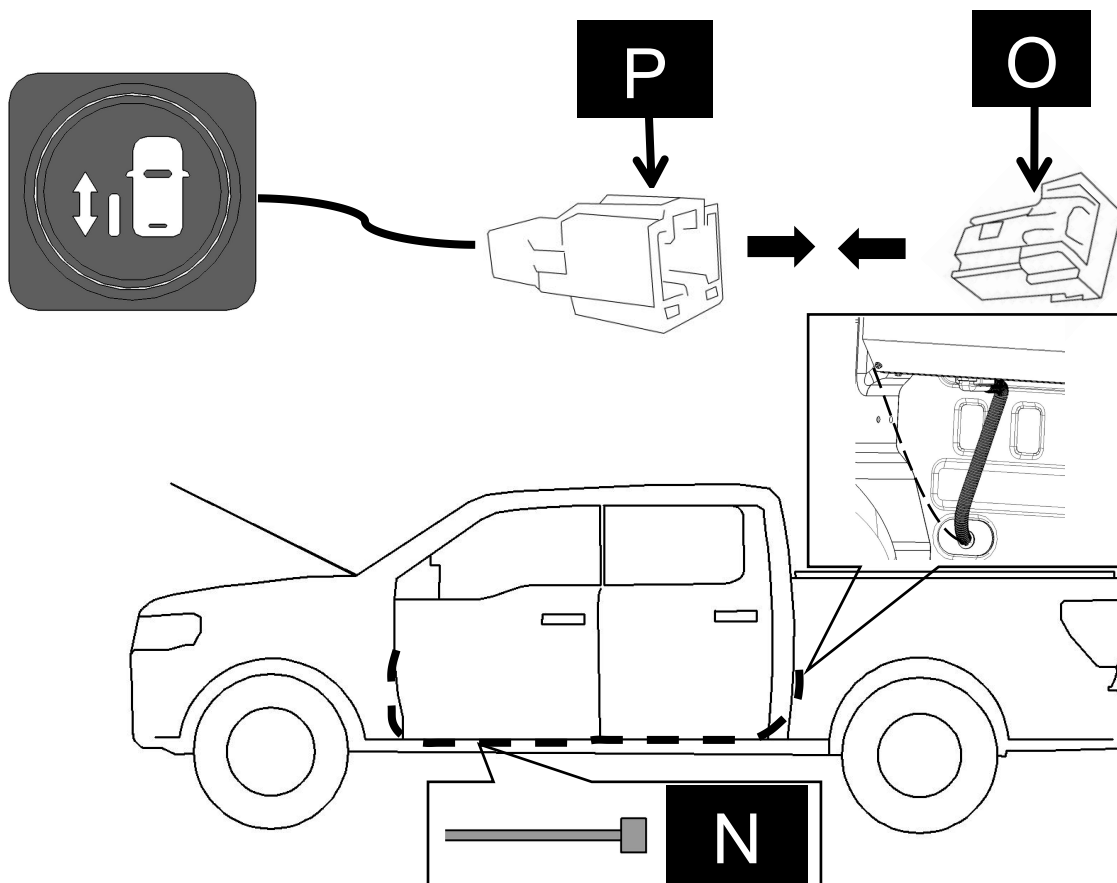
Tips: Please distinguish the above 3 different connector interfaces.

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

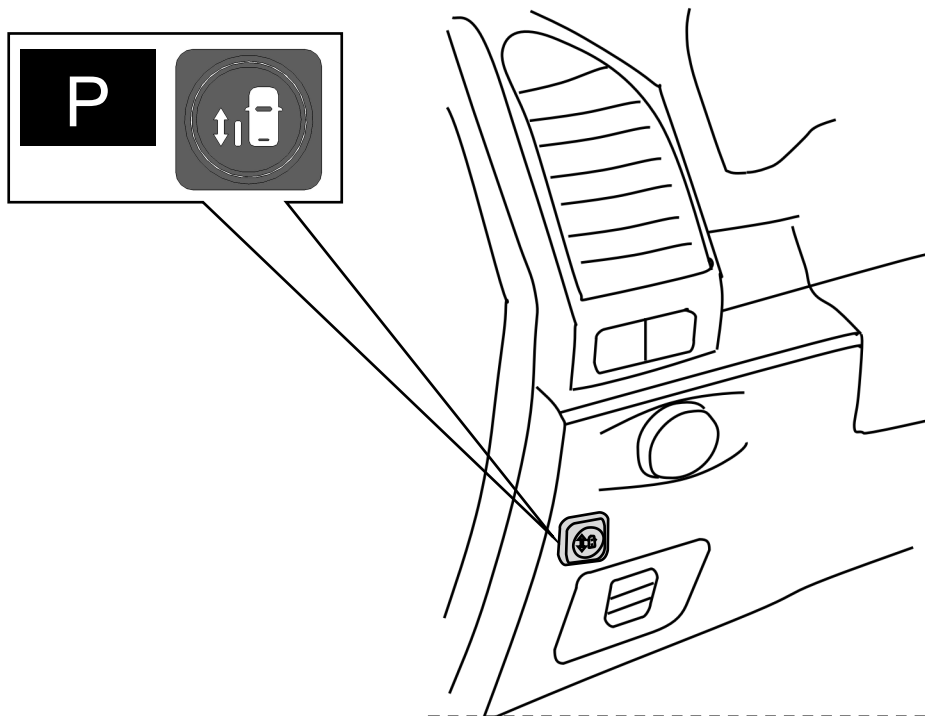
23



Connect O to appropriate plug on the white interface as shown in picture.



Connect cable P(white) to cable O(white) and pull it out of the car through the hole in pic to the driver's seat (fix the harness with N cable ties). Harness route need to avoid exhaust pipes, moving parts, vulnerable parts etc., thus to protect the vehicle as well as avoid harness damage.

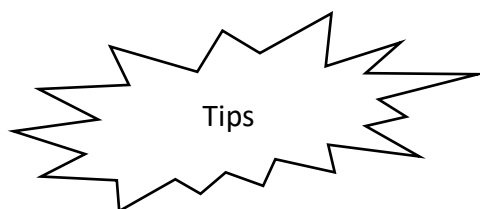
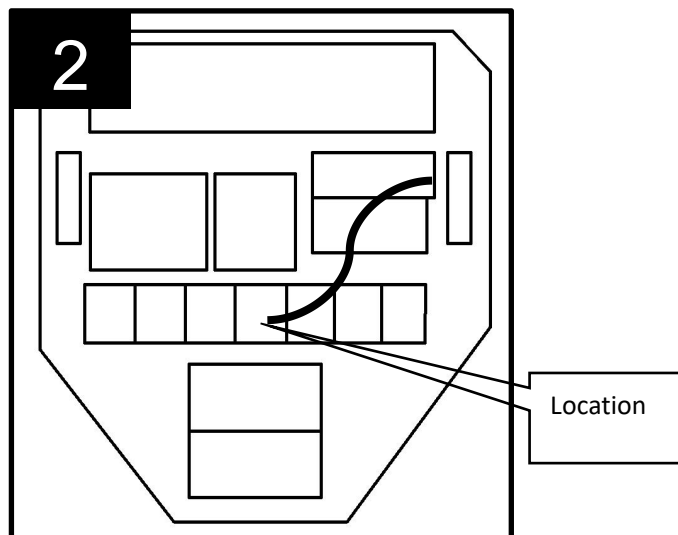
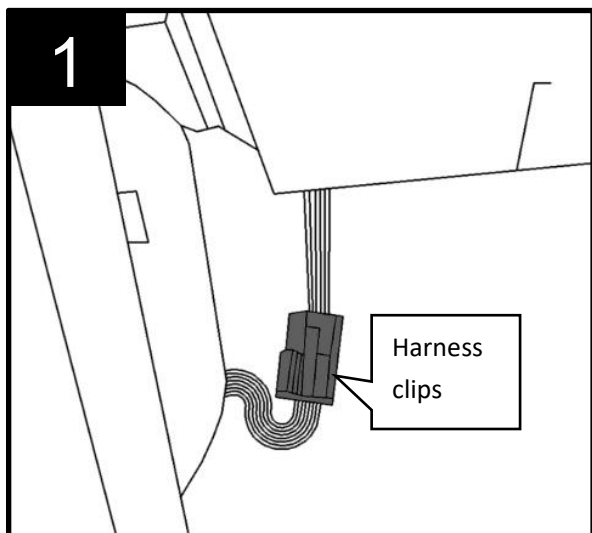


Tips

1. This button is for non-waterproof indoor application. Any contact with water may cause short circuit;
2. The installation position can follow above picture. Please avoid unconscious contact with the button by the knees to cause mis-operation.

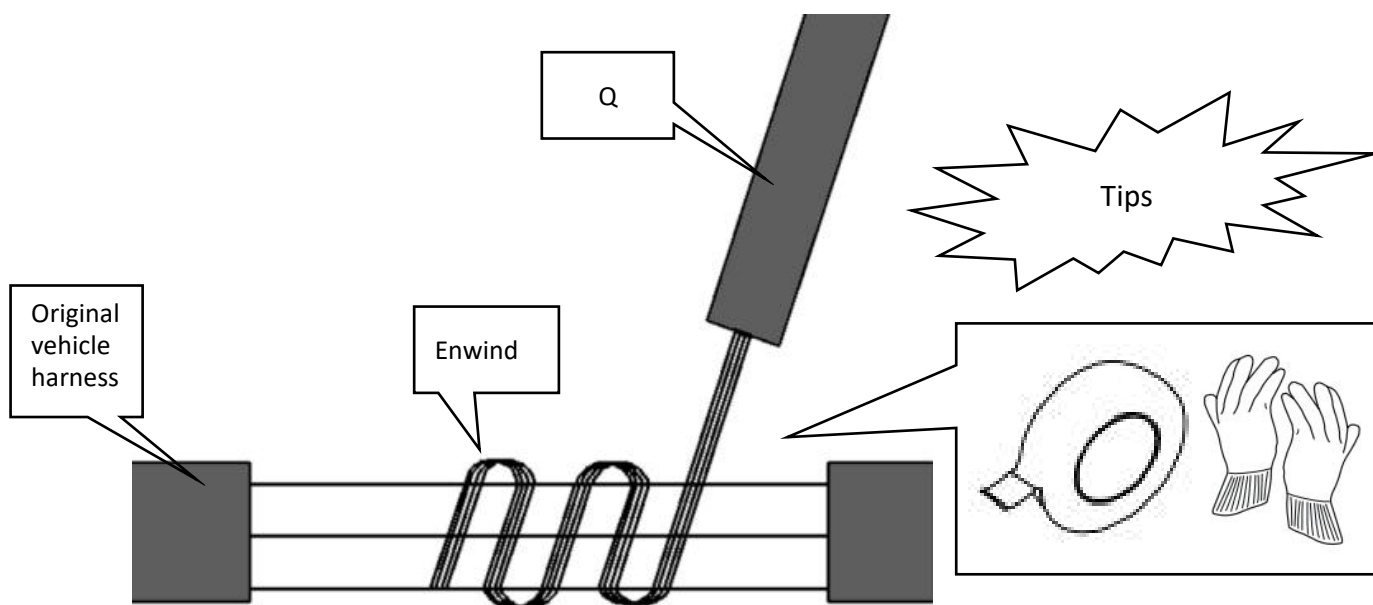
Tips: Drill a  $\Phi 20$  hole for installation.

The front button can be installed on the available position of the multi-function button board in the driver's seat, and the cable harness can be hidden in the decoration plate.

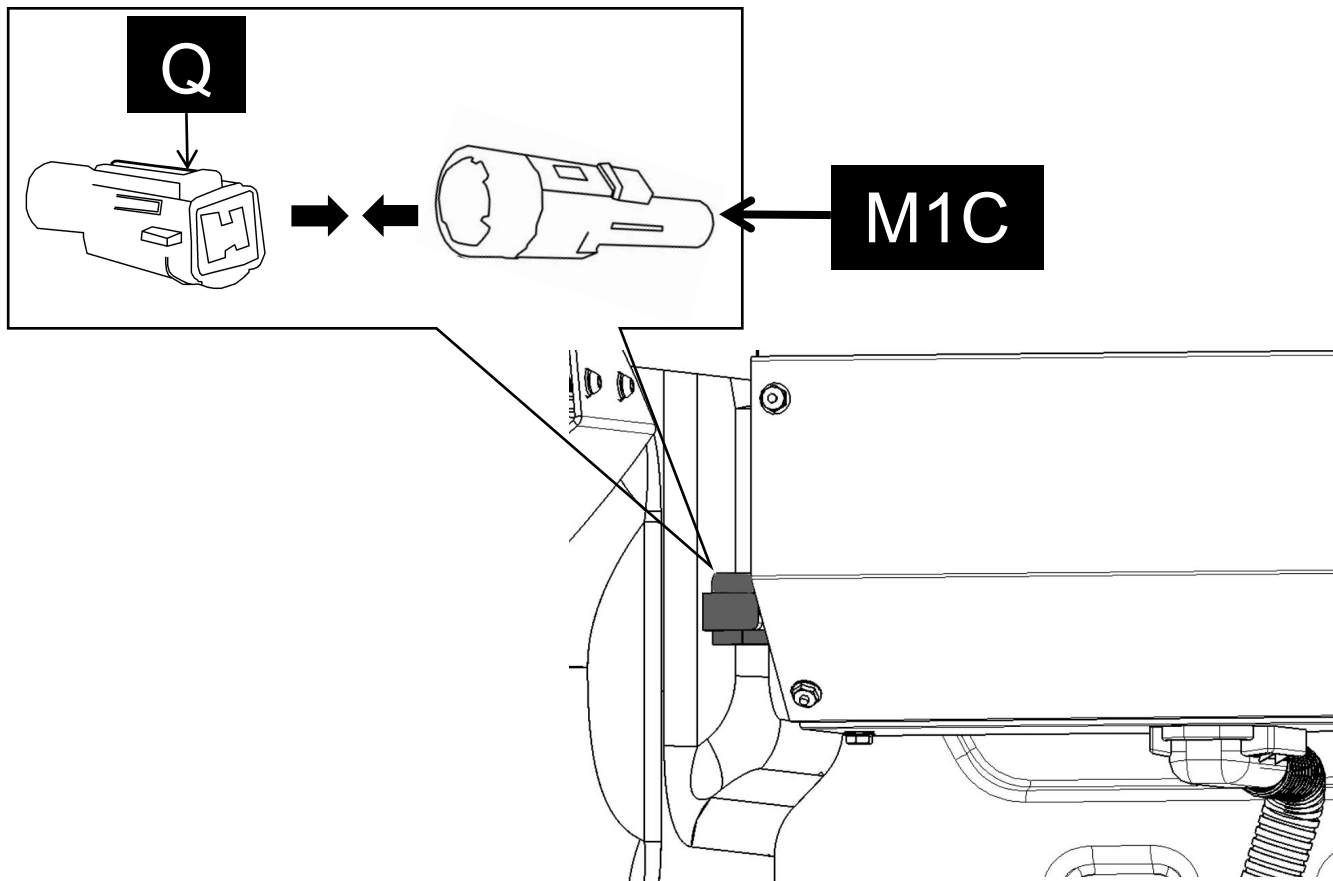


Open the trim panel of A pillar on driver's seat, and find the harness clips as pic 1; Find the location in pic 2, cut off the original vehicle wiring harness with twine scissors, and connect the original signal wire with connector Q(yellow wire).

3



See as pic 3. Wear insulated gloves to trim the bare metal part of the original car harness and Q; Wrap the harness of Q around the original car harness, and finally wrap the exposed metal part tightly with electrical tape. Refer to step 23, route the rest of the harness from the bottom of the car to the trunk bed(fix the harness with N cable ties) and pull it out through the drain tube hole. Harness route need to avoid exhaust pipes, moving parts, vulnerable parts etc., thus to protect the vehicle as well as avoid harness damage.

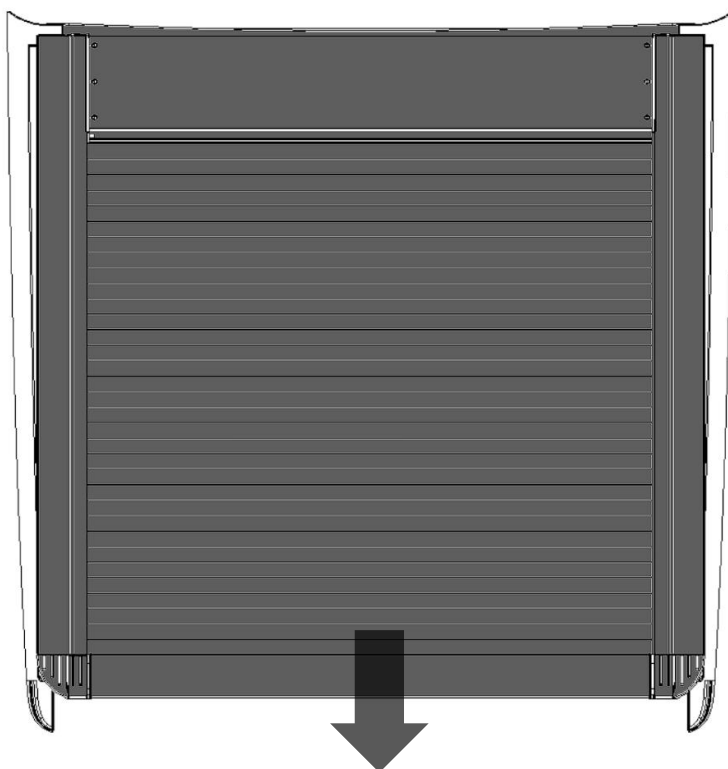
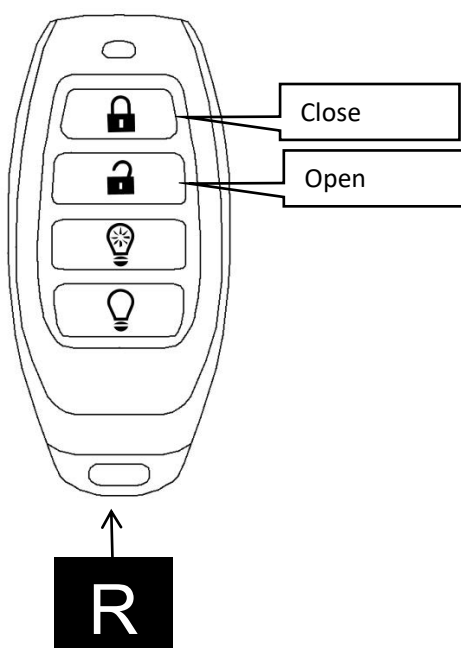


Find this black interface and connect the plug Q.

## 2.5 Inspection (M5 or M6)

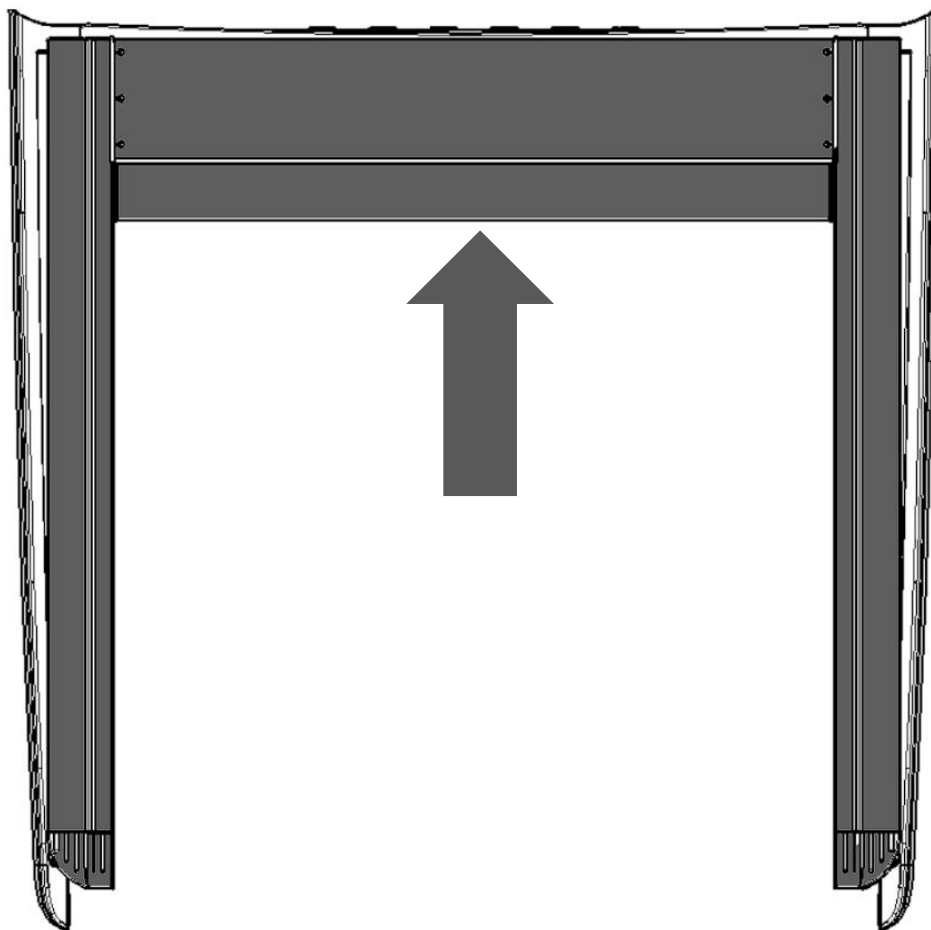
Option1: Gauge M5

25

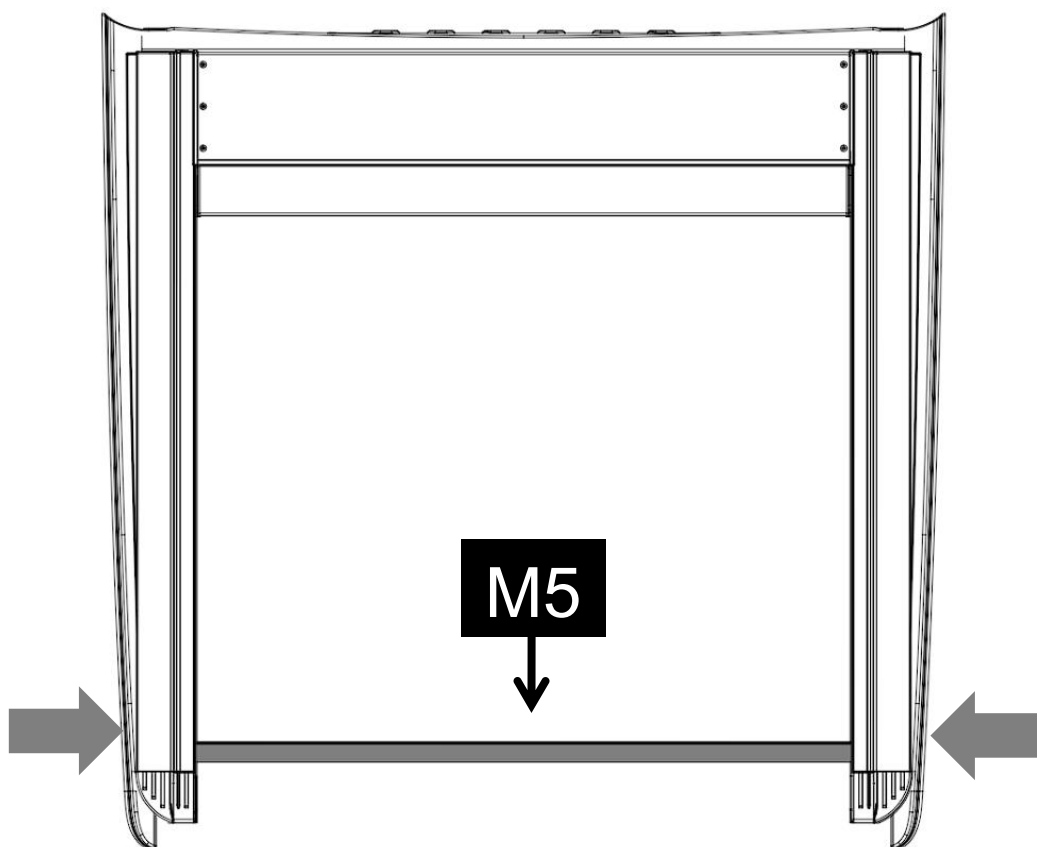


Test the operation with remote key.

26

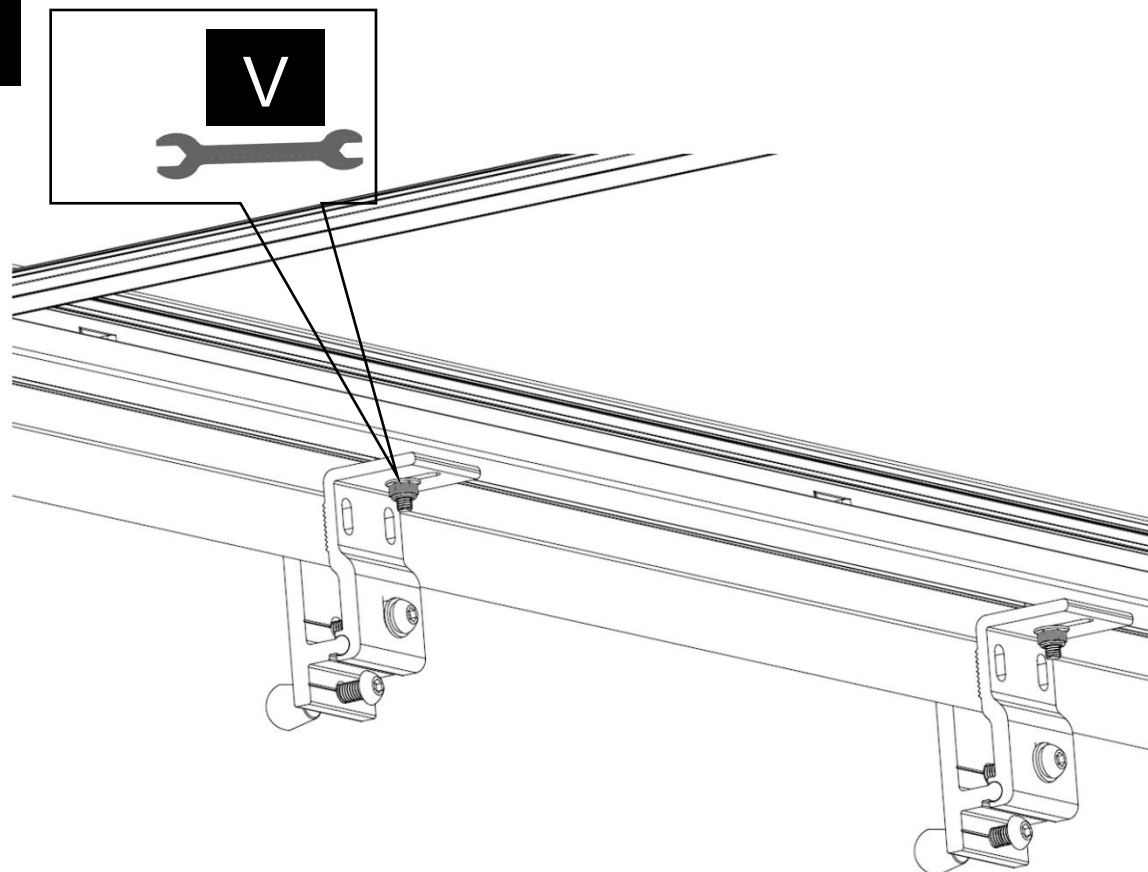


Close the cover with remote key.



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



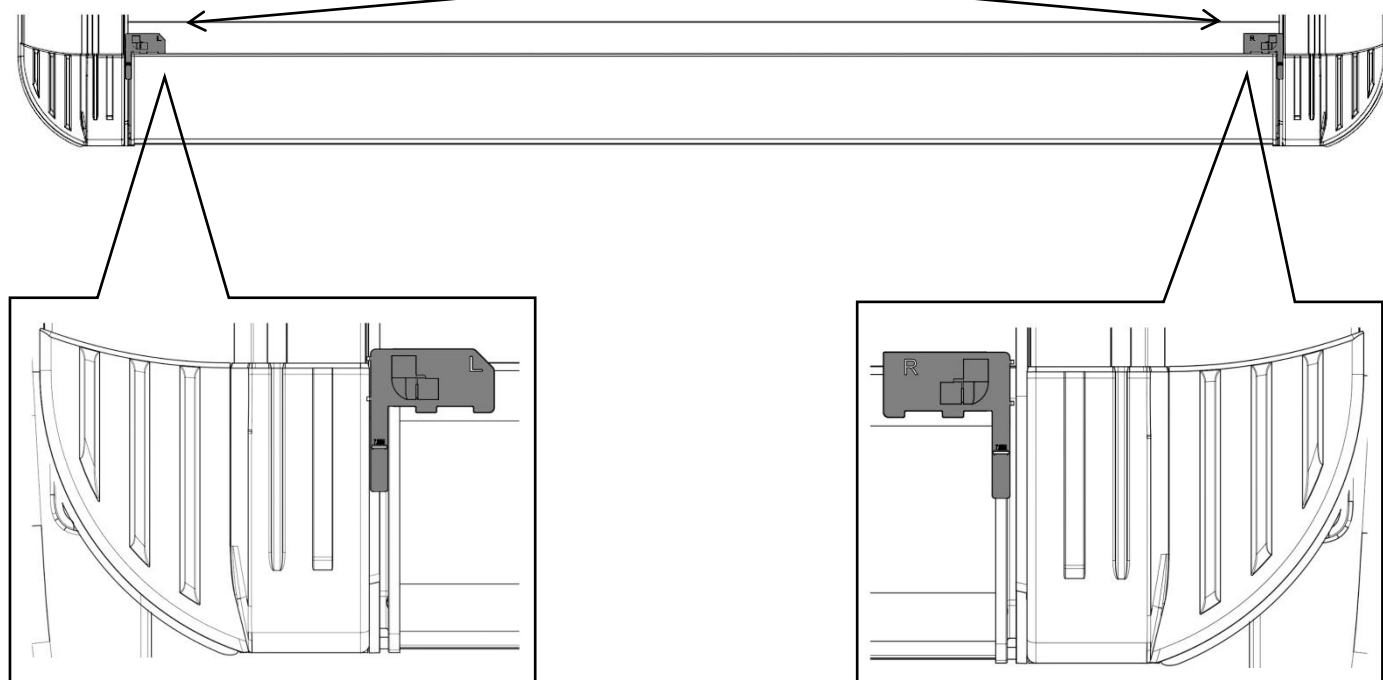
Tips: Remove gauge M5 after tightening the bolt.

Tighten the nuts with wrench.

Option2: Gauge M6

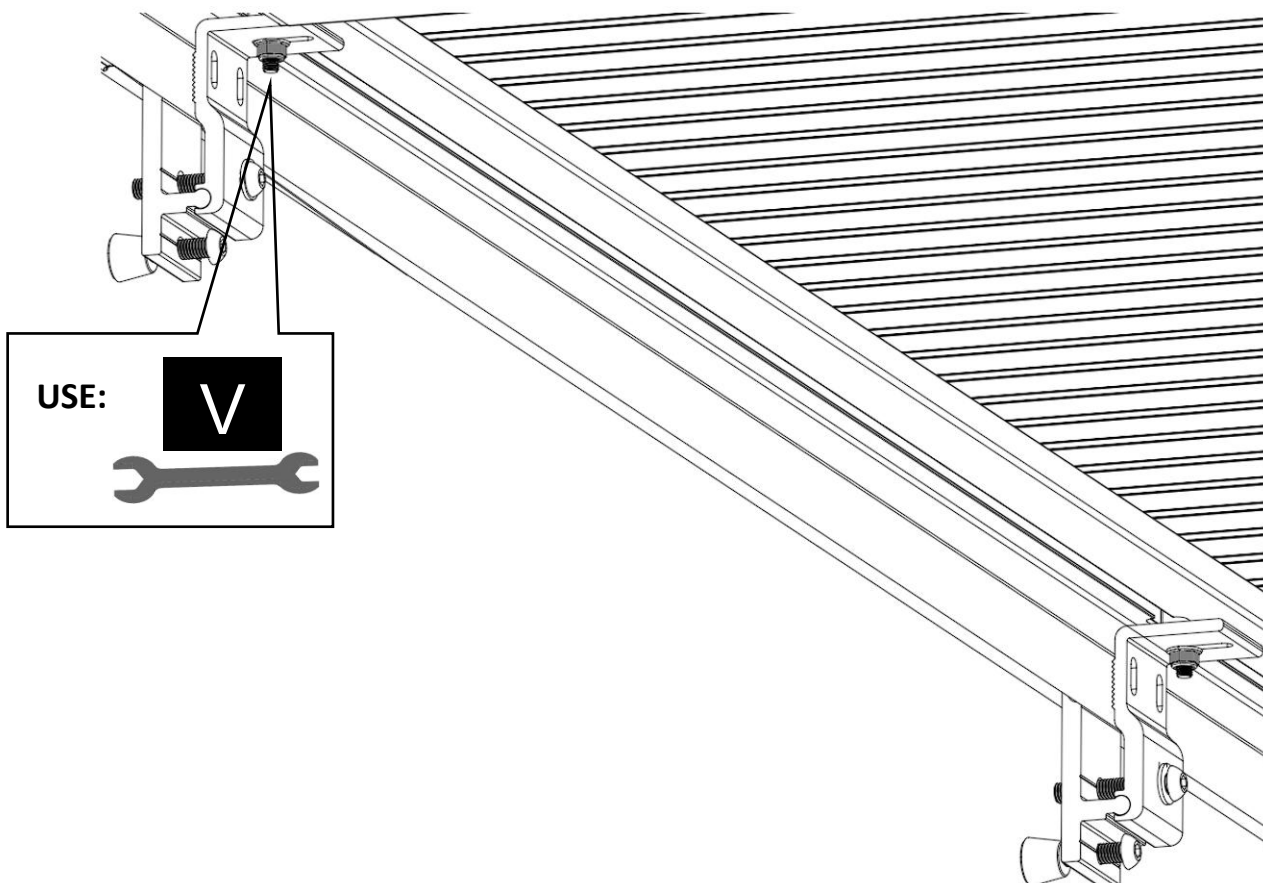
28

M6



Tips: This is another way of adjustment.

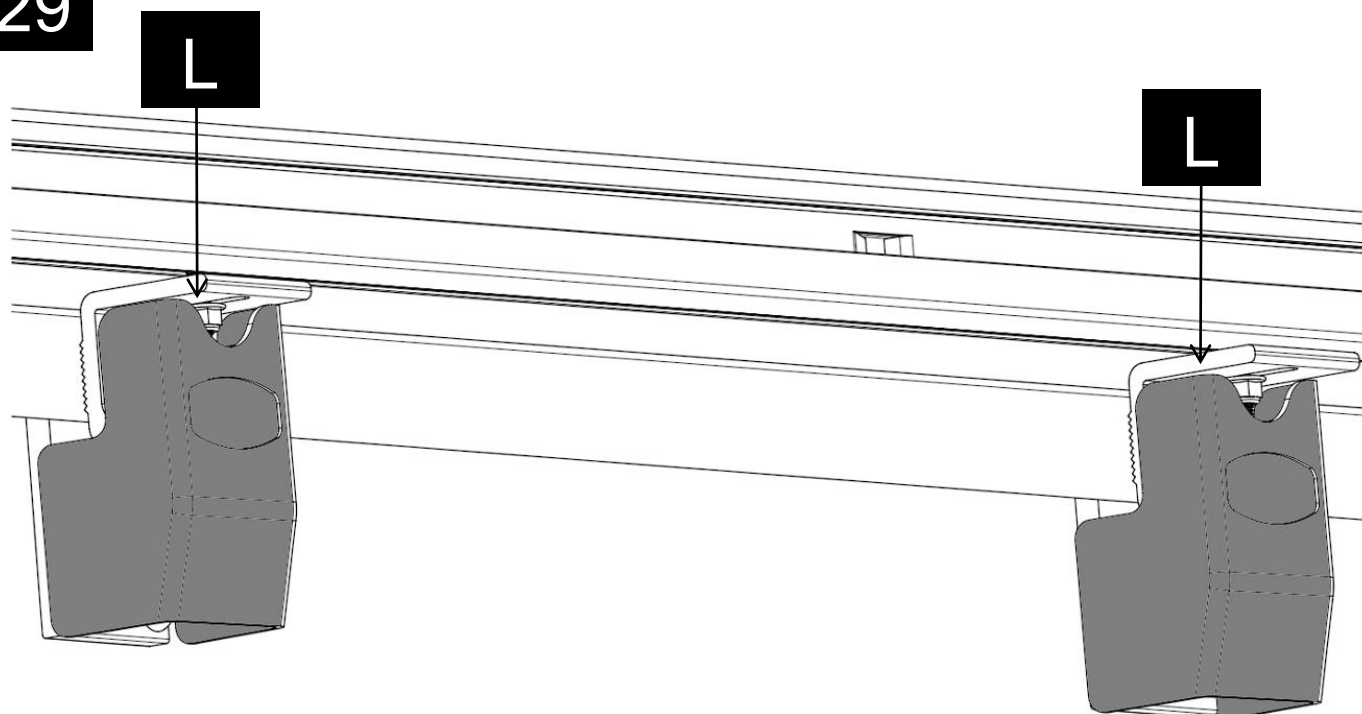
Close the roller, and place the gauge M6 between tailgate bar and side bar ends, gap between 7 -9 mm is the best state.



Tips: Fix the nuts on both sides first, then take away the gauge M6.

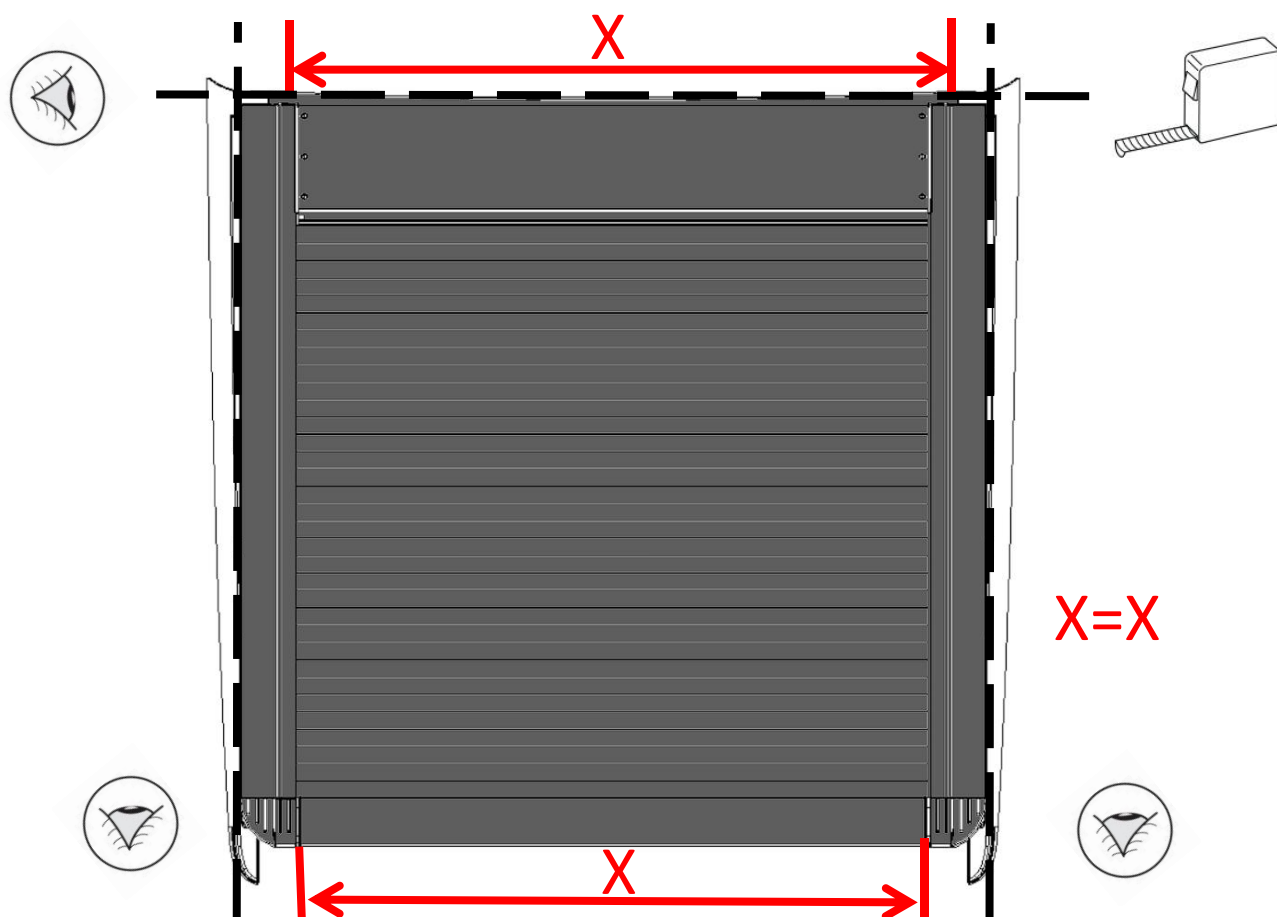
Tighten the nuts of the rear brackets with wrench V. Then open the cover and tighten the front bracket nuts.

29



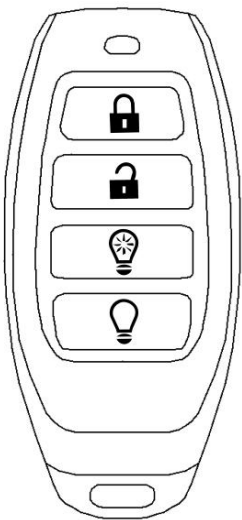




Tighten all remaining bracket nuts and install all bracket covers.

### 3.Operation

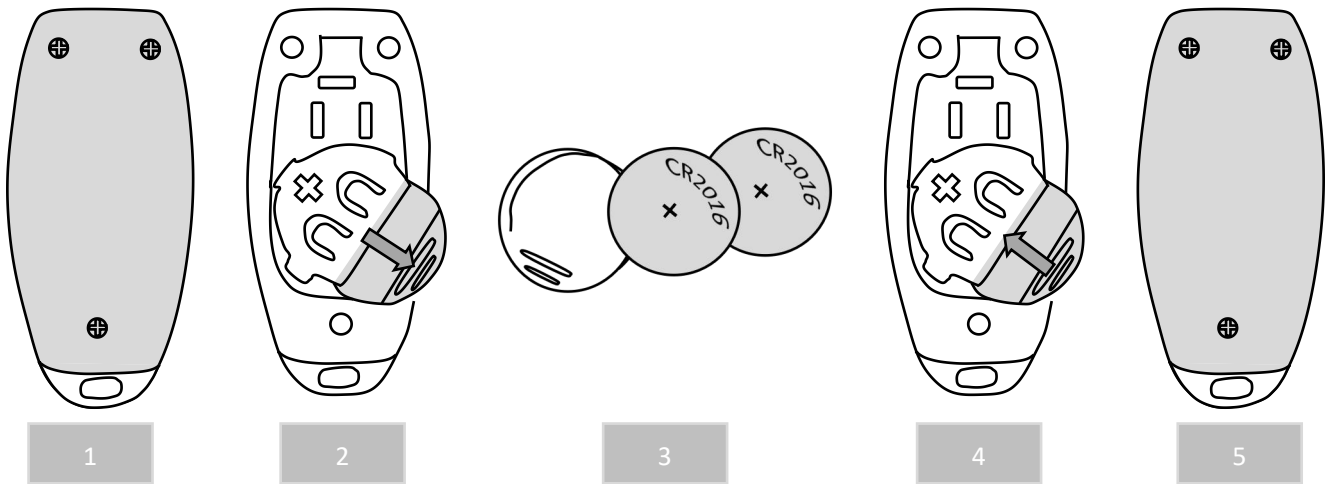


Make sure all the bolts are tightened; Close the roller and see if the roller is parallel on both sides as shown in pic. Measure if the distance are the same in front and rear(within 2mm difference is the best state).

#### 3.1 Remote Key

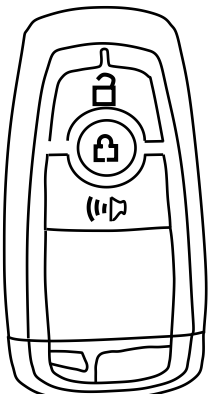
|  | Button  | Button name | Description  |
|---|---|-------------|--|
|   |  | Close       | 1. Press the button to close the cover if its under static mode.<br>2. Press the button to stop the cover if its under moving mode.  |
|   |  | Open        | 1. Press the button to open the cover if its under static mode.<br>2. Press the button to stop 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.<br>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.  |

How to replace the remote key batteries:

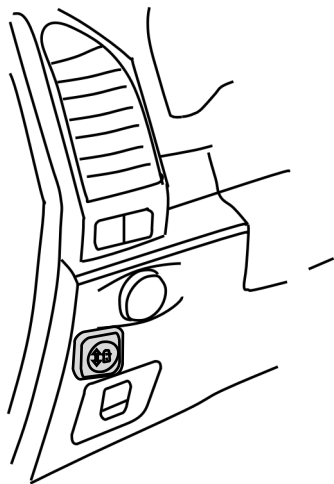


| Remote Key Extras             |                               |  |  |
|-------------------------------|-------------------------------|--|--|
| Key combination function      | Sound of successful operation | Operation  | Remarks  |
| Code Match                    | 1 long 1 short                | Press 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    | 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

| 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 in 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).  |

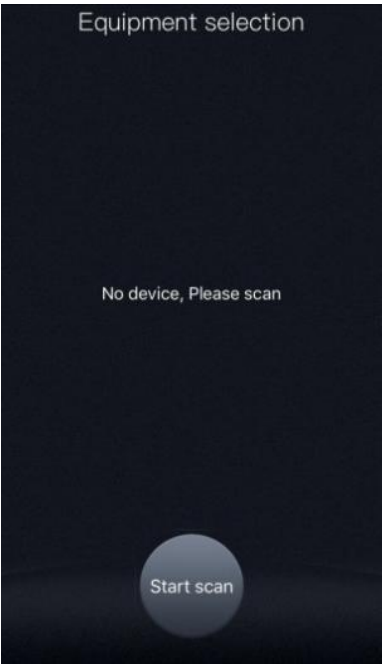
### 3.3 Front Button Control

|  | 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 the cover. |            |  |
|--|---|------------|--|
|  | 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;<br>2. When the cover is stopped and under an open state, press again to close;<br>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. | <br>Please use wechat to scan this QR code. |
| 1. You need to turn on your phone's Bluetooth to connect to the cover.<br>2. Initial password:123456.<br>3. Please change the password after login. |  |  |

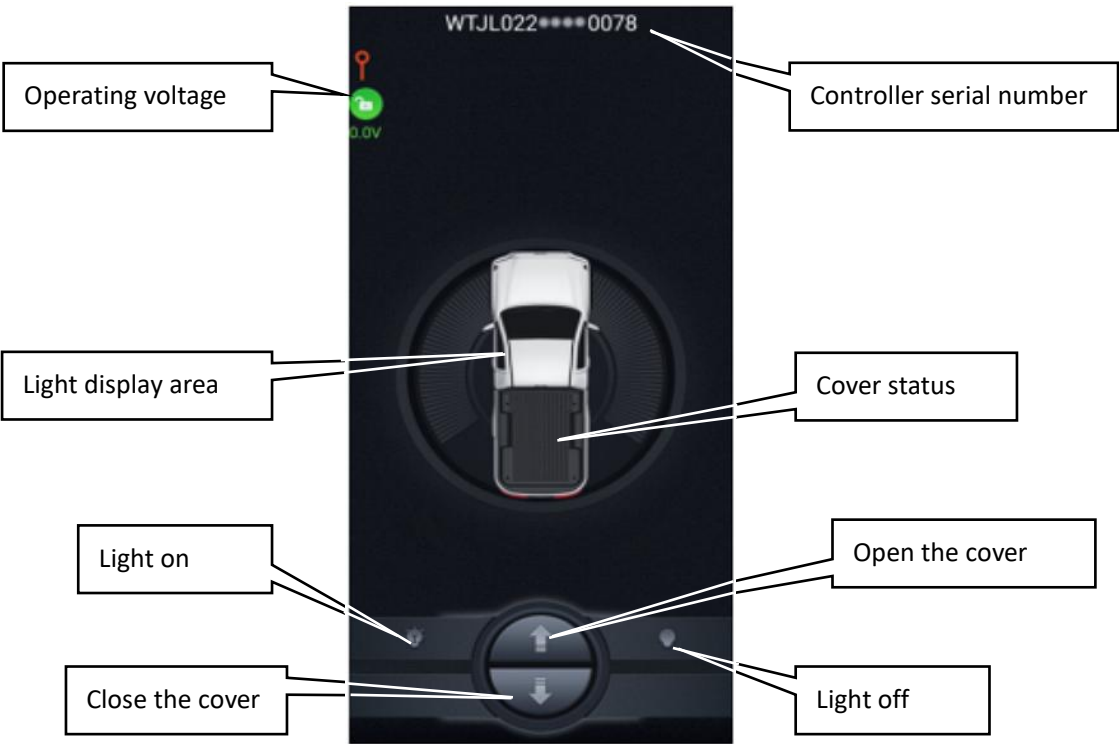
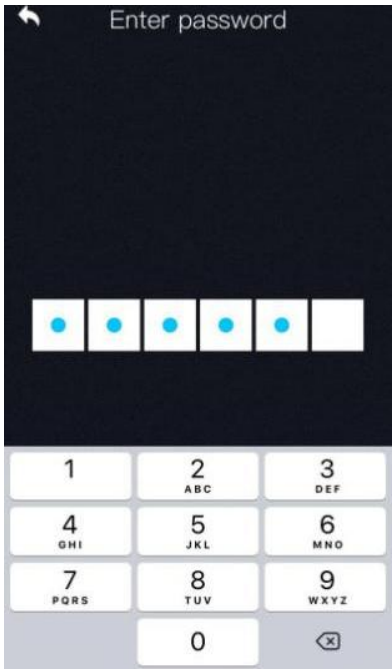
1. Enter the interface



2. Search for cover



3. Enter the password



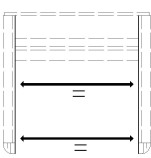
## 4.Maintenance

### 4.1 Common Problem Solution

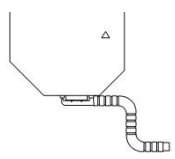
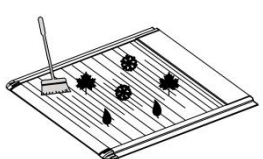
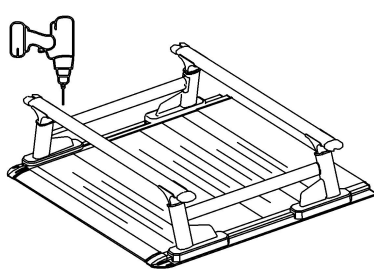
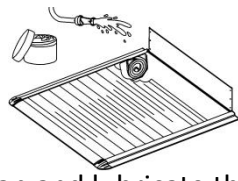
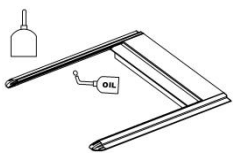
Cover abnormal operation alarm sound:

| 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                                |

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.<br>2.Big resistance leads to non-smooth operation.<br>3. Side bars deform due to heavy load for sport bar/ladder rack etc. |  | 1. Use the installation gauges.<br>2. Adjust the side bar installation to make sure the front and rear distance are the same.<br>3. Pull the roller out completely and measure the gap between tailgate bar and side bar ends, gap between 7-9mm is the best.<br>4. Check if the side bar is deformed by the pressure of other heavy load parts. |
| 2      | Abnormal sound-4 short                   | No Hall signal detected.   |   | 1.Unplug and replug the controller connector as well as the motor.<br>2.Replace the controller or motor.   |
| 3      | The remote key can not control the cover | 1.The cover not power on.<br>2.Low battery in the remote key.<br>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 or roller burnt out.<br>2.Check if the indicator on remote key is obviously dimmed or no light when you press the button, then replace battery.<br>3.Do code match for the remotes.                                  |

### 4.2 Daily Maintenance

|  |   |   |
|--|---|---|
| <br>Keep the drainpipe free from blockage.          | <br>Clean the litter before use.                     | <br>Drill holes on the truck for installing heavy loading parts. |
| <br>Clean and lubricate the canister every 6months. | <br>Clean and lubricate the side bars every 3months. |   |

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.