



AUTOMOTIVE ACCESSORY
MANUFACTURE & DISTRIBUTION

AIRPLEX INDUSTRIES LTD
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FITTING INSTRUCTIONS FIT1346

PLEASE READ INSTRUCTIONS COMPLETELY BEFORE INSTALLATION

ELECTRIC ROLLING LID NISSAN NAVARA 2021-2025

RL114E

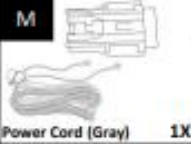
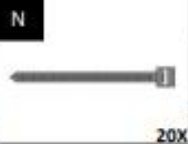
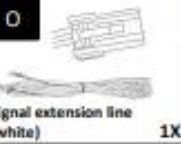
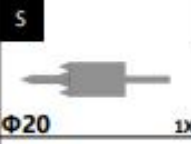
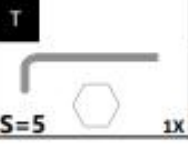
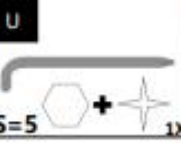
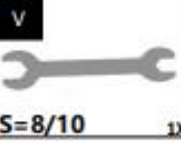
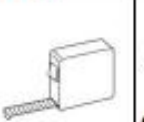
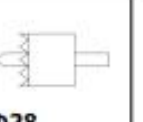
MADE IN NEW ZEALAND

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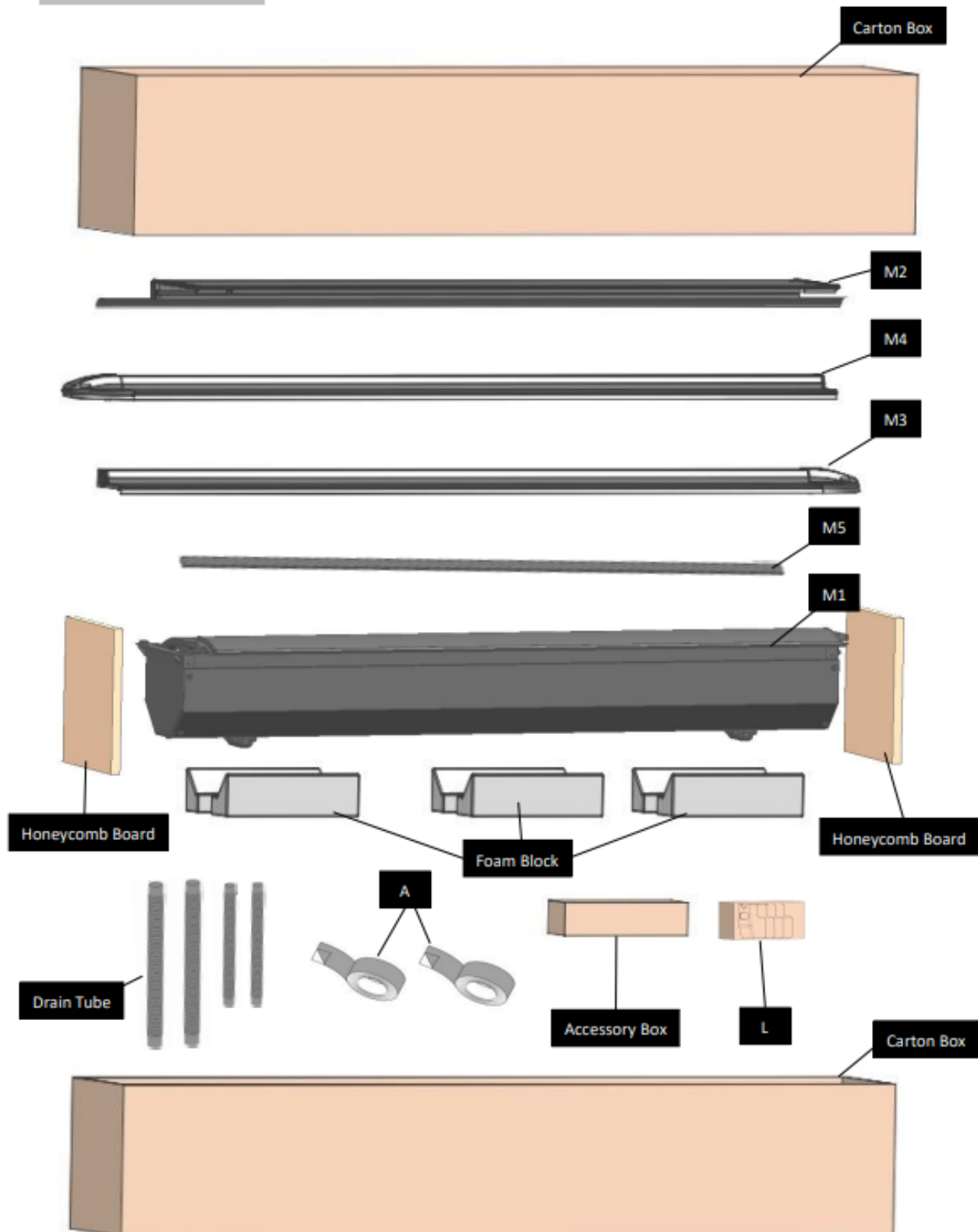
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1 Product Introduction

1.1 Bill of Material-General

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

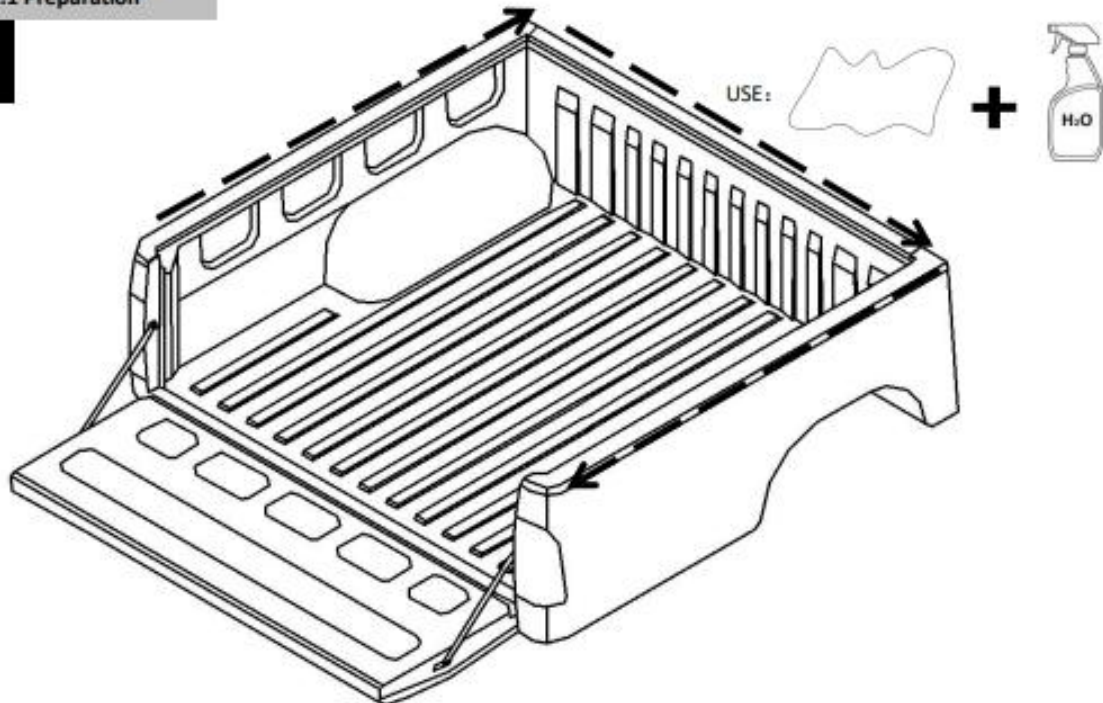
1.2 Product Components



2. Installation

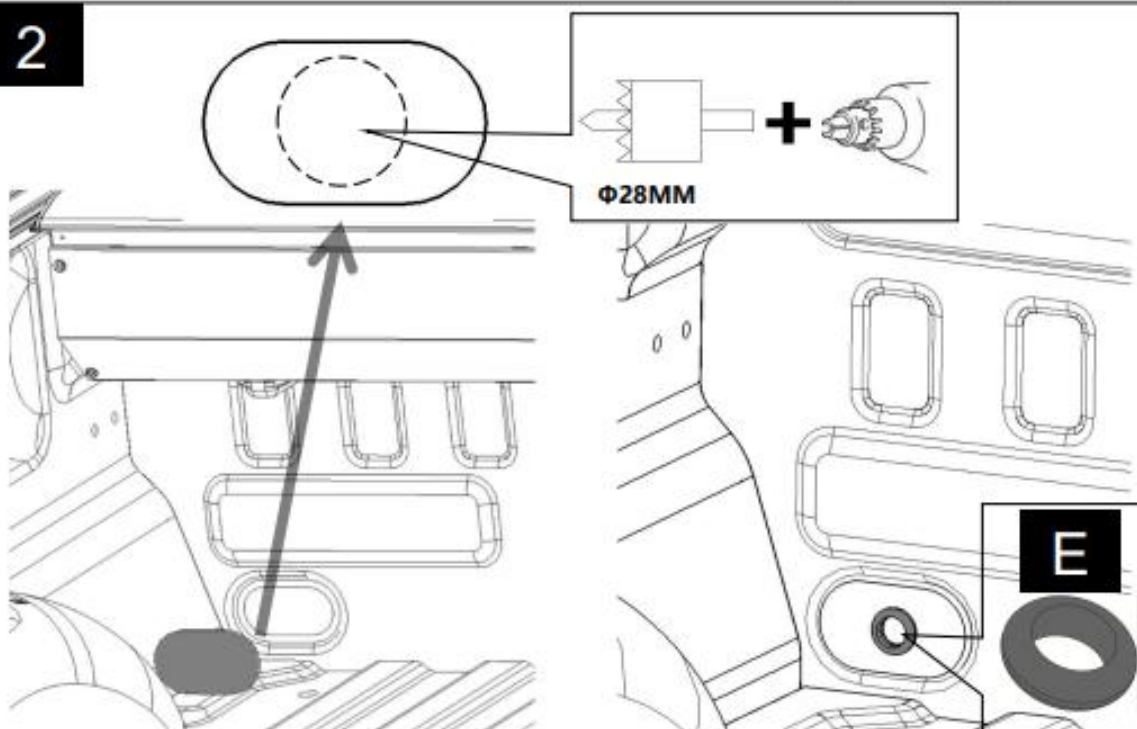
2.1 Preparation

1

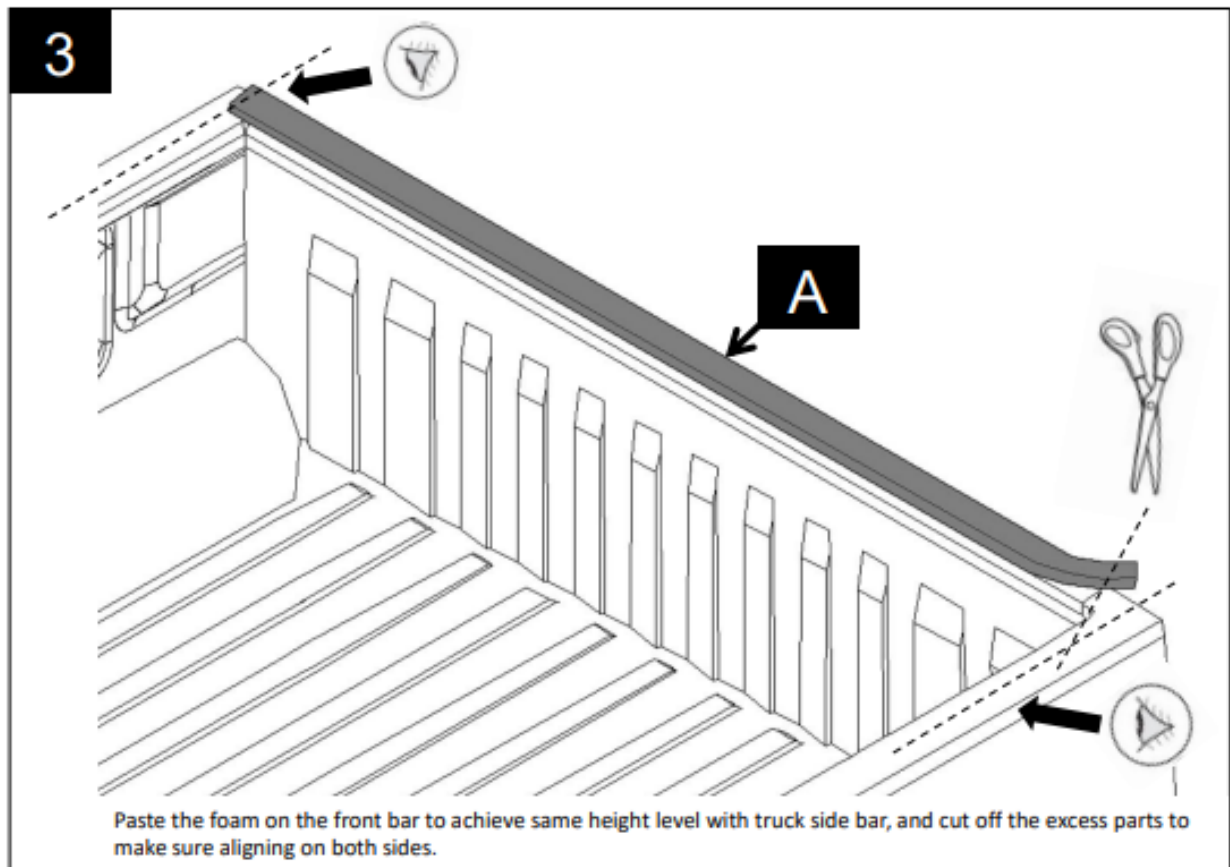


Wipe the mounting surface clean.

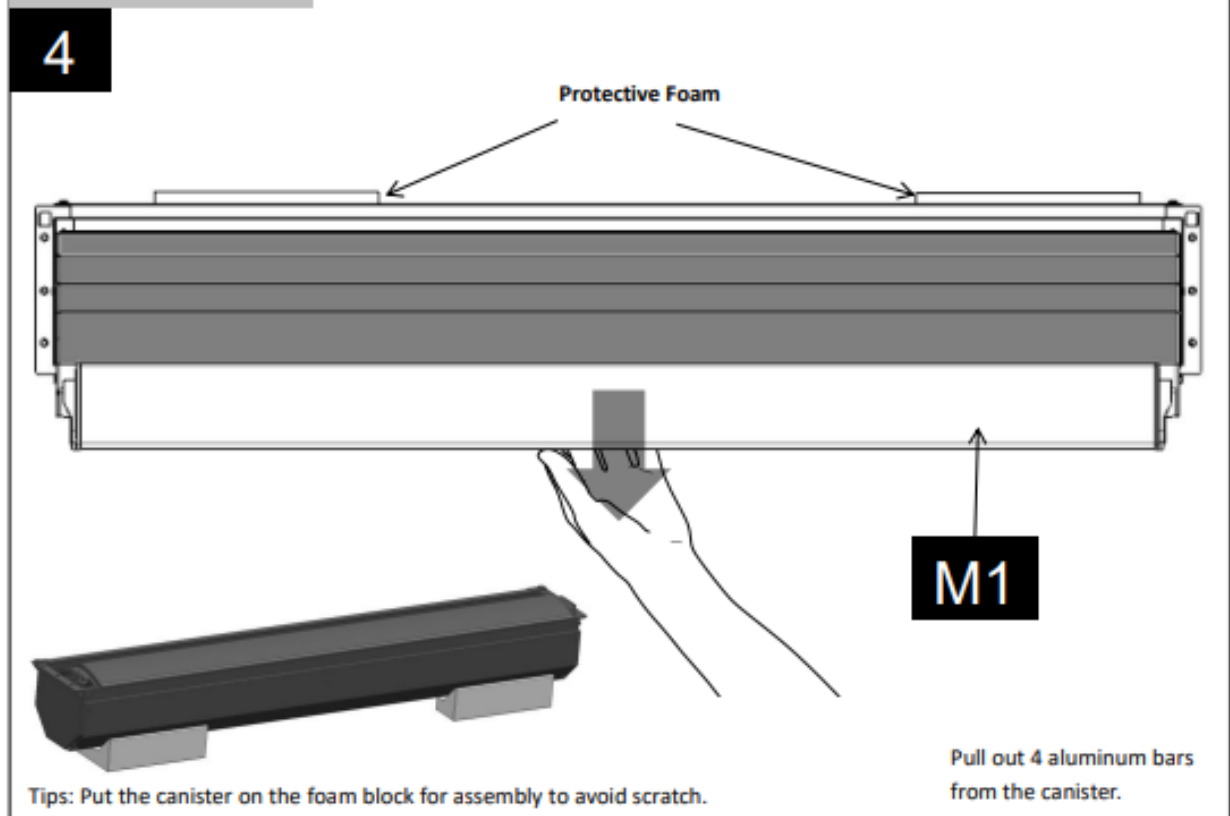
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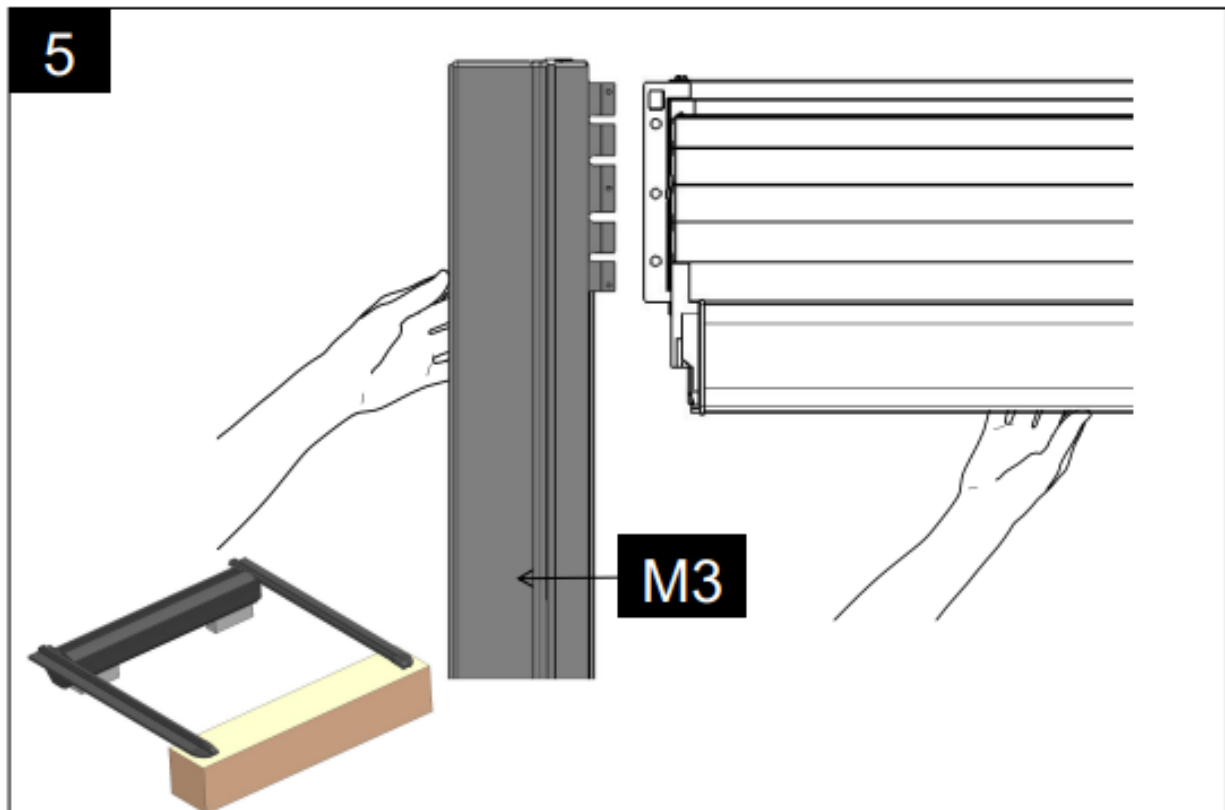


1. If there is a hole in the truck bed, no drilling is required;
2. Remove the truck bed drainage plate on both sides. Drill a $\Phi 28$ hole with the above tool (make the hole surface smooth without hurting hands and then install the rubber washer). Install the plate back;
3. The non-drainage movable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



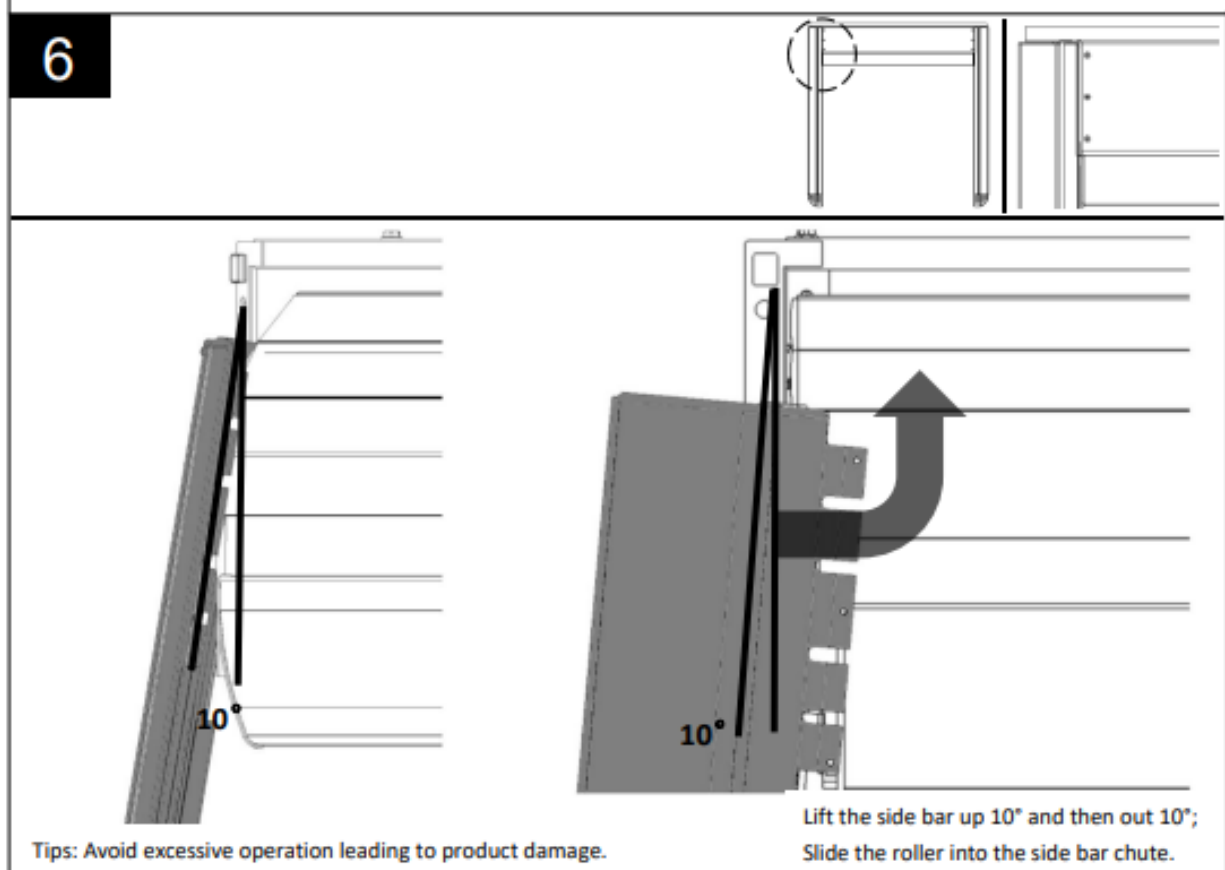
2.2 Assembly





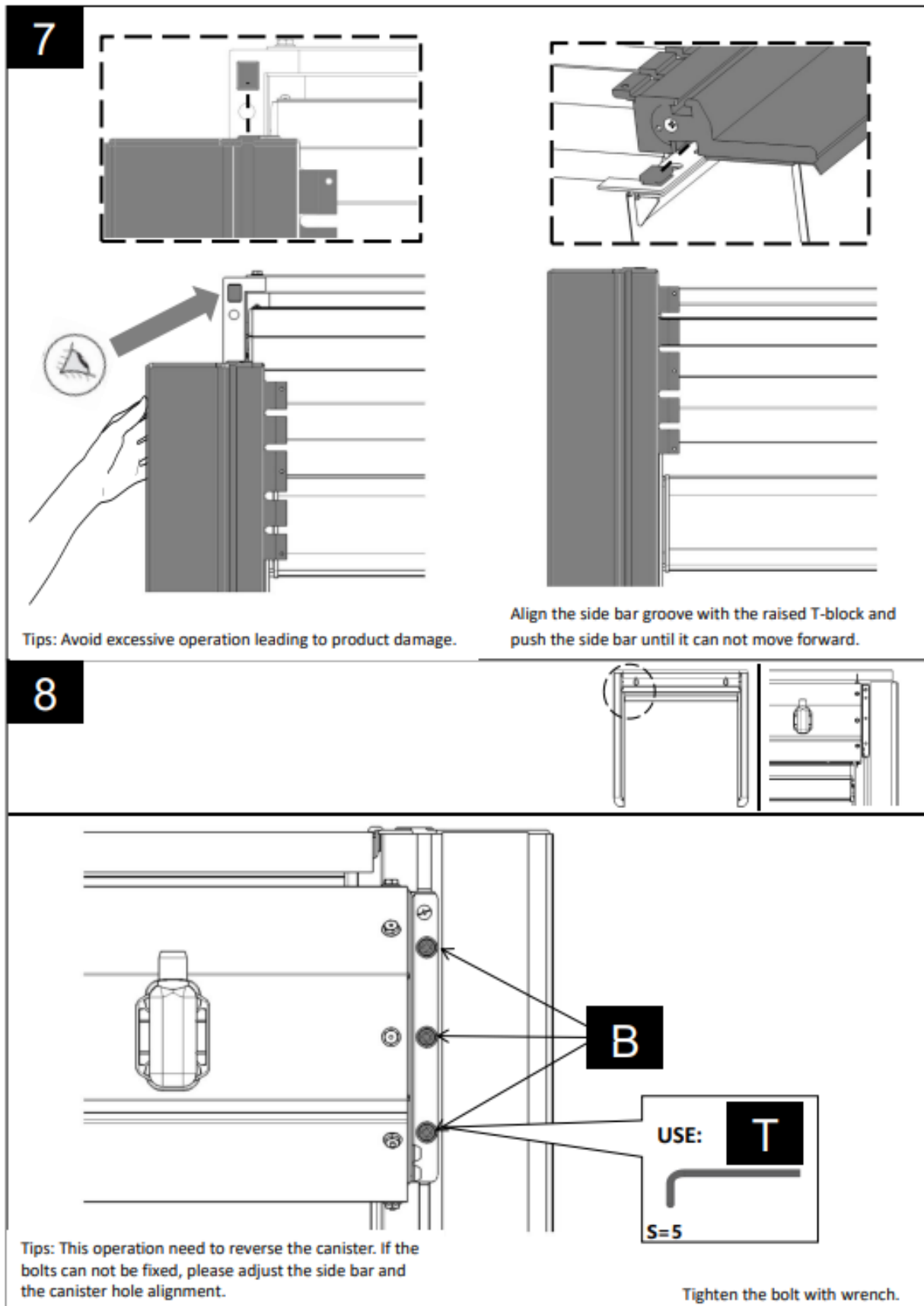
Tips: Place the side bars on carton box to avoid scratch.

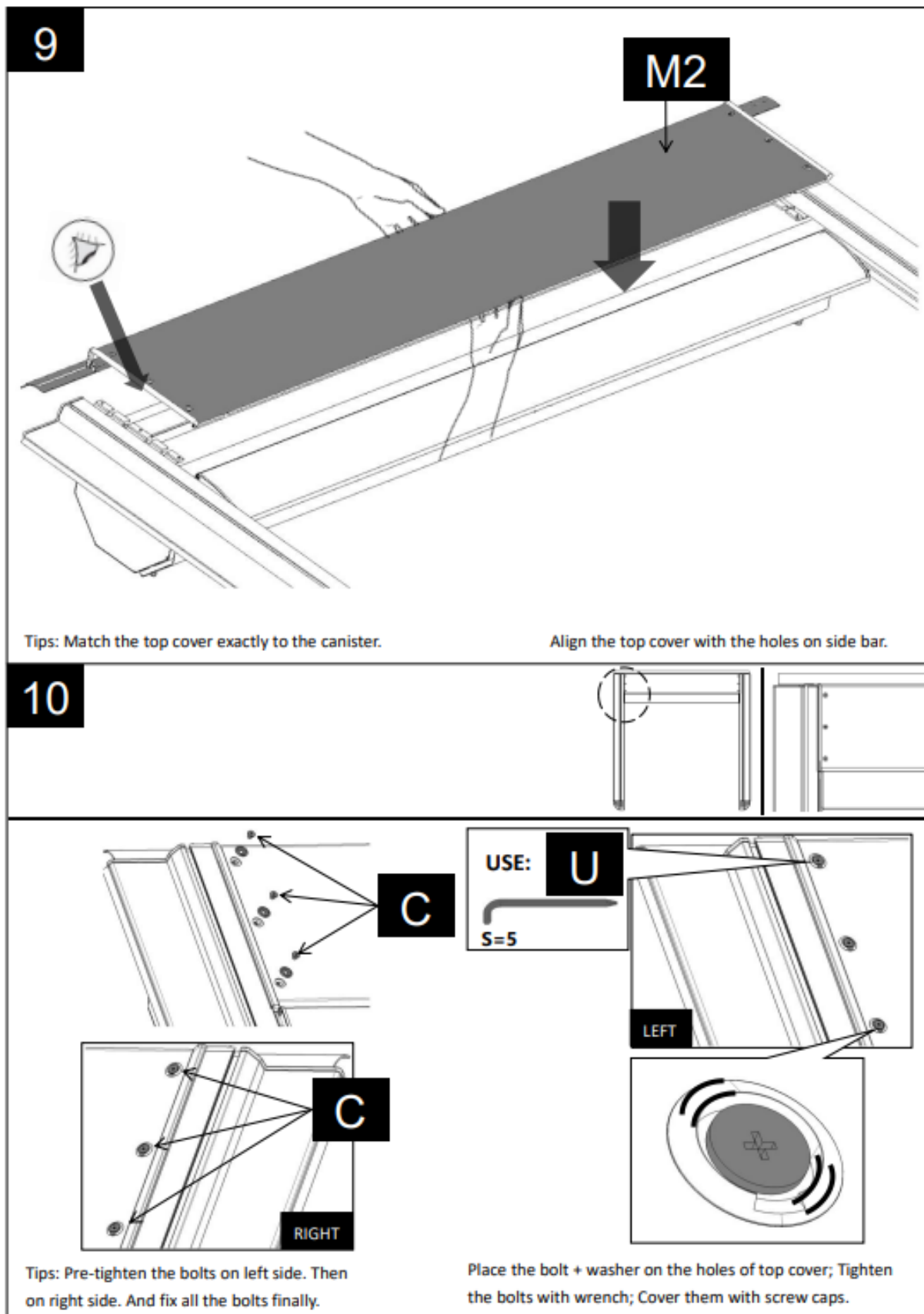
Place the side bars beside the canister as picture.

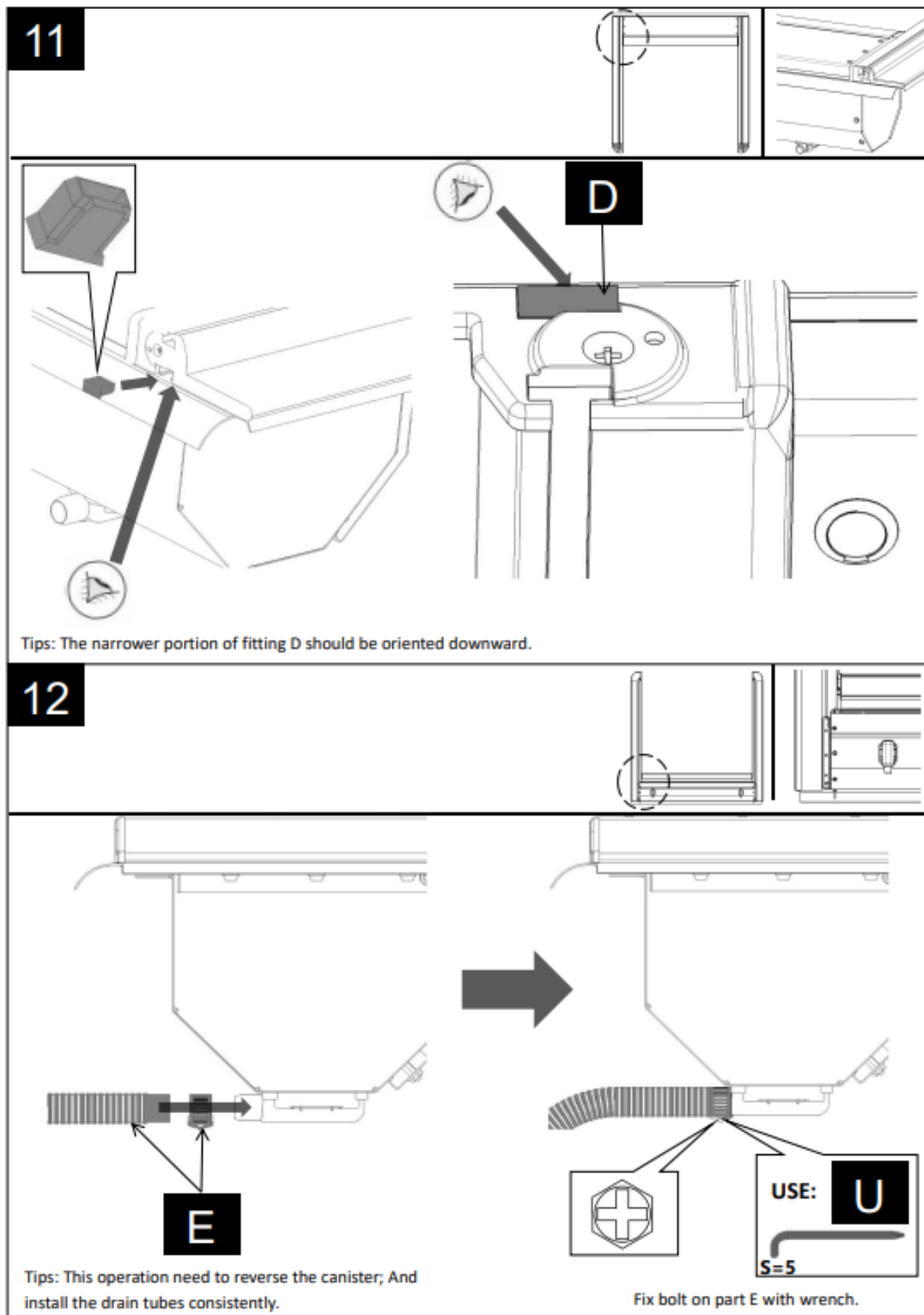


Tips: Avoid excessive operation leading to product damage.

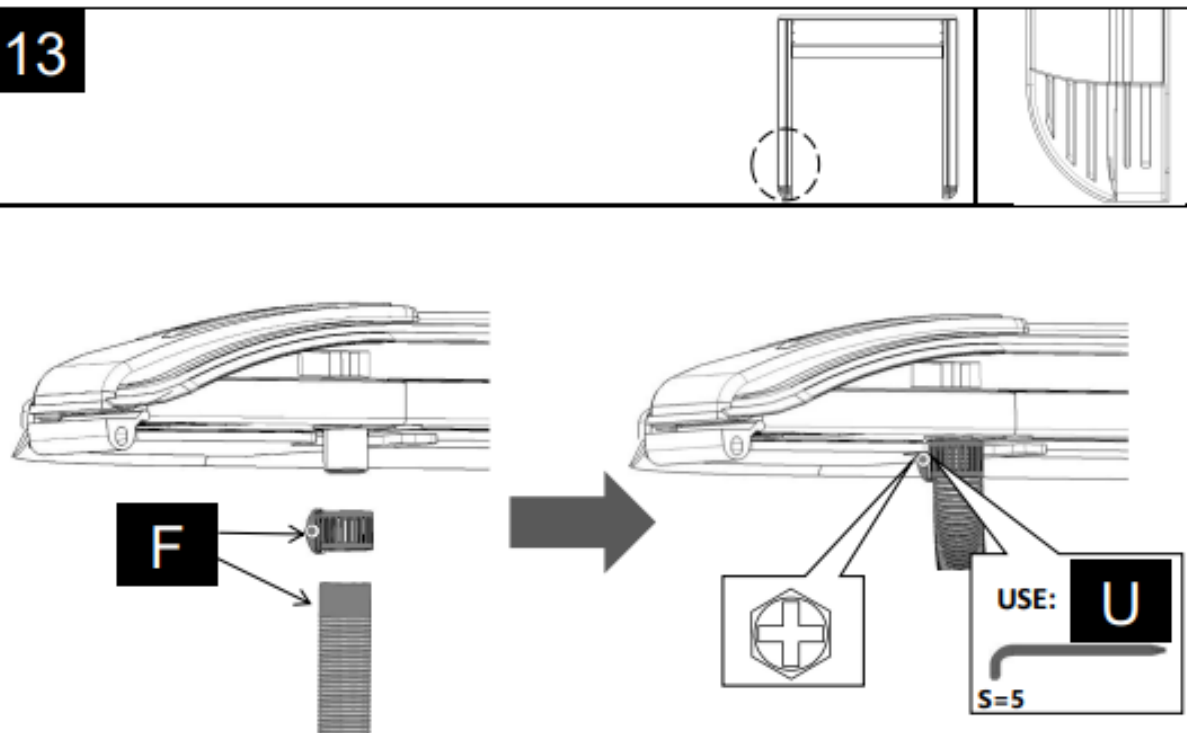
Lift the side bar up 10° and then out 10°;
Slide the roller into the side bar chute.







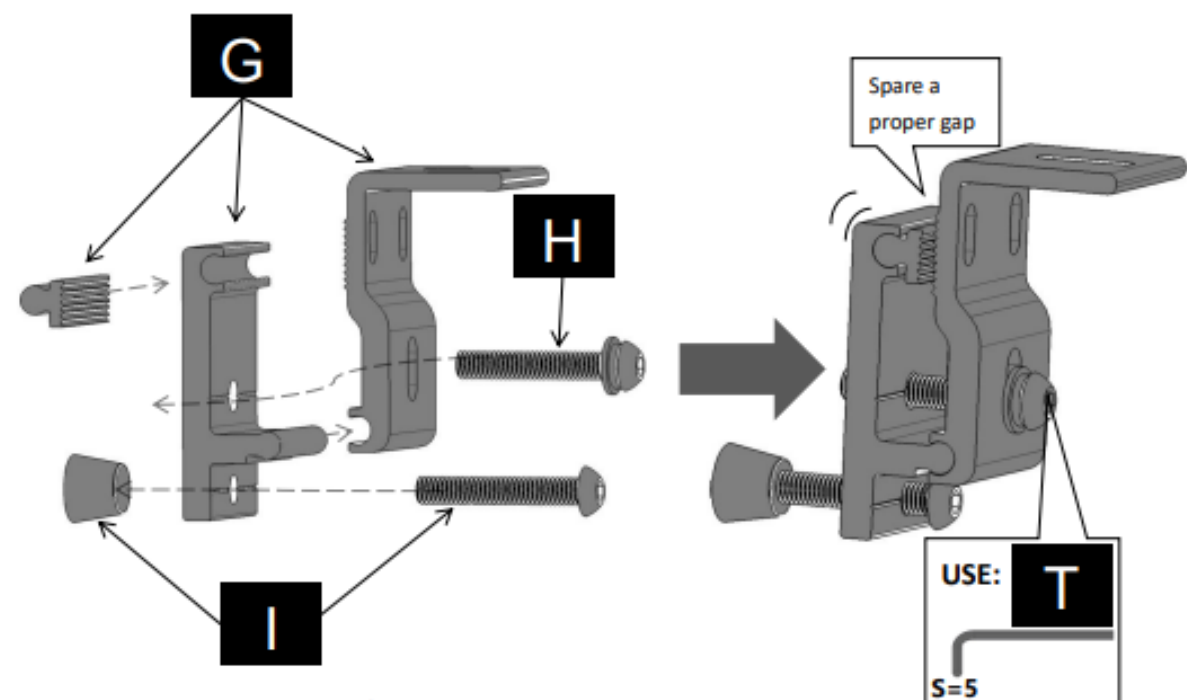
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Tips: Install the drain tubes consistently.

Fix bolt on part F with wrench.

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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.



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Running Wiring Loom Between Cab and Tub before fitting rolling lid to ute

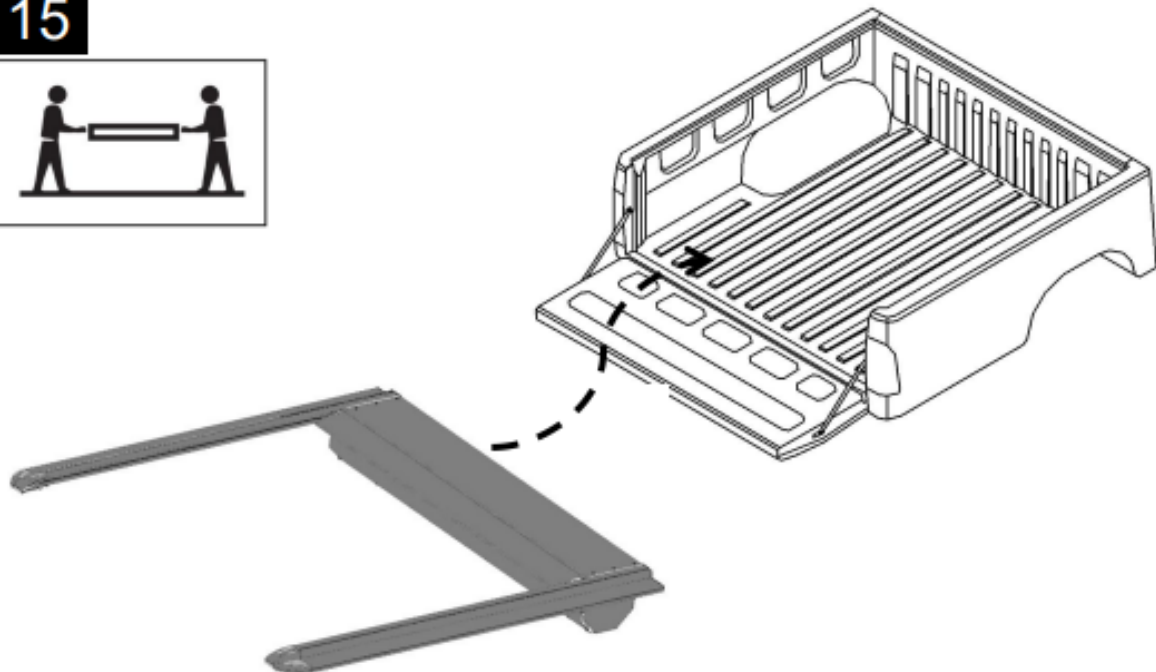
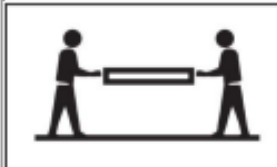
Identify a safe path between cab and tub, avoiding heat, moving parts, and sharp edges. Allow slack for body flex.

Ensure sufficient slack is provided in the wiring loom to allow connection to the rolling lid canister.

More wiring instruction below

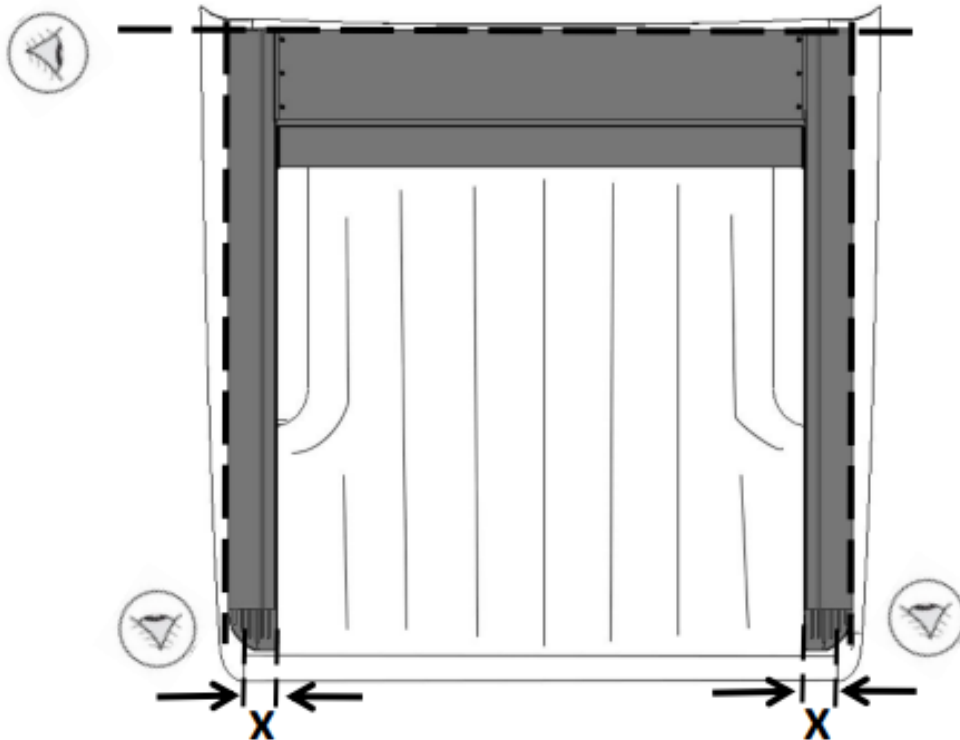
2.3 Installation

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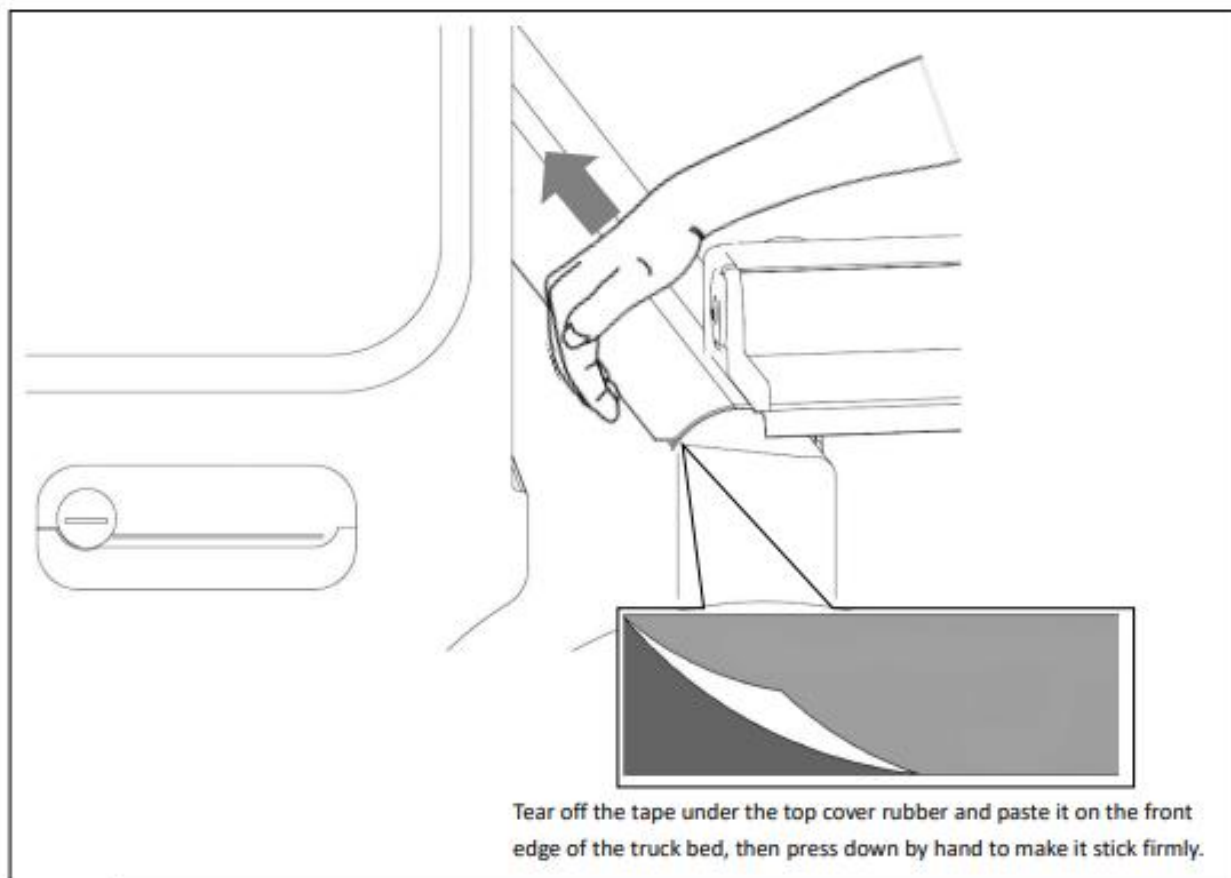
Tips: Installation requires 2 people to lift the product onto the truck bed for safety of personnel and product. Please pay attention to avoid any scratch on vehicle and product surface.

Lift the product onto the truck bed.

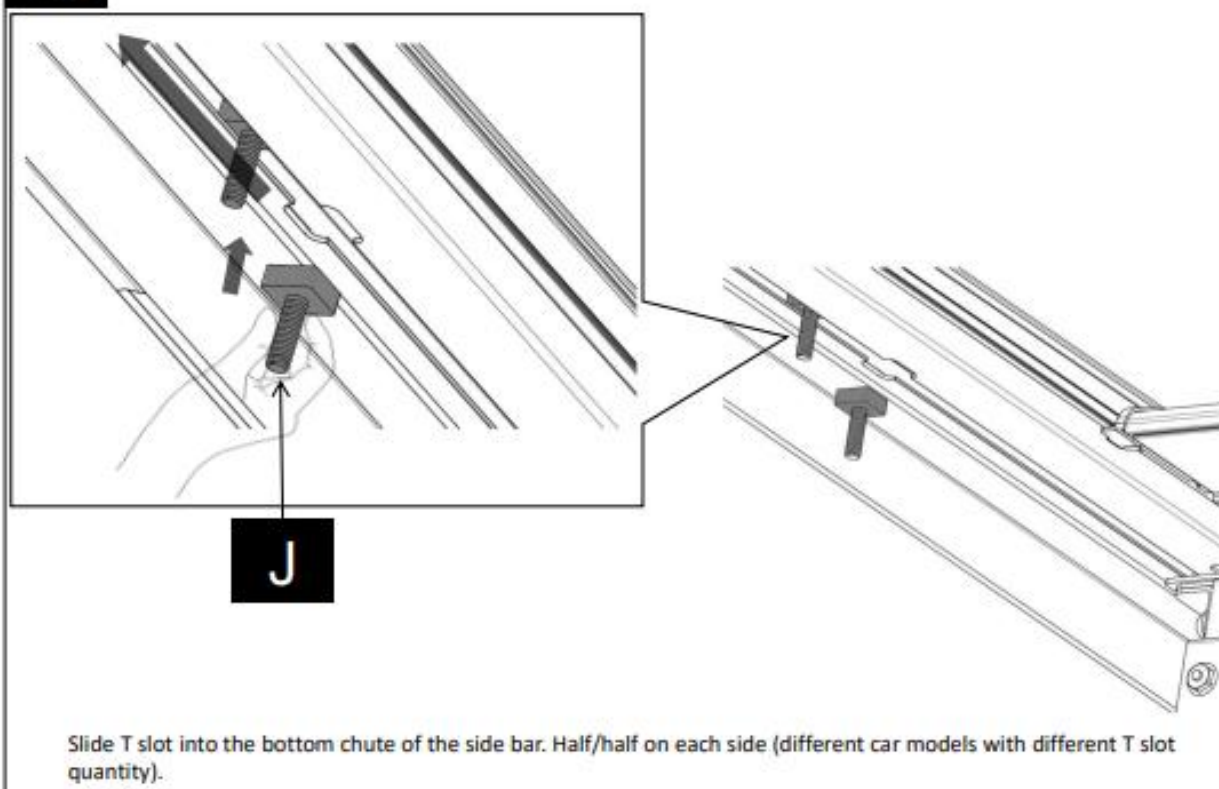


If the end cap is not covered on the tailgate for 1-2cm, you need to move the cover backward slightly.

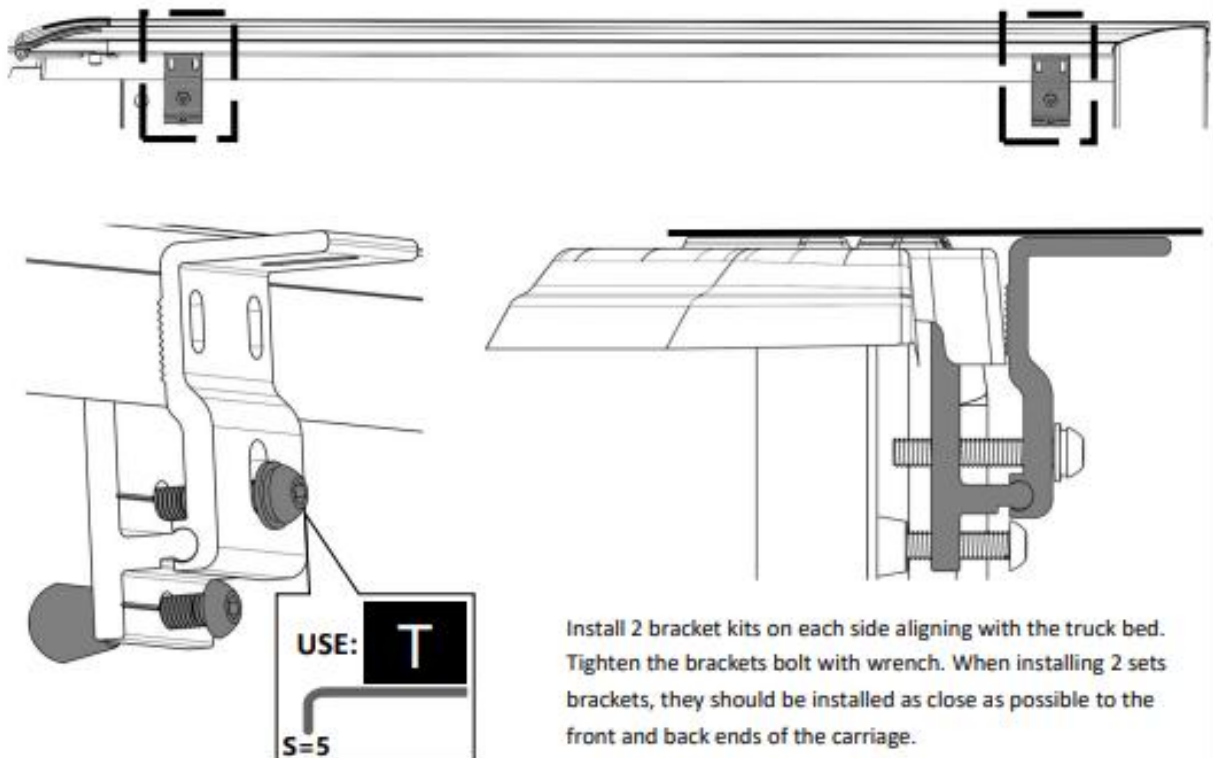
Push the roller to the end; Keep the same distance on both sides.



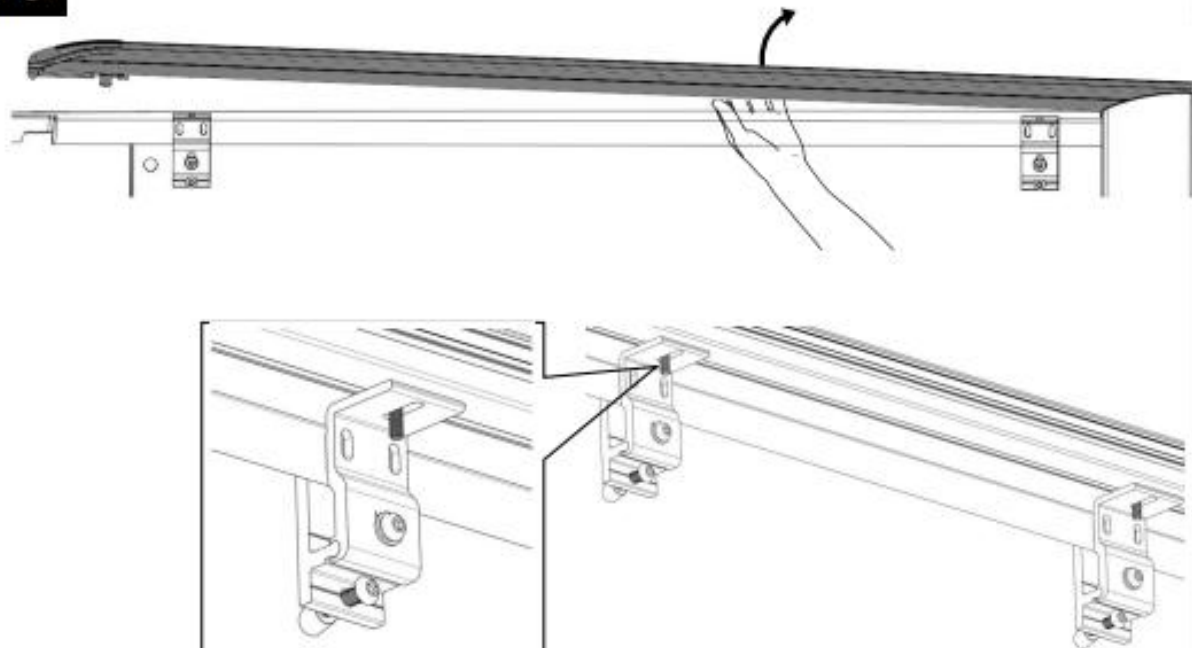
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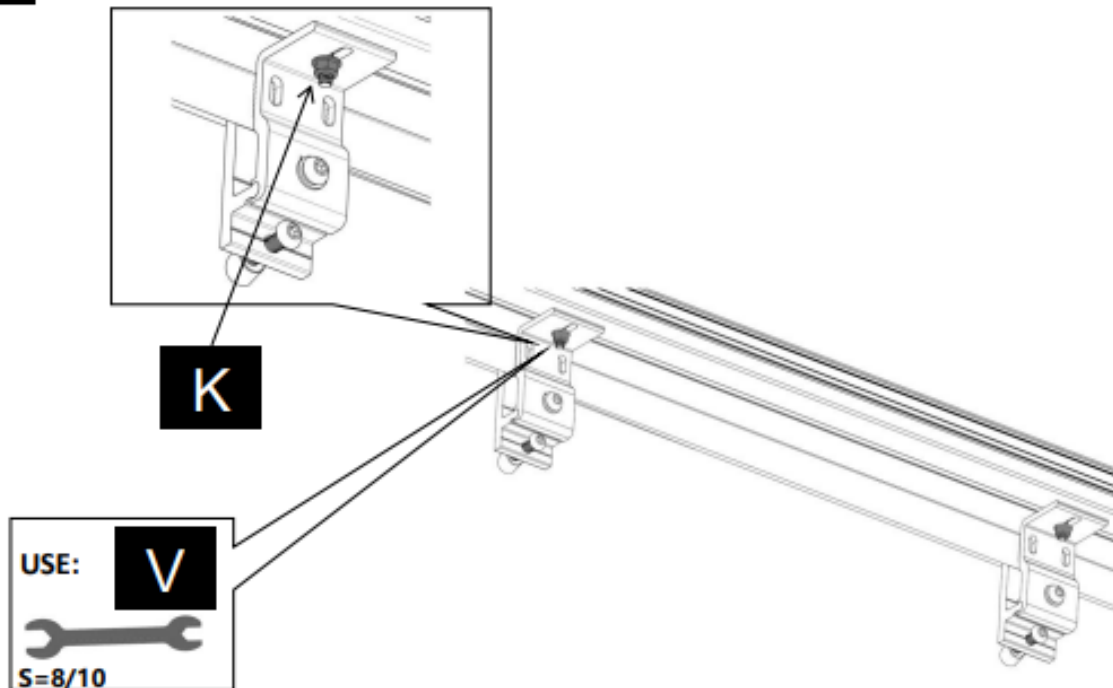
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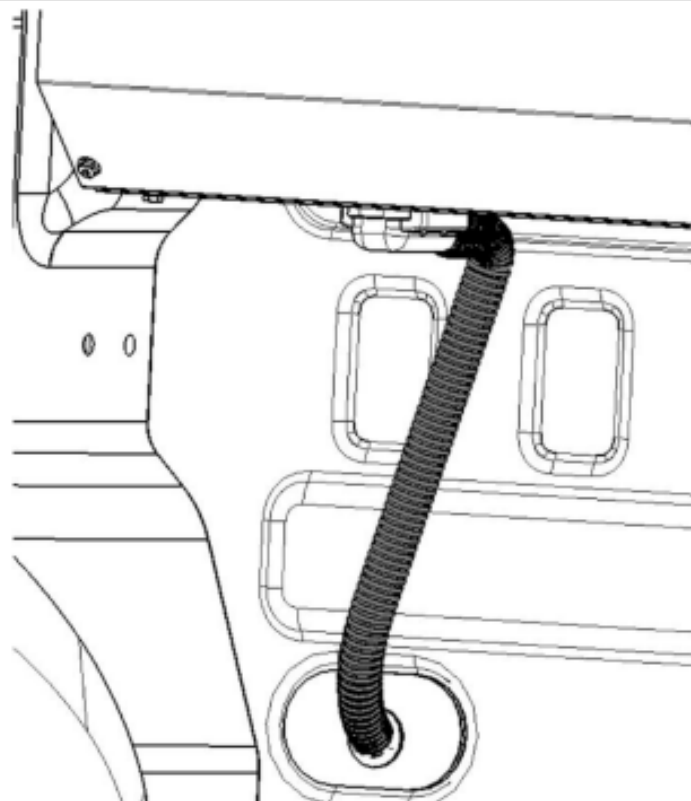
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Tips: Do not tighten completely, just pre-tighten a little bit so the side bar can still be adjusted.

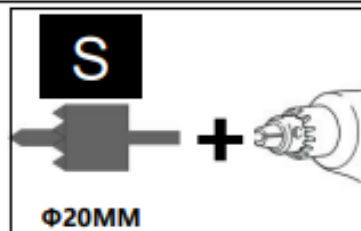
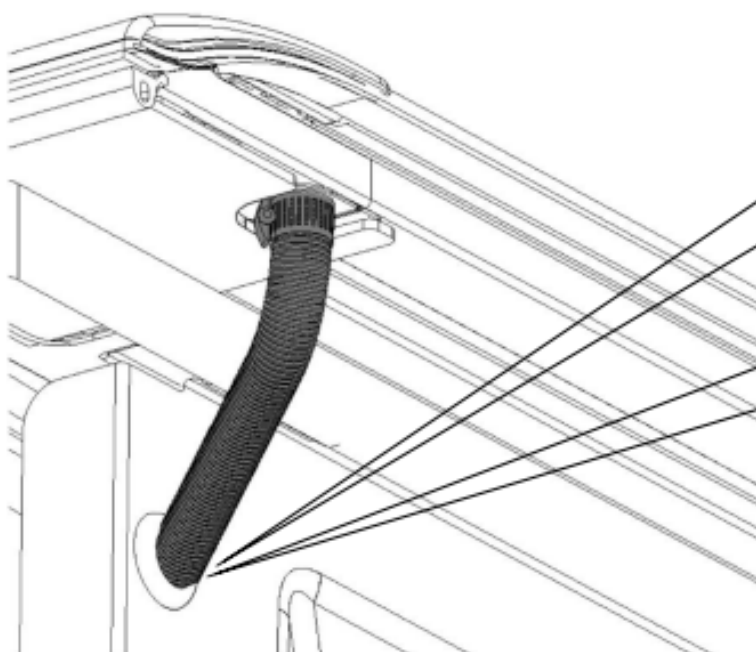
Assemble nut K with bolt, and just pre-tighten with wrench.

20



Thread the canister drain tube out of the truck bed.

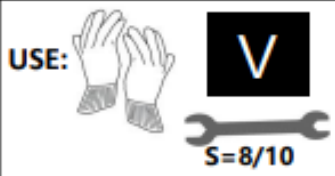
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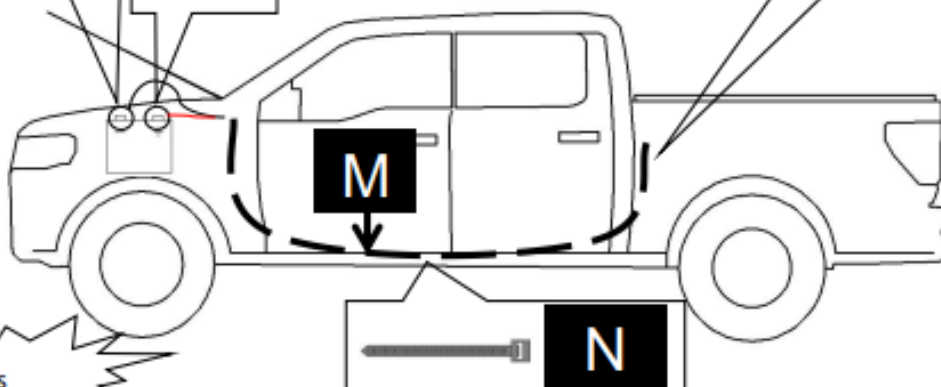
If there is original hole on vehicle around the tailgate, then thread the drain tube out of the car. If not, drill a $\Phi 20$ hole with the above tool (make the hole surface smooth without hurting hands and then install the rubber washer F).

2.4 Wiring

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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 M 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 N cable ties) and pull it out through the hole of drain tube. Connect harness M (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.

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Locate the wiring loom below at the **left-side B-pillar**.

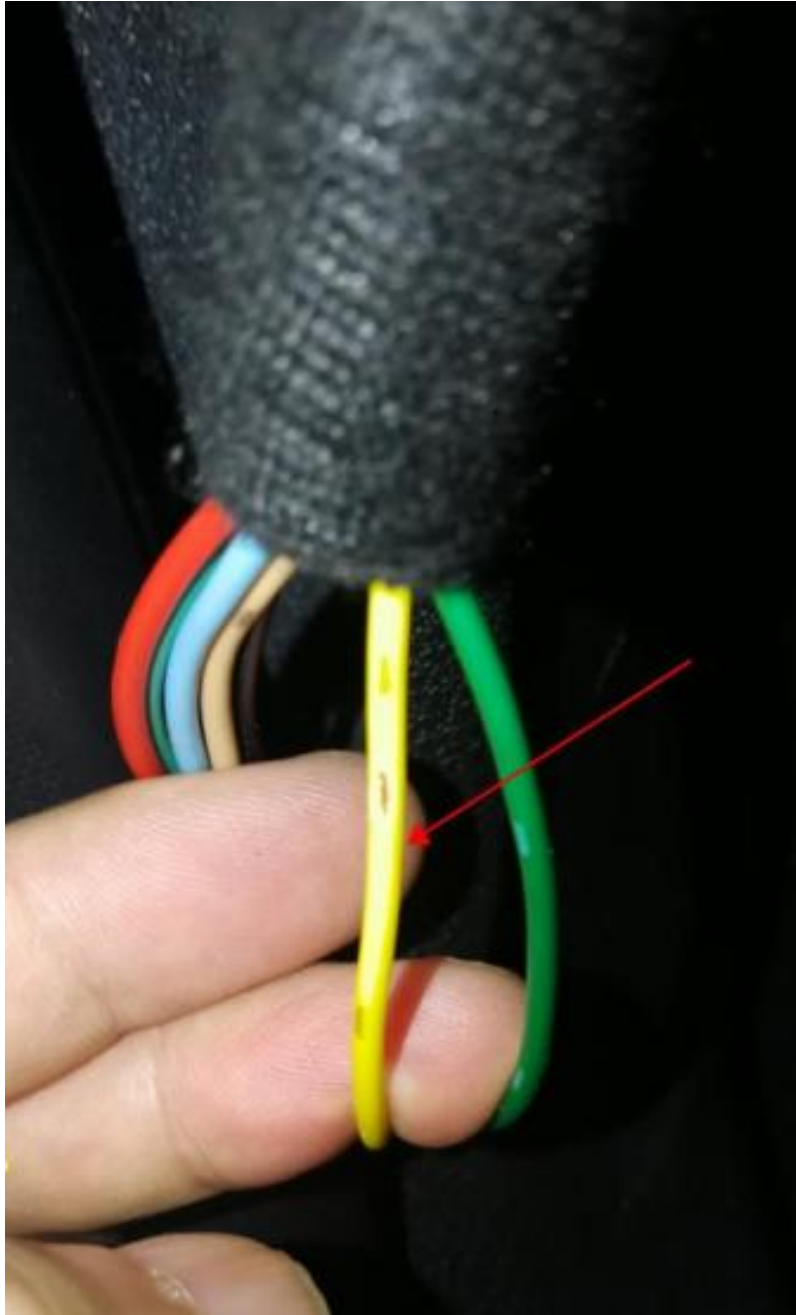


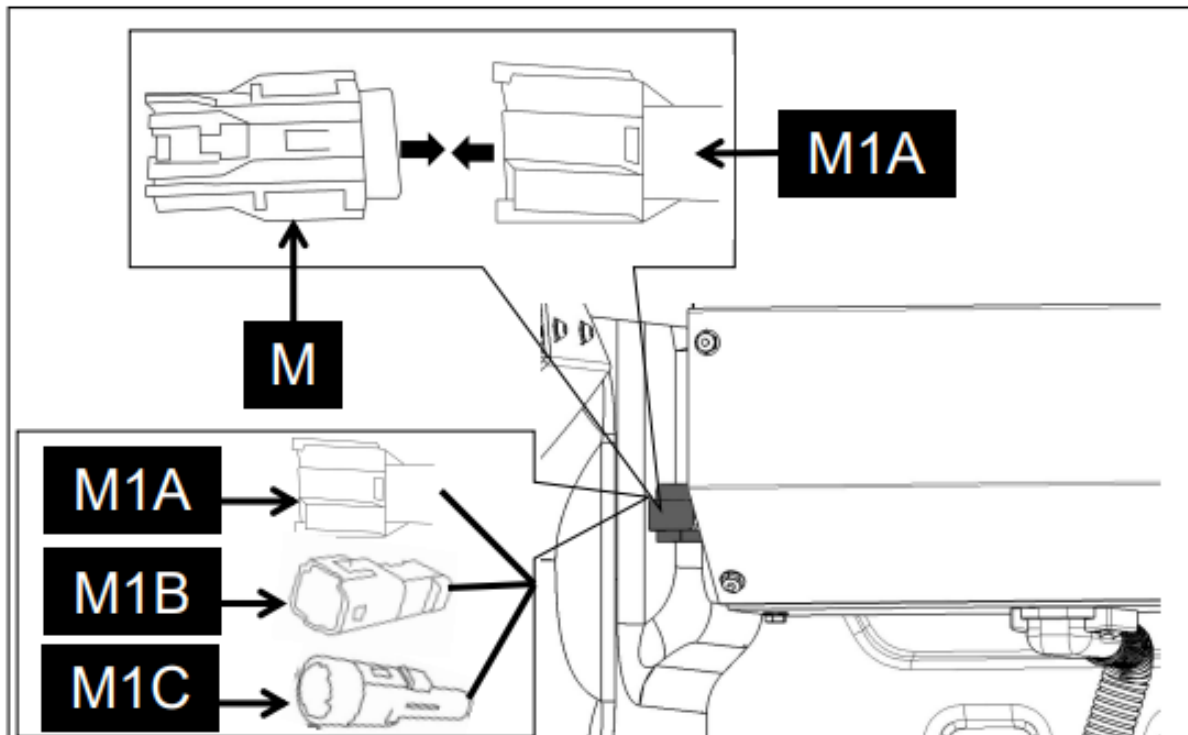
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Yellow wire – unlock signal
Green wire – lock signal

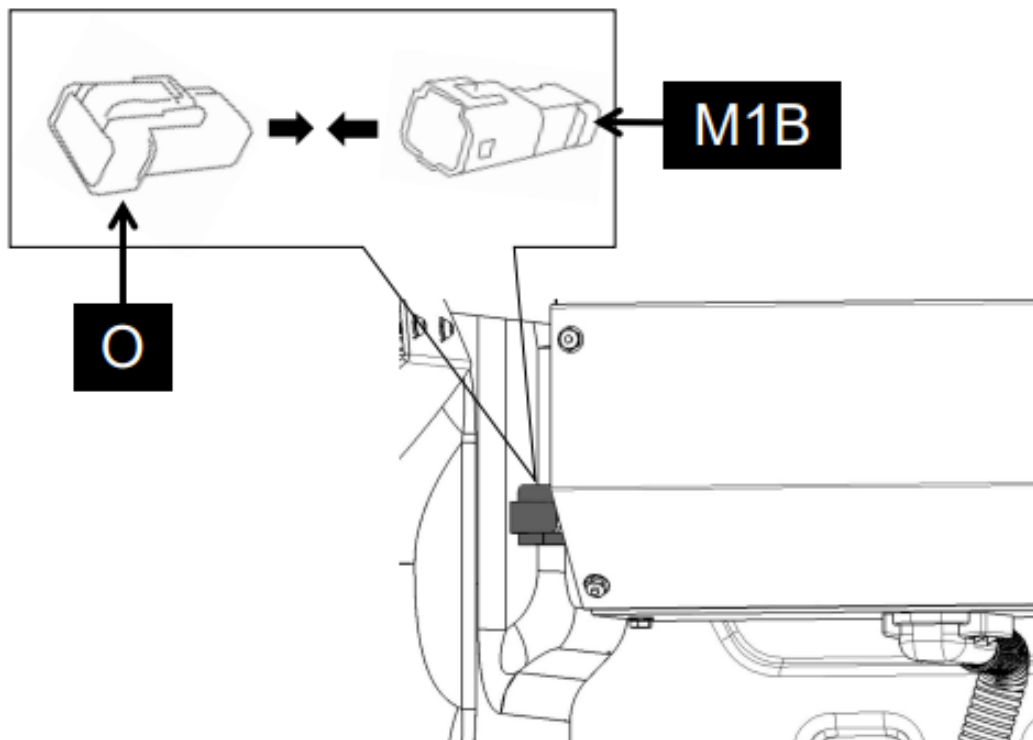




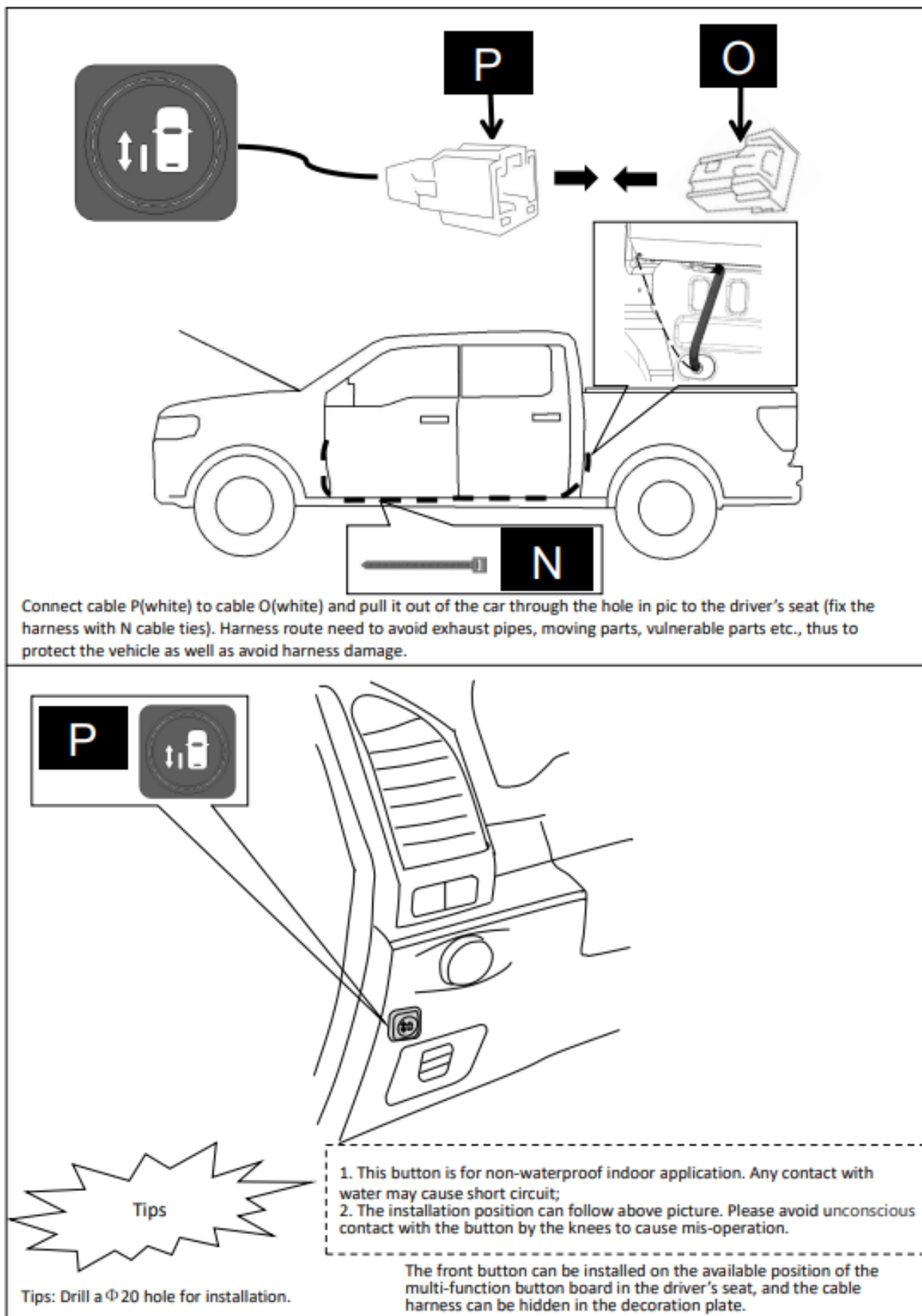
Tips: Please distinguish the above 3 different connector interfaces.

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

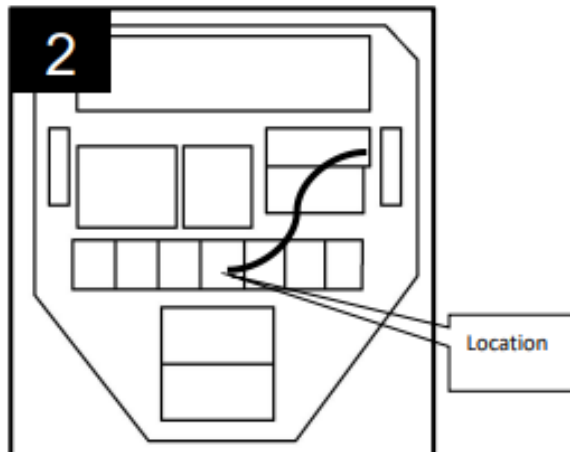
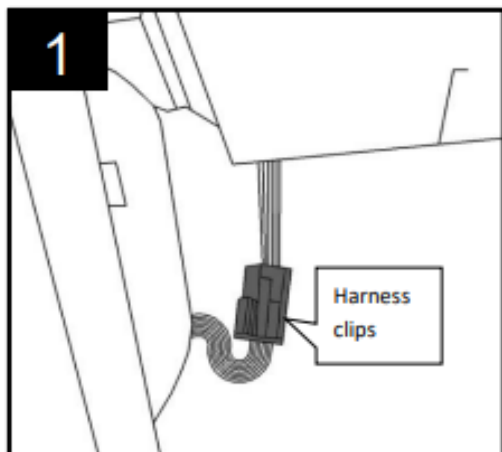
23



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

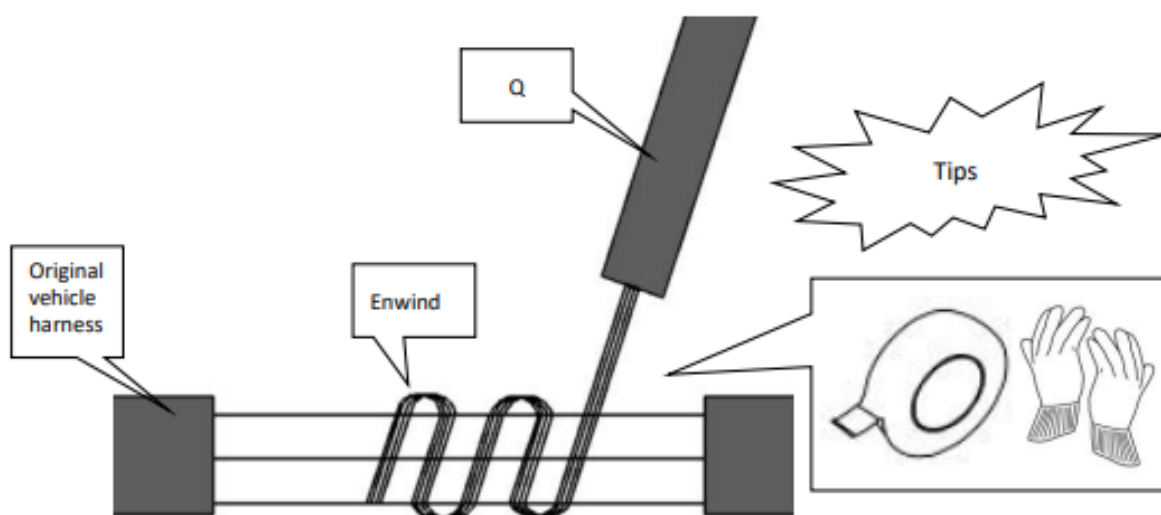


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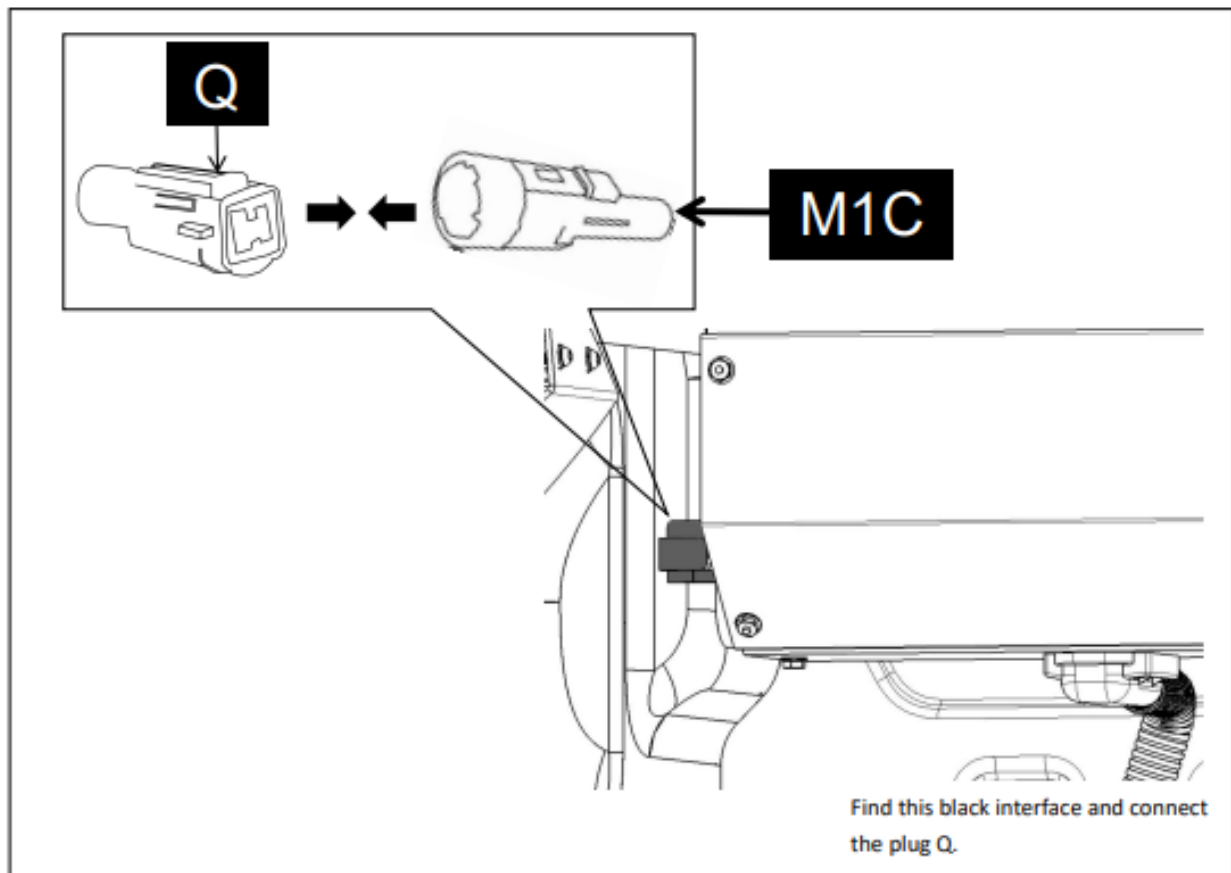


Open the trim panel of A pillar on driver's seat, and find the harness clips as pic 1; Find the location in pic 2, cut off the original vehicle wiring harness with twine scissors, and connect the original signal wire with connector Q(yellow wire).

3



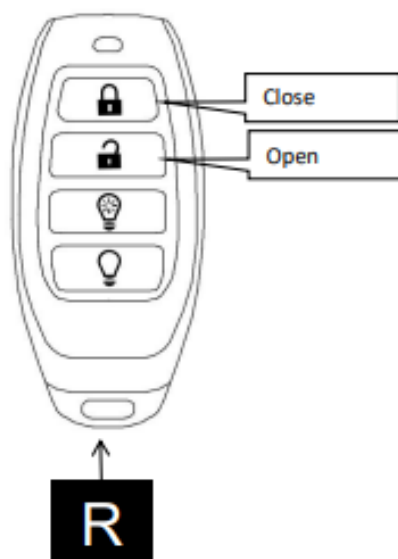
See as pic 3. Wear insulated gloves to trim the bare metal part of the original car harness and Q; Wrap the harness of Q around the original car harness, and finally wrap the exposed metal part tightly with electrical tape. Refer to step 23, route the rest of the harness from the bottom of the car to 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.



2.5 Inspection (M5 or M6)

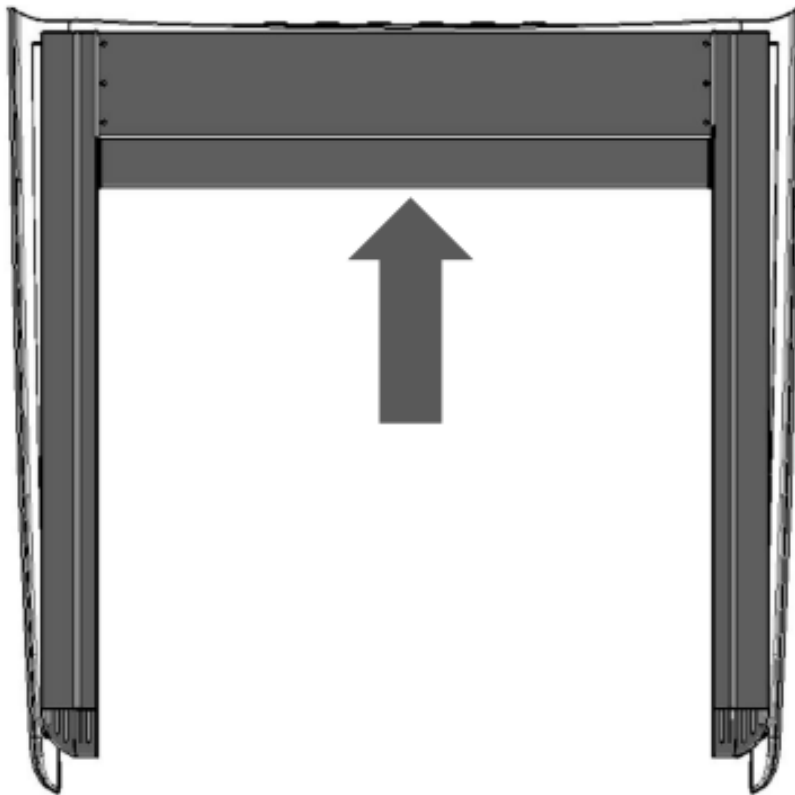
Option1: Gauge M5

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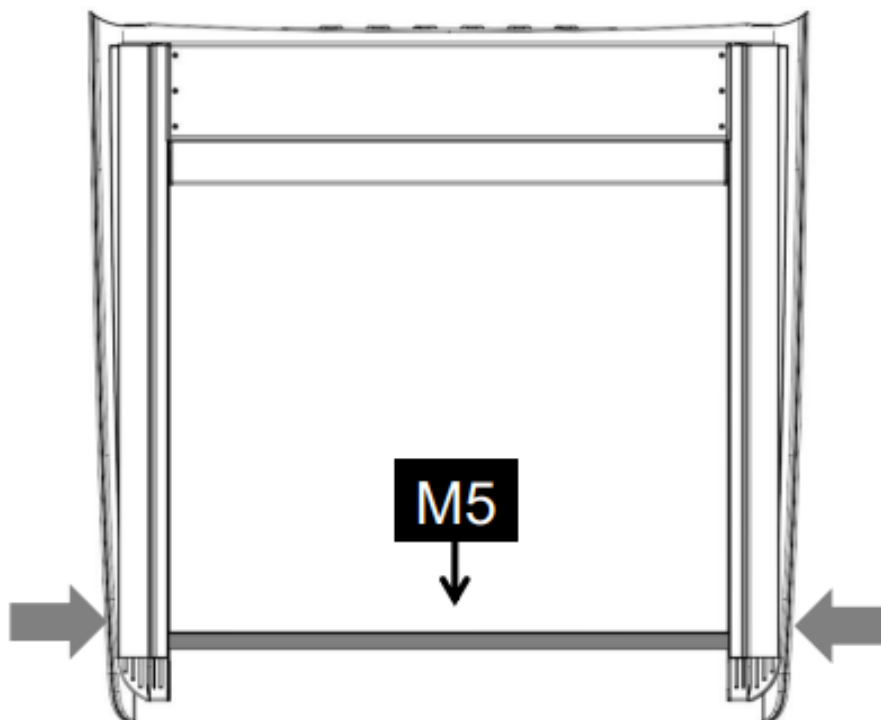


Test the operation with remote key.

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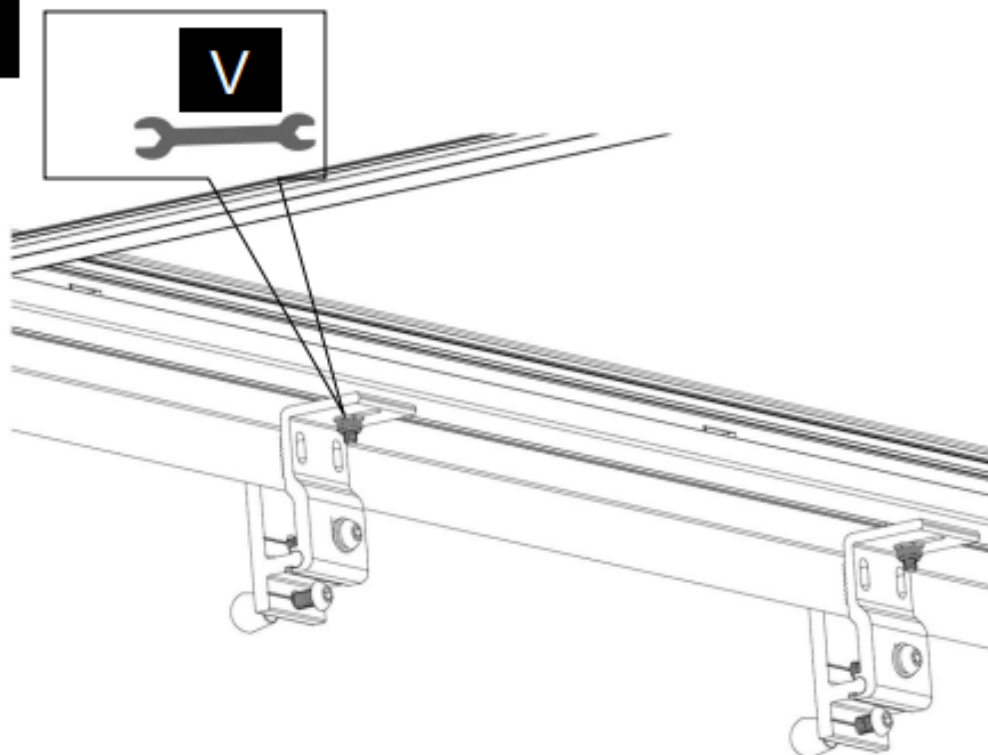


Close the cover with remote key.



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.

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Tips: Remove gauge M5 after tightening the bolt.

Tighten the nuts with wrench.

Option2: Gauge M6

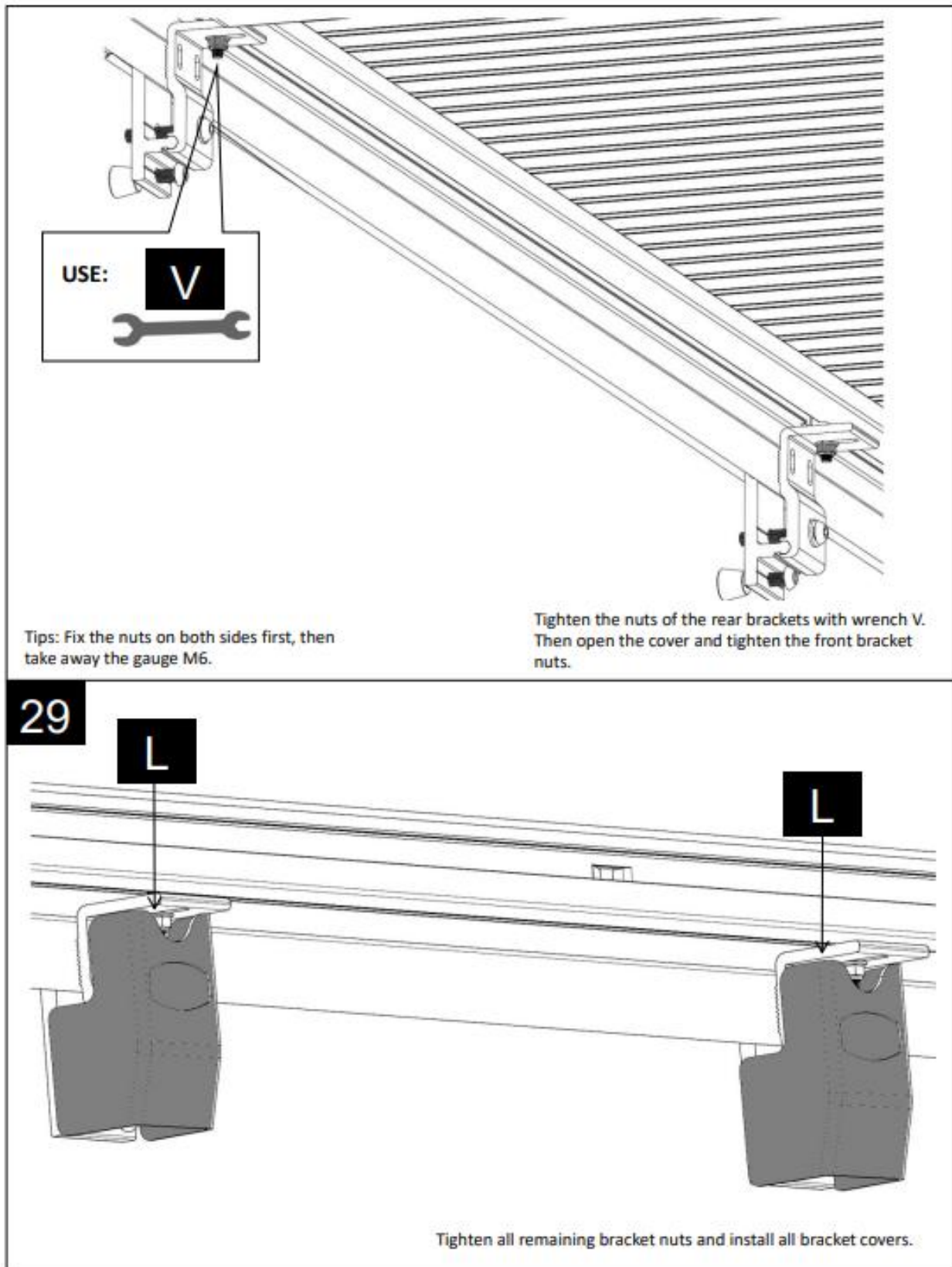
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M6

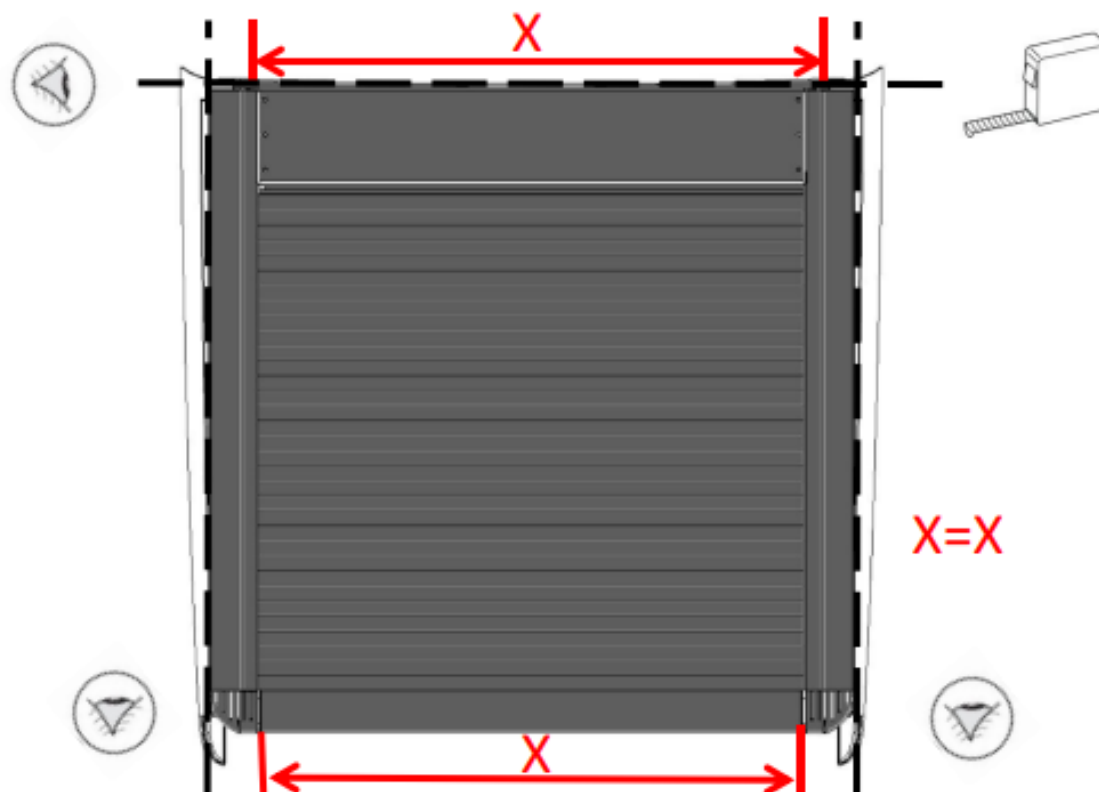


Tips: This is another way of adjustment.

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



3.Operation

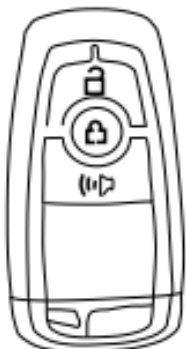


Make sure all the bolts are tightened; Close the roller and see if the roller is parallel on both sides as shown in pic. Measure if the distance are the same in front and rear (within 2mm difference is the best state).

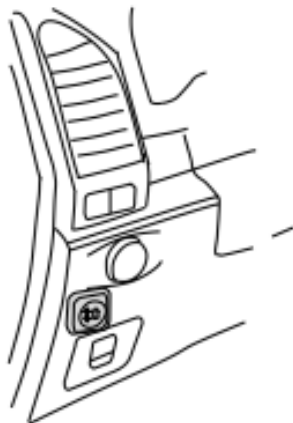
3.1 Remote Key

	Button	Button name	Description
		Close	1. Press the button to close the cover if its under static mode. 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 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.

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 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 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; 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.



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AIRPLEX ELECTRIC ROLLING LID

PHONE APP SET UP GUIDE

FIT1259

Important Note: Please do not disclose your password for the Rolling lid app.

1. BRIEF INTRODUCTION

This paper introduces the detailed use and precautions of Electric Retractable Tonneau Cover Smartphone APP control.

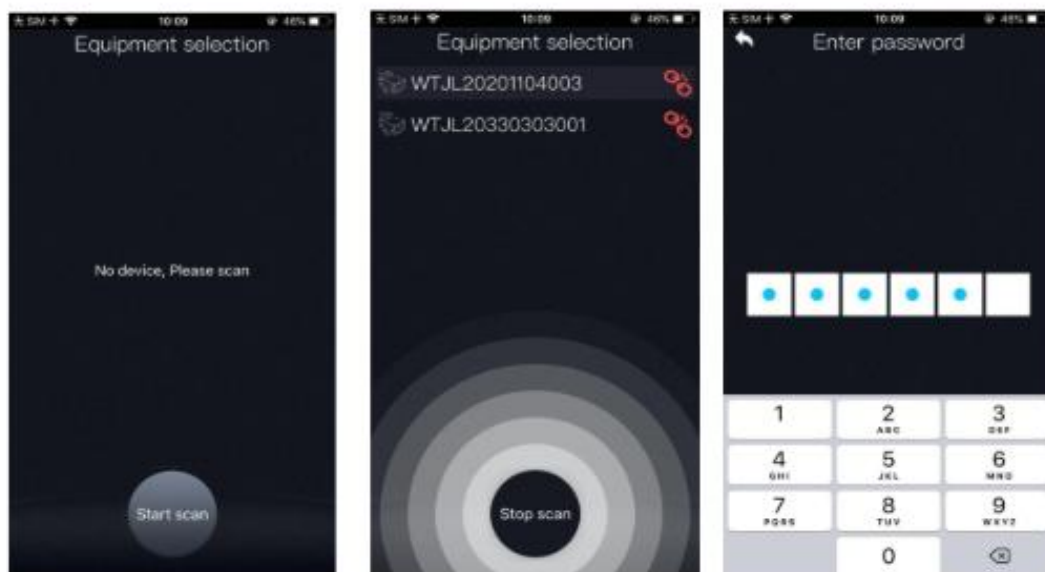
2. OPERATION INSTRUCTION

2.1 Login the program

- 1) For IOS system Smartphone, please search 'Smartctr' in APP Store to download.
- 2) For Android system Smartphone. Please scan the following QR code with browser and download.



- 3) Enter the APP, click 'Start scan' to search device start with 'WTJL'.



- 4) Click the effective scanned device, input initial password 123456 to enter.
[Please change the password after login, do not disclose the password to anyone, so as not to cause vehicle security problems!]

2.2 Program Main Interface

Program Main Interface Introduction



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A: Click to open the "closed" or "not fully Open" Tonneau Cover; If the Tonneau Cover is already fully open, then it will keep still.

B: Click to close the Tonneau Cover; If the Tonneau Cover is already closed, then it will keep still.

C: Click to turn on the light with previous brightness level if it was "off" status; If it was already "on" status, then the light brightness shall cycle among 25%, 50%, 100% after every click.

D: Turn off the LED light.

E: Indicate the LED light status. Red color indicates light on, Grey color indicates light off.

F: Click to enter the device info interface.

G: Click to enter the device setting interface.

H: Change Password

Note:

The following pictures will display the current position of Tonneau Cover in real time.



Fully Open



Opening/Closing



Fully Closed

2.3 APP Program Info Interface

Program Info Interface Introduction

The interface mainly records and displays the basic information and usage records of the device.



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China Mobile 17 62% 3:54	
China Telecom	
< Device Info	
Serial number	WTJL2033-03-03-001
Hardware version	WT1037K
Software version	V01.39.01
Operating voltage range(V)	9.0~16.0
Operating temperature range(°C)	-40~80
Running time(Day)	0
Motor running time(S)	81
LED running time(S)	29
Number of over current	0
Number of motor running overtime	0
Number of HALL signal ERR	0
Maximum route	900
Current route	0
Current running status	Stop
Automatic aging status	Stop
Number of open today	0
Number of close today	2
Number of light on today	1
Number of light off today	1
Number of foot sensor today	0
LED status	OFF
Left light bar status	Open

2.4 APP Program Setting Interface

Program Info Interface Introduction

After modifying the configuration, please click the bottom "Update Settings" to make the settings effective.

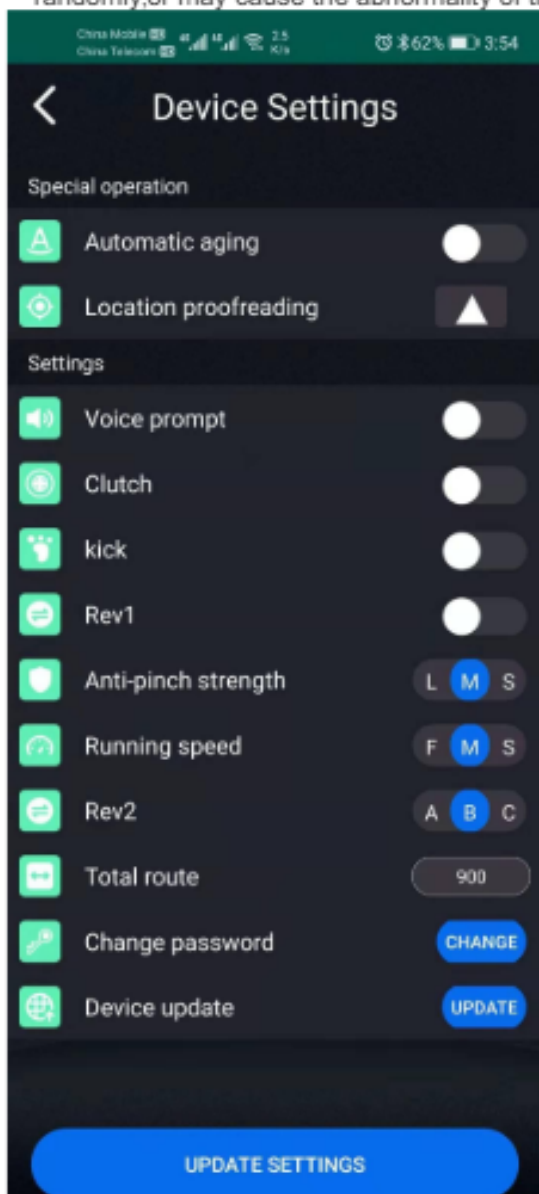
Note: Users can only modify contents in the following blue box, other items can't be modified



AUTOMOTIVE ACCESSORY
MANUFACTURE & DISTRIBUTION

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randomly, or may cause the abnormality of the device.



Anti-pinch strength: [S(small), M(medium), L(large)]. By setting this item to adjust the sensitivity of starting and stopping protection when touching obstacles during Tonneau Cover Operation.

Anti-pinch strength	Description	Remark
S(small)	High sensitivity	
M(medium)	Medium sensitivity	Factory Default Settings
L(large)	Low sensitivity	

If the Tonneau Cover has been used for a long time without regular maintenance in time, or with improperly installation, the operation resistance may increase and trigger the "Anti-pinch protection", so the Tonneau Cover may stop during operation. Then you can reduce the sensitivity of "Anti-pinch protection" by setting this "Anti-pinch strength" for a temporary solution to this problem.

[Note]: This is recommended only as a temporary solution to solve the problem. To ensure the Tonneau Cover works in good condition, it must be installed correctly and maintained timely. Do not long-term use it after reducing the sensitivity.



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Running Speed: [H(high), M(medium), L(low)]. By setting this item to change the running speed of Tonneau Cover.

Running Speed	Description	Remark
L(low)	Low speed	Generally about 12 seconds to finish Open or Close operation
M(medium)	Medium speed	Factory Default Settings, 10 seconds to finish Open or Close operation
H(high)	High speed	8 seconds to finish Open or Close operation

In addition to affecting the completion time of Open or Close Tonneau Cover operation, the Running Speed is more slower, the smoother the Tonneau Cover runs, and also less noise during running. Thus we recommend customers choosing slower Running Speed.

Change password: Change the login password through this item.

Click "Change password", it will show the following interface.

The password is 6 Arabic digits.

Note: for the safety of your vehicle, avoid using same six numbers, or consecutive numbers.

After entering exactly the same 6 numbers in the "new password" and "confirm password", click "ok" to complete the password change.

4. Maintenance

4.1 Common Problem Solution

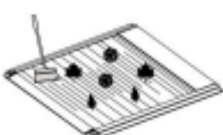
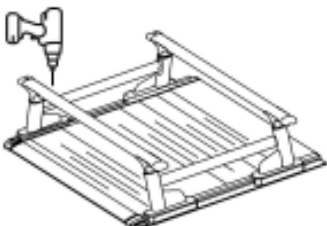
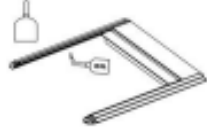
Cover abnormal operation alarm sound:

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. 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 7-9mm is the best. 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. 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 or 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 Daily Maintenance

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



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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.