

Date...../...../.....

Version 1.0



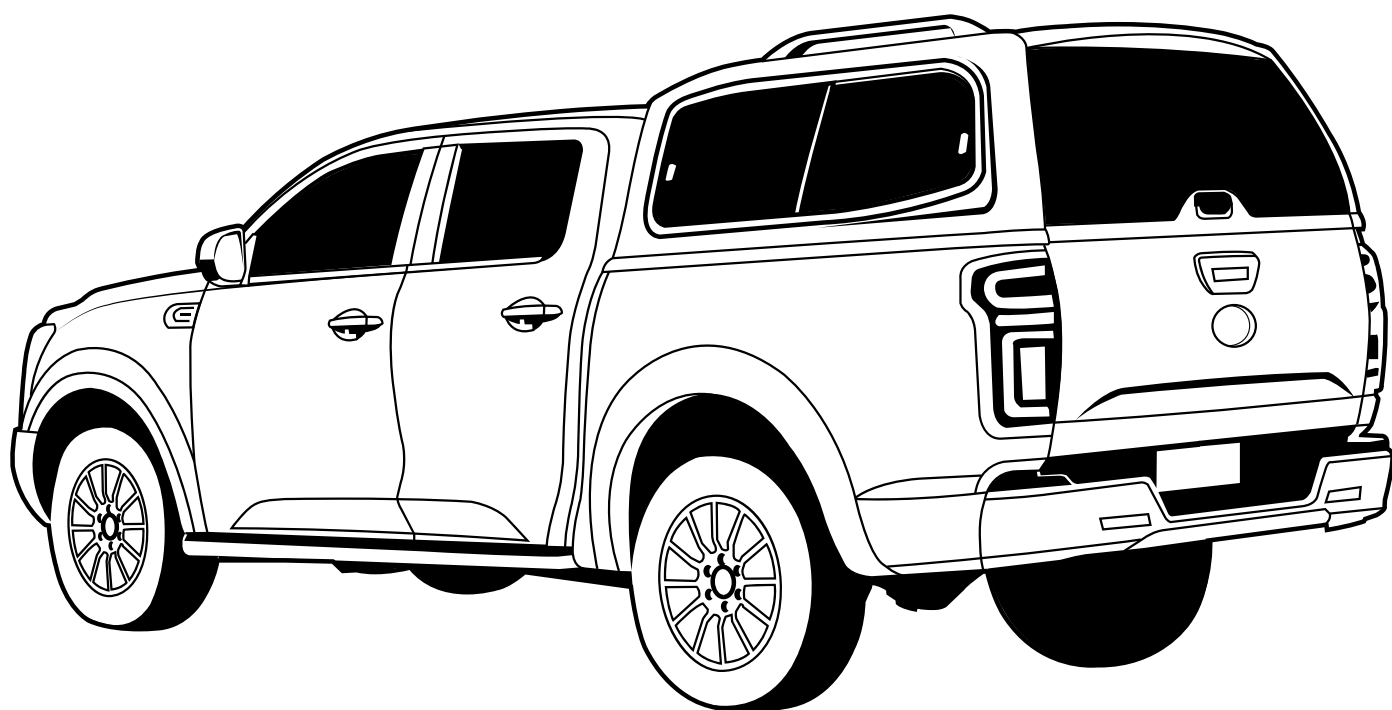
**SAMMITR**

# Mechanical Installation Manual for Great Wall Canon 2021

*S-plus* **V2**



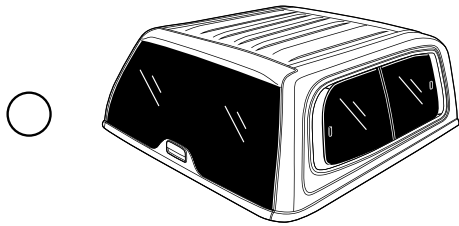
**SAMMITR**



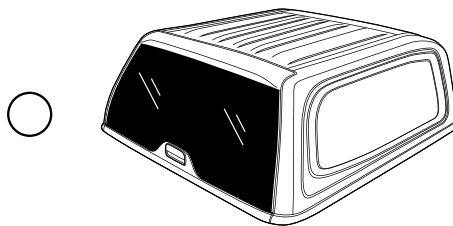


# SAMMITR

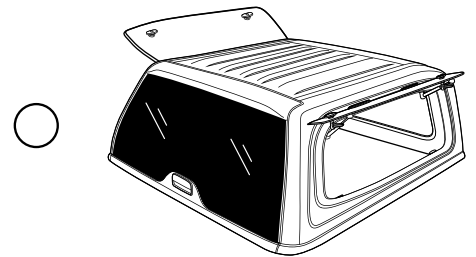
## ■ Steel Canopy S-Plus V2



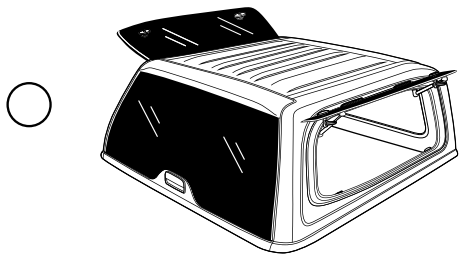
Glass Slide Window



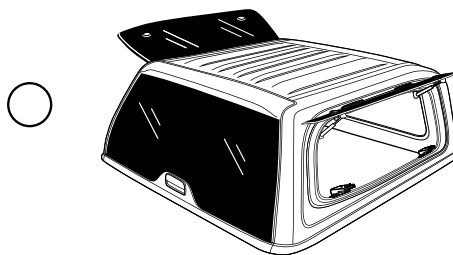
Solid Window



Solid Birdwing Window (Handle Lock)

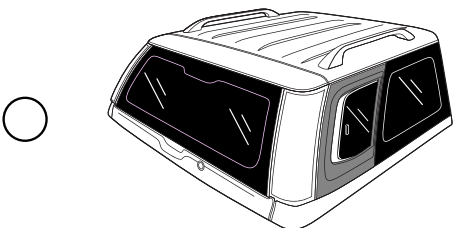


Glass Birdwing Window (Handle Lock)

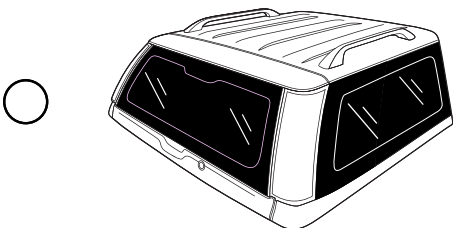


Glass Birdwing Window (Electric Lock)

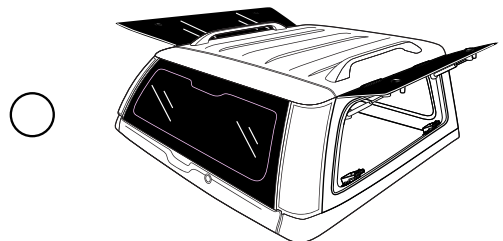
## ■ Steel Canopy SUV-Plus V4



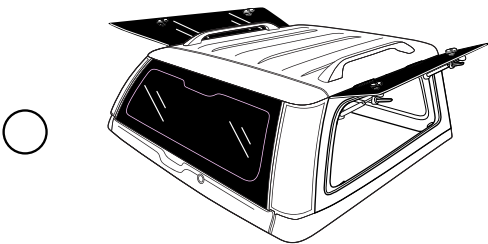
Glass Slide Window



Glass Fix Window

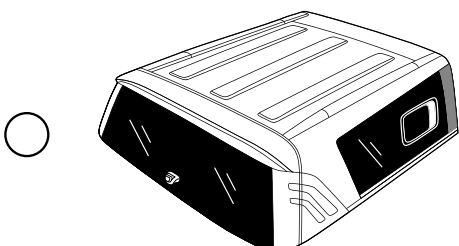


Glass Birdwing Window (Electric Lock)

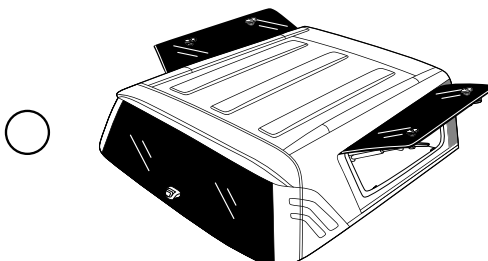


Glass Birdwing Window (Handle Lock)

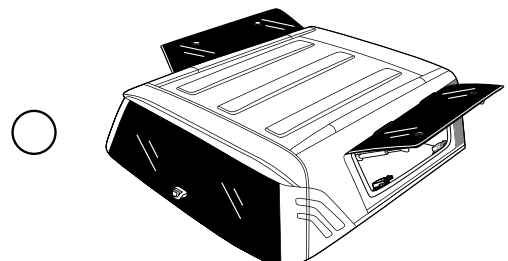
## ■ Steel Canopy TL-1



Glass Slide Window



Glass Birdwing Window (Handle Lock)



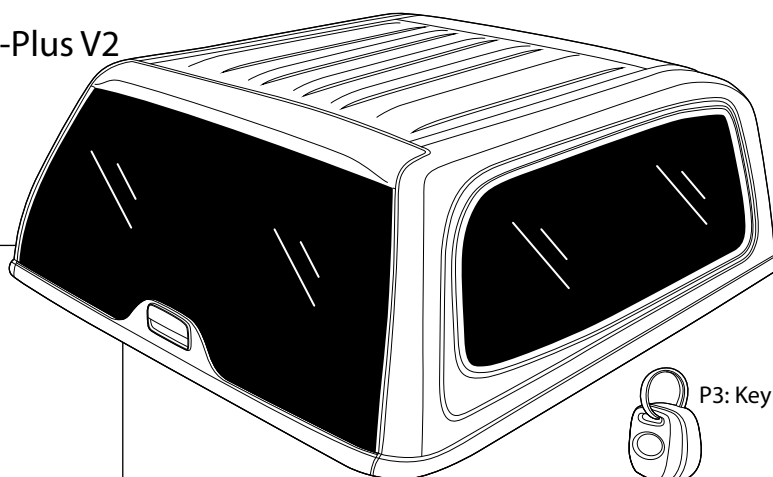
Glass Birdwing Window (Electric Lock)

# Mechanical Installation Manual All Models

## Steel Canopy : S-Plus V2 Version 1.0

### Part In Main Carton

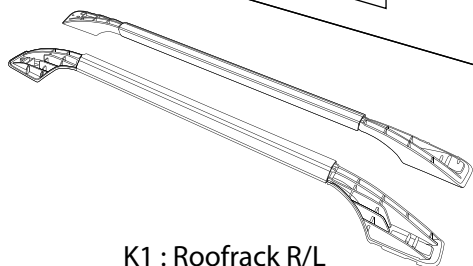
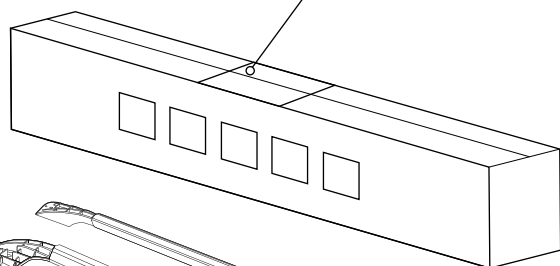
P1: Steel Canopy S-Plus V2



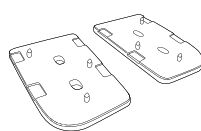
P3: Key

Kit Box

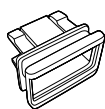
Part List Paper



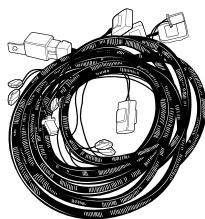
K1 : Roofrack R/L



x2  
K2 : Rubber R/L



K3 : Switch Case

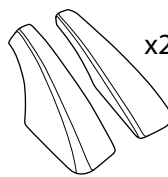


K4 : Wiring No.51

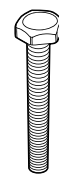


x4 (D-Cab)  
x6 (C-Cab)

K5 : C-Clamp



x2  
K6 : Roofrack Cover



x2  
K7 : Bolt M6



K8 : T Paint



x8  
K9 : Washer M6



x8  
K10 : Washer M8

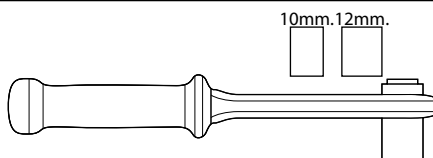


x8  
K11 : Spring Washer M6

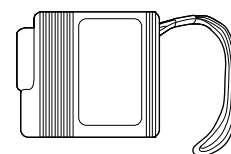
### Require Tools



T1 : 13 mm. Wrench



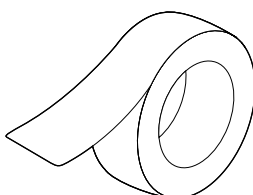
10mm.12mm.  
T3 : 10,12mm. Torque Wrench



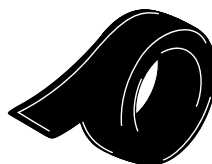
T4 : Measuring Tape/Ruler



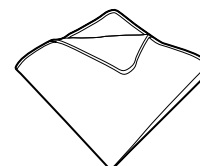
T2 : 10 mm. Wrench



T5 : Tape



T6 : Electric Tape



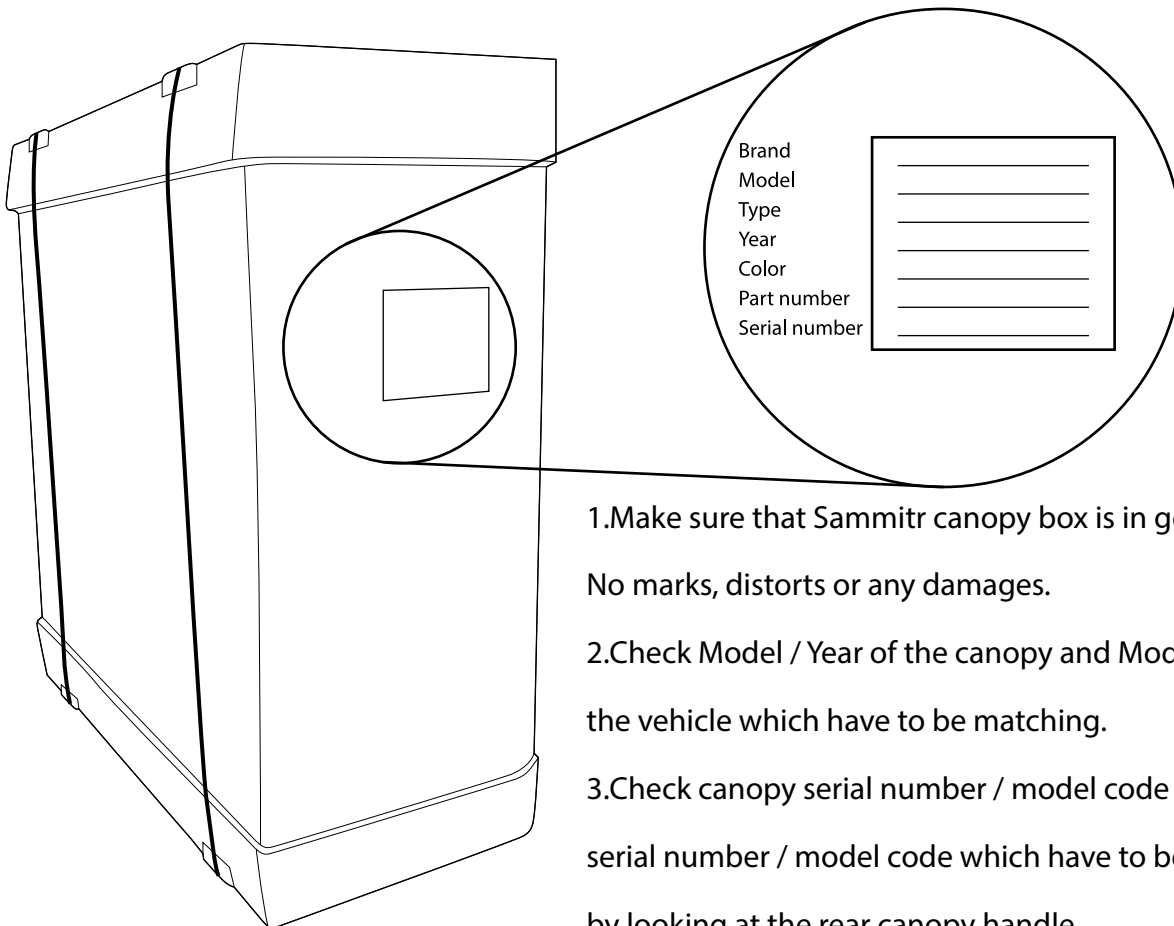
T7 : Fabric



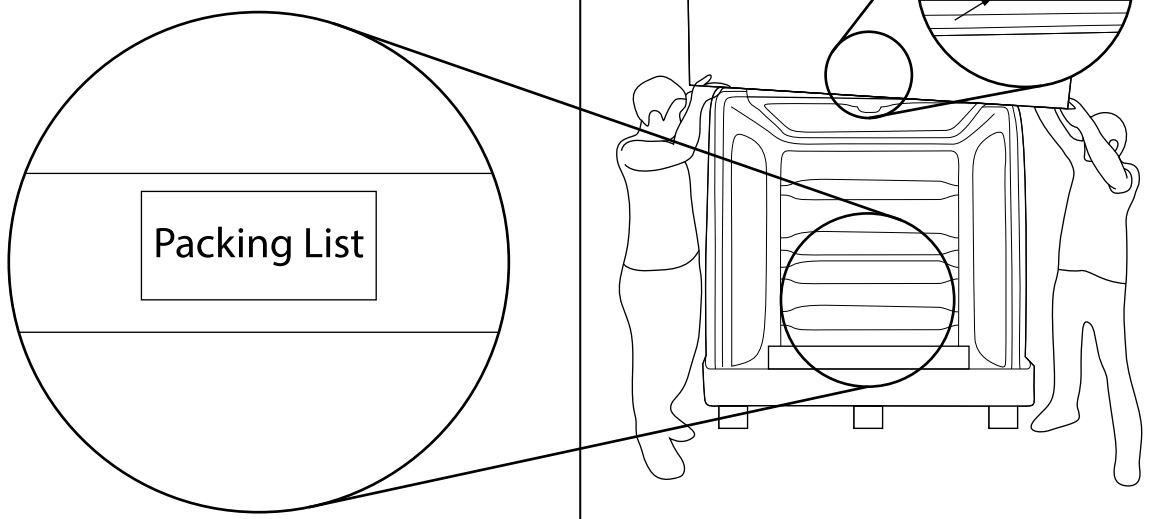


1

## The Procedure of checking the Sammitr canopy box before installation.

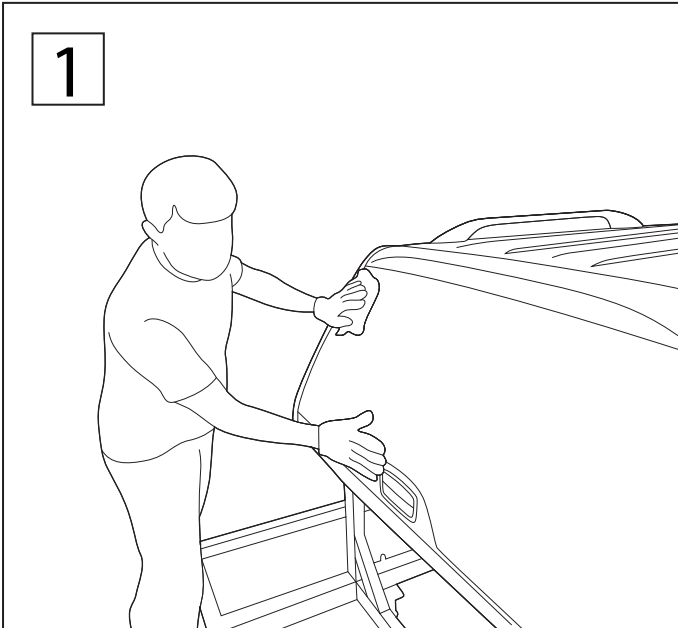


4. Check all the accessories received inside the box with the Packing List.

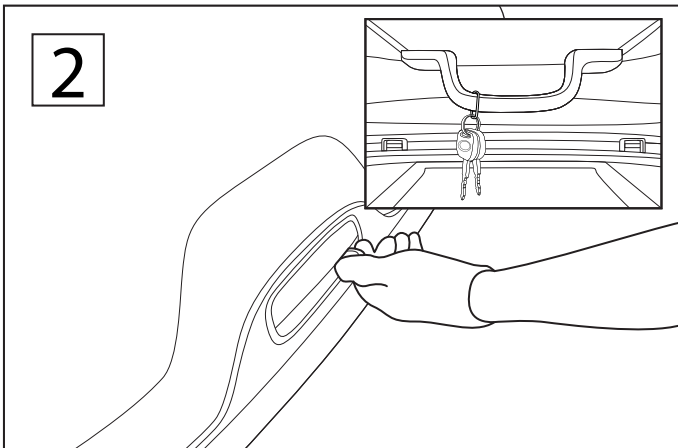
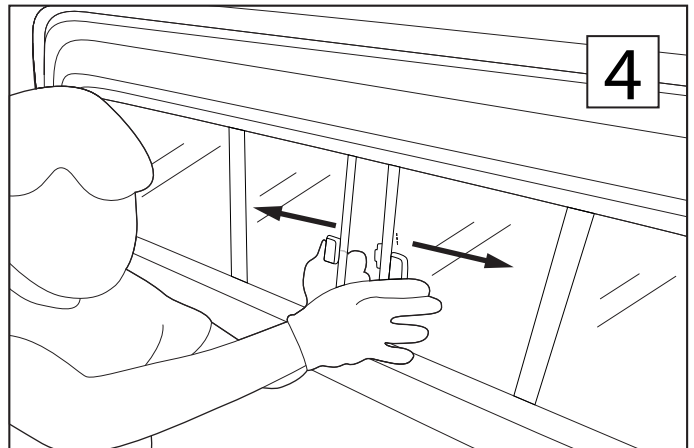
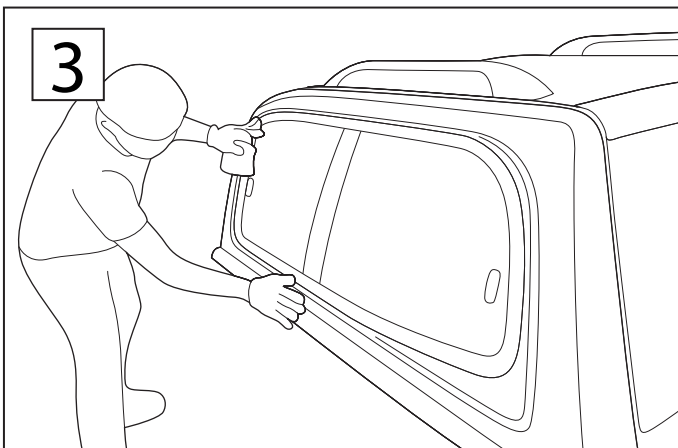
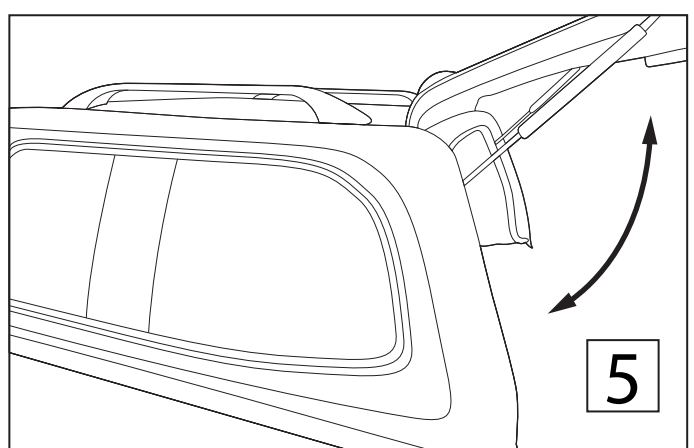


**2**

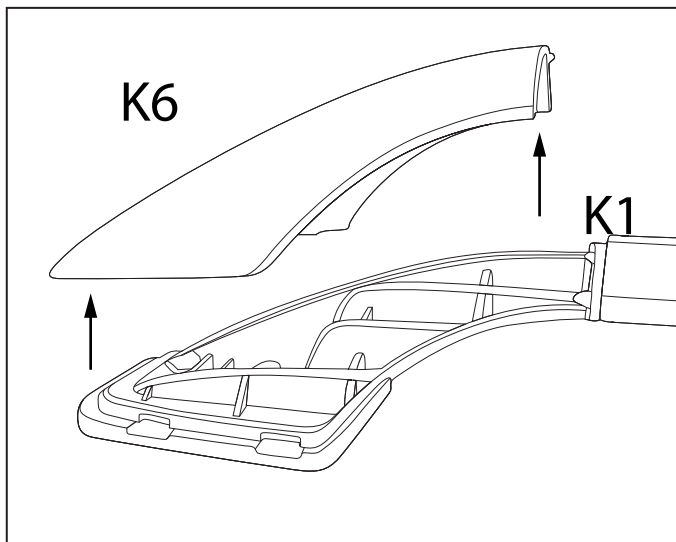
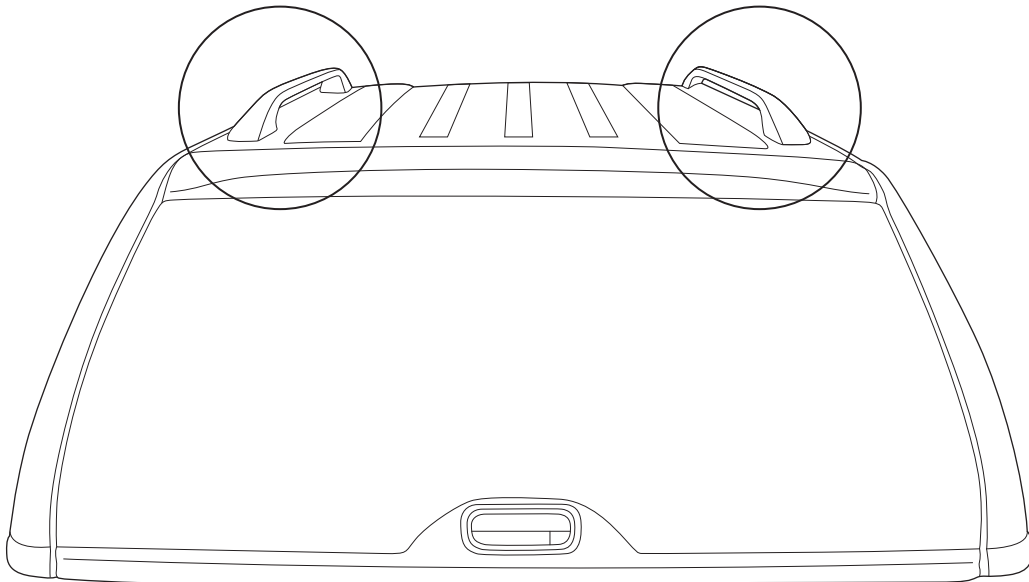
## The preparation process of Sammitr Canopy S-Plus V2 model before installation with the vehicle.

**1**

1. Canopy have to be in good condition, no damage, dent, cracks, smooth surface including no window damages or cracks.
2. Locking system is working for both keys.
3. Canopy sides are not damage, dent or cracks.
4. Canopy front window panel is working (open/close), no cracks or damages occurrences.
5. Check the Rear Door by open and close.

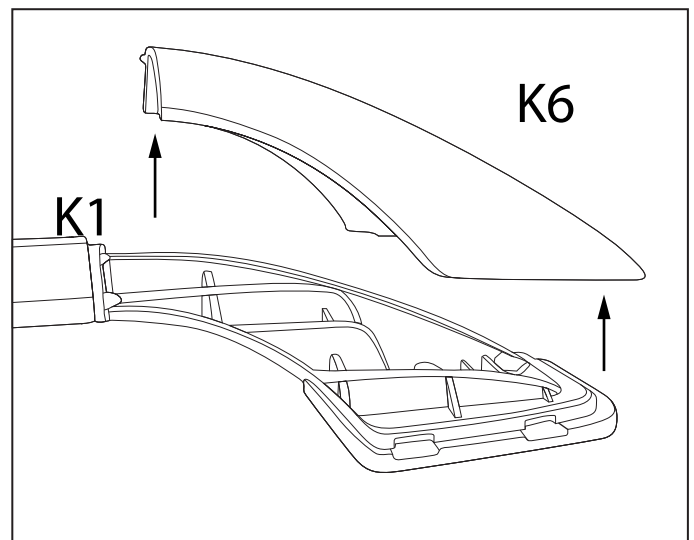
**2****4****3****5**

- 3 The process of Roof rack installation manual of the S-Plus V2 canopy before installs on the vehicle.



The process of remove the roof rack cover on the S-Plus V2 canopy in order to install nuts.

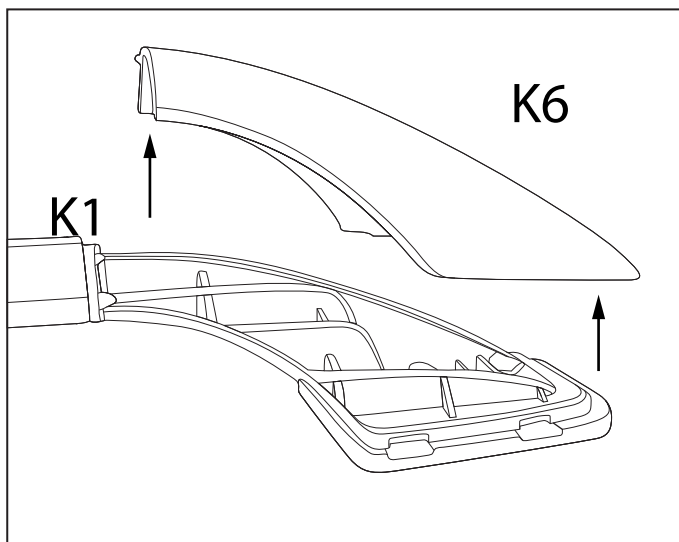
Roof rack Front Part – Rear Left



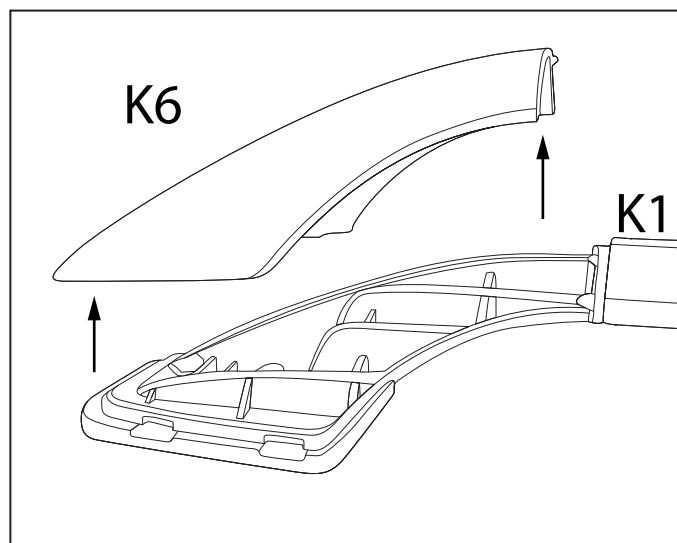


4

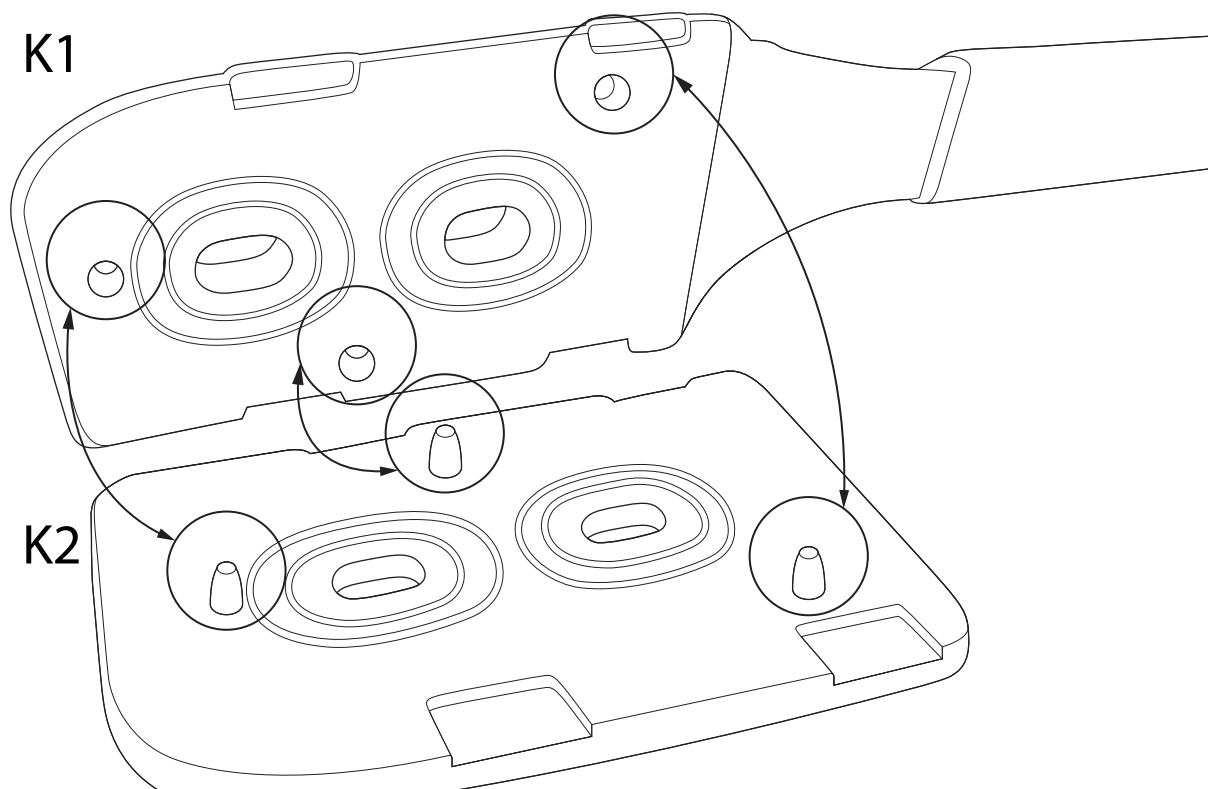
Roof rack Front part – Rear Right.



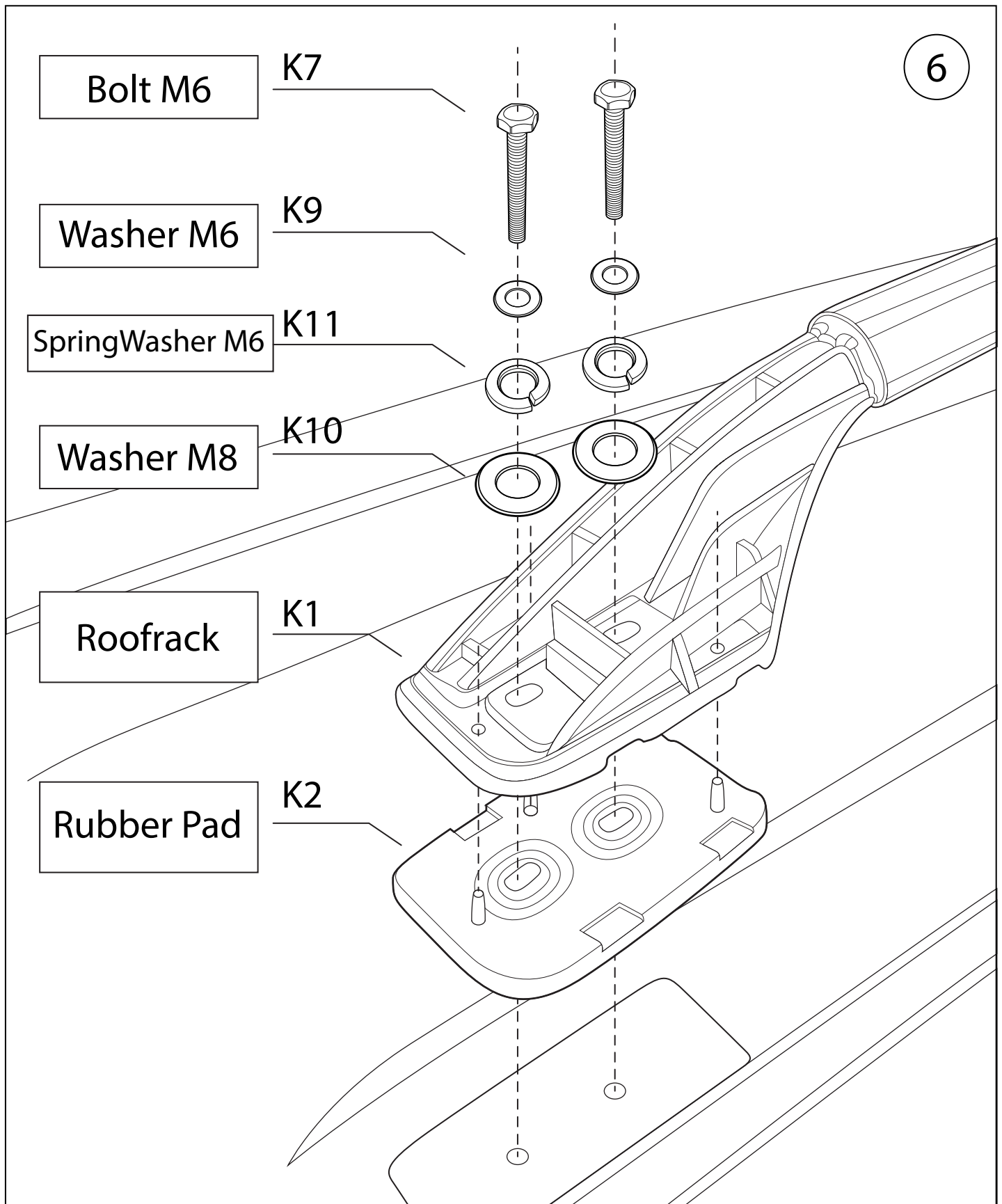
The process of remove the roof rack cover on the S-Plus V2 canopy in order to install nuts.



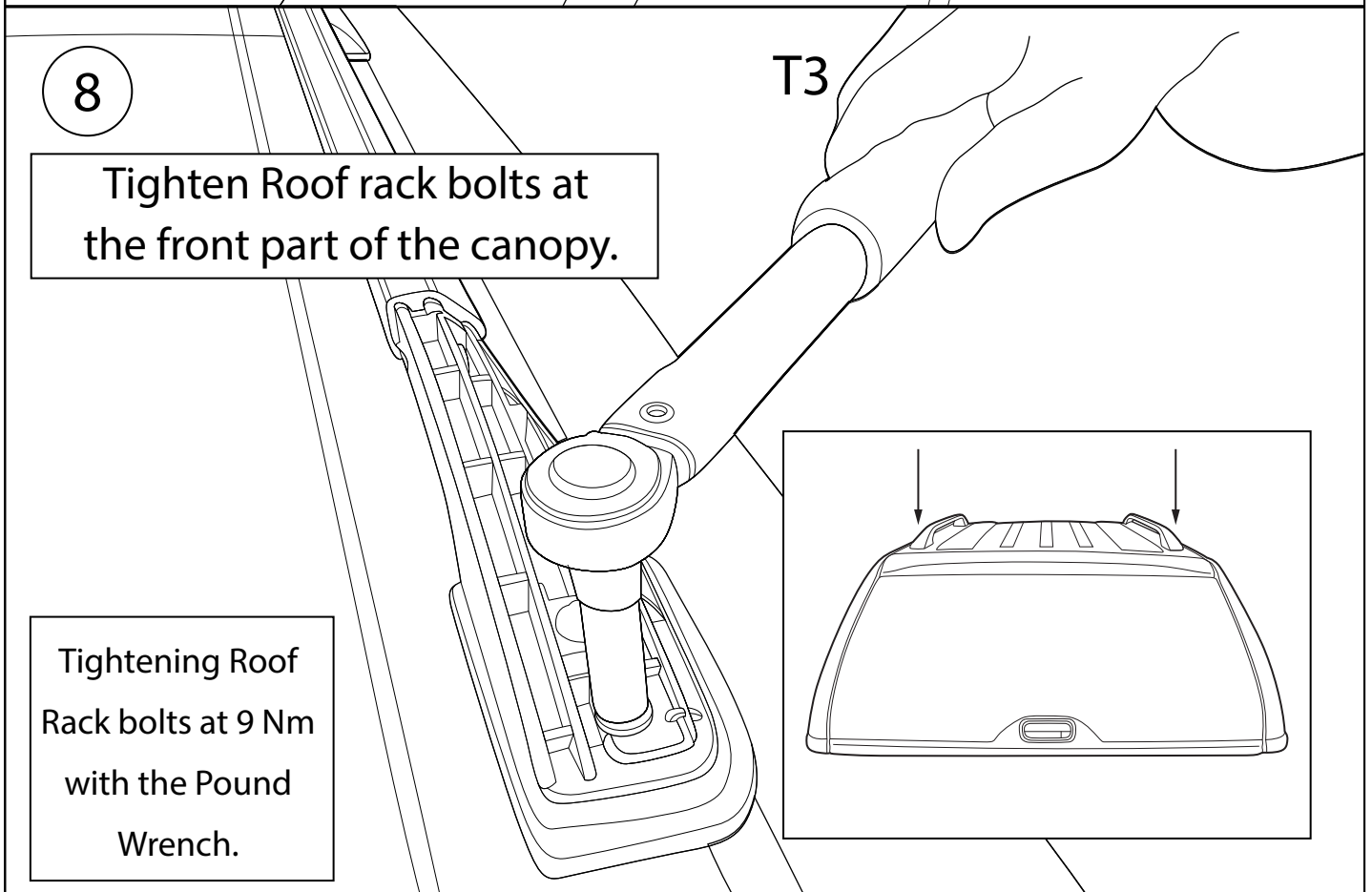
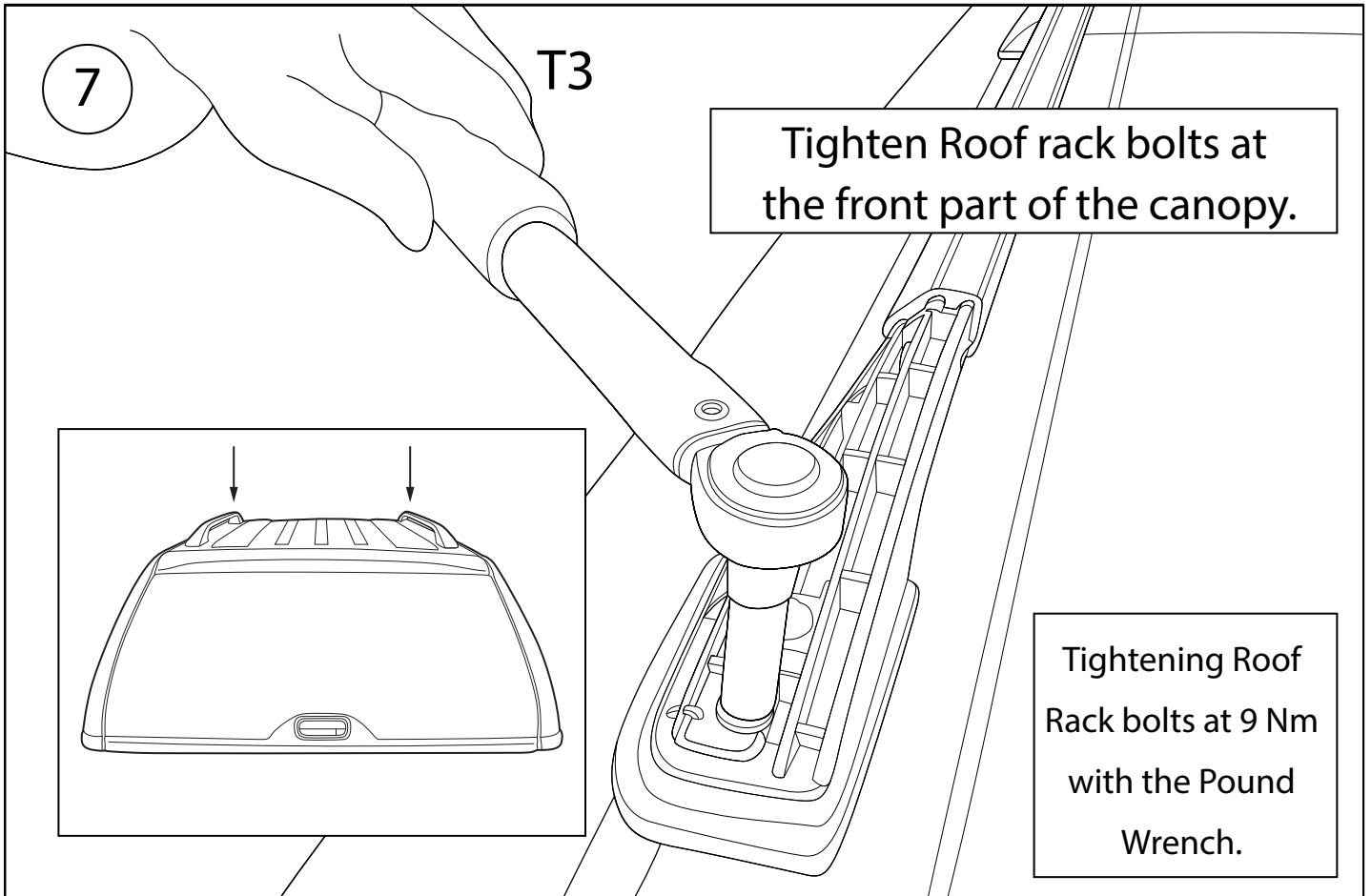
5



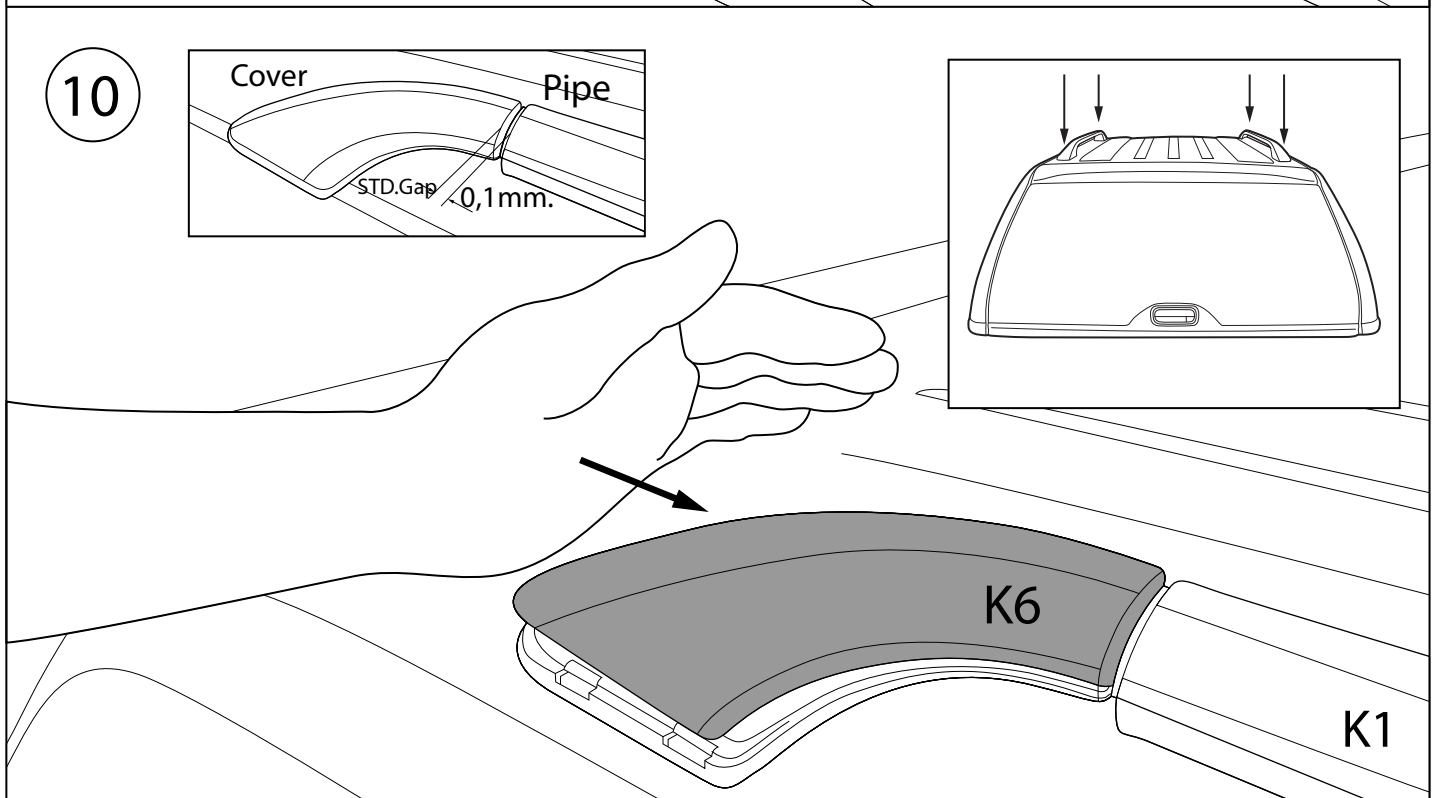
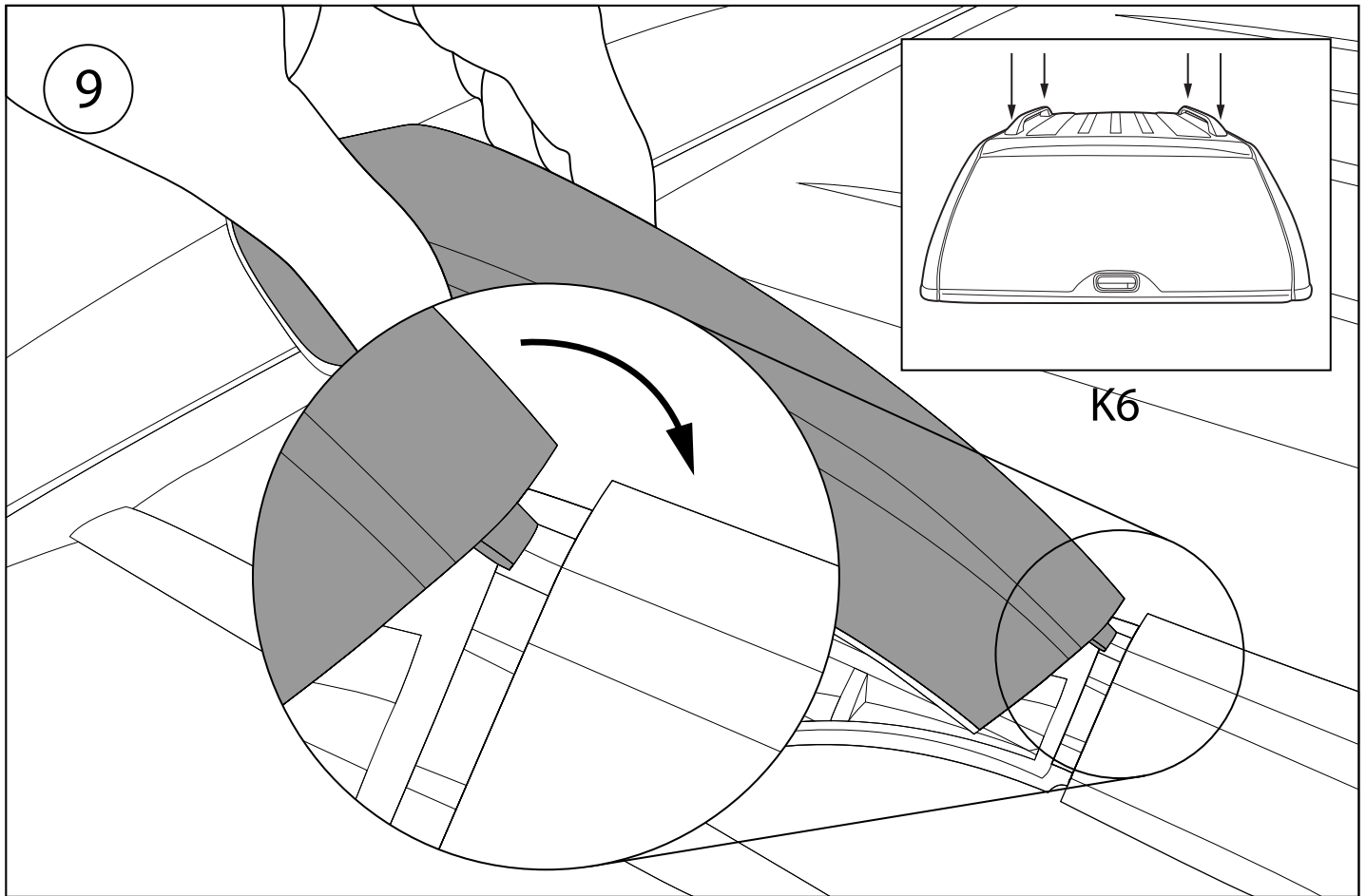
Rubber Pad dispatch position of the Roof rack legs when install on the canopy.



The process/step of install Roof rack accessories on the S-Plus V2 canopy, all 4 points.



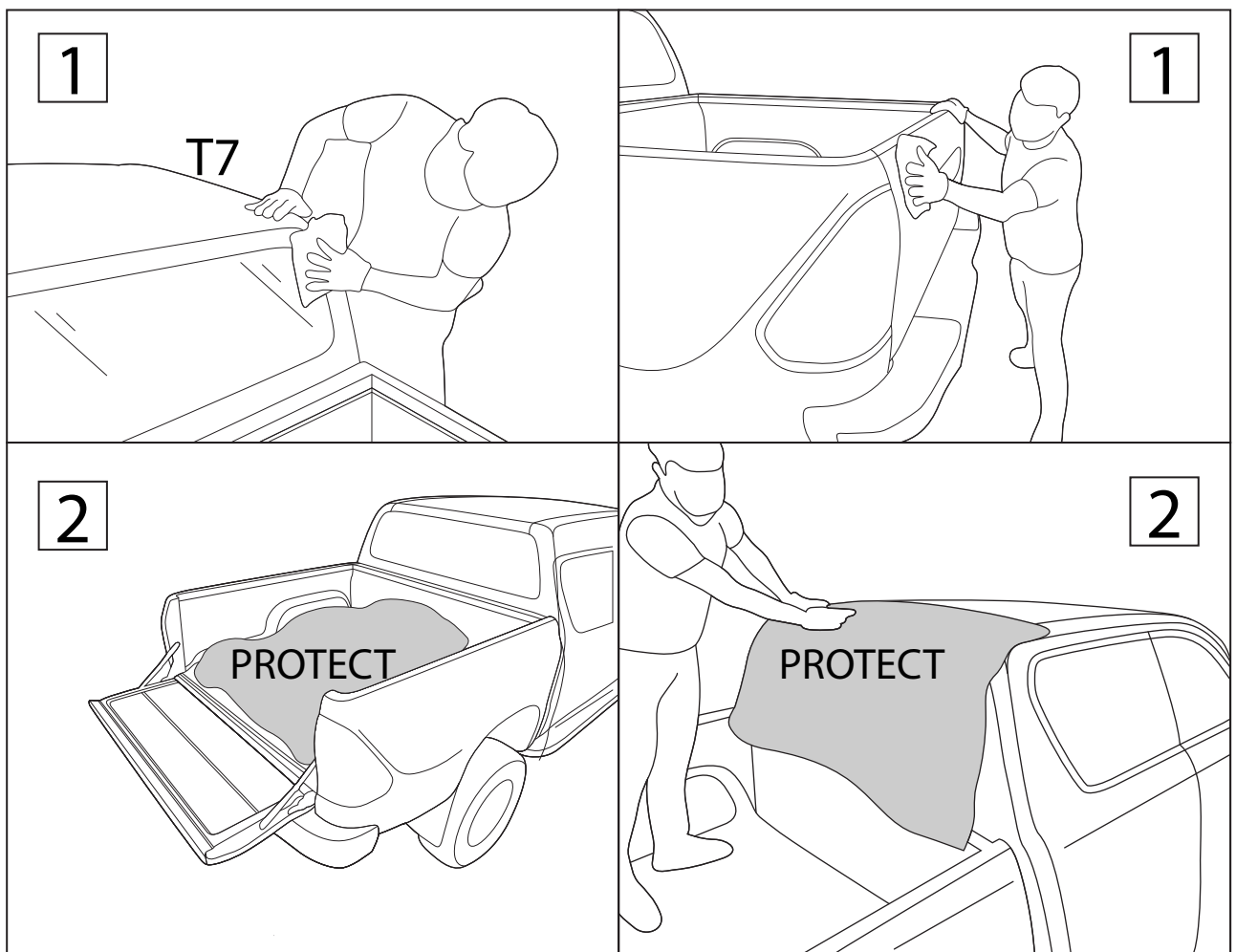




Press and push the Roof rack cover back to the position by hand, then check the gap between cover and roof rack ( pipe )

## 11 The process of checking and preparing the Ford Ranger vehicle before install the canopy

1. Clean up the vehicle body including the top, all sides and Rear tub.
2. Cover the fabric to protect the scratches resistant.





2

Tape Glue

10 cm.

10 cm.

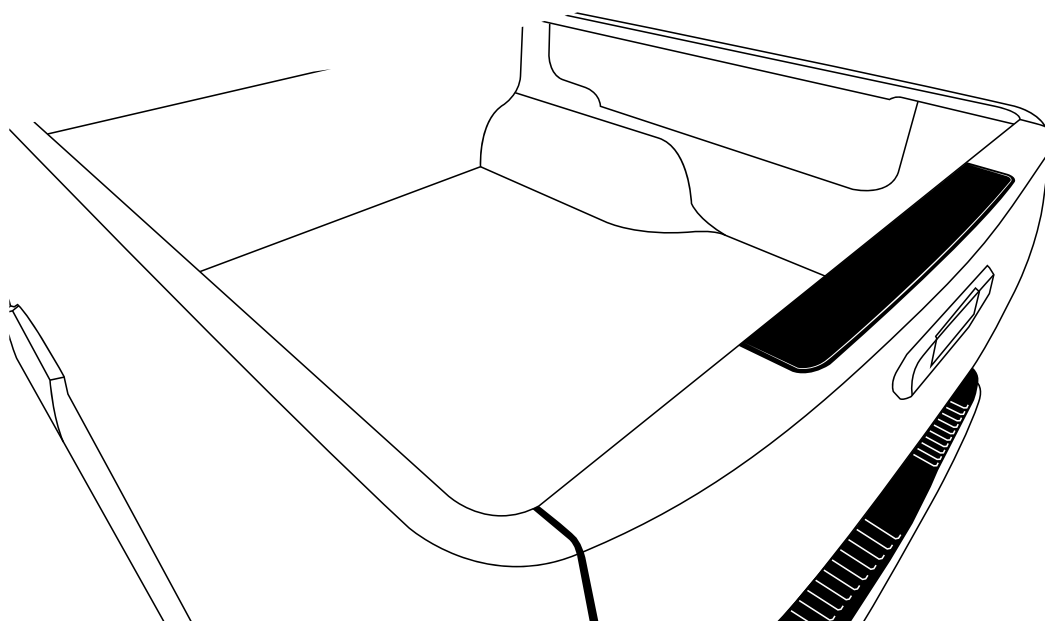
← The position  
of Tape Glue.

2

Pull tape glue out 10 cm. on each side.

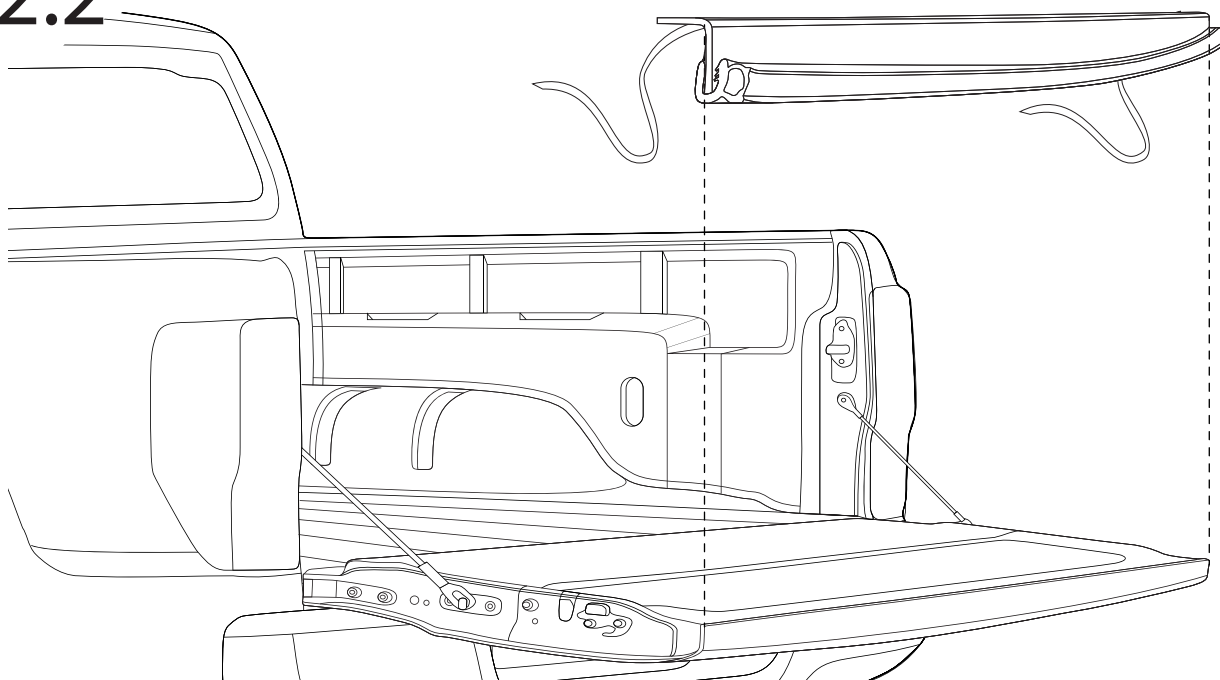


## 2.1



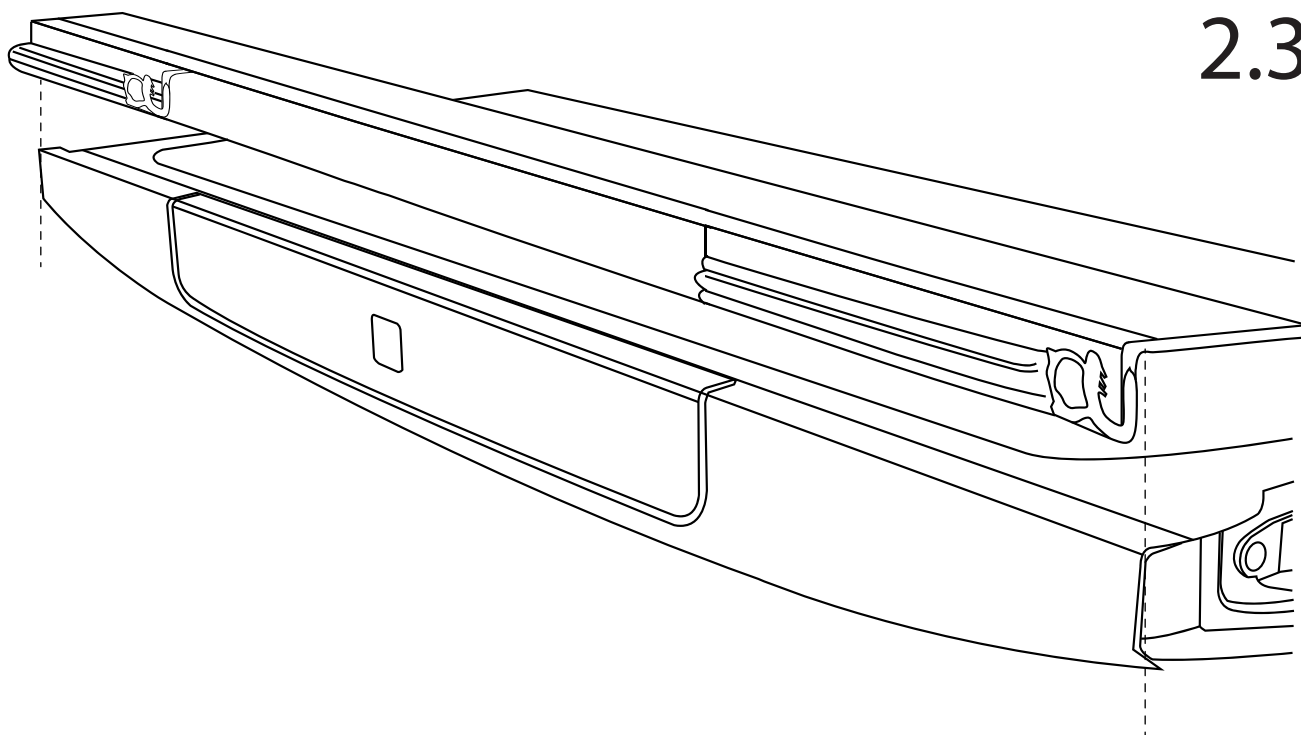
Installation between the edge of tailgate

## 2.2

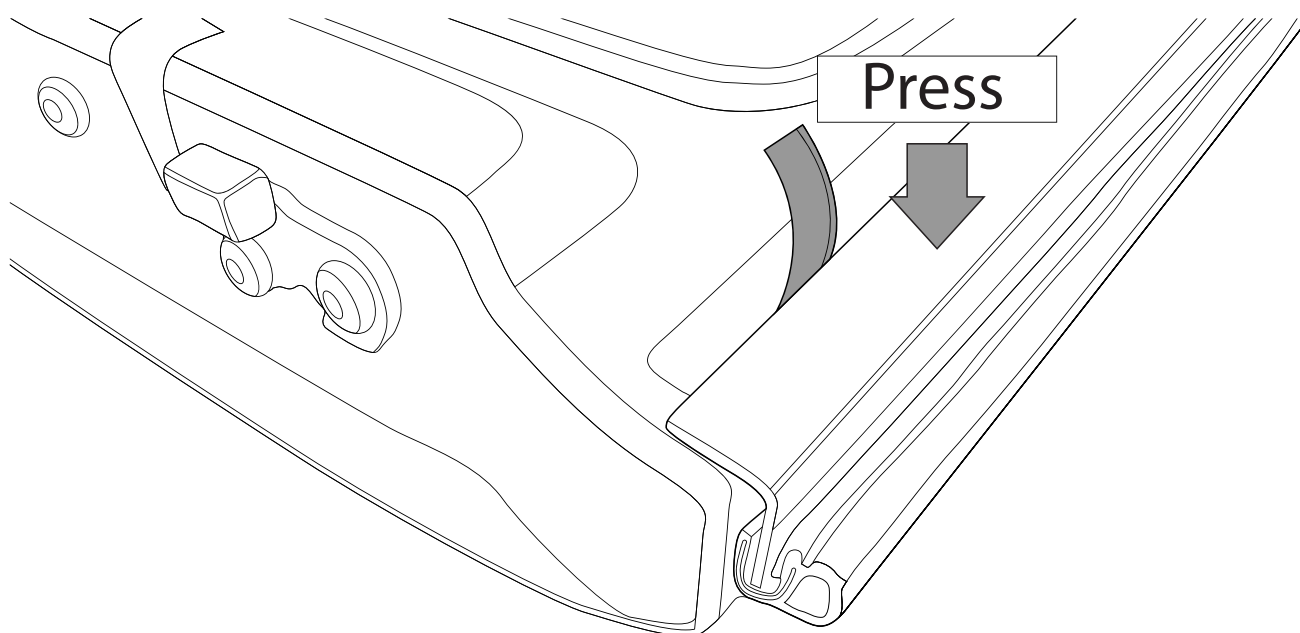


Alignment the position between the edge of tailgate and Frame Weather Strip.

2.3



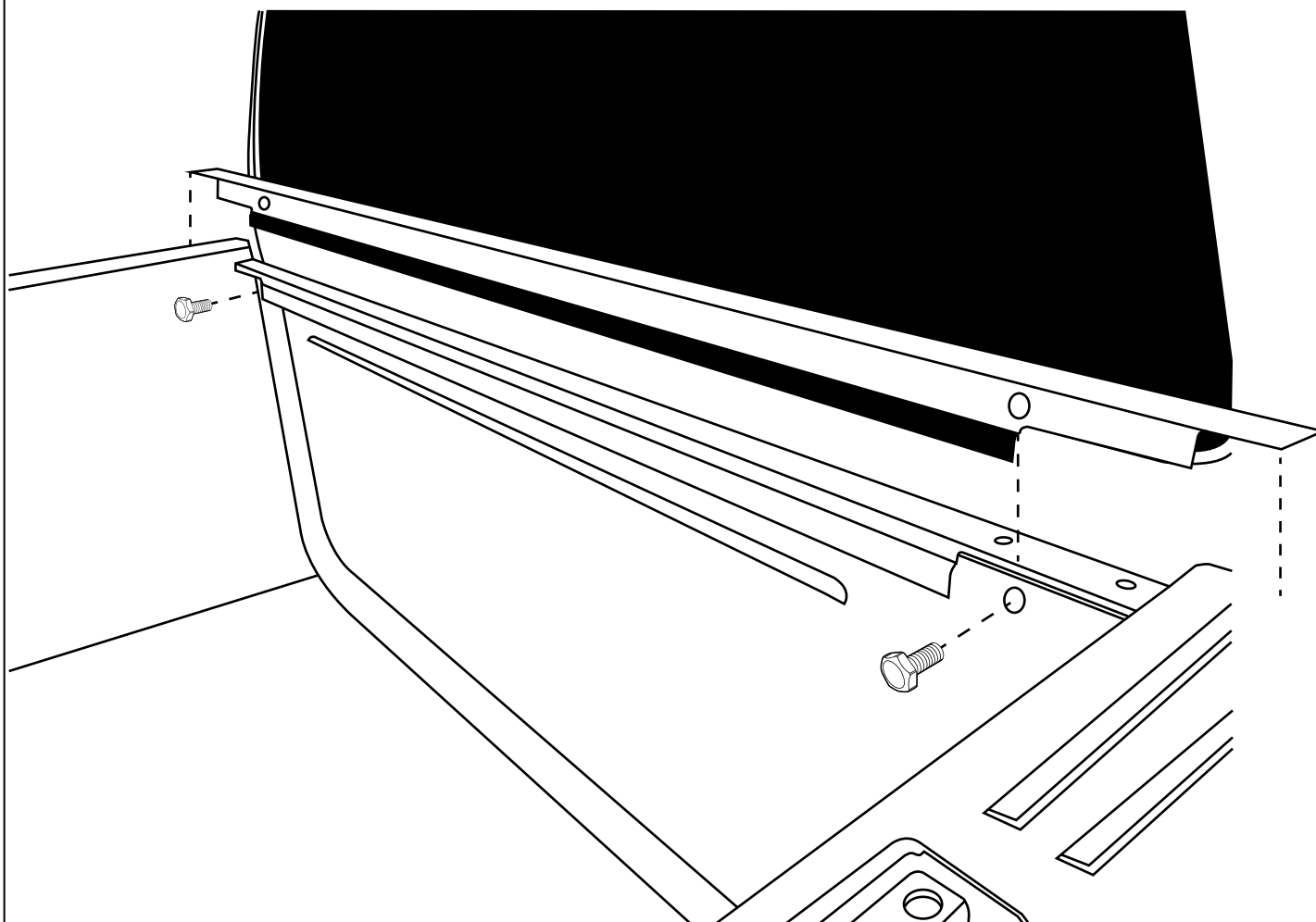
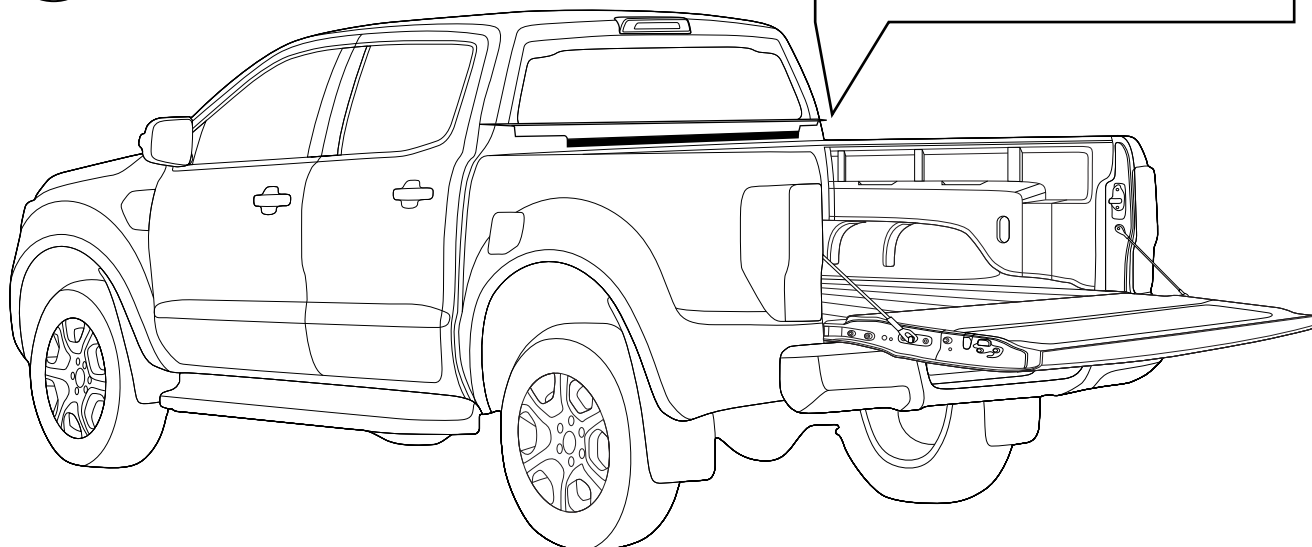
2.4



**Pull the tape glue.**

12

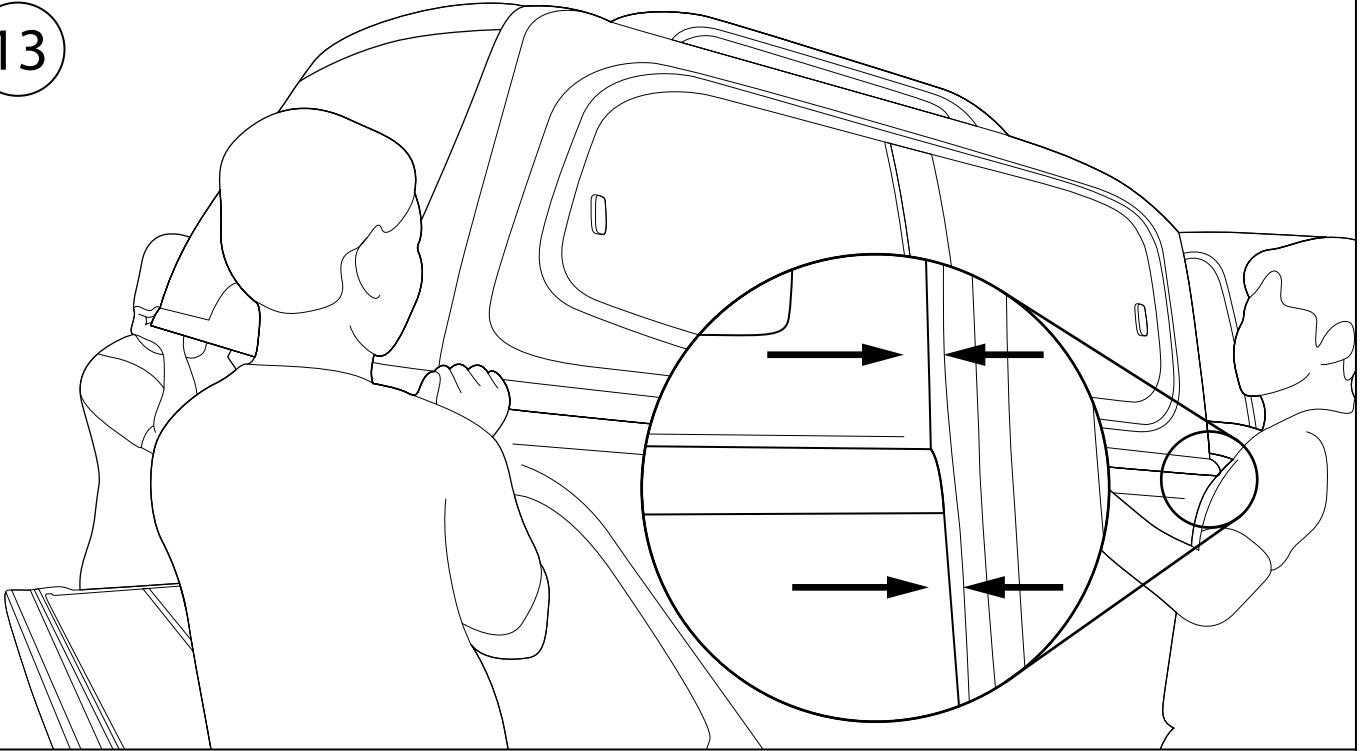
FR FRAME WEATHERSTRIP





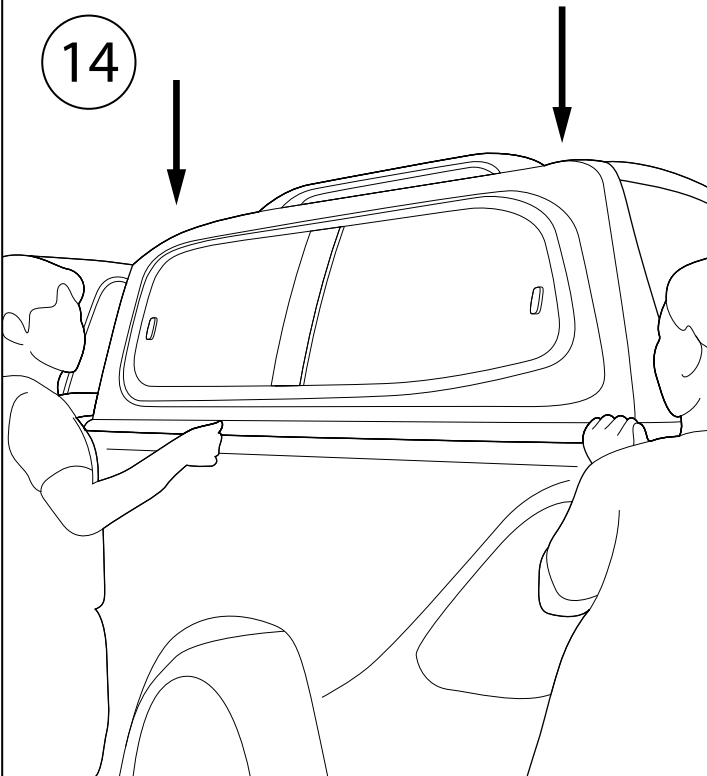


13



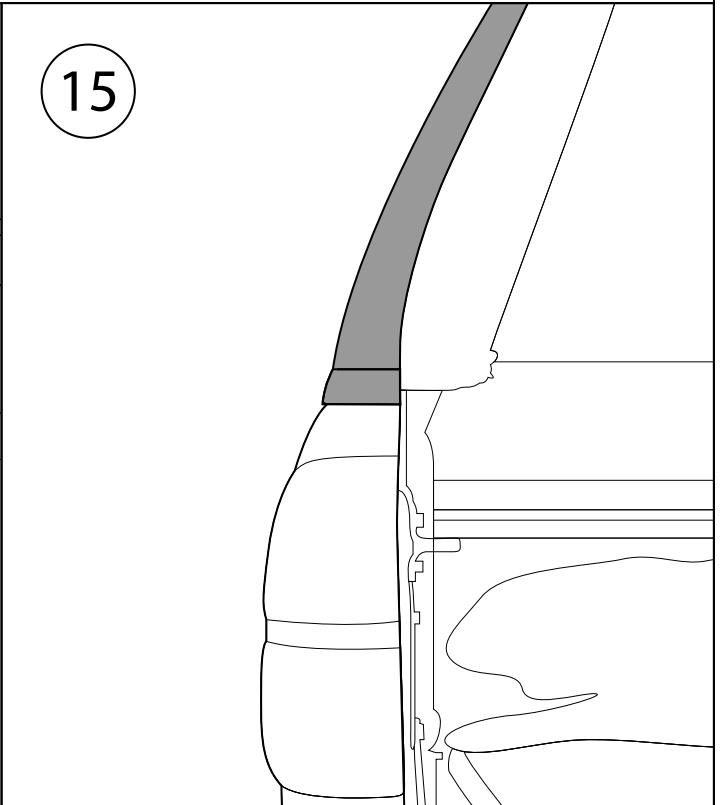
Lift canopy over the pick up truck by rising the rear part higher and the front part to be in the parallel with the edge of the vehicle tub.

14



After get the distance in front part and then put the rear part to cover the vehicle tub.

15

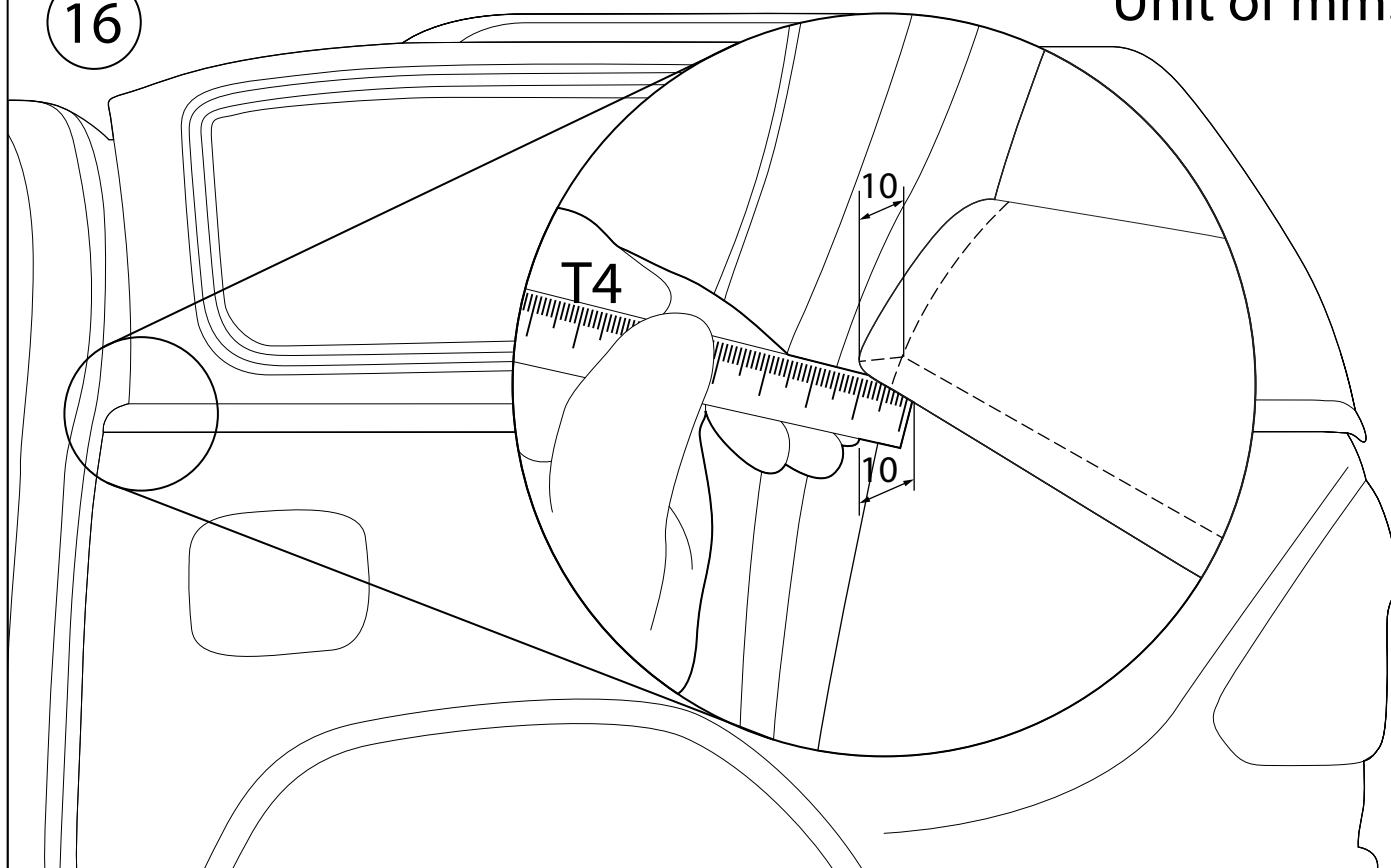


Make sure the distance between canopy edge and vehicle rear tub are equivalent both left and right sides.



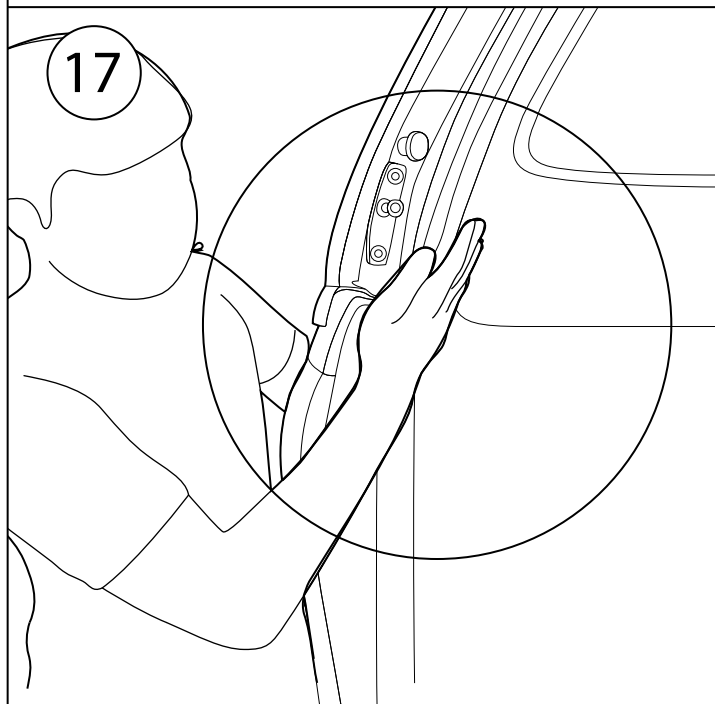
Unit of mm.

16

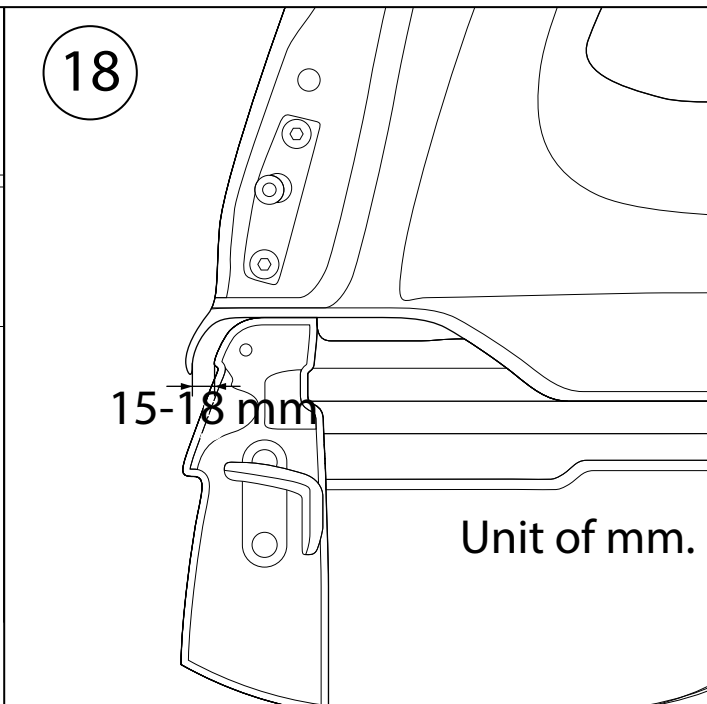


Measure the distance between canopy coverrail and the vehicle, to have the 10-13 mm distance in overall

17

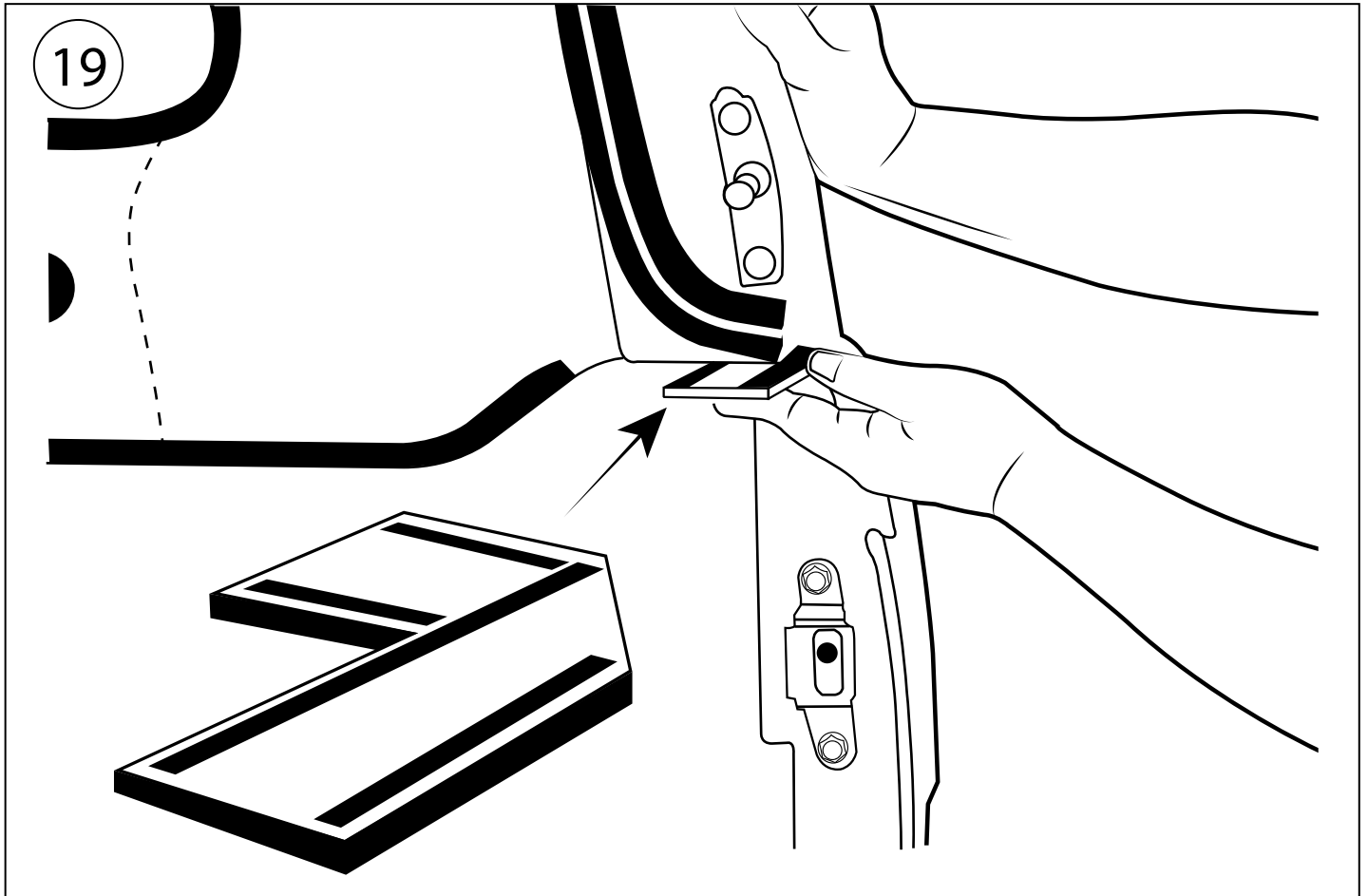


18

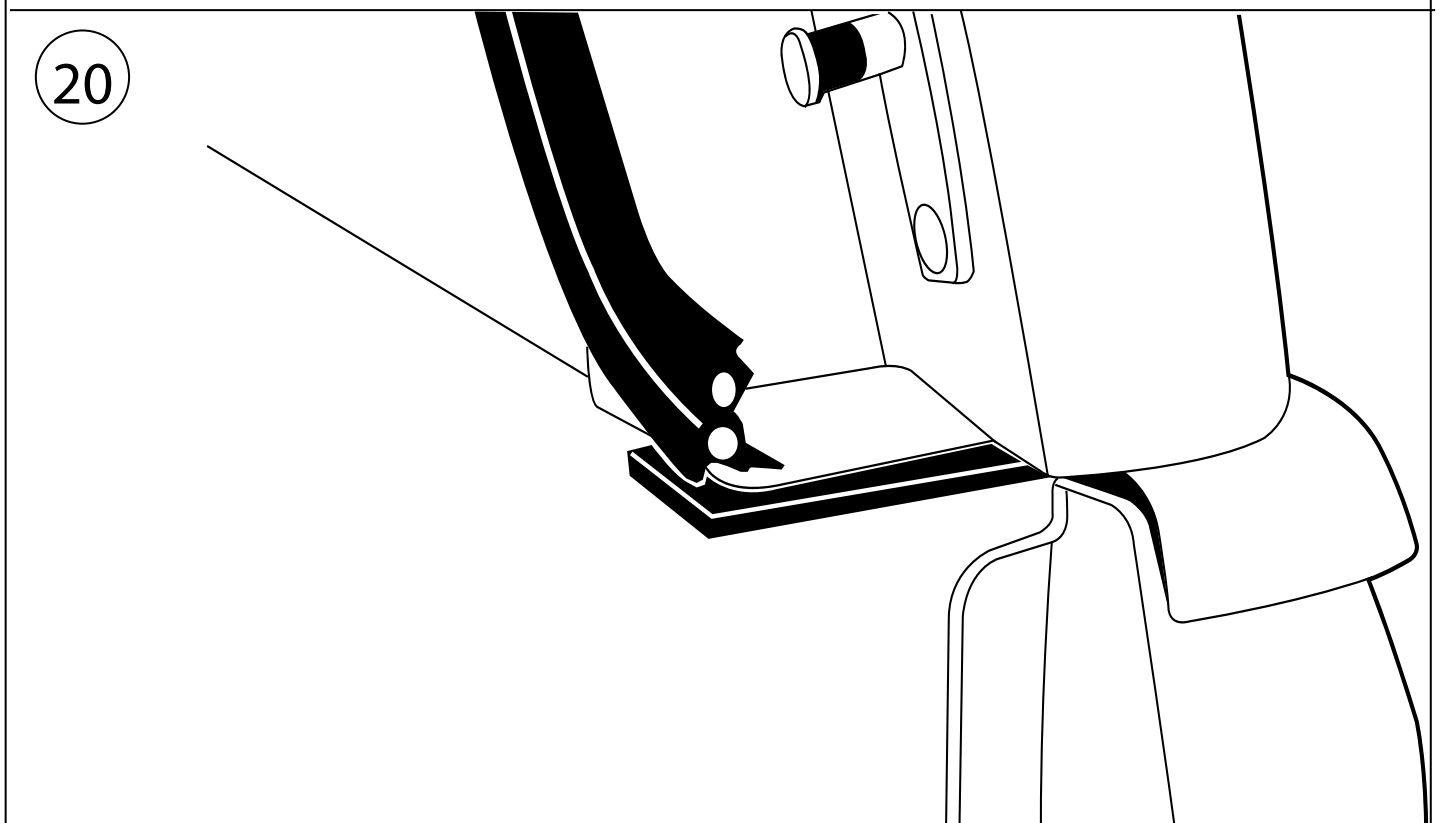


Unit of mm.

After finished measure the front part, check the distance at rear part of canopy which must have the distance of 15-18 mm.



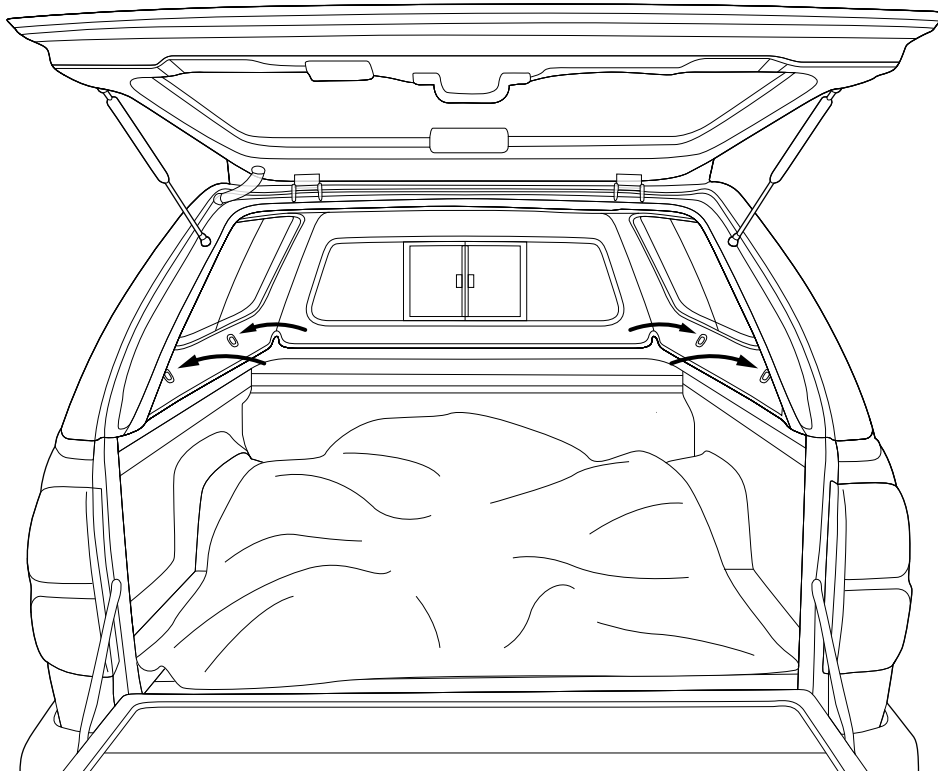
install Bubber PAD Support Roof RH/LH





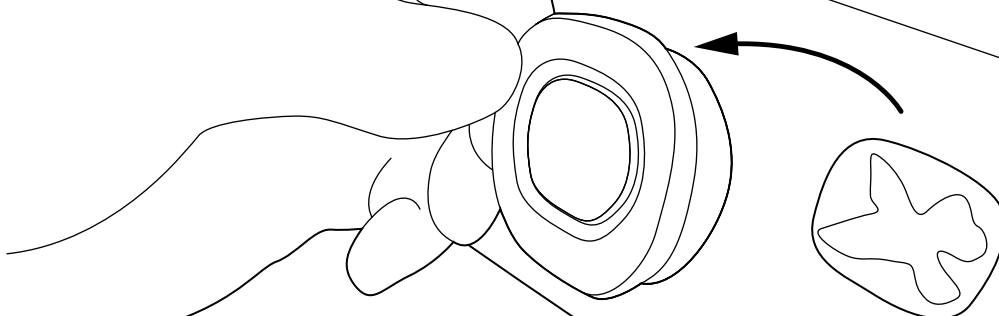
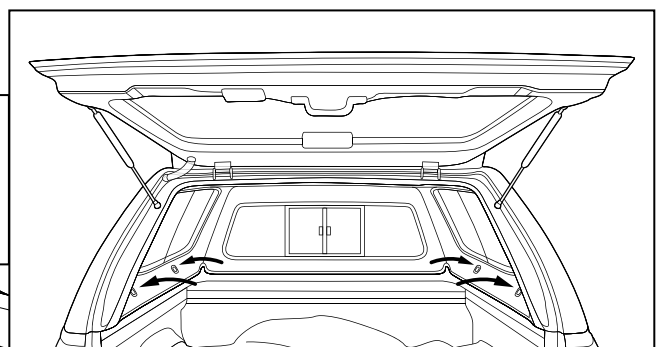
21

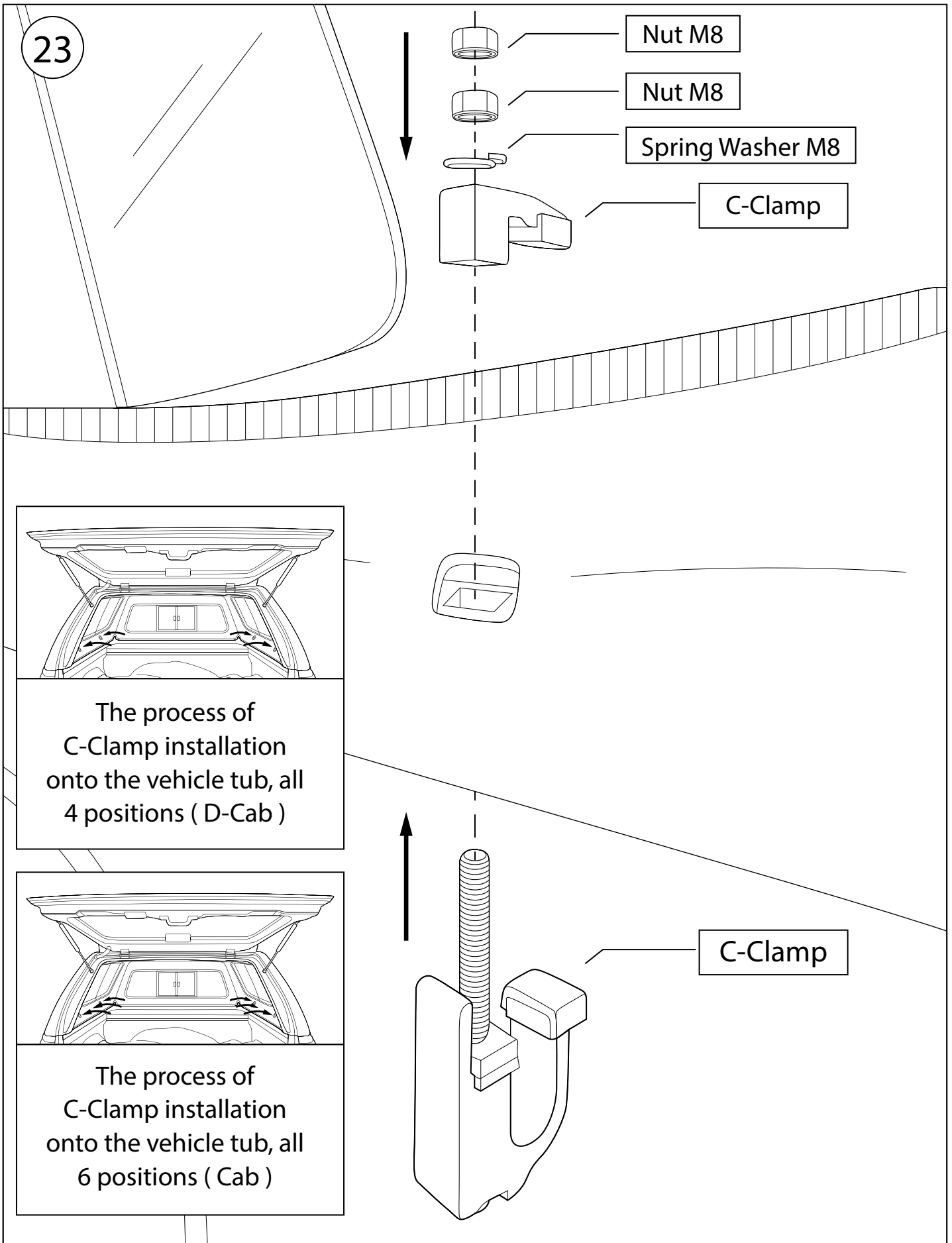
## The process of C-Clamp installation S-Plus V2 canopy model with the vehicle



22

Open / take off the rubber plug

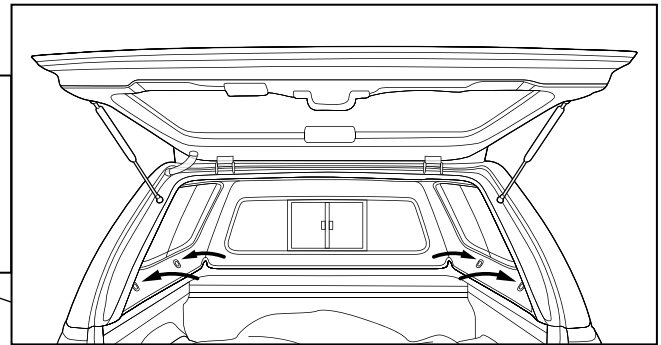






24

Tighten bolts of C-Clamp by using pound wrench, with the pressure of 16 Nm.

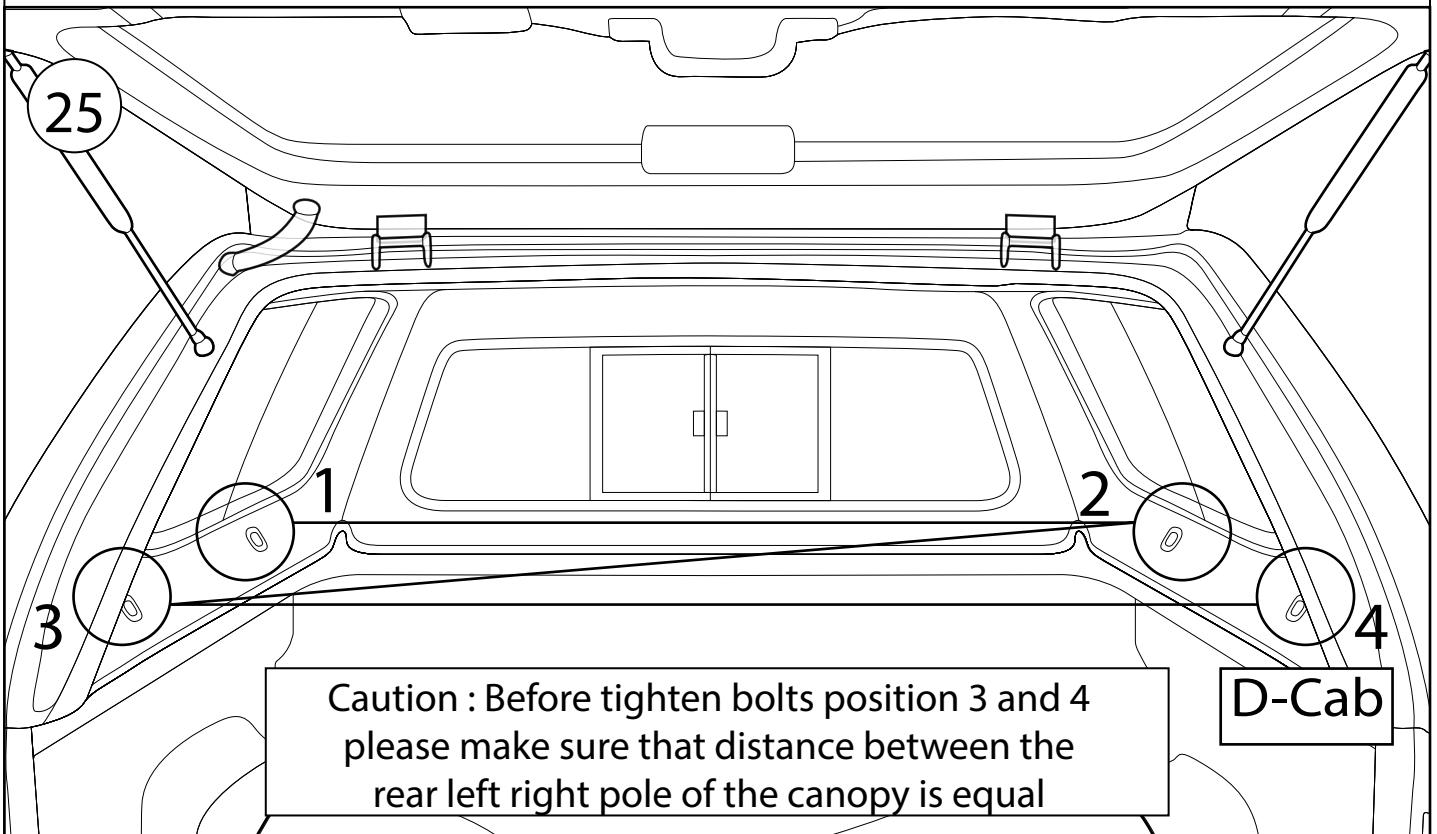


T3

D-Cab

Tighten bolts of C-Clamp bolth with vehicle all 4 position

25



Caution : Before tighten bolts position 3 and 4 please make sure that distance between the rear left right pole of the canopy is equal

D-Cab

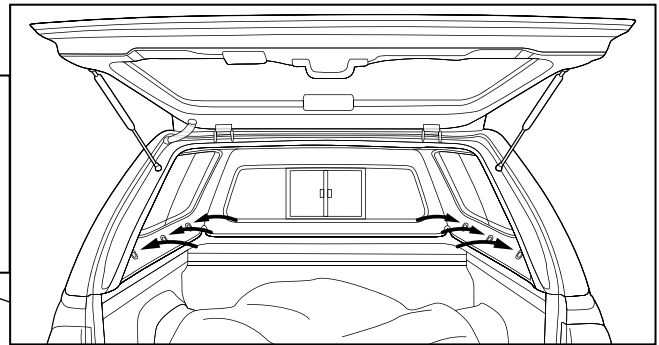
Steps of canopy C-Clamp bolts tightening onto vehicle





26

Tighten bolts of C-Clamp by using pound wrench, with the pressure of 16 Nm.

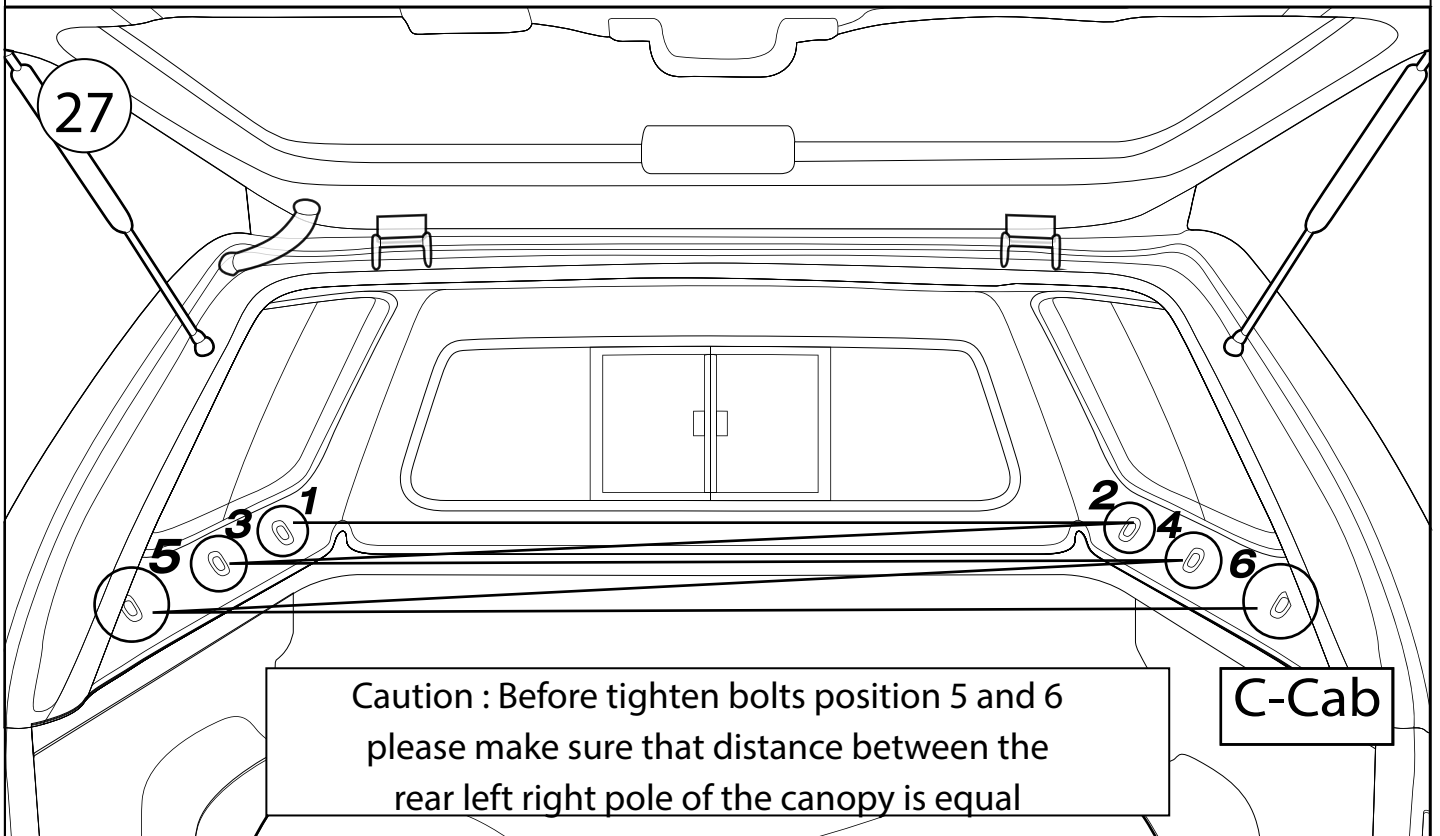


T3

C-Cab

Tighten bolts of C-Clamp bolth with vehicle all 6 position

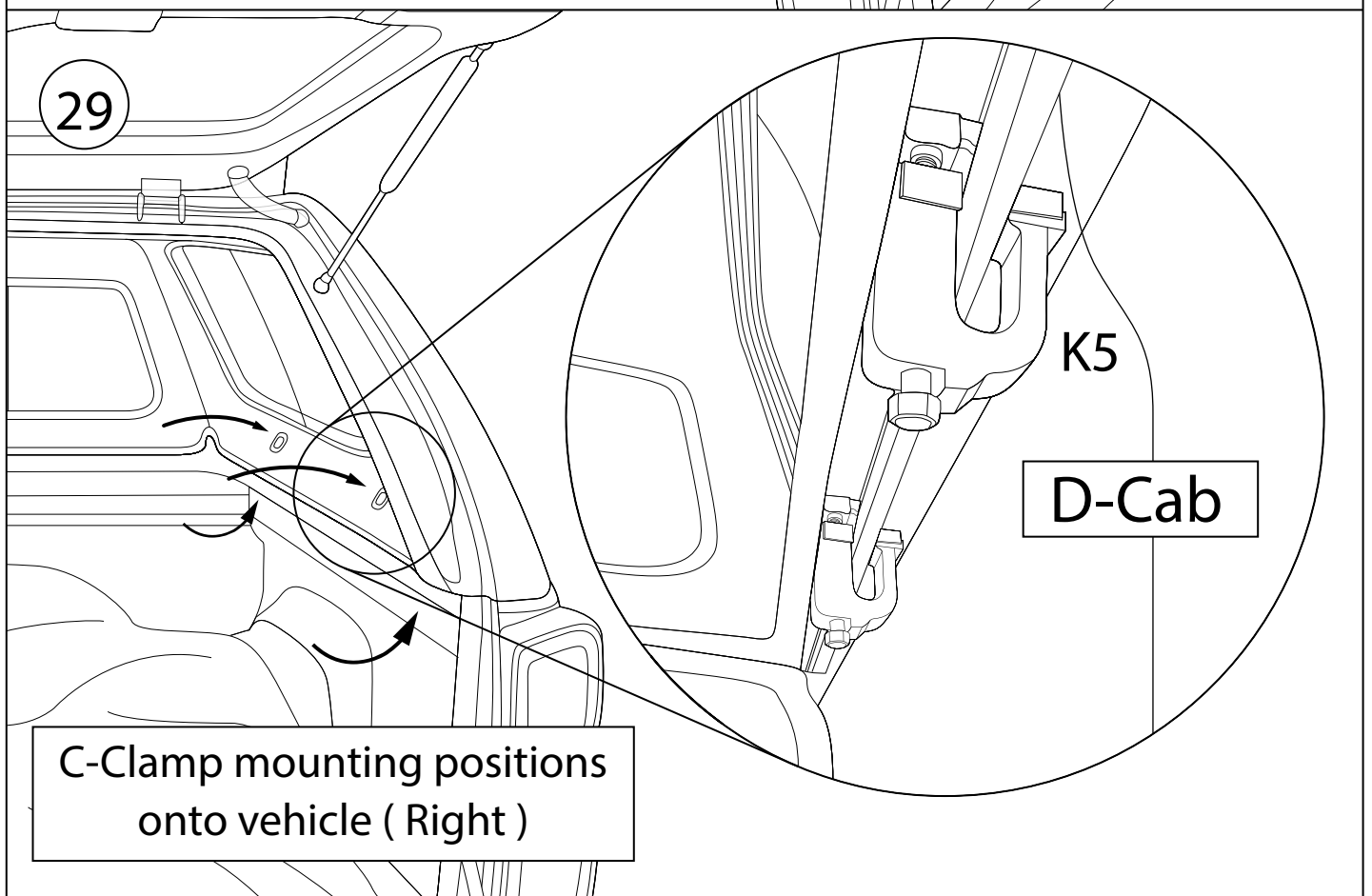
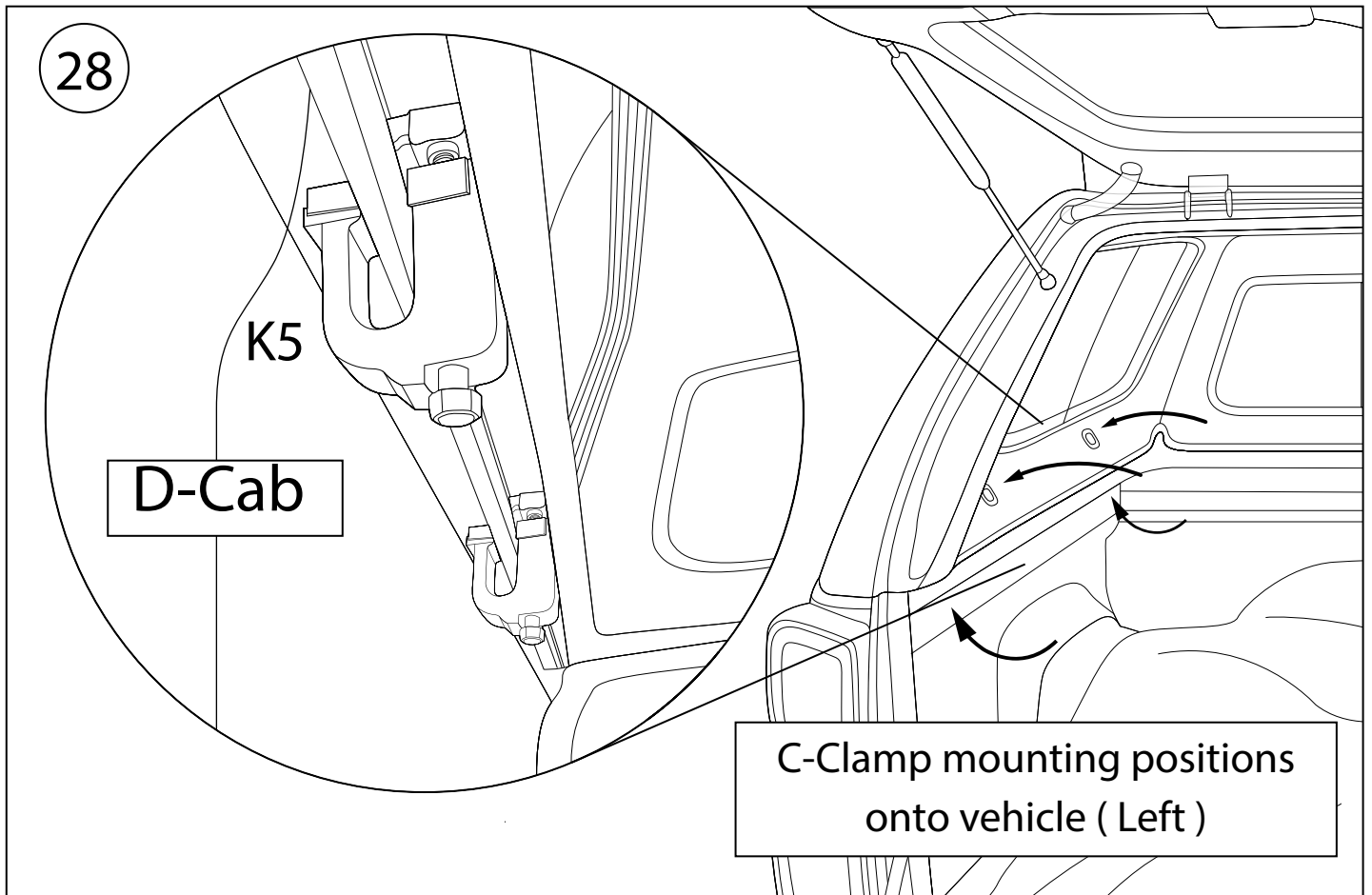
27

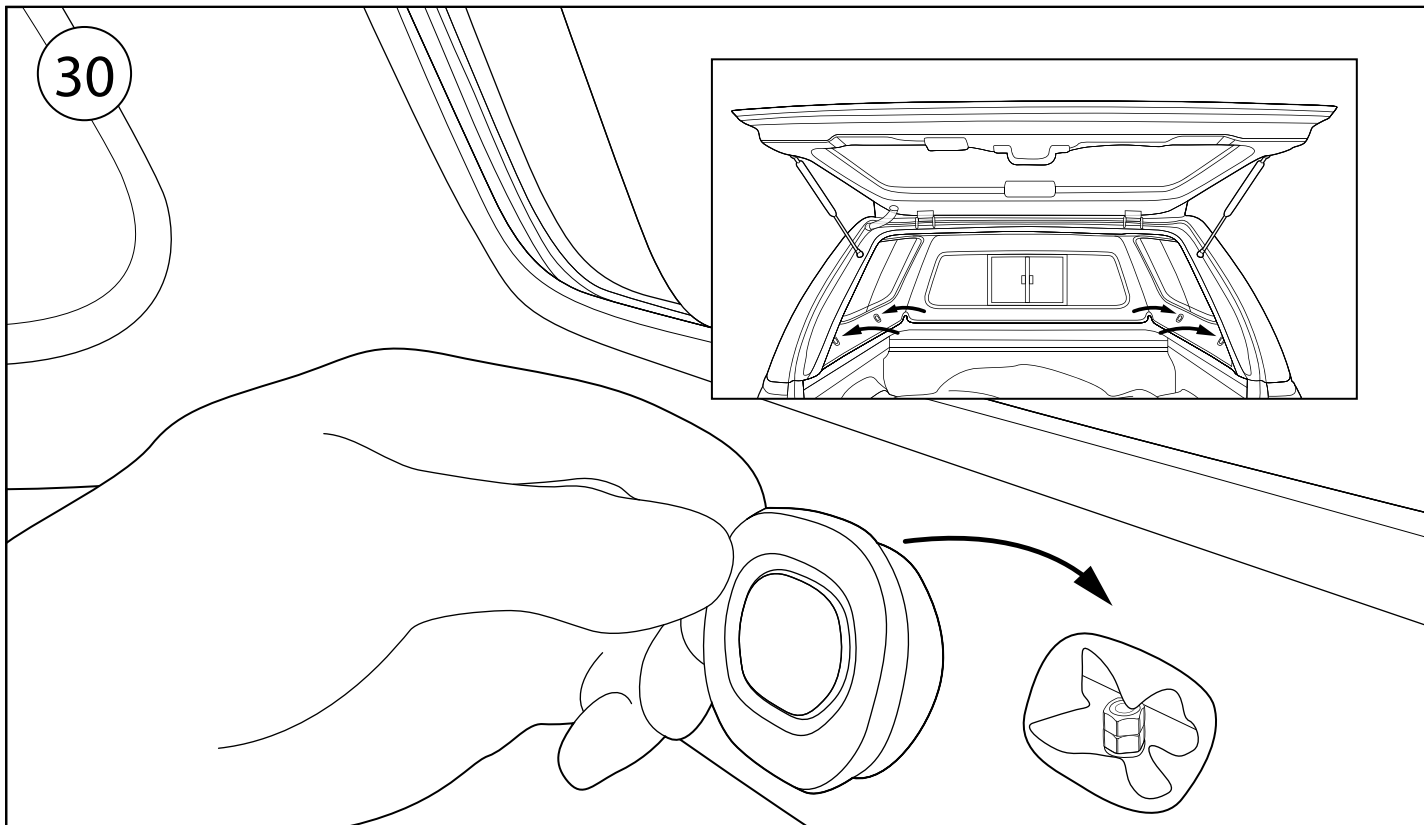


Caution : Before tighten bolts position 5 and 6 please make sure that distance between the rear left right pole of the canopy is equal

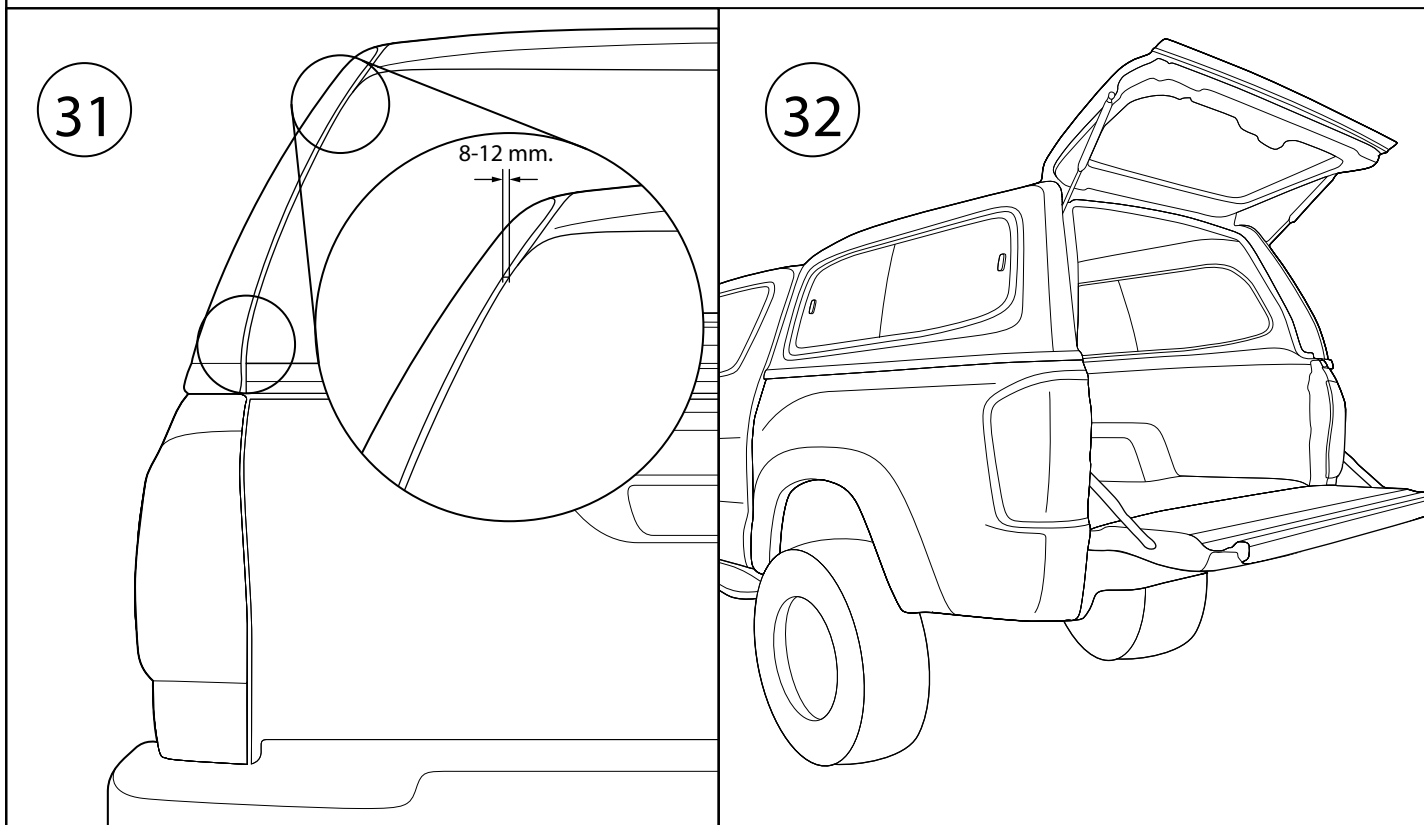
C-Cab

Steps of canopy C-Clamp bolts tightening onto vehicle





Close the rubber plug



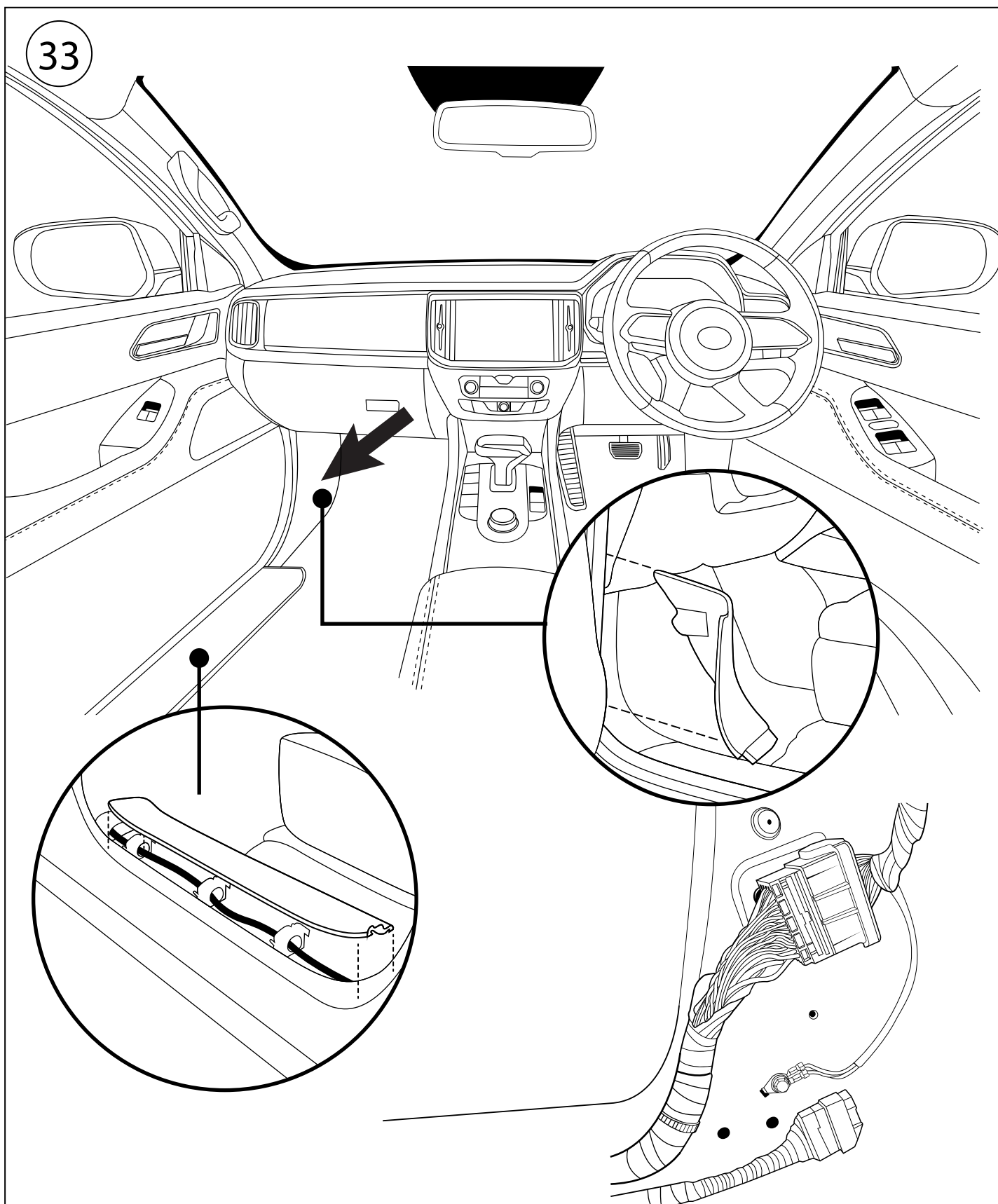
Measure the distance between backdoor and rear pillar, to have the 8-12 mm. in along the line.

The process of canopy installation is completed



**SAMMITR**

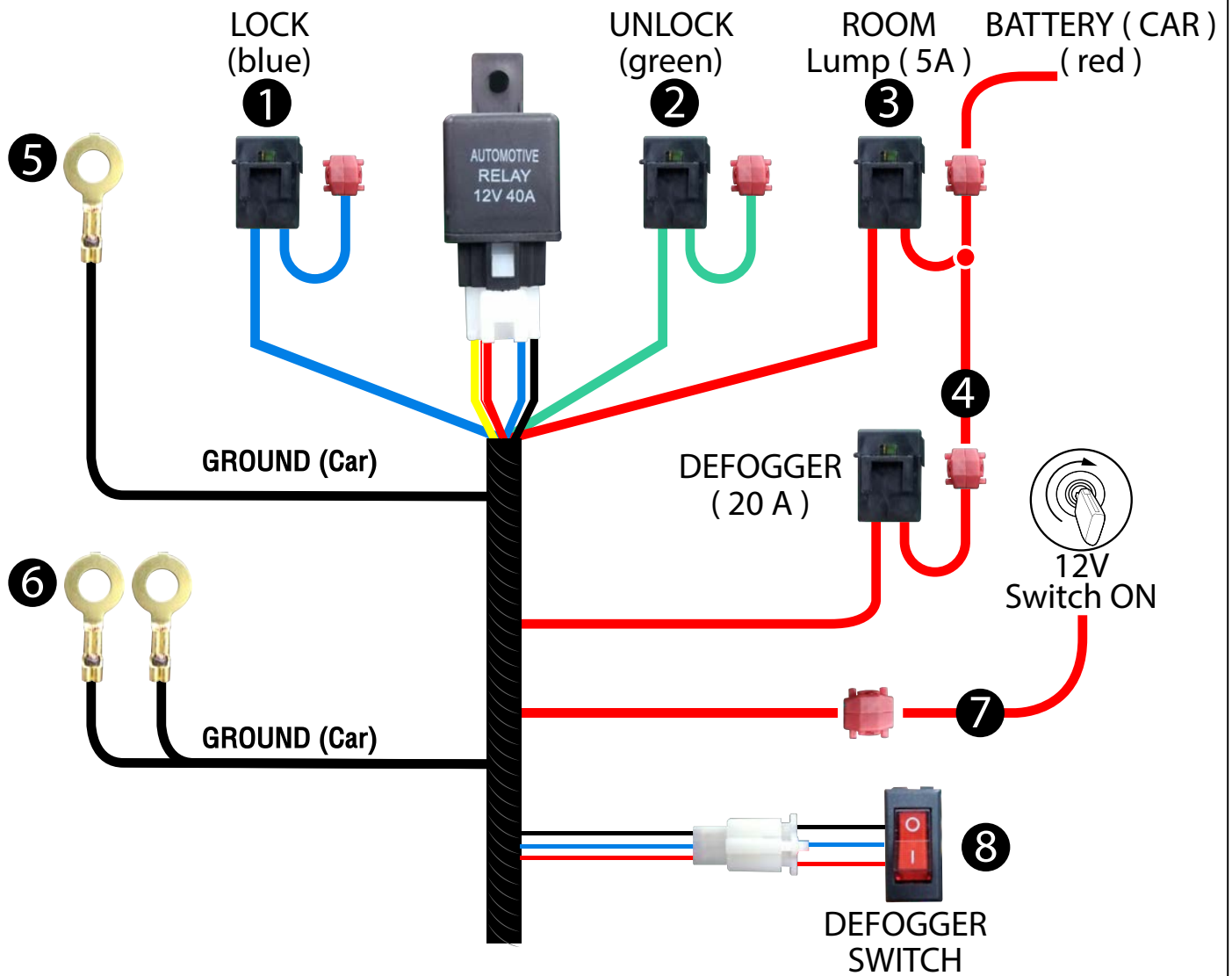
# Electrical Installation



Take off the Wiring Cover at the driver side in order to check the wiring position.

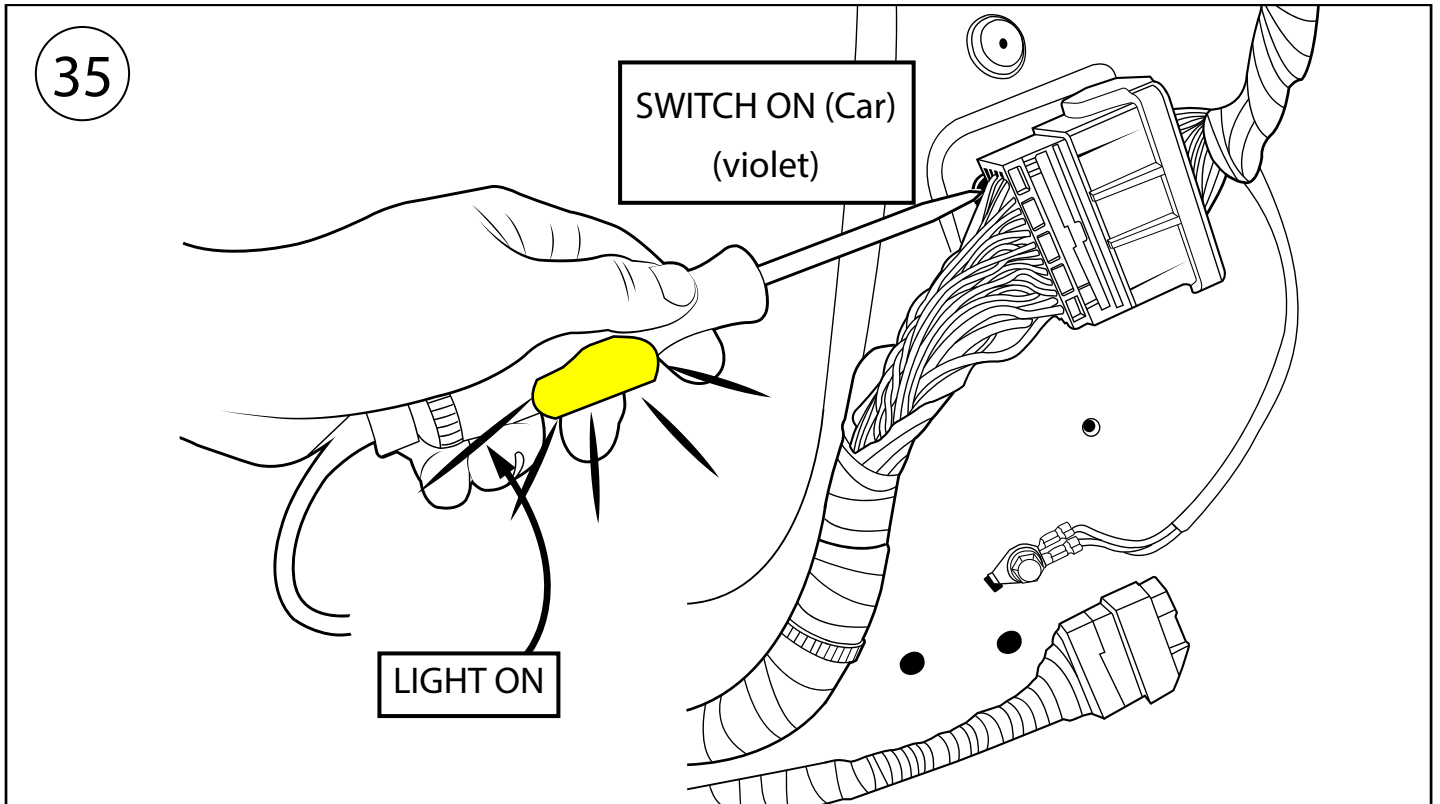


34

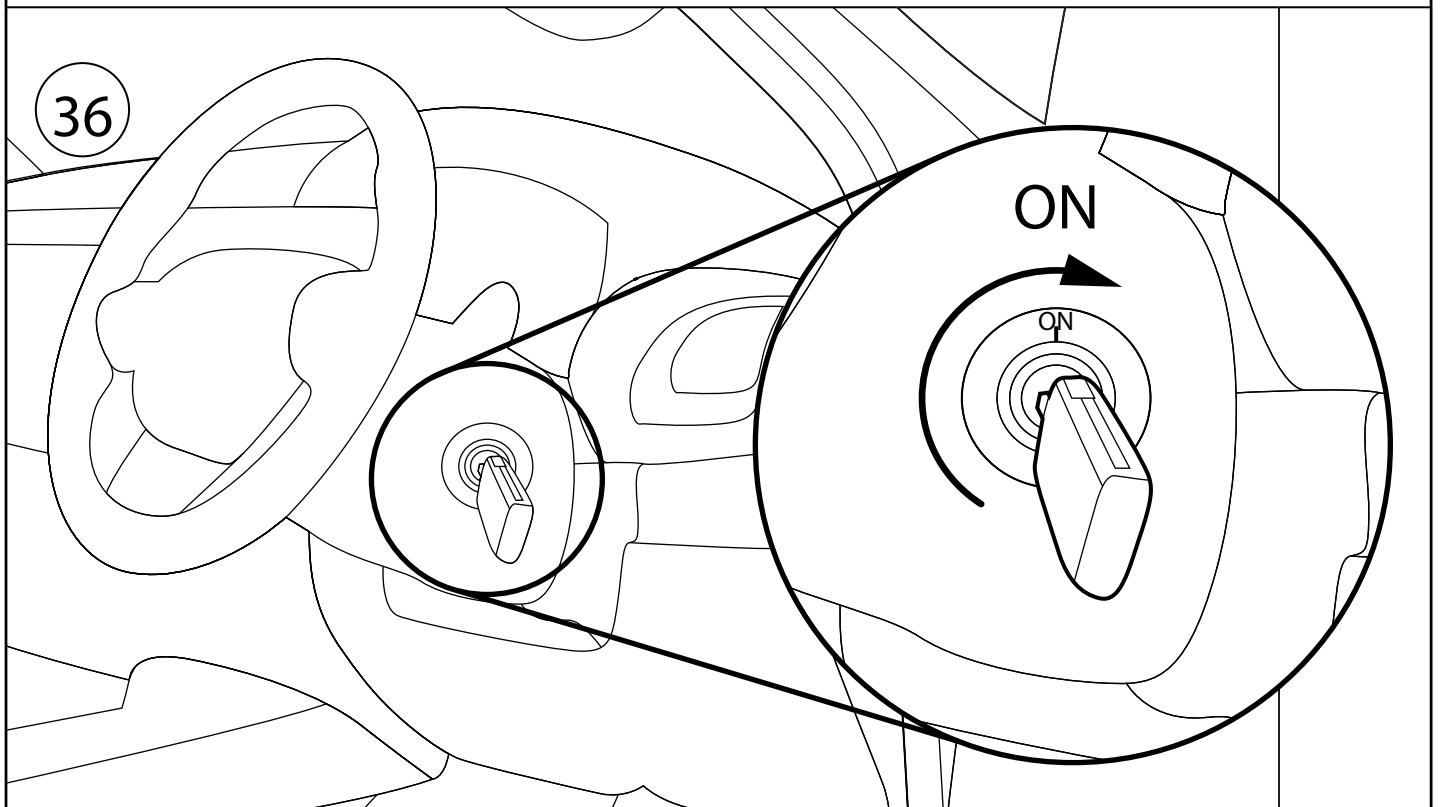


Harness Central Lock No.51





Find the Switch ON by twist the key and use the Circuit Tester to check

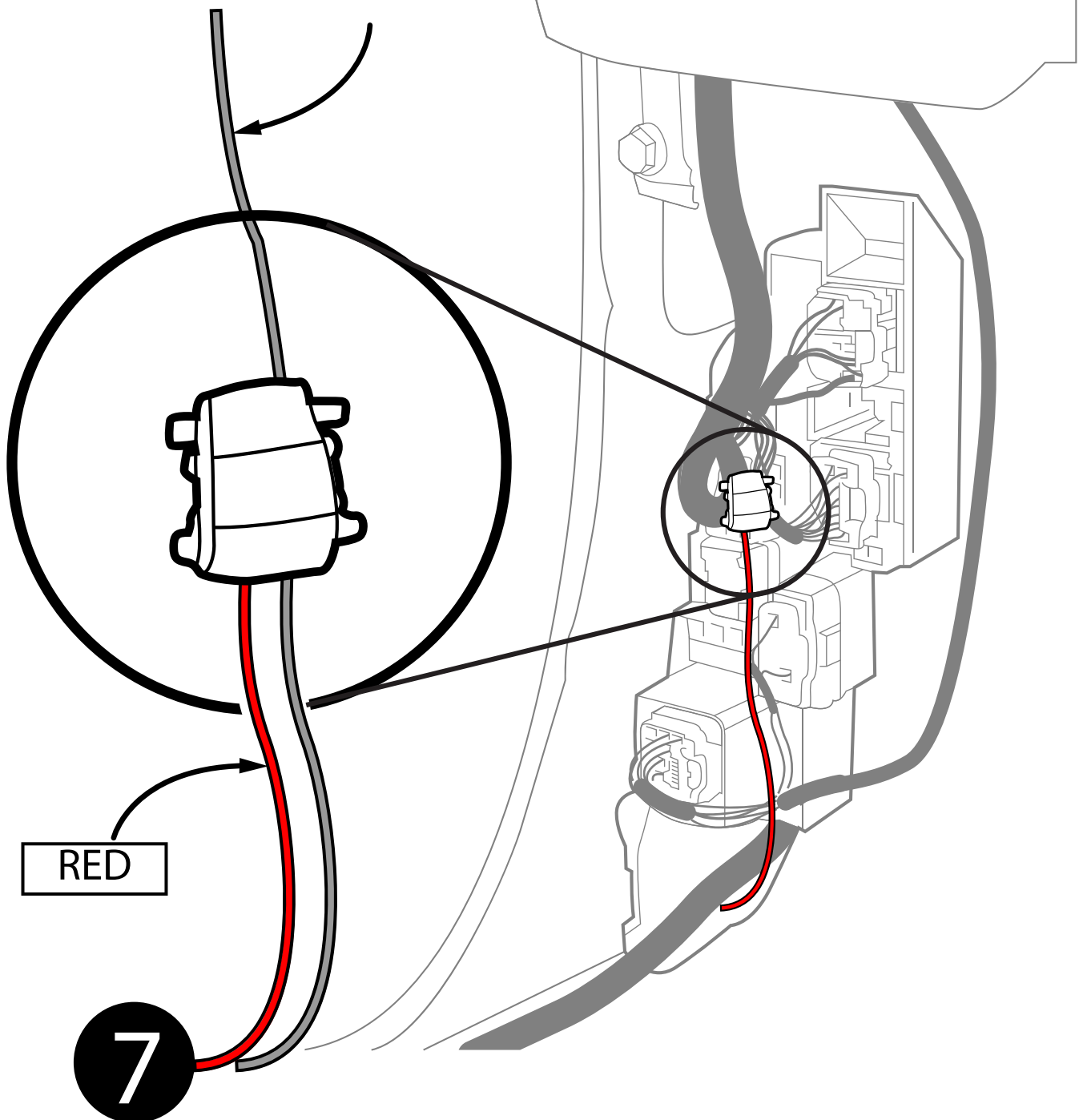


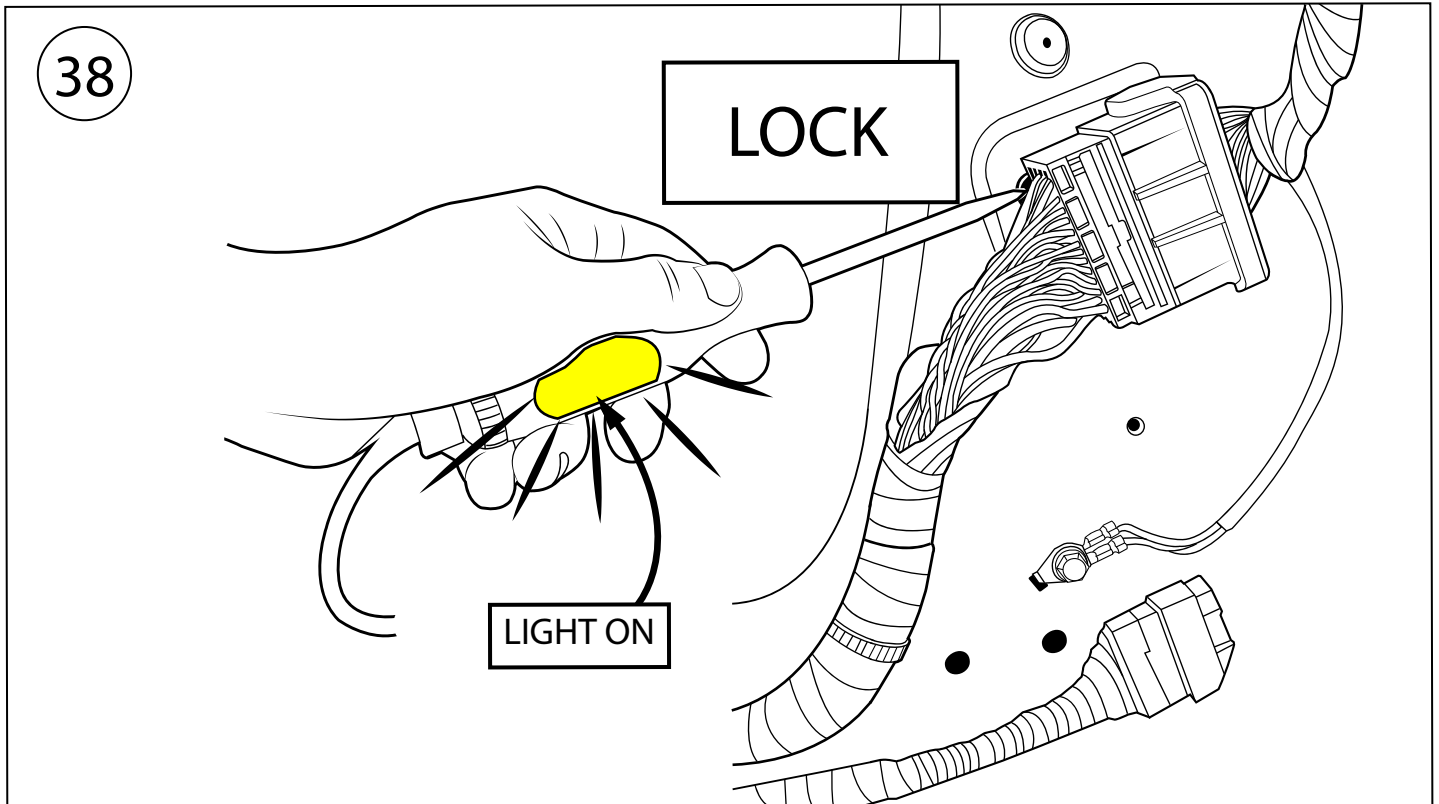
Step of checking Switch on position, begin with turning the key to ON position.



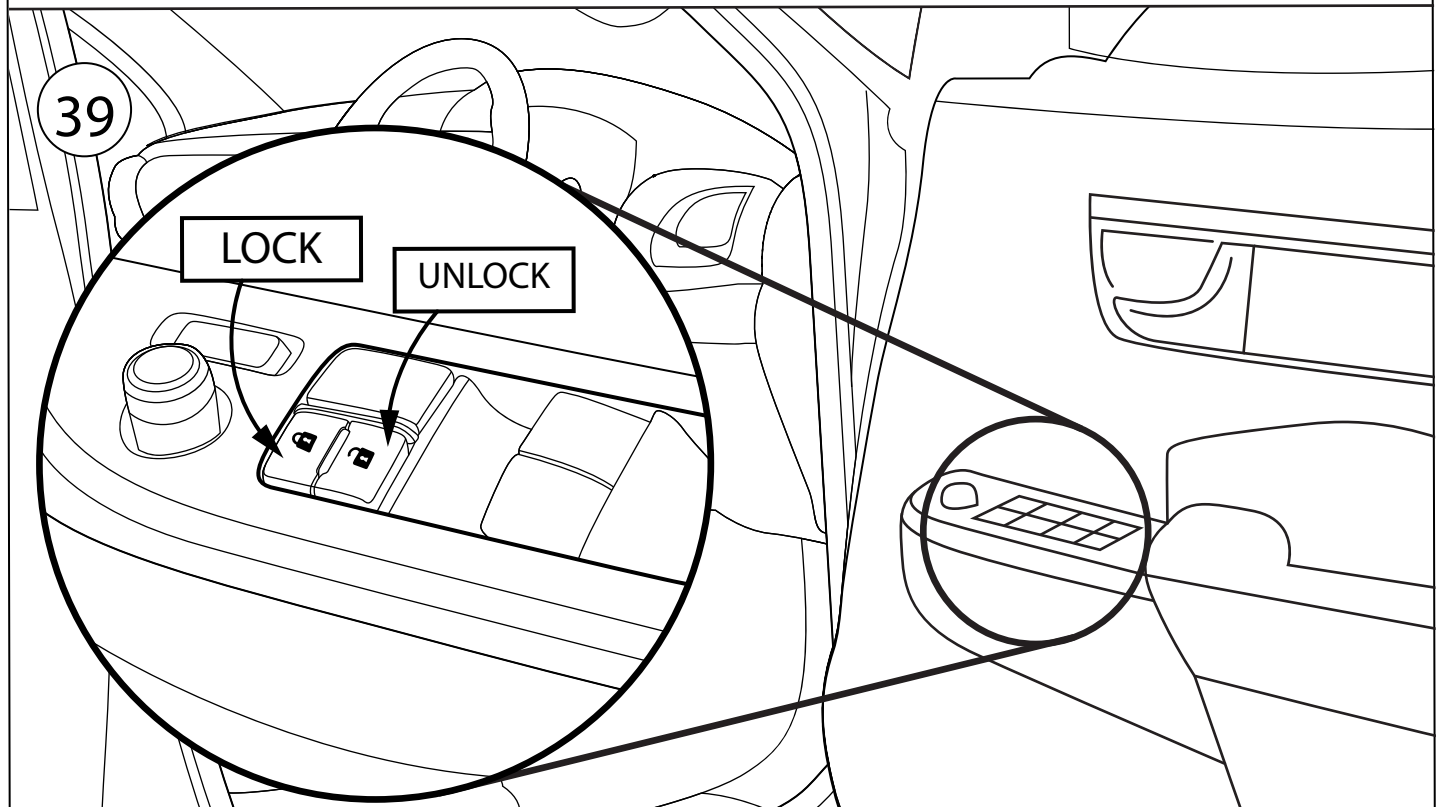
37

WIRING SWITCH ON





Find the Lock Wiring by push the Central Lock and use the Circuit Tester to check

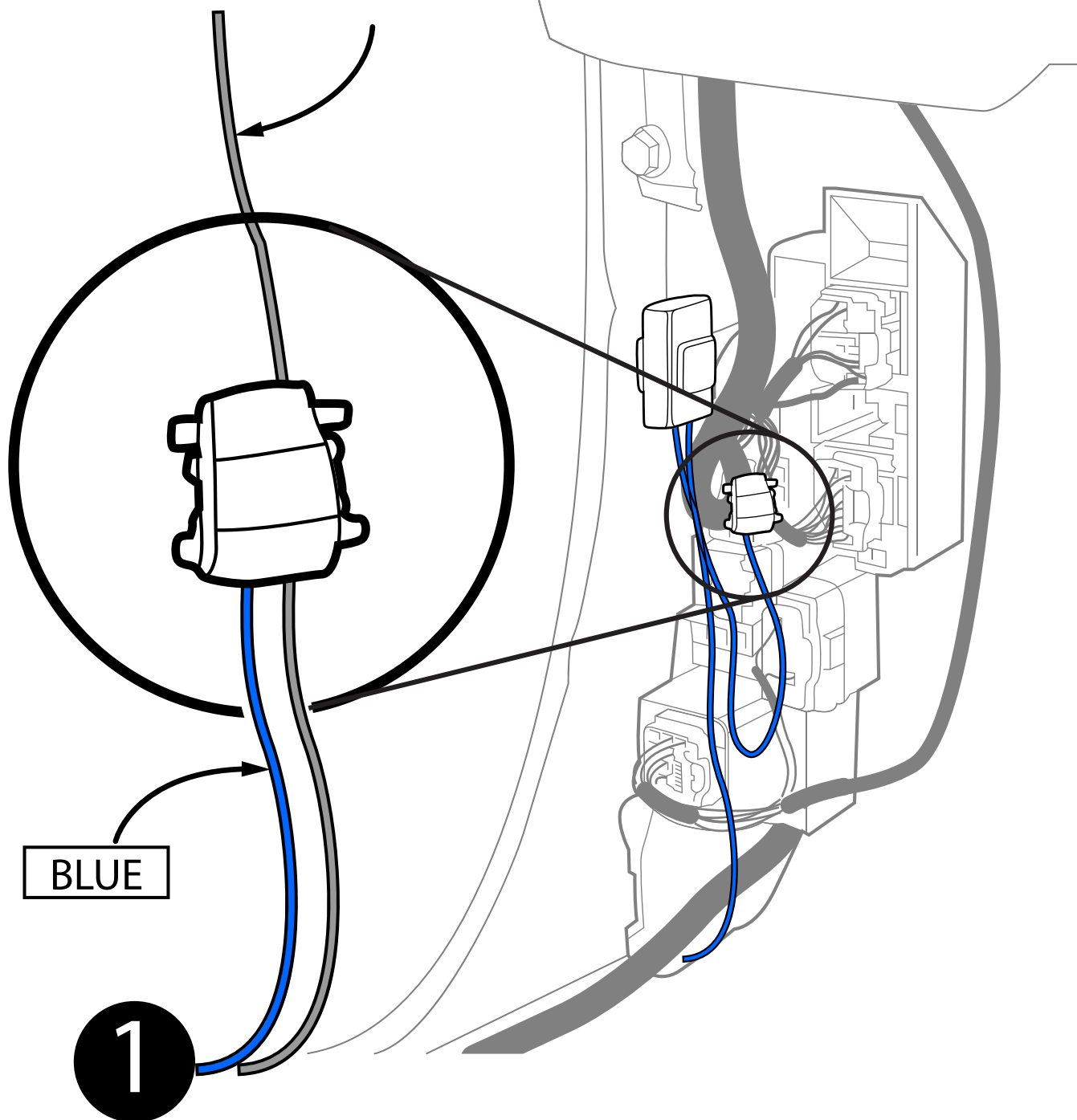


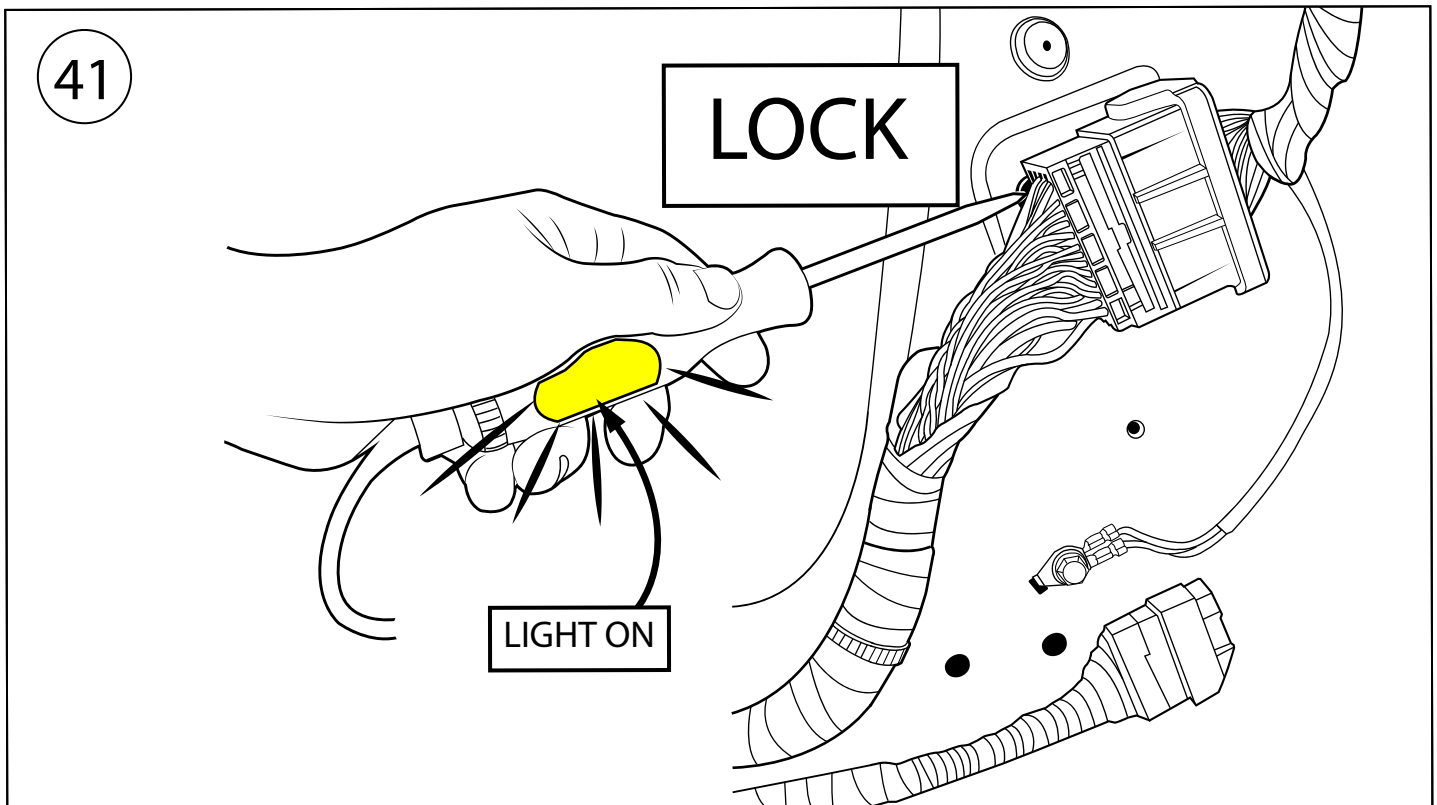
Step of Checking the light of the Central Lock (Lock), begin with push the UnLock button at the door panel.



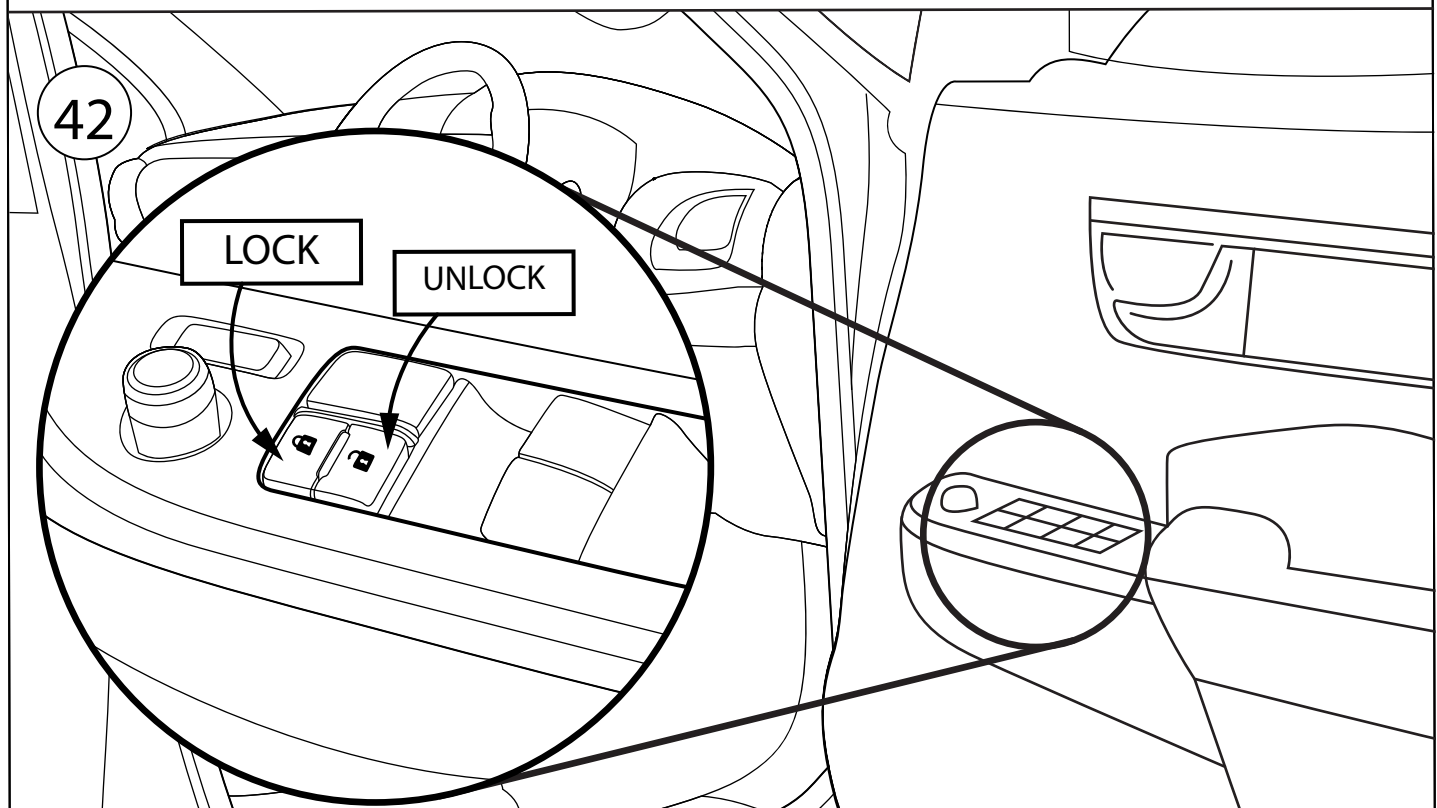
40

## WIRING LOCK





Find the Lock Wiring by push the Central Lock and use the Circuit Tester to check

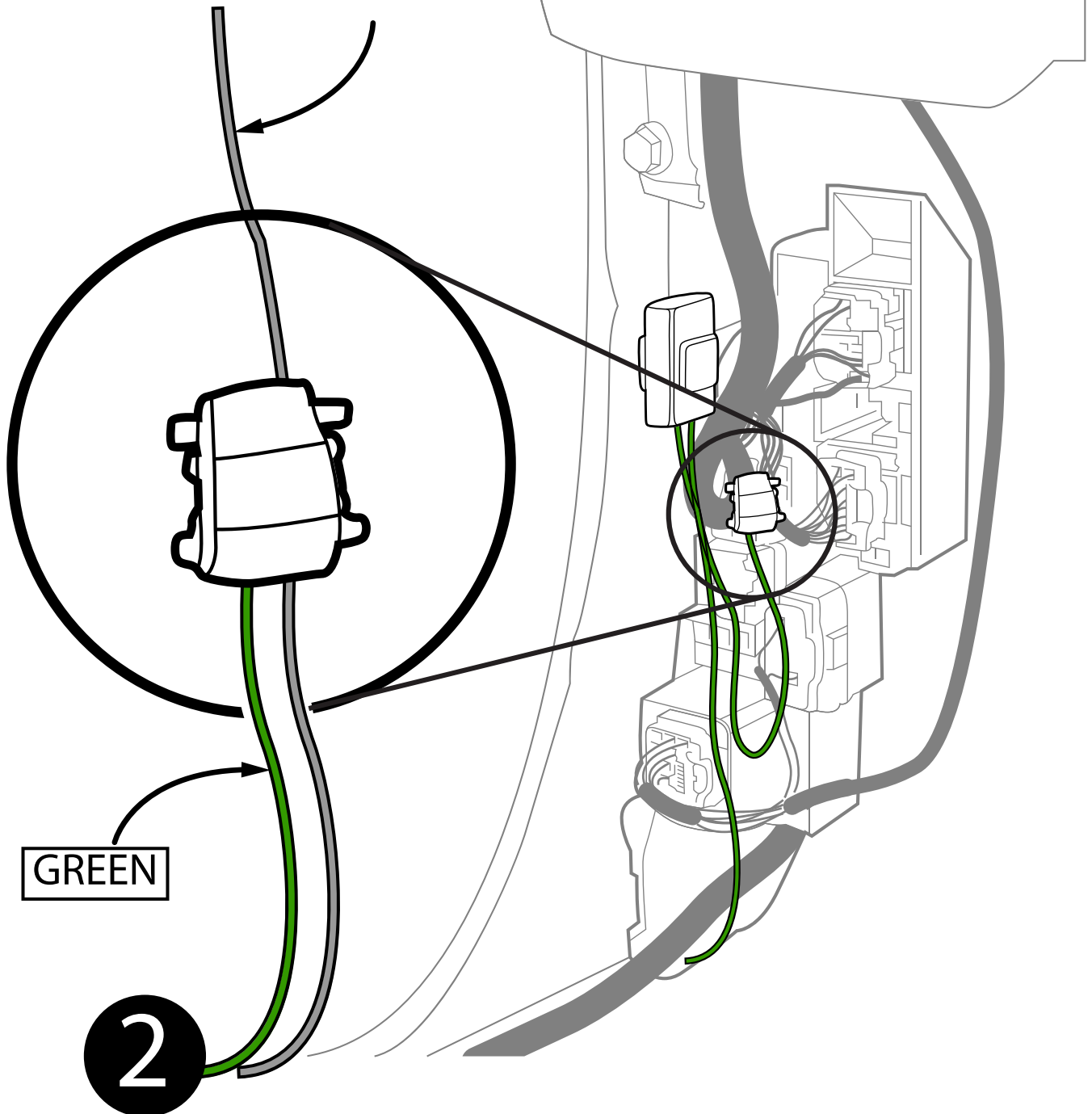


Step of Checking the light of the Central Lock (UnLock), begin with push the UnLock button at the door panel.



43

## WIRING UNLOCK





44

BATTERY

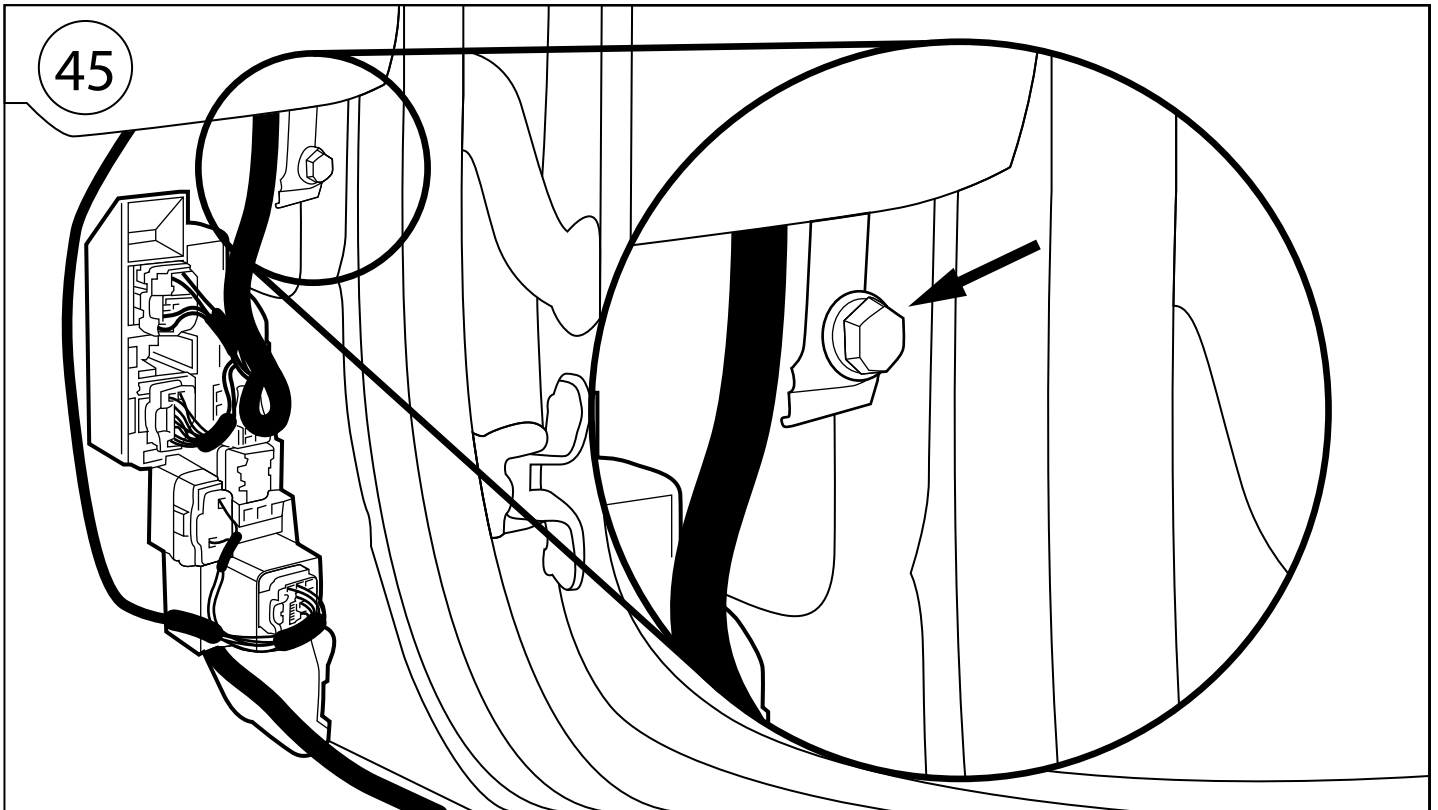
LIGHT ON

Find the battery Wires, use a  
Circuit Tester to check.

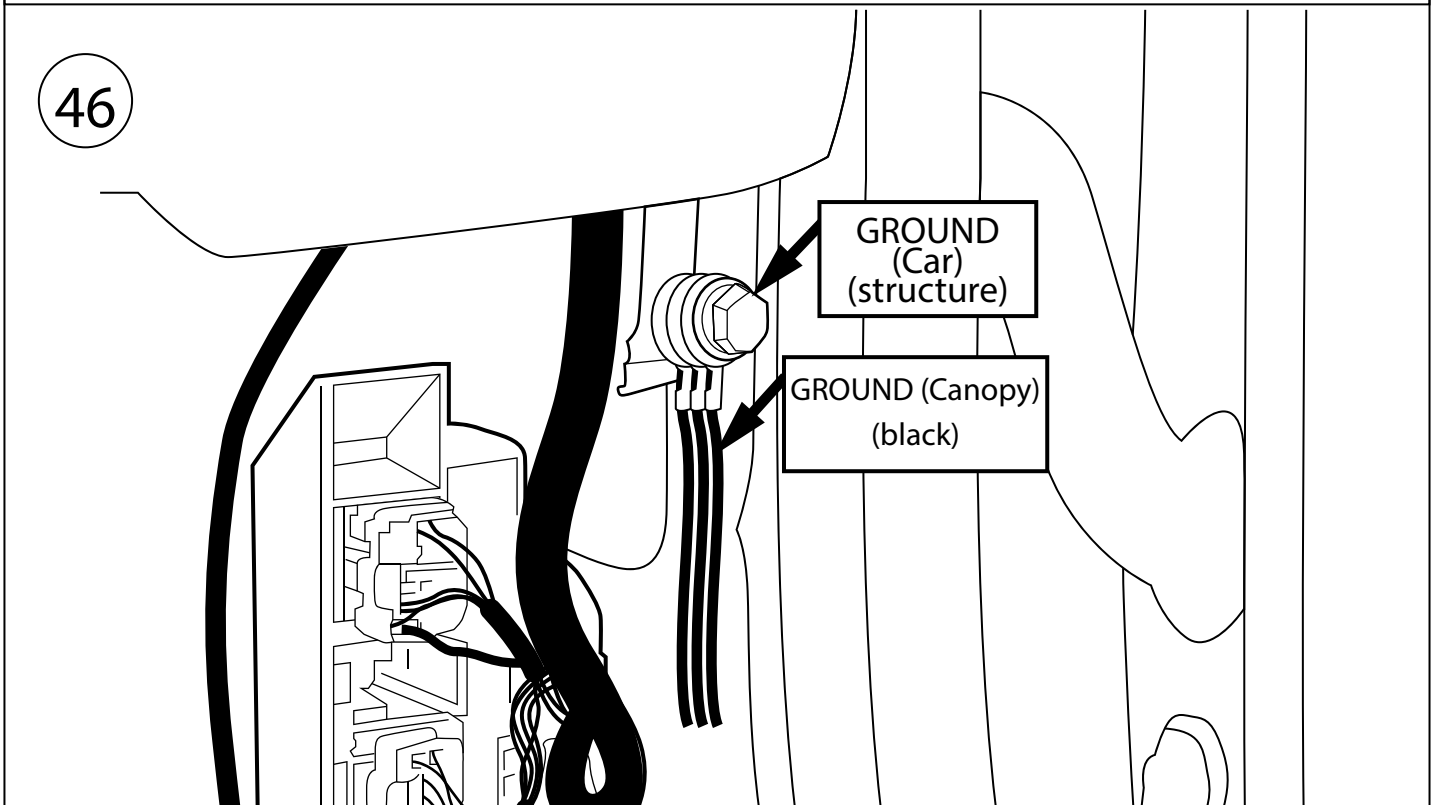
RED

4





Take off the Cover at the Driver side in order to connect the Black Wiring of the Harness Central Lock No.38 with the Vehicle Structure. Take off the Bolt by using wrench No.10

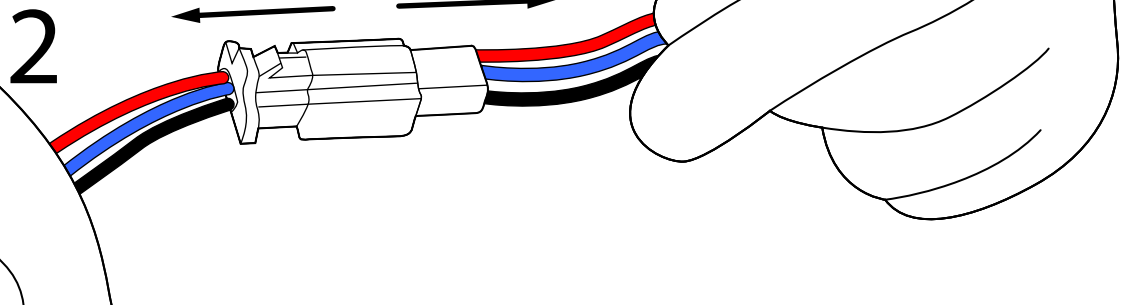
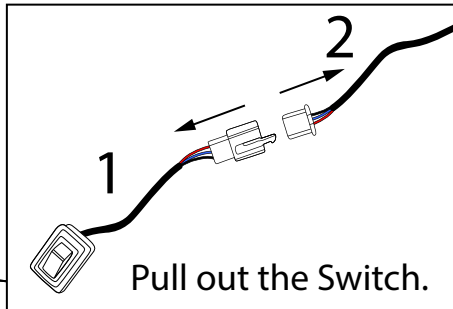


Connect the Black Wiring (Ground) of the Harness Central Lock No.51 with the Vehicle Structure and using wrench tighten.



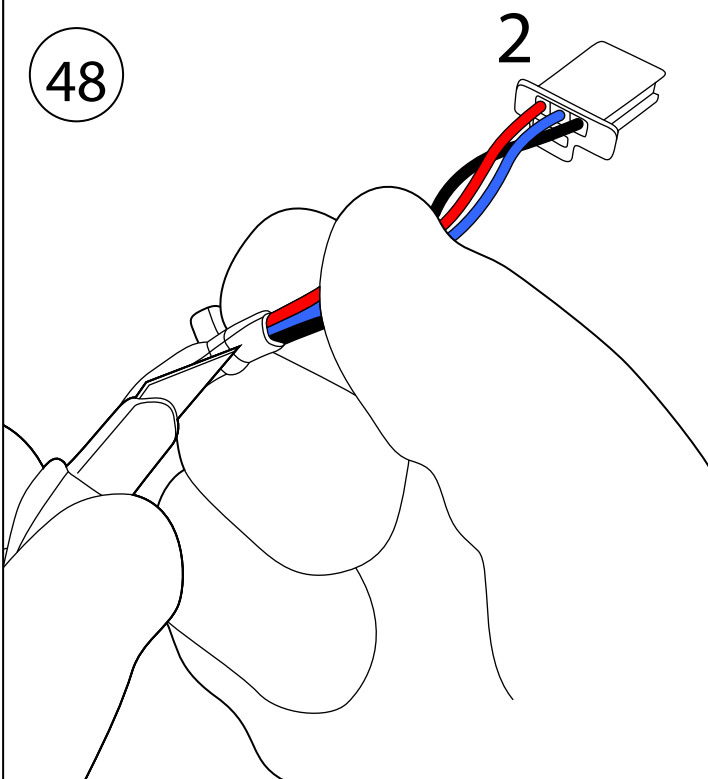
47

Defogger circuit switch installation in case not using defogger switch of the Harness Central Lock No.51.



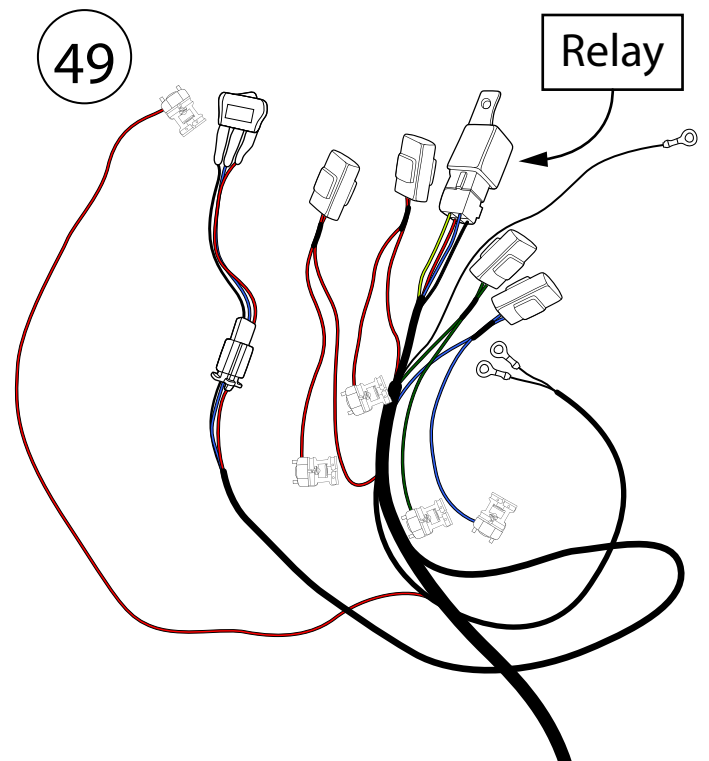
Defogger circuit switch installation of the Harness Central Lock No.51 of the Ford Ranger vehicle.

48



Cut-off the cable

49

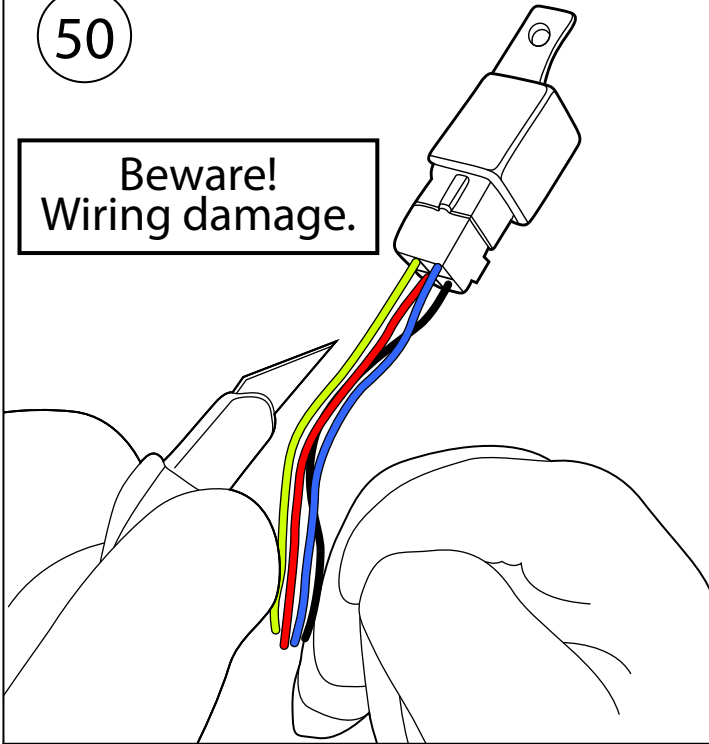


Relay Set of the Harness Central Lock No.51



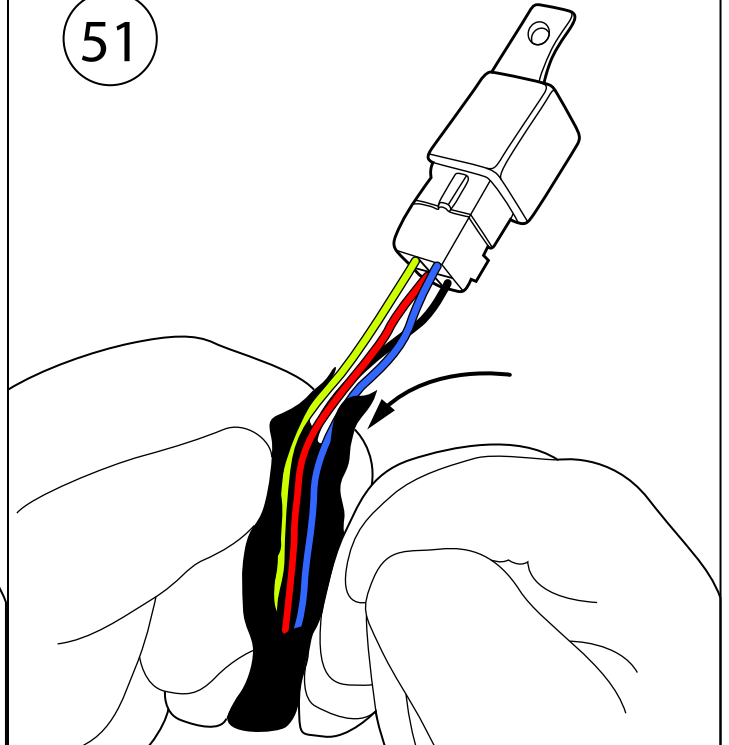
50

Beware!  
Wiring damage.



Cut-Off the tape of the Relay.

51

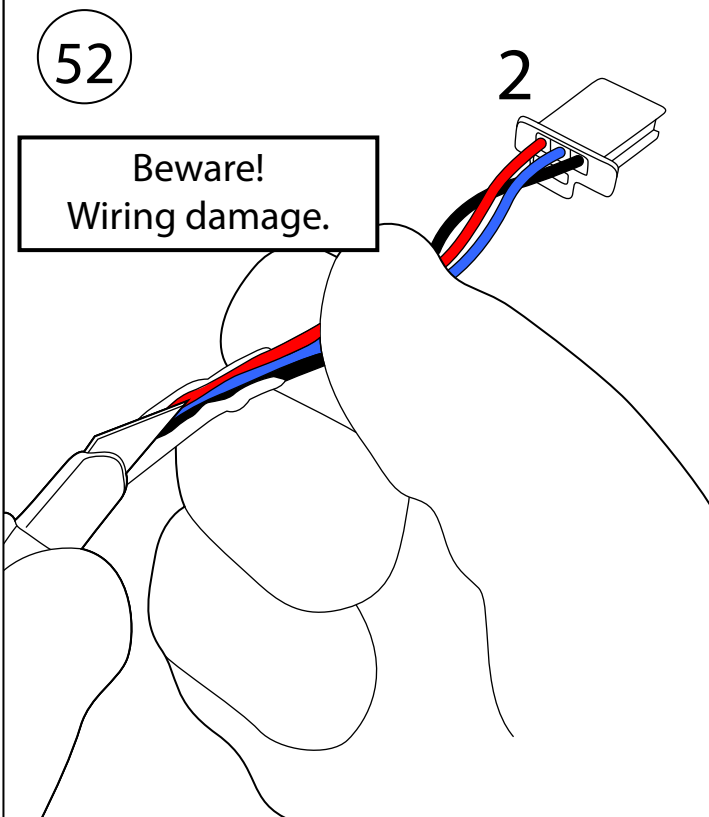


Pull out the tape

52

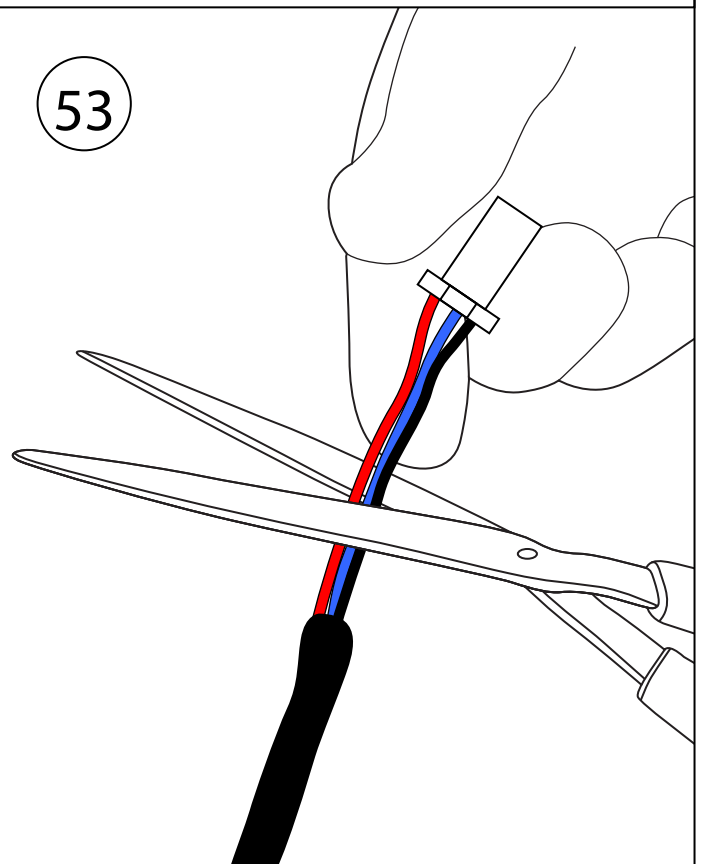
Beware!  
Wiring damage.

2



Cut the switch cable insulation pipe.

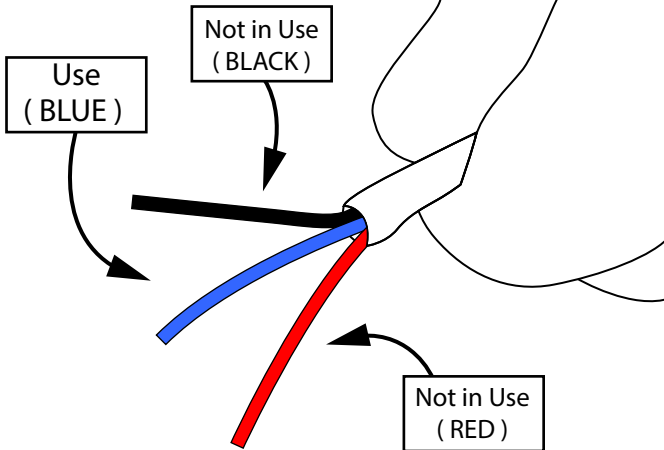
53



Cut the end of the defogger switch cable.

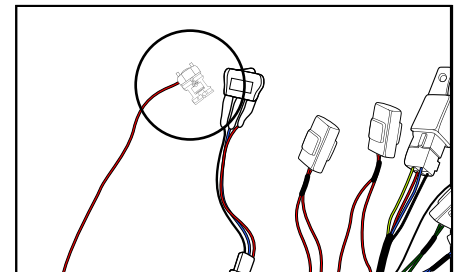
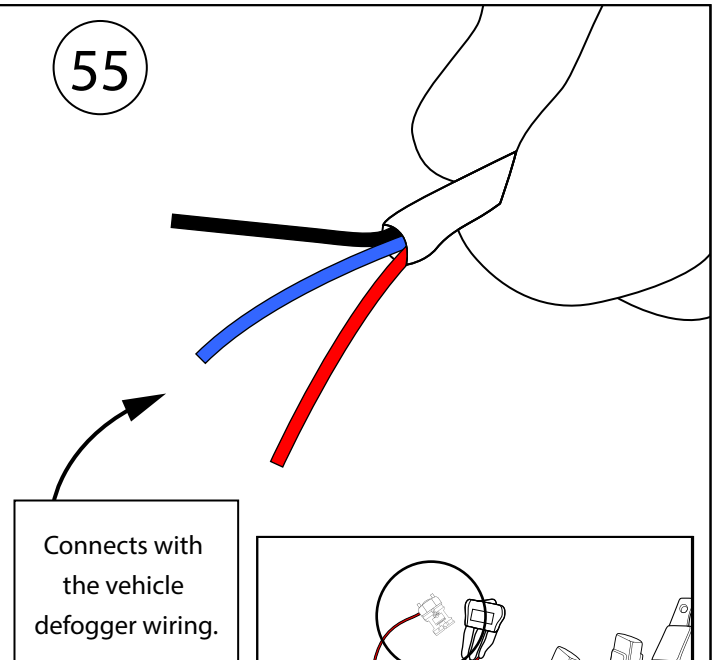


54



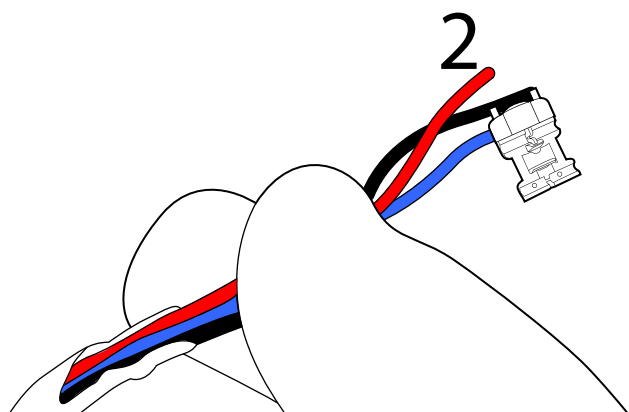
After Cut the end of the defogger switch cable, the wiring that will be using for connecting is the Blue colour.

55



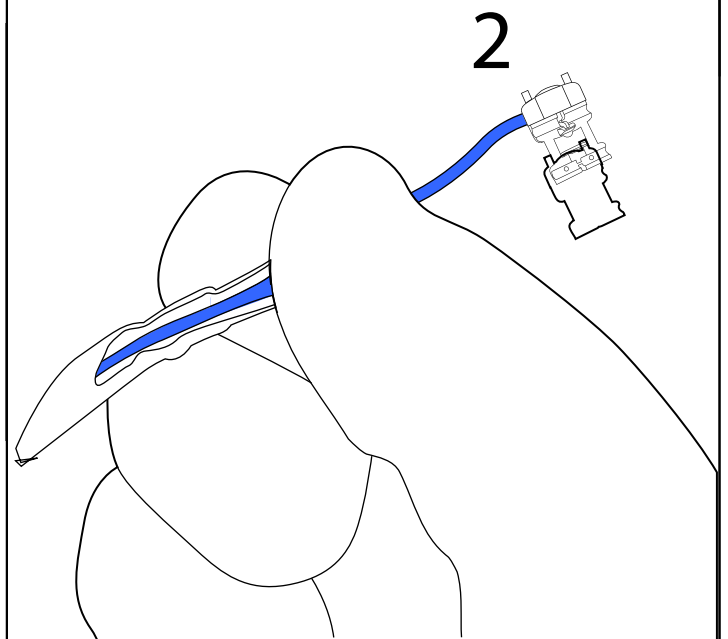
Take the Electro-tap from the Switch On of the Harness Central Lock No.51 connecting with the defogger wiring.

56



From item 24 : Electro-tap that connect with the blue wiring.

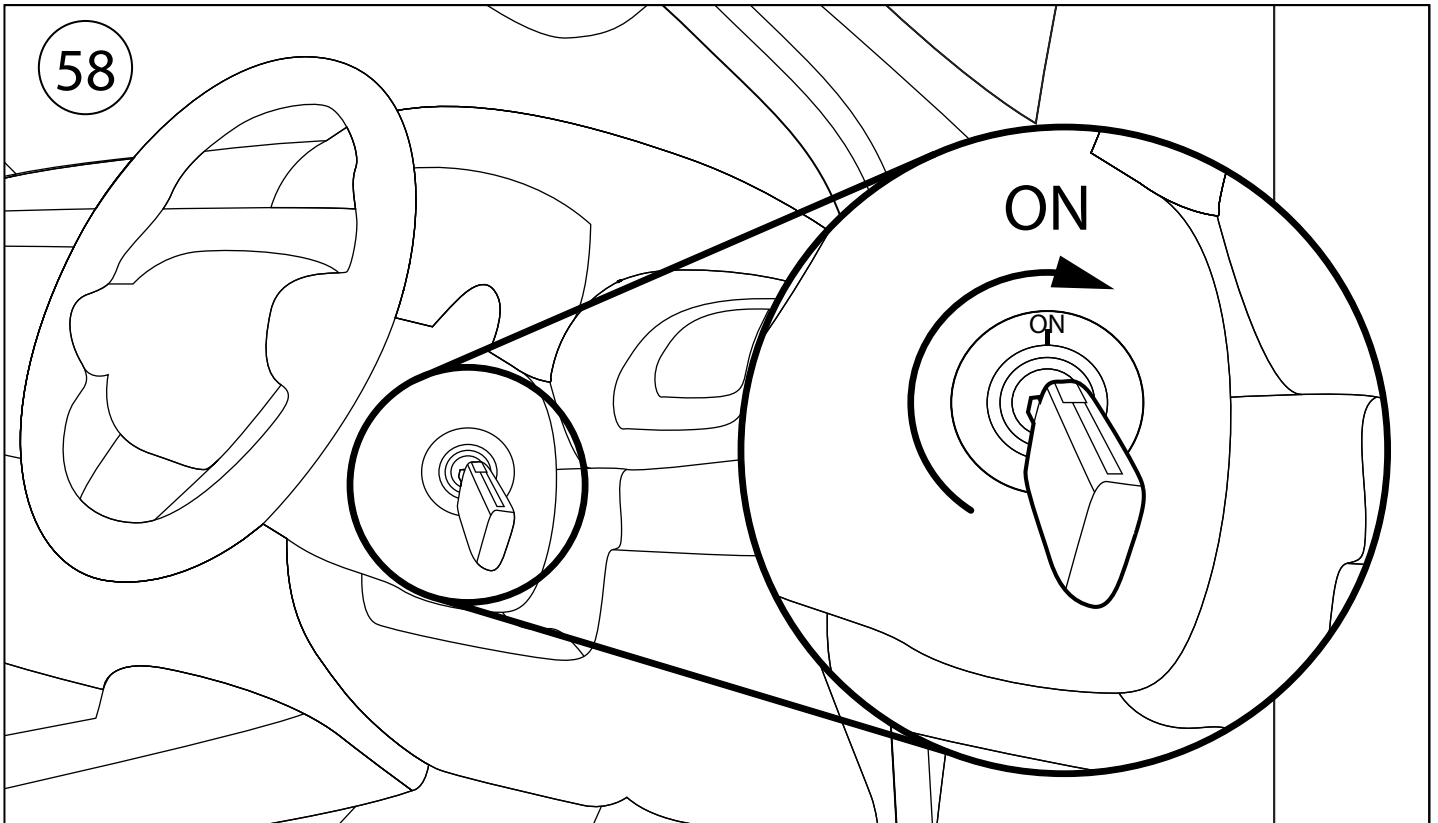
57



Take off the Red and Black wiring out of the defogger switch set, only leave the blue wiring in.

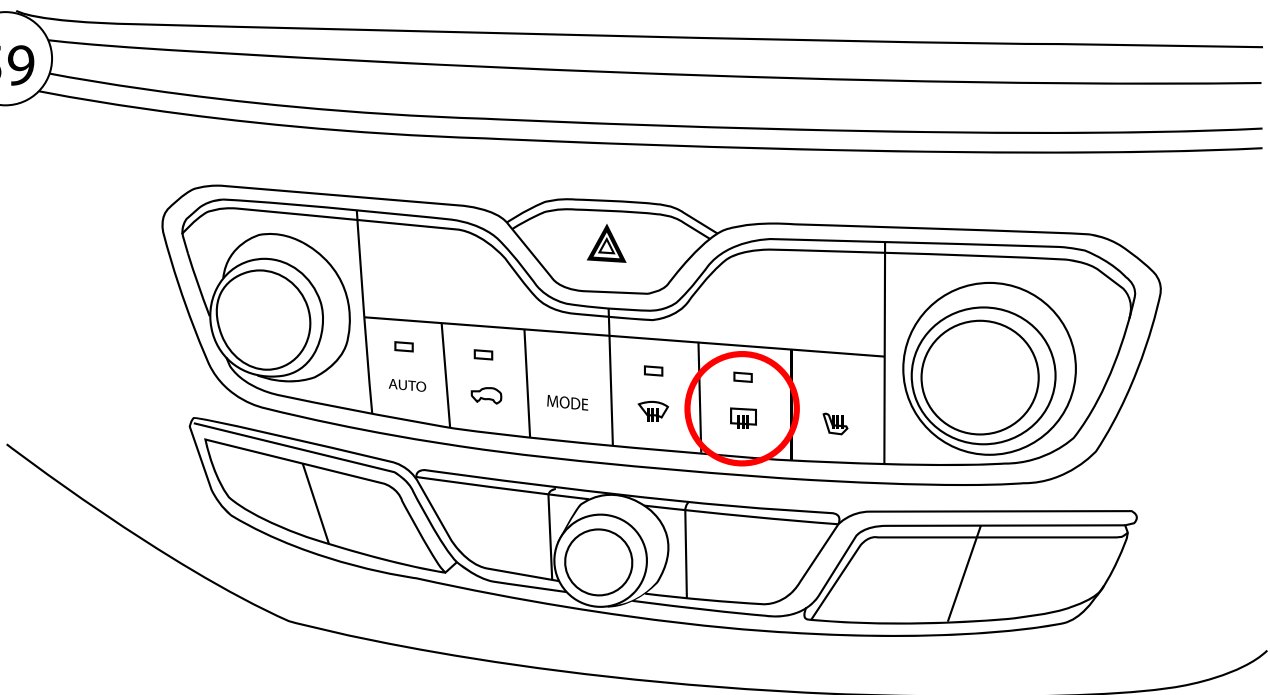


58

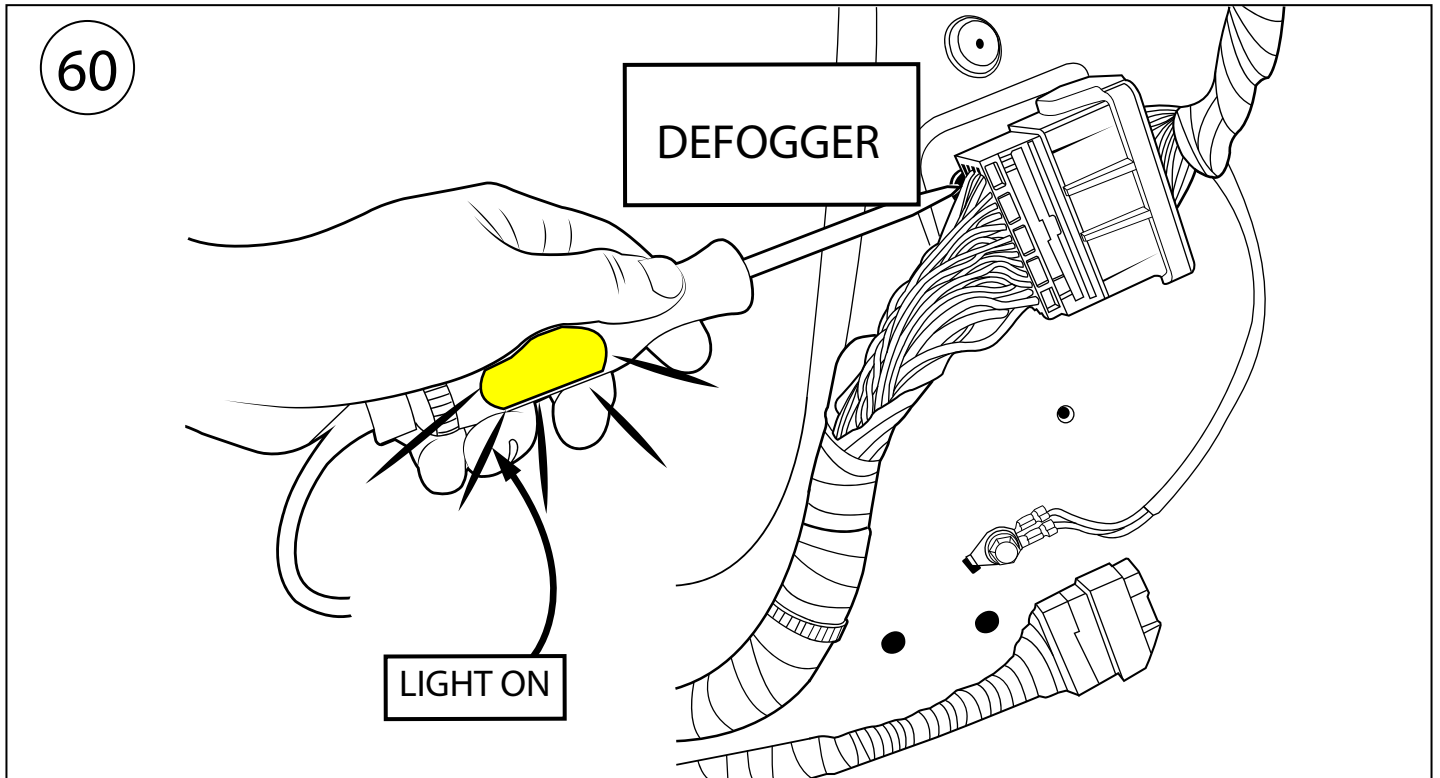


Checking the defogger system by turn ON and push the defogger button at the console pad.

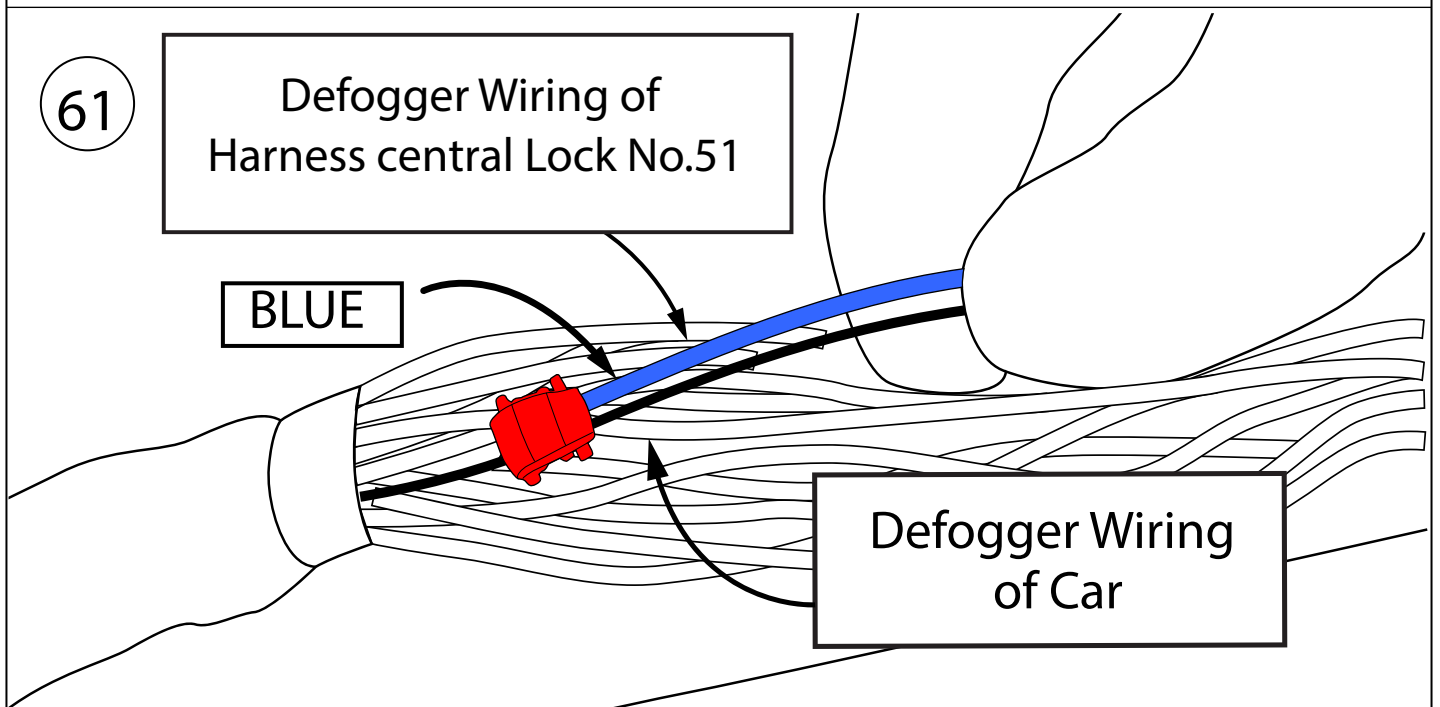
59



Push the Rear Defroster Switch

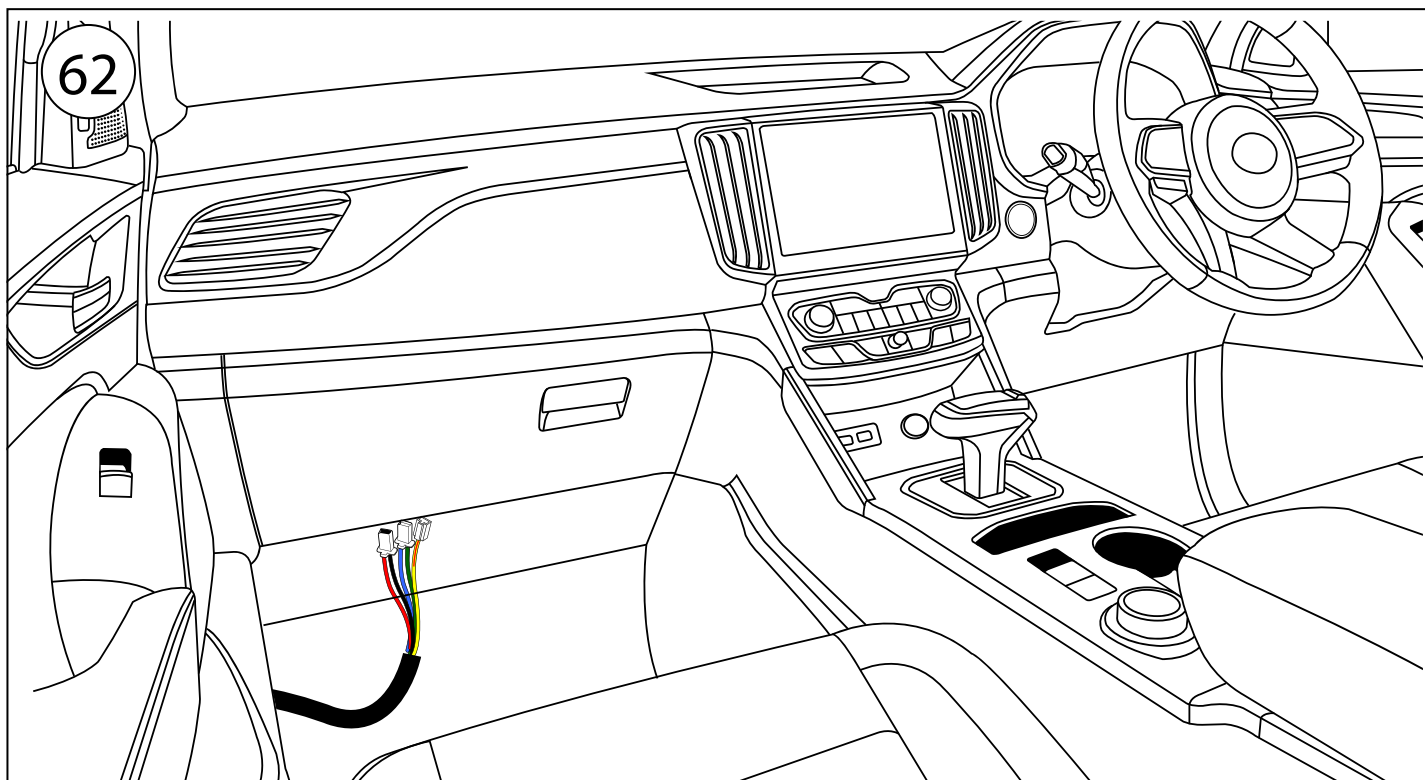


From item 29 : Turn ON and push the defogger button at the console pad, After that check the defogger wiring at passenger position by using the Test Lamp kit, Light On means working.

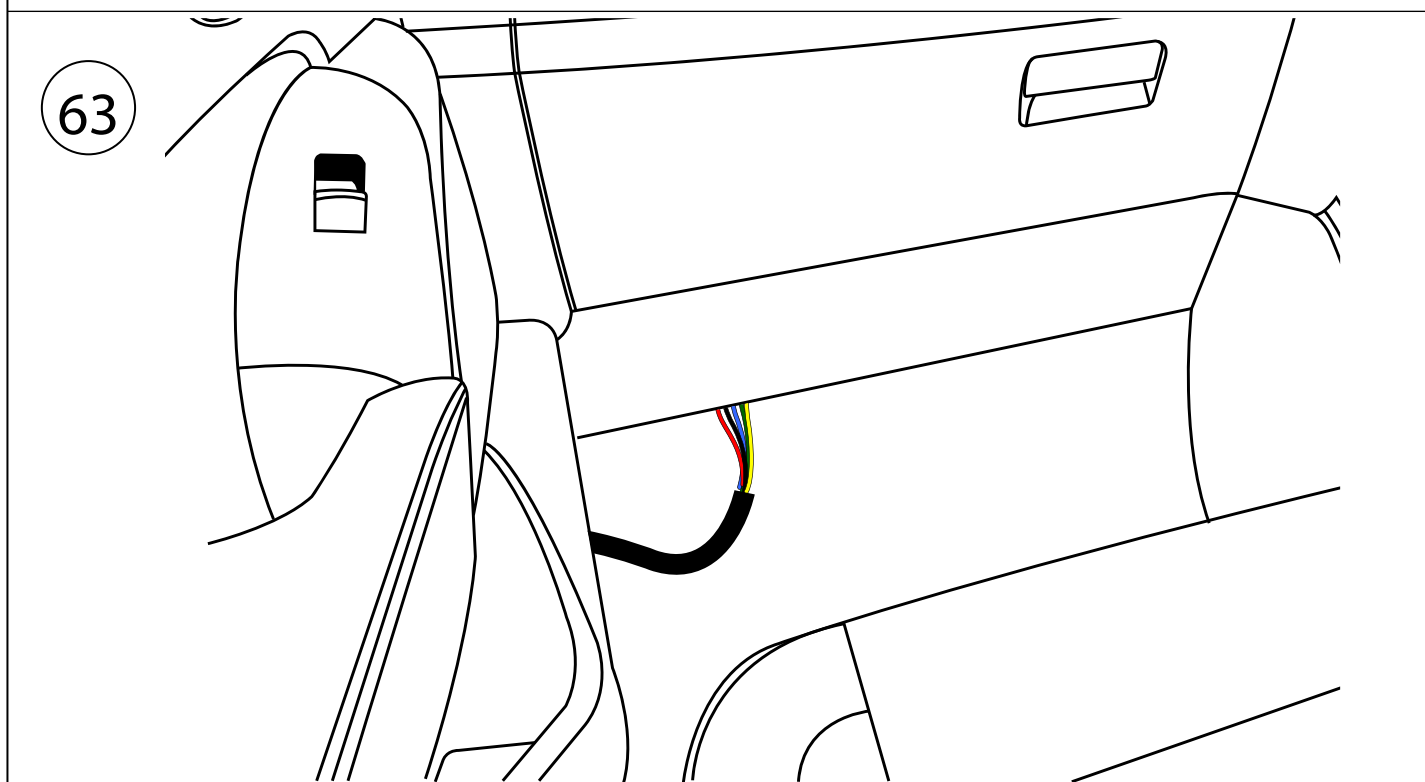


Connects the Blue Wiring (Defogger) of the Harness for Installation No.51 with the Black Wiring (Defogger) of the vehicle by using the Electro-tap.





Running the wiring from the driver side through the passenger side as shown in picture.



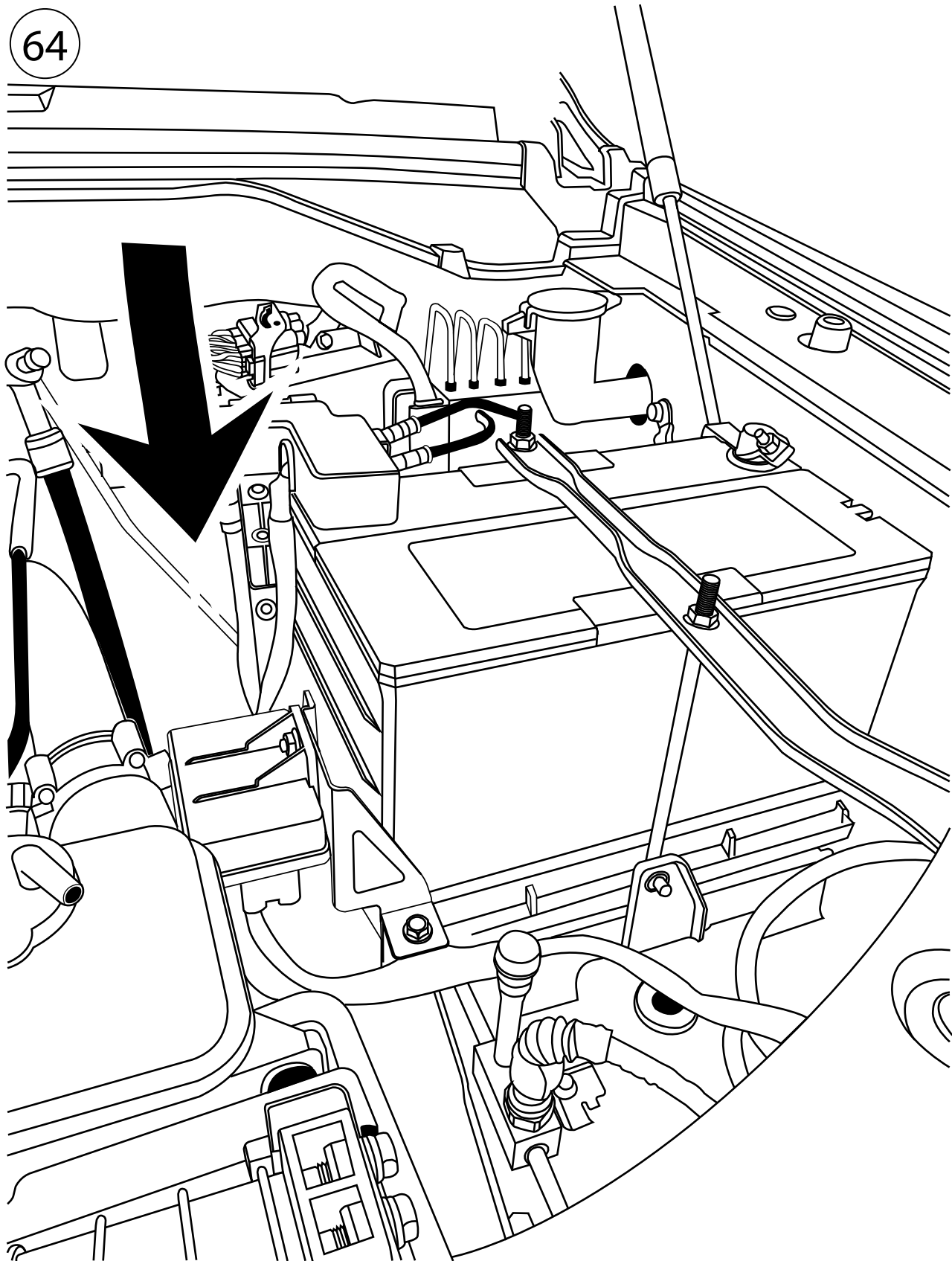
Run the Harness Central Lock No.51 wiring at passenger position



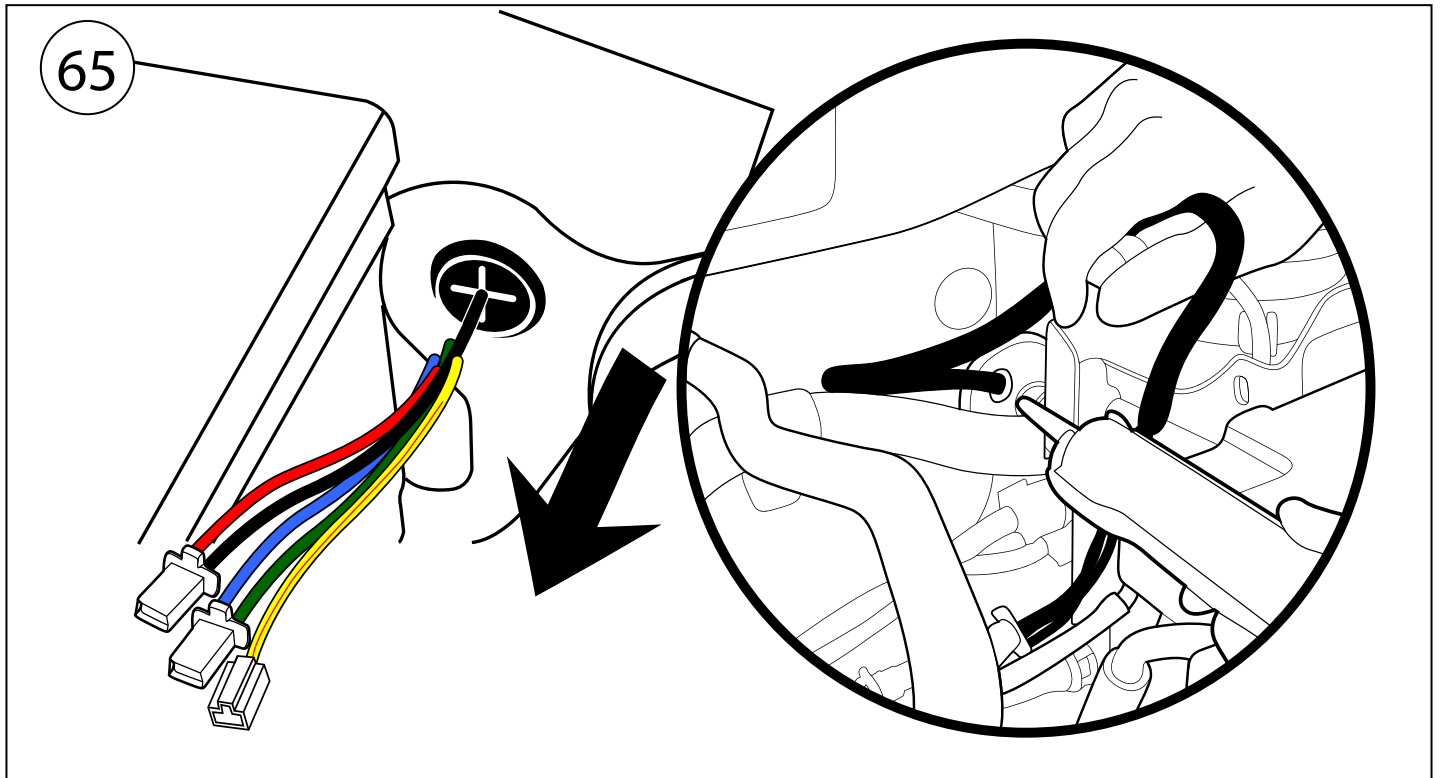


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The Step of Harness Central Lock No.51 wiring running  
picture for the 2022 Great Wall Cannon



Silicone seal the wiring hole process.

## 66 The Step of wiring running diagram

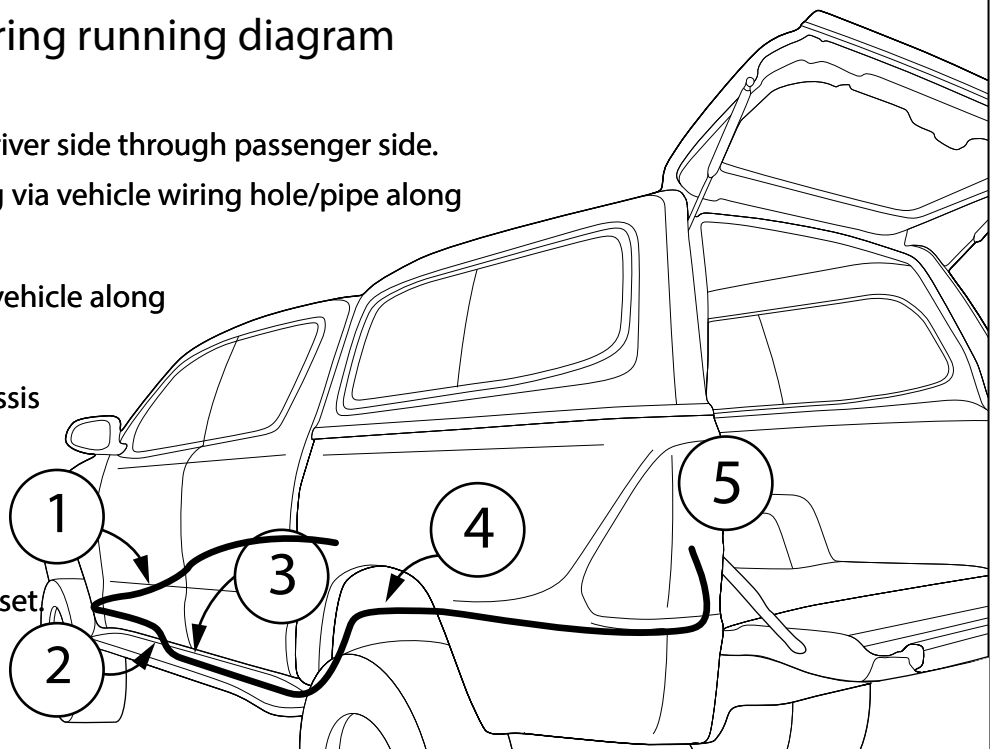
Point 1 Wiring running from driver side through passenger side.

Point 2 Running canopy wiring via vehicle wiring hole/pipe along under the chassis.

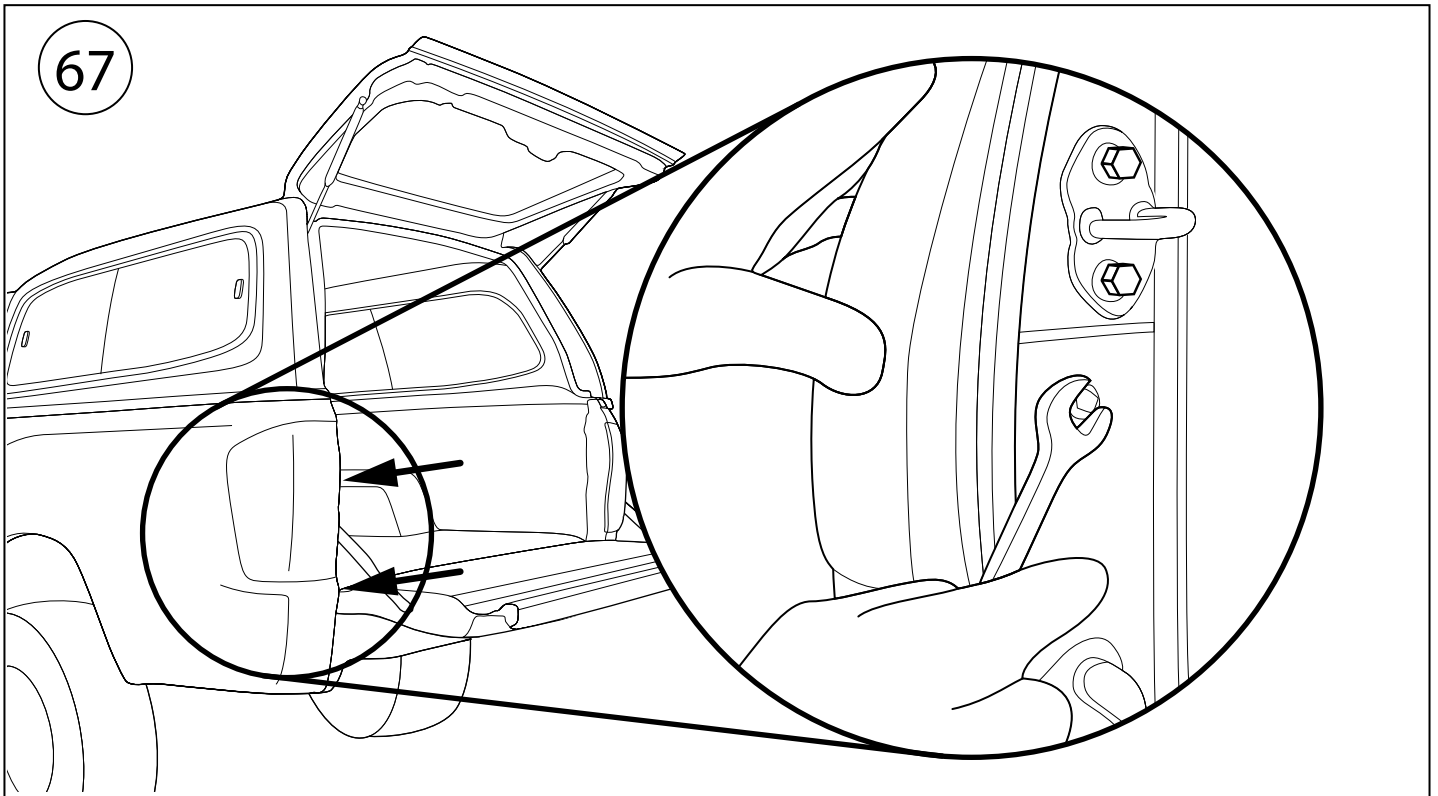
Point 3 Wiring that run under vehicle along the chassis.

Point 4 Wiring that run via chassis at the fender area.

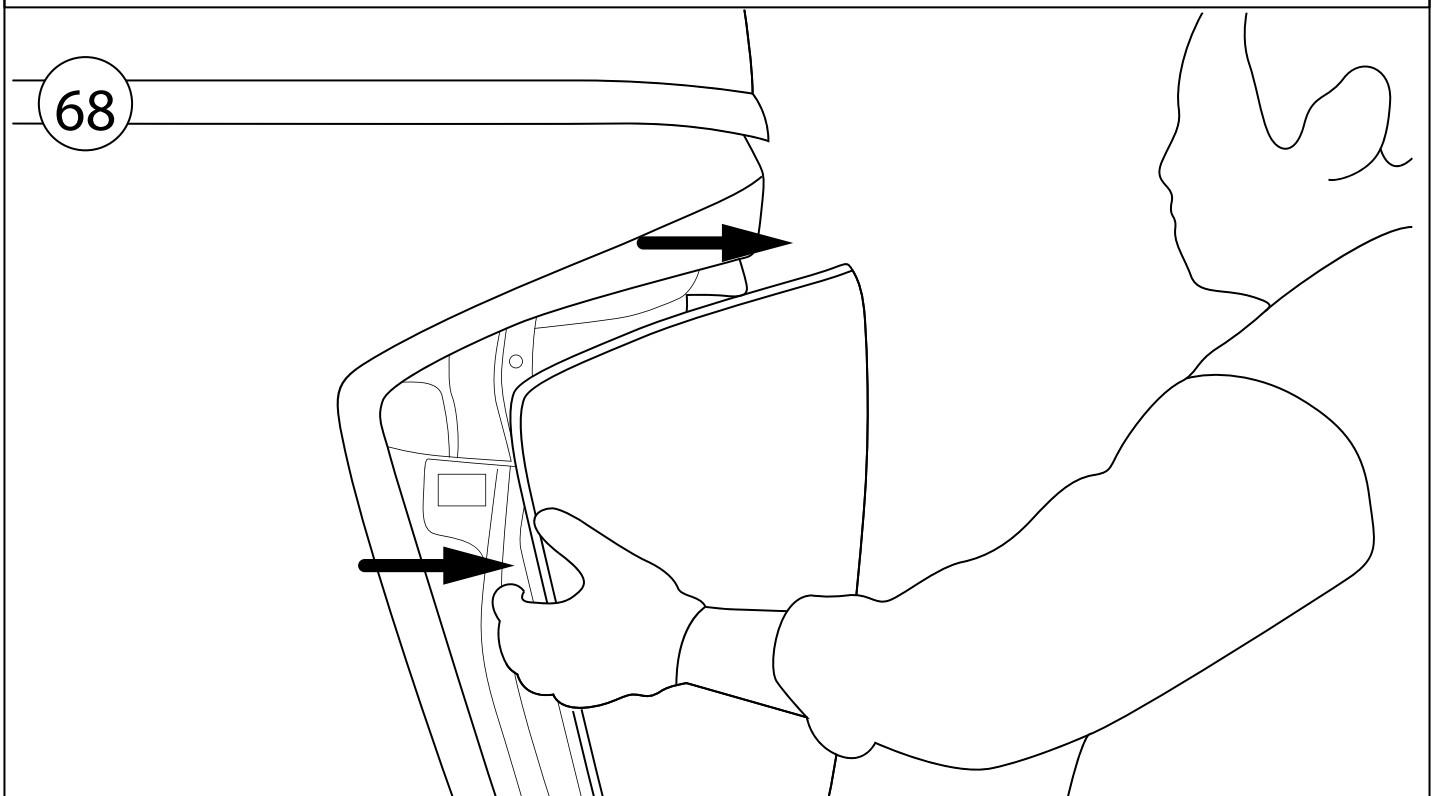
Point 5 Wiring that running up the rear light in order to connect with the other wiring set.



The Step of wiring running diagram for the Harness Central Lock No.38



Take off the Rear Light by using wrench No.10

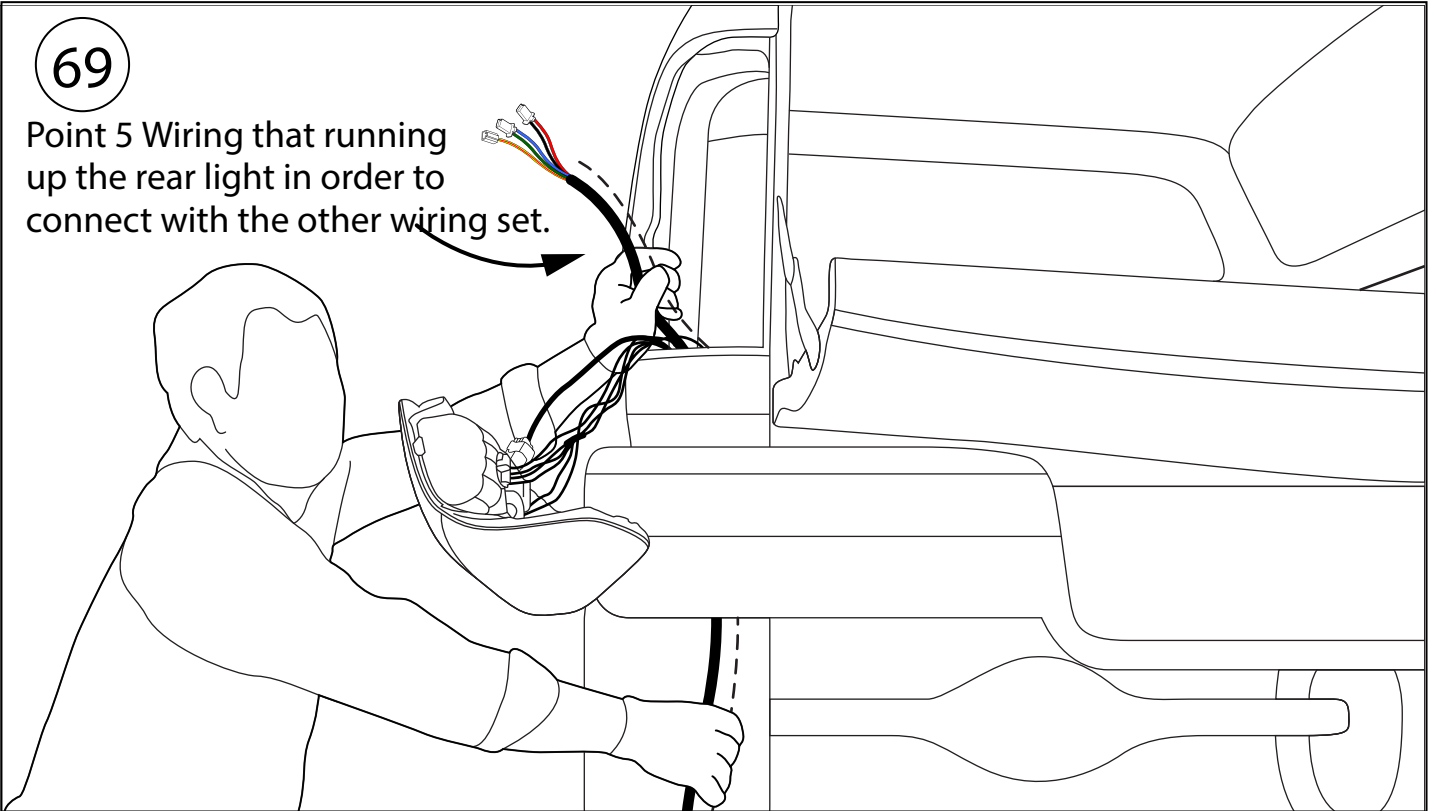


Take off the Rear Light vehicle.



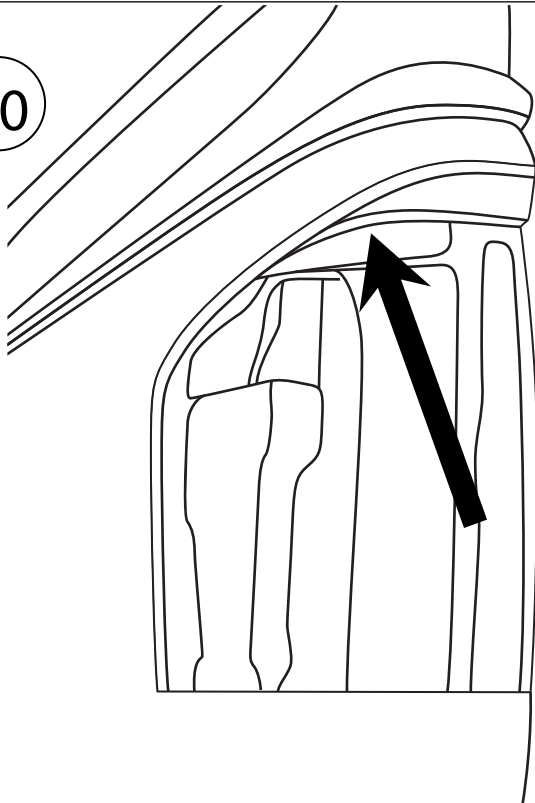
69

Point 5 Wiring that running up the rear light in order to connect with the other wiring set.

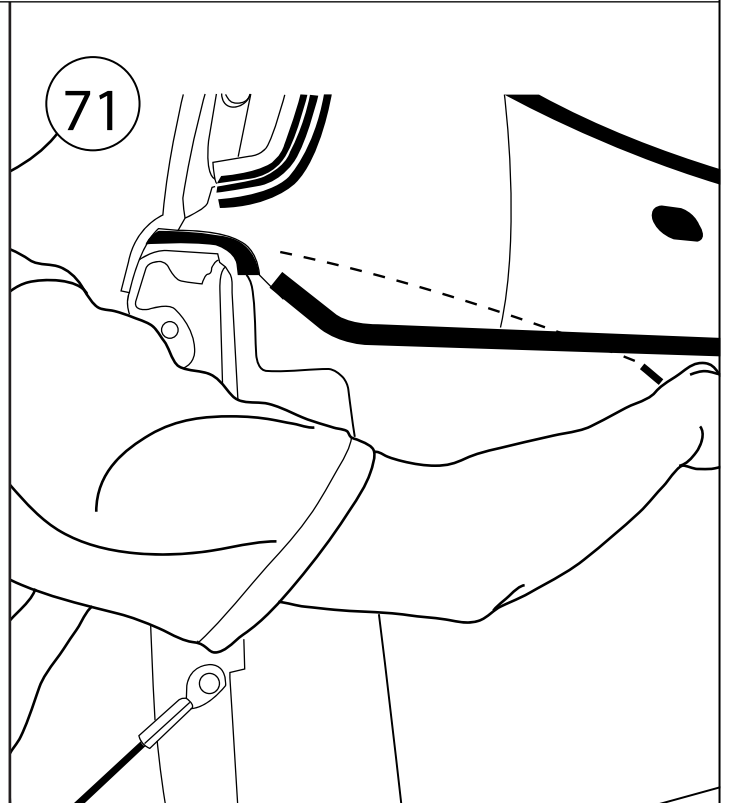


Running the Harness Central Lock No.51 up to the vehicle rear light in order to connects with the Harness Central Lock No.32.

70

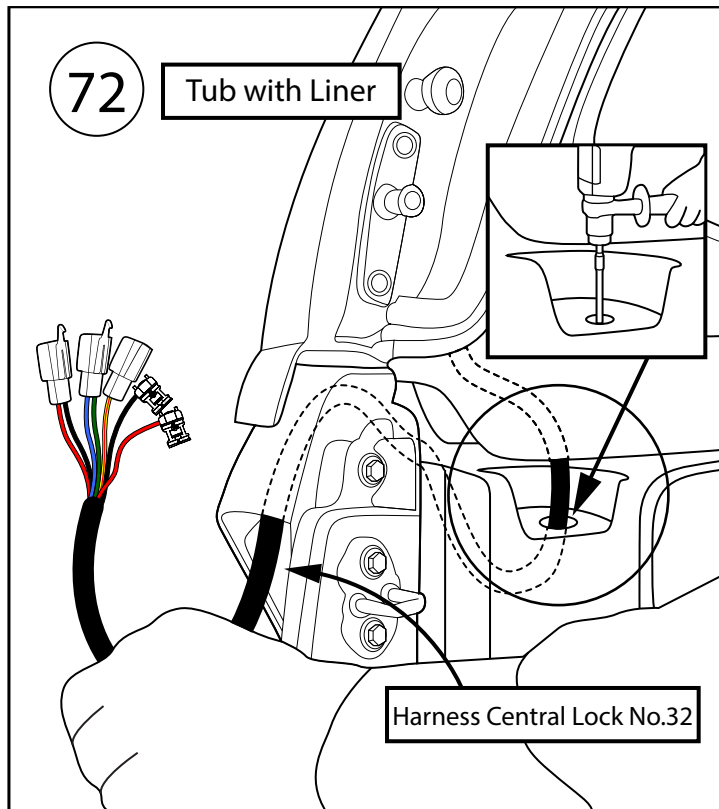
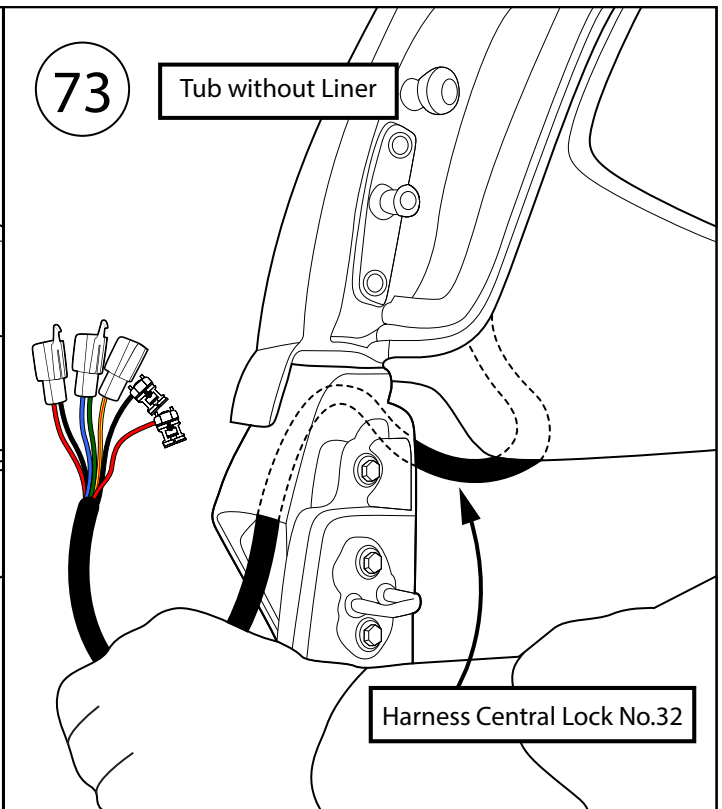
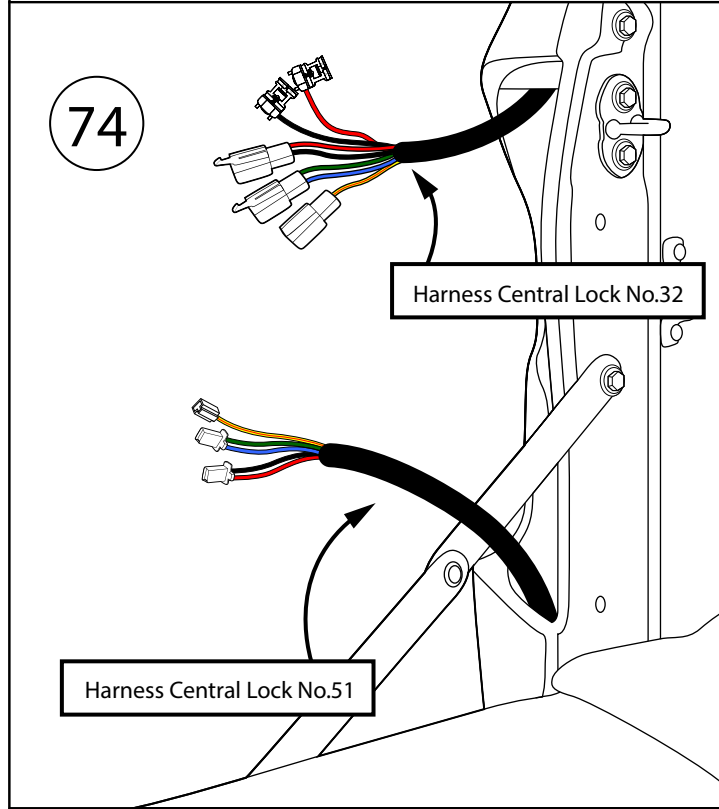
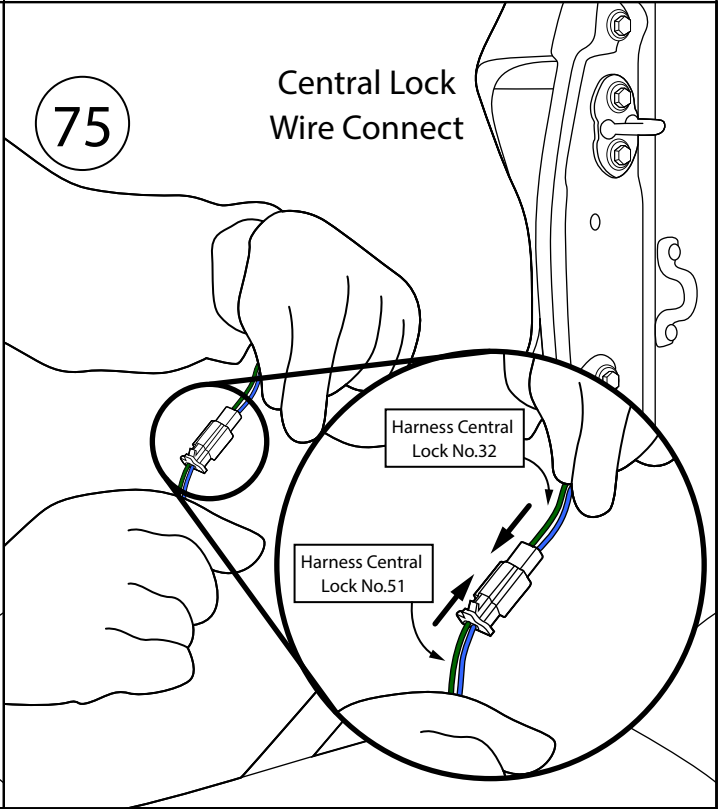


71



Run the rod along the vehicle edge till the Rear vehicle light.



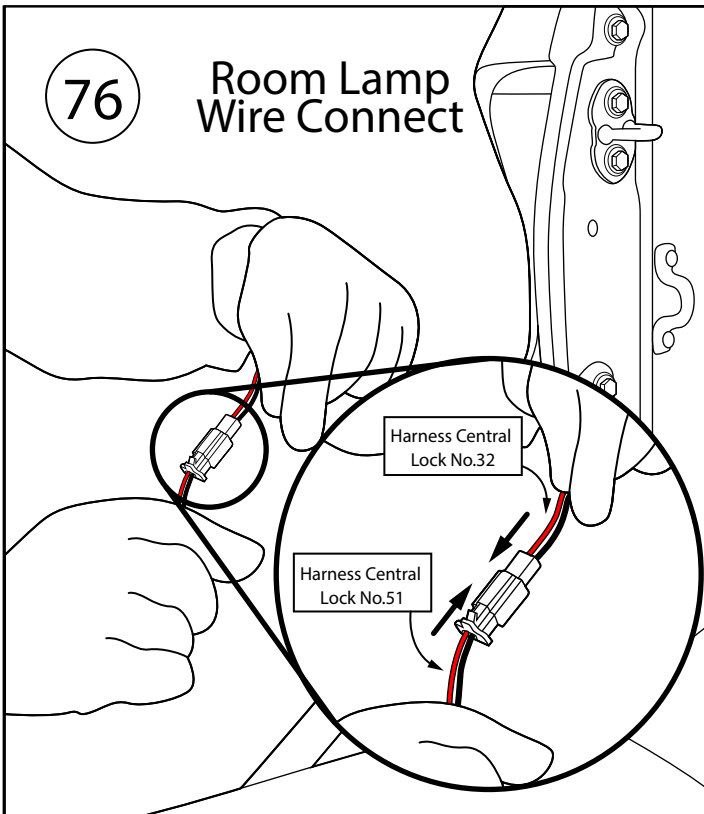
<p>72 Tub with Liner</p>  <p>Harness Central Lock No.32</p>	<p>73 Tub without Liner</p>  <p>Harness Central Lock No.32</p>
<p>Punch the hole at the liner around 16mm. in order to run the Harness Central Lock No.32 through the vehicle tub channel out of the Rear Light socket .</p>	<p>Run the Harness Central Lock No.32 along the vehicle tub channel out of the Rear Light Socket.</p>
<p>74</p>  <p>Harness Central Lock No.32</p> <p>Harness Central Lock No.51</p>	<p>75 Central Lock Wire Connect</p>  <p>Harness Central Lock No.32</p> <p>Harness Central Lock No.51</p>
<p>The Harness Central Lock No.32 wiring vehicle position and the Harness Central Lock No.3851 wiring set.</p>	<p>The process of connecting the Central Lock (BL,DG) wiring of the Harness Central Lock No.32 with the Central Lock (BL,DG) wiring of the Harness Central Lock No.51.</p>





76

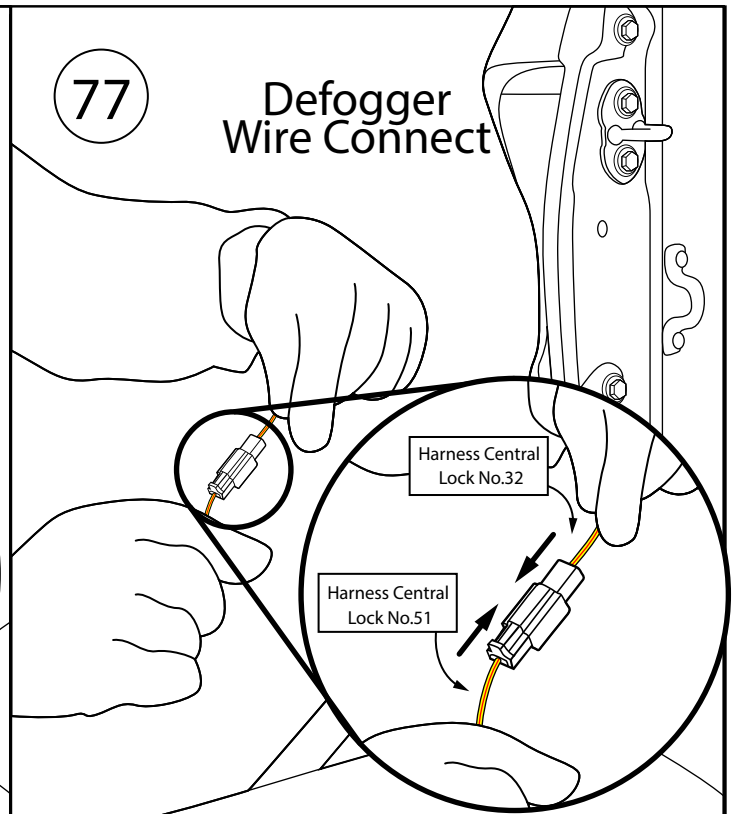
## Room Lamp Wire Connect



The process of connecting the Room Lamp (RD,BK) wiring of the Harness Central Lock No.32 with the Room Lamp (RD,BK) wiring of the Harness Central Lock No.51.

77

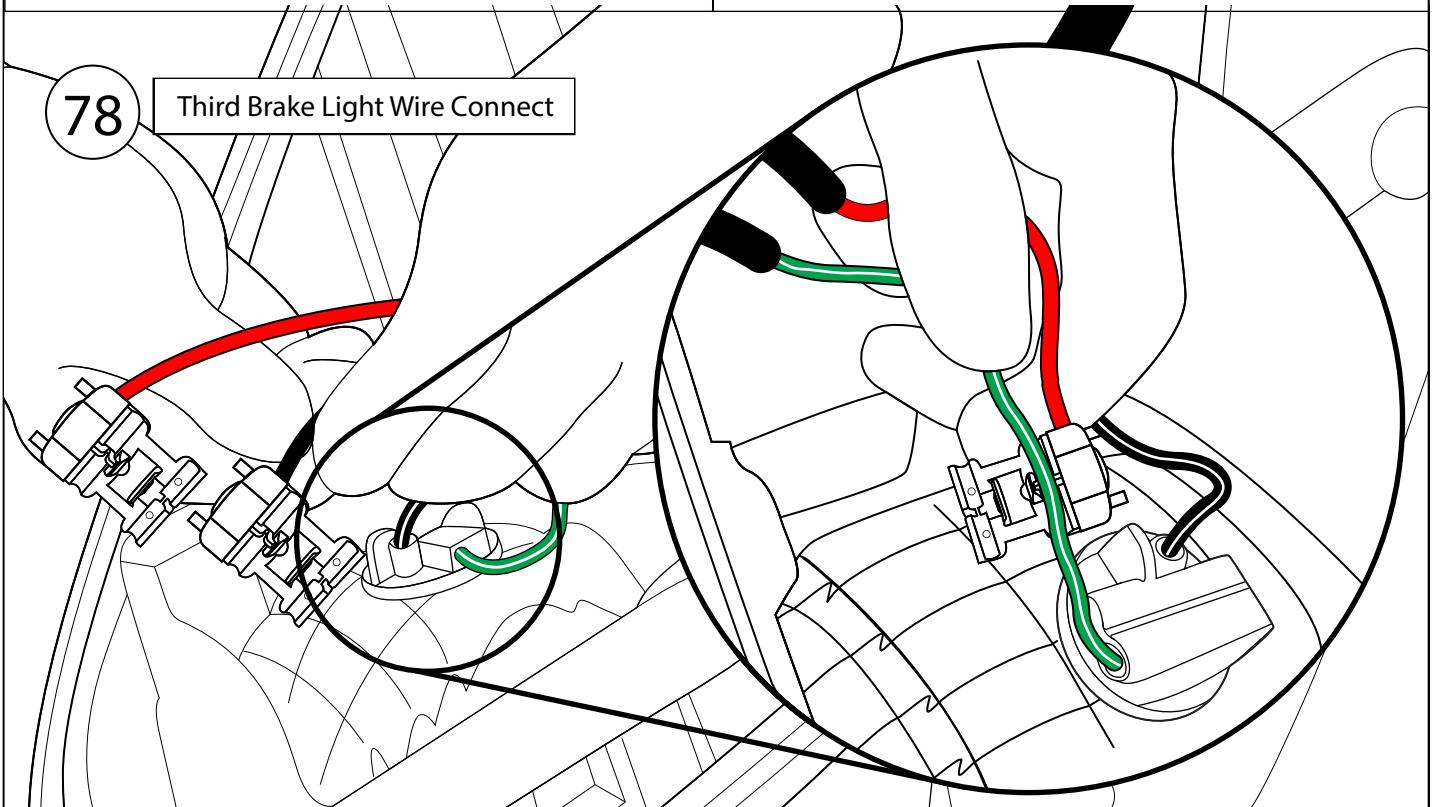
## Defogger Wire Connect



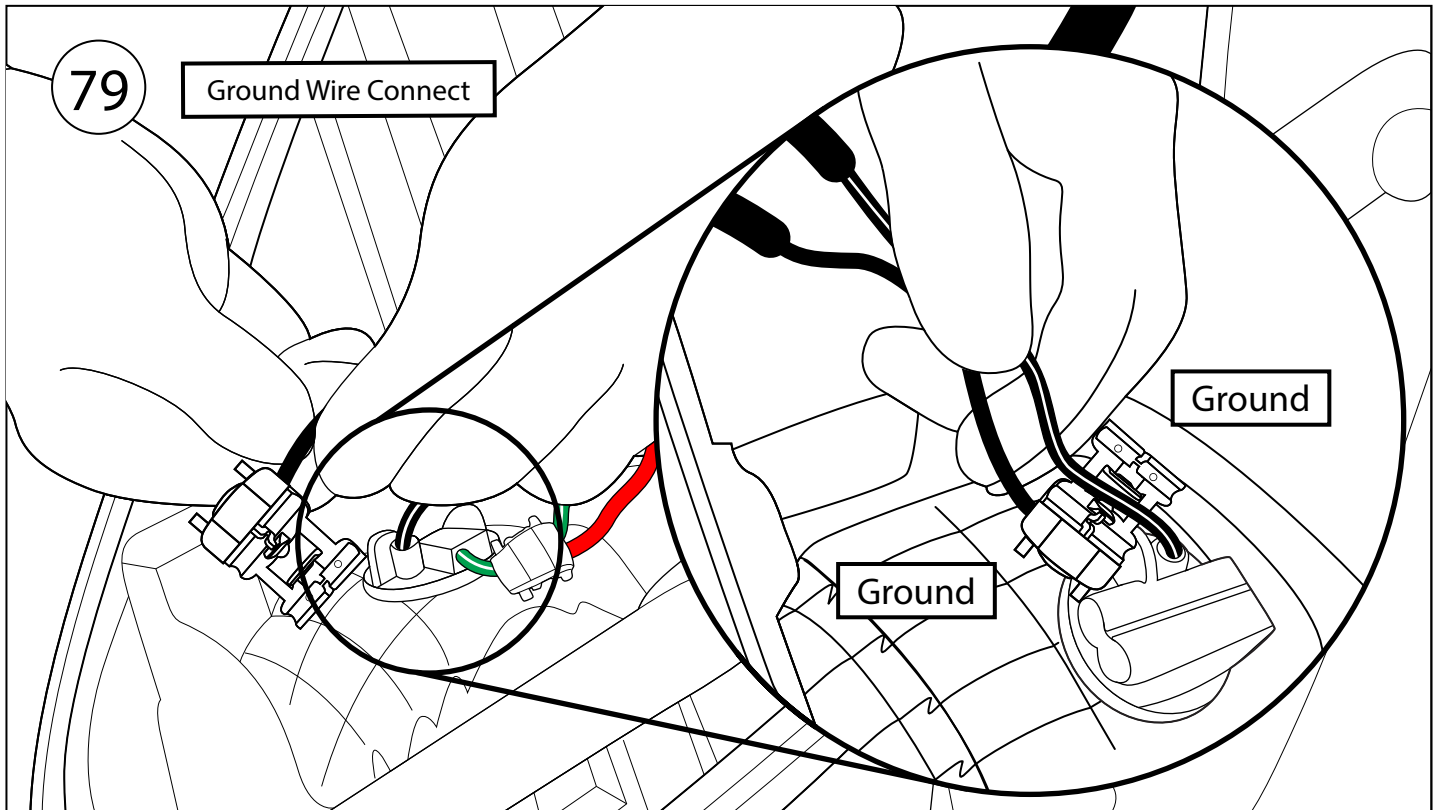
The step of connecting the Defogger (YL/RD) wiring of the Harness Central Lock No.32 with the Defogger (YL/RD) wiring of the Harness Central Lock No.51.

78

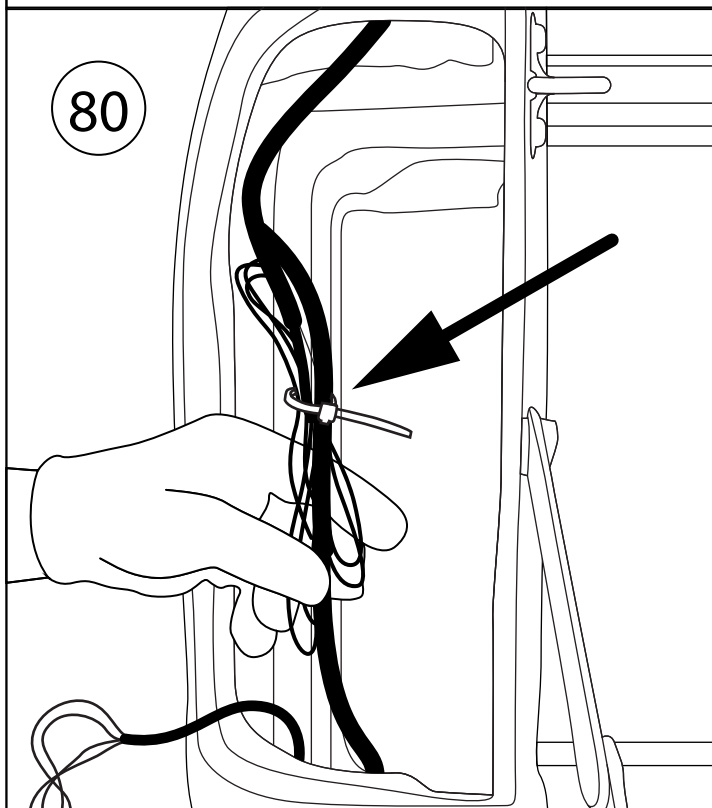
## Third Brake Light Wire Connect



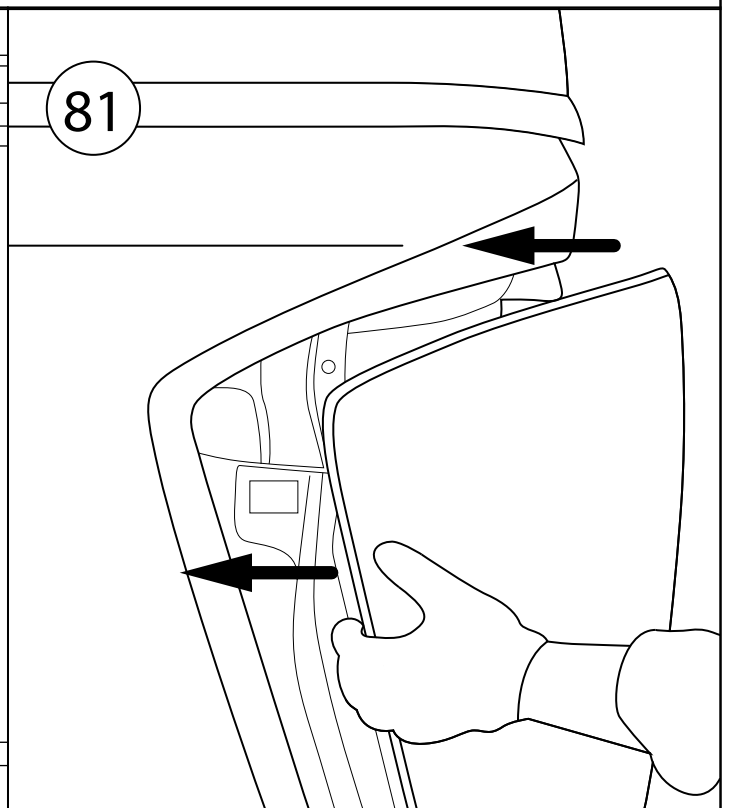
Bring the Red Wiring, Third Brake Light (RD) of the Harness Central Lock No.32 connecting with Green/White (LG/WH) Brake wiring of the vehicle rear light.



Bring the Black Wiring, GROUND (BK) of the Harness Central Lock No.32 connecting with the Black/White (BK/WH) Ground wiring of the vehicle rear light.



Tight up all the wiring by using the Cable Tie



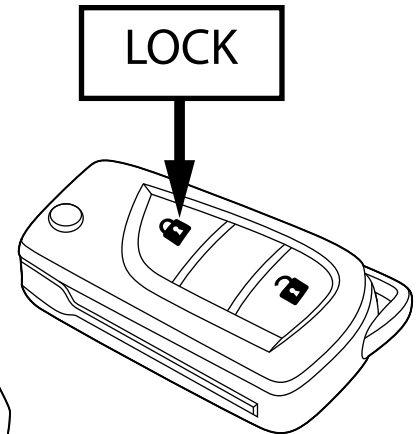
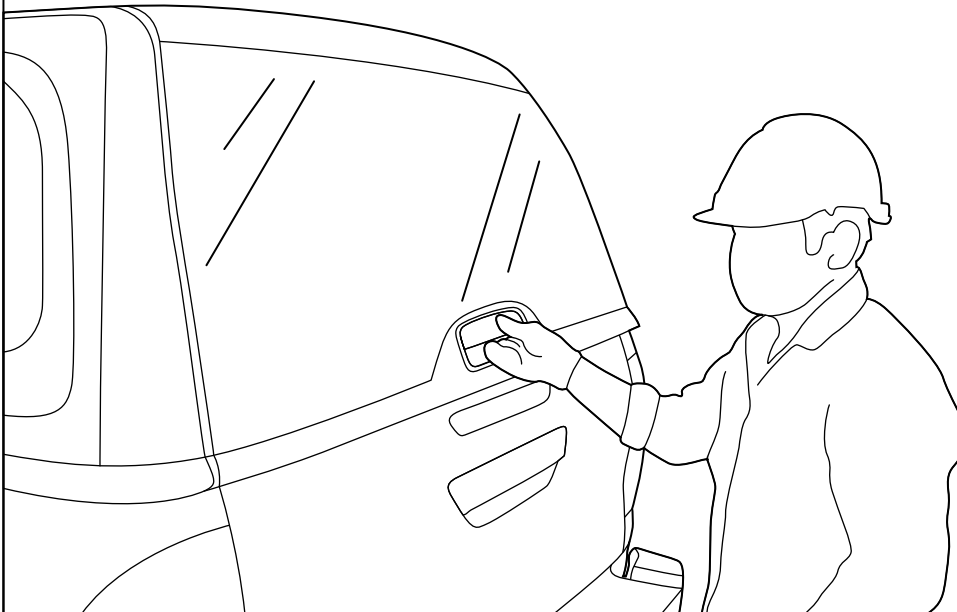
Reassemble the vehicle rear light.





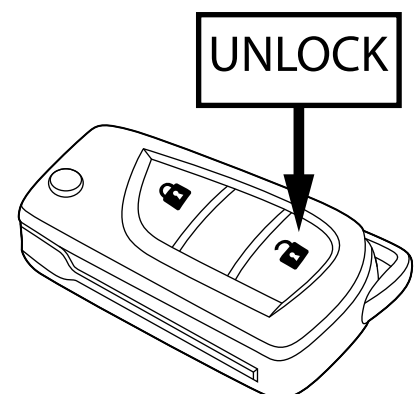
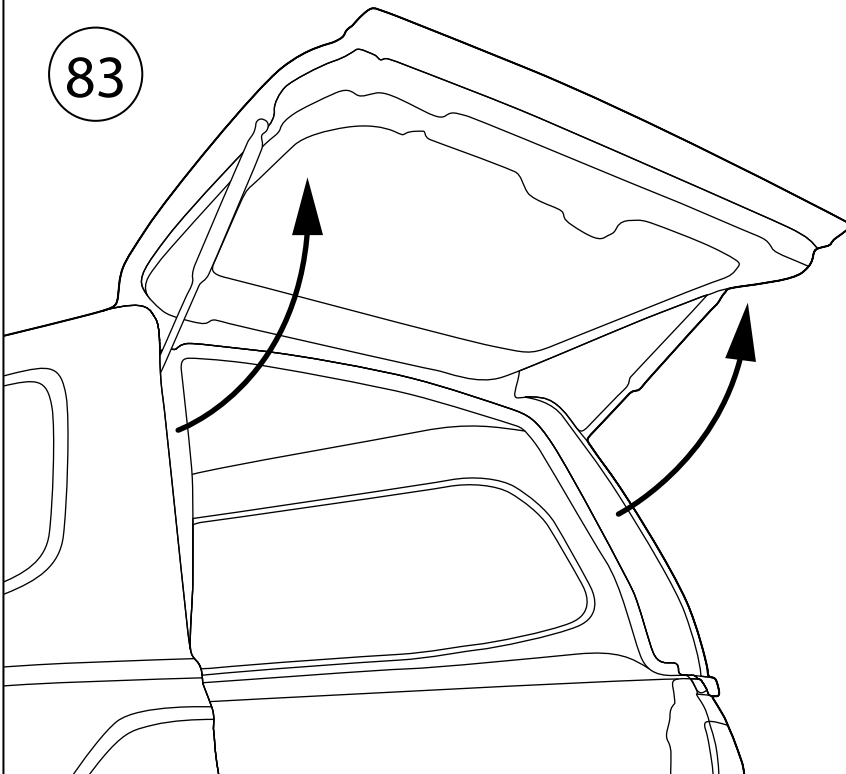
82

Check the Central Lock / Room Lamp working.



Central Lock checking by pressing the vehicle remote key at the Lock position, Canopy will be lock and cannot open.

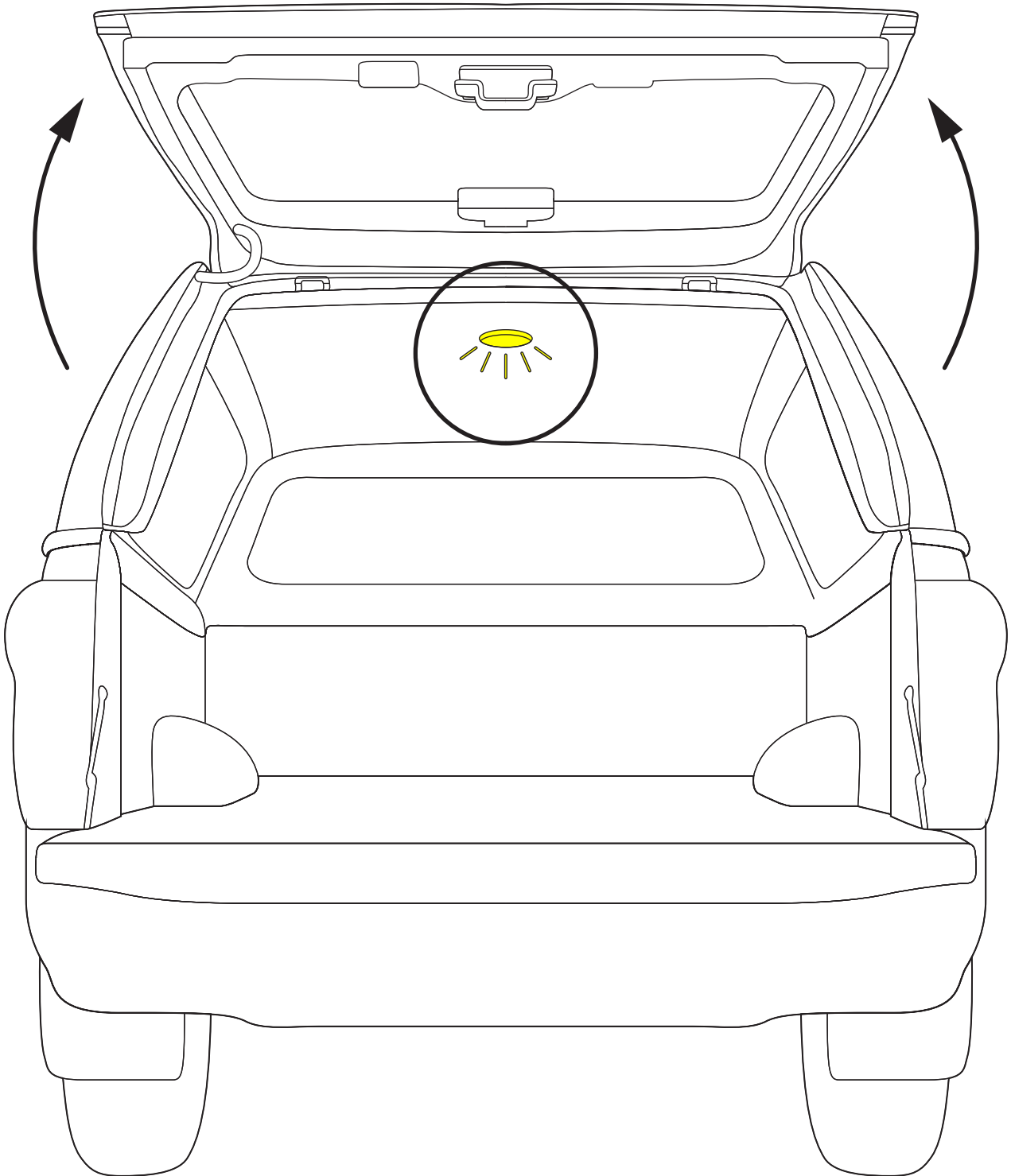
83



Central Lock checking by pressing the vehicle remote key at the Unlock position, Canopy will be open.



84



Room Lamp checking by opening the rear door then the Room Lamp will be on.



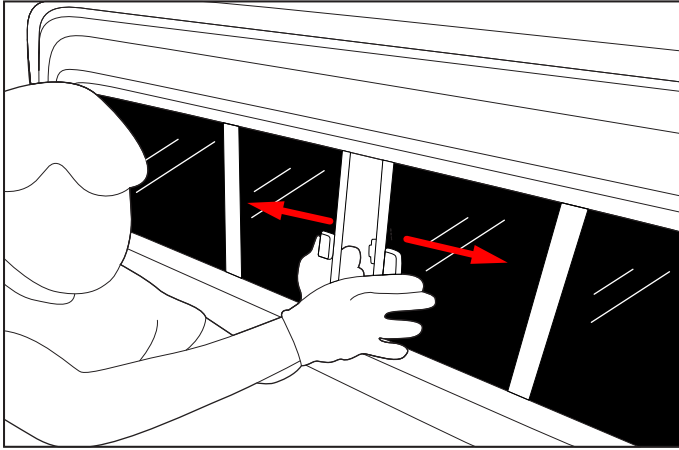
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# Opening Function of all canopy model



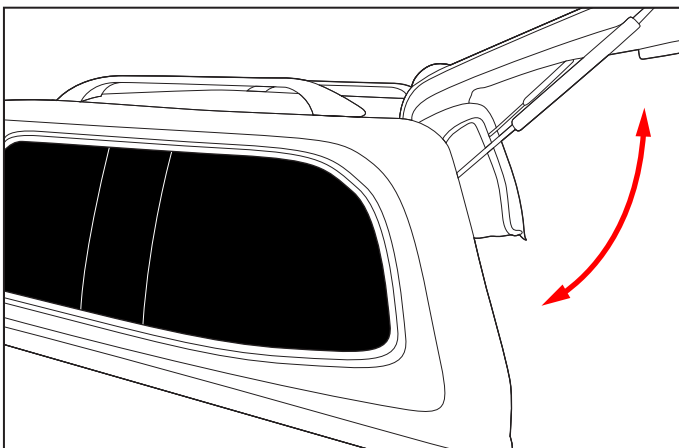
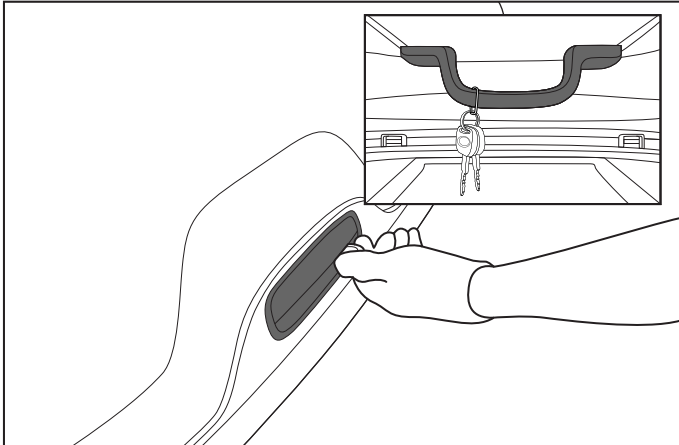
# SAMMITR

Front Window function usages will be the same for all model, V2, V4 and TL1.

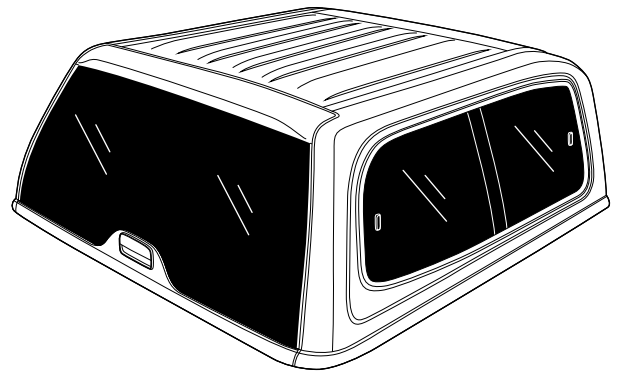


Use the key is unlock function will be the same for all model, V2, V4 and TL1.

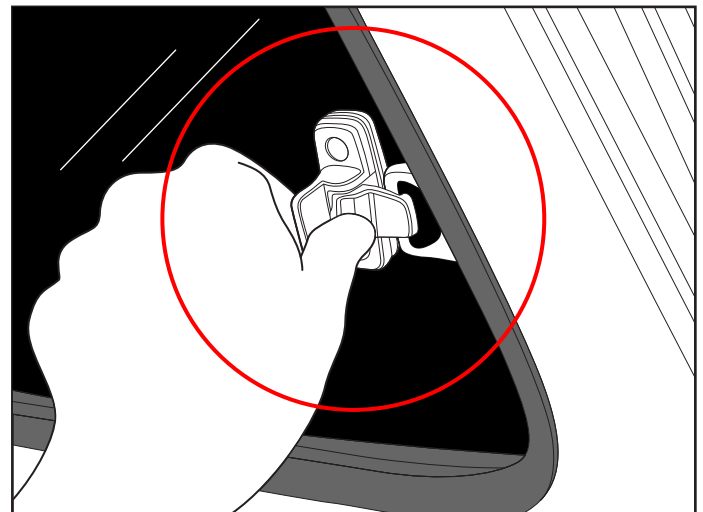
Open the backdoor function are different.



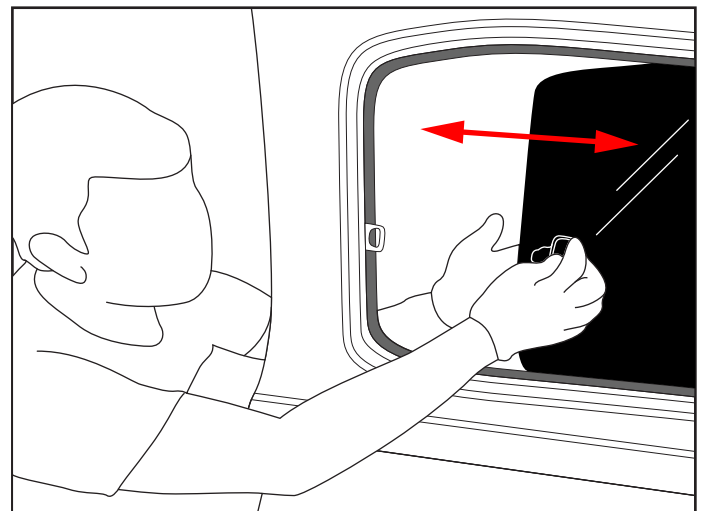
## User manual



### Slide Window (Left-Right)



Squeeze the lock side to open.

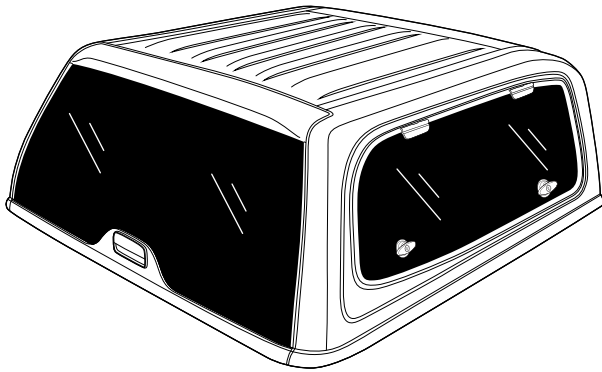


The Picture shows how to open the side window.

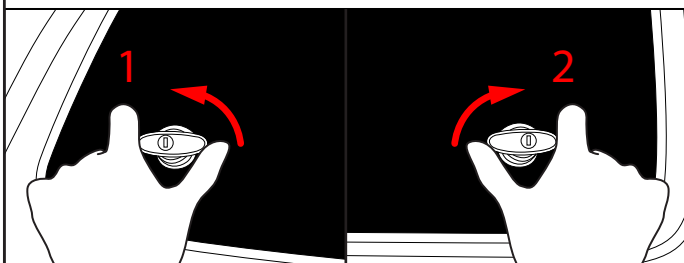
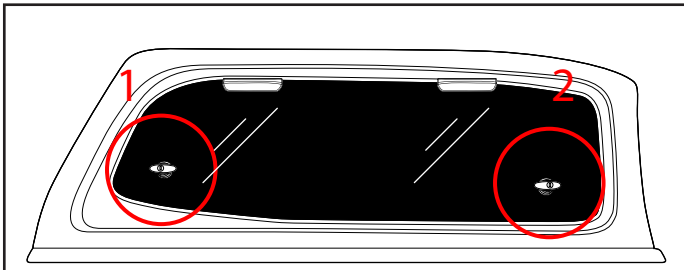


**SAMMITR**

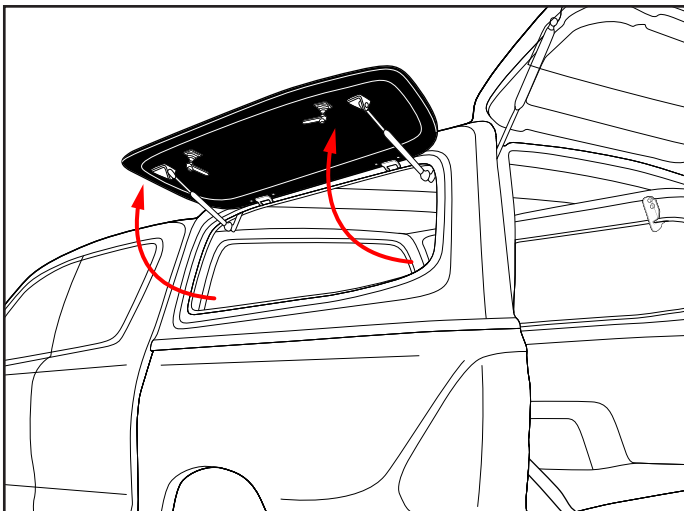
## User manual



### Glass Birdwing Window Left-Right (Handle Lock)

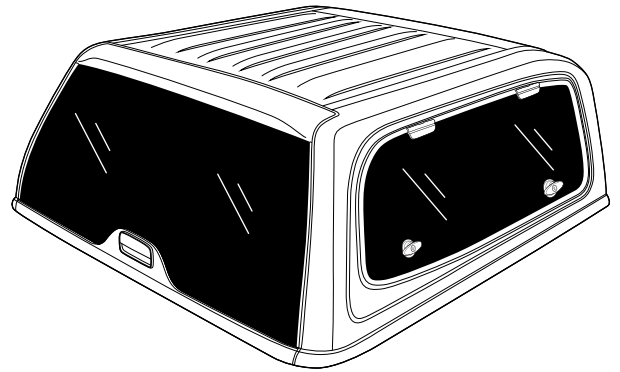


Turn around the canopy lock as shown in picture to open the side window.

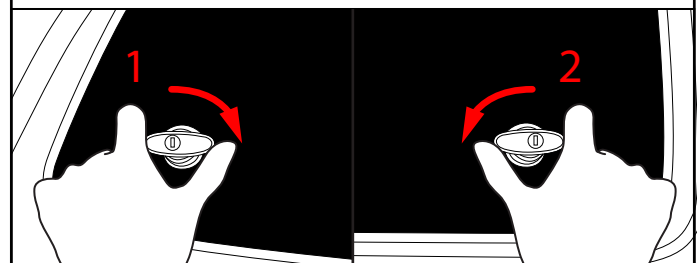
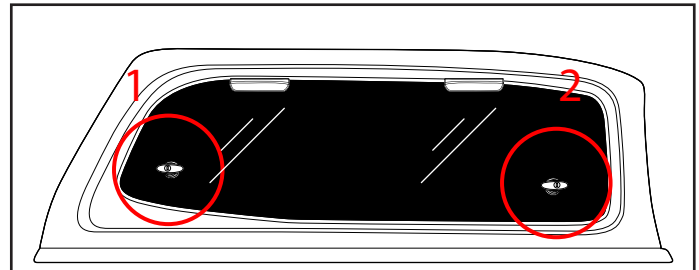


Picture shows how to open the side window.

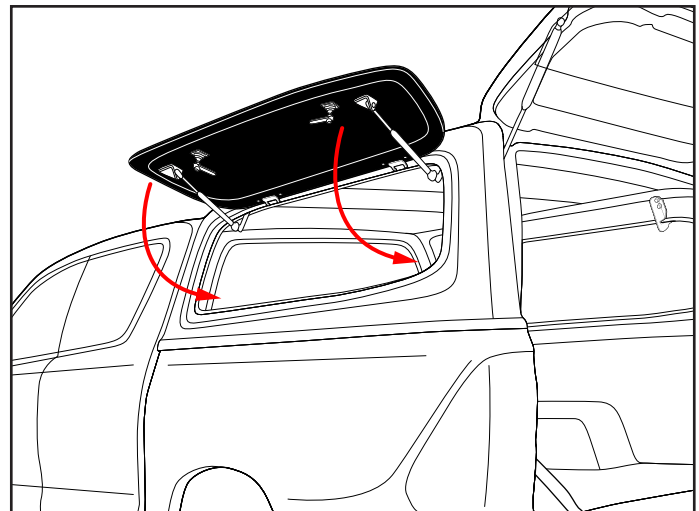
## User manual



### Glass Birdwing Window Left-Right (Handle Lock)



Turn around the canopy lock as shown in picture to close the side window.

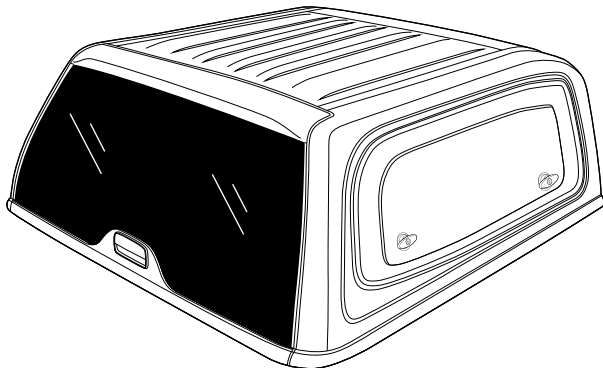


Picture shows how to close the side window.

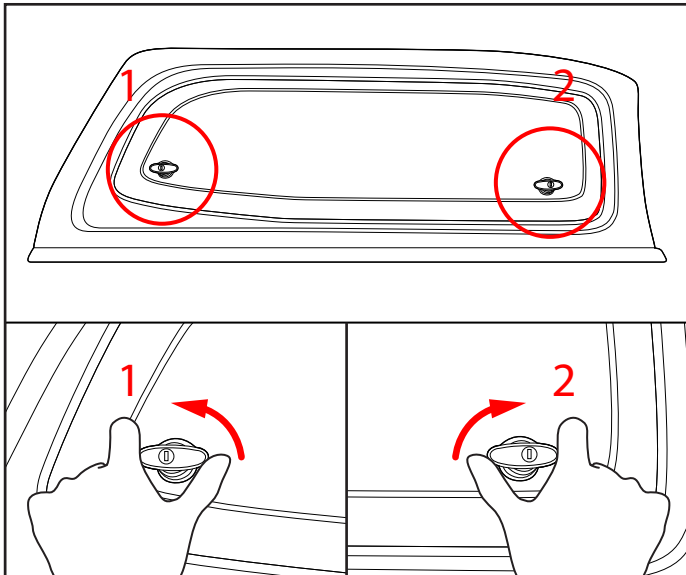


**SAMMITR**

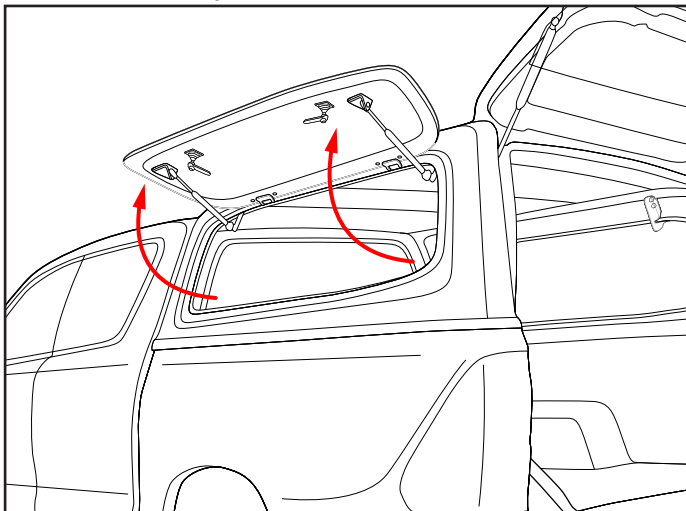
## User manual



Solid Birdwing Window Left-Right  
(Handle Lock)

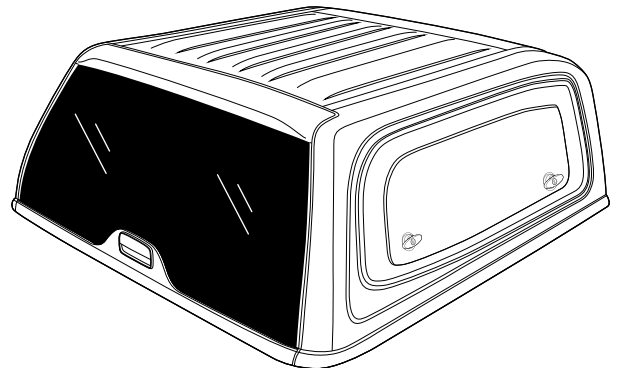


Turn around the canopy lock as shown in picture to open the side window.

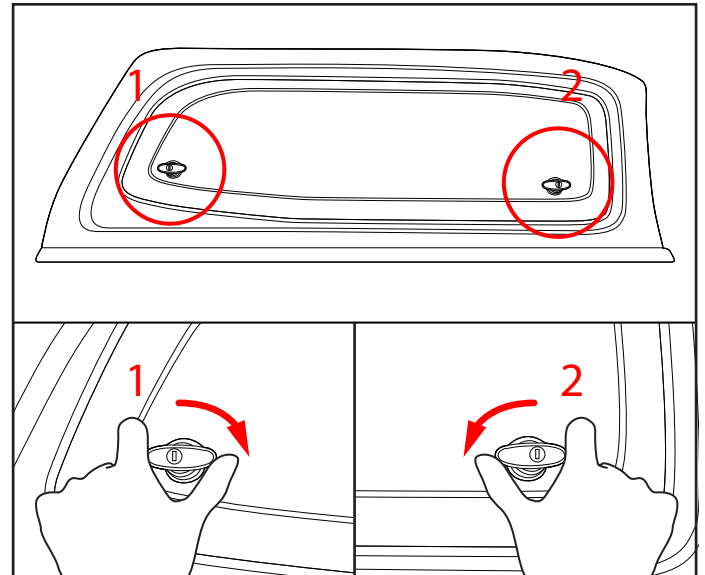


Picture shows how to open the side window.

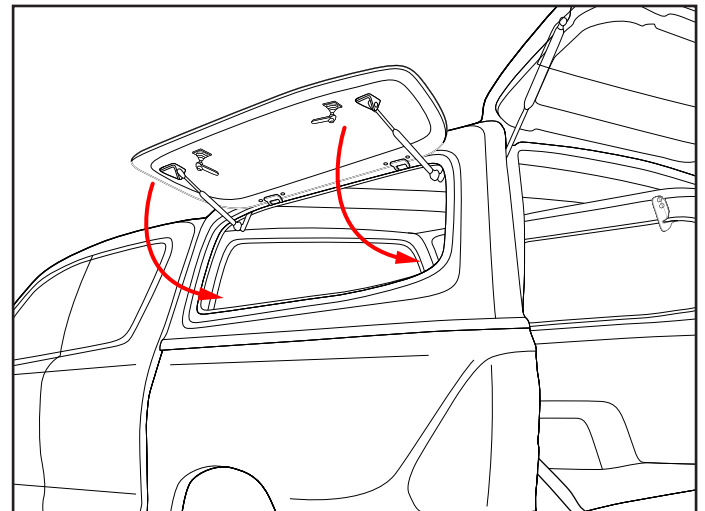
## User manual



Solid Birdwing Window Left-Right  
(Handle Lock)



Turn around the canopy lock as shown in picture to close the side window.

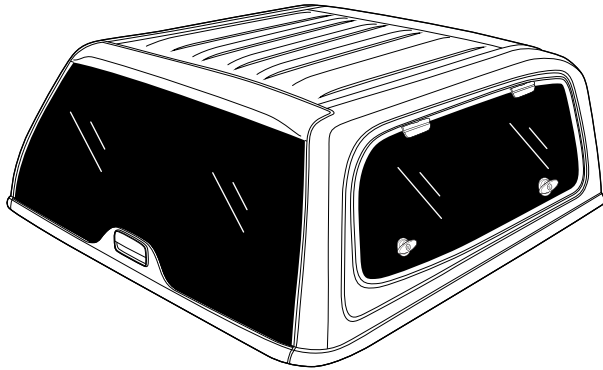


Picture shows how to close the side window.



# SAMMITR

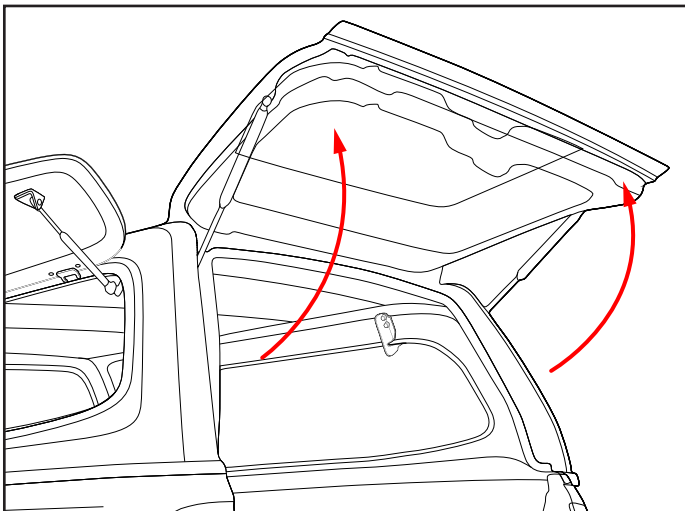
## User manual



Backdoor

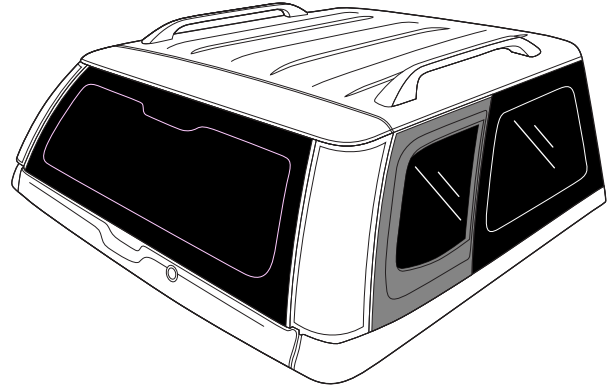


Use the handle as shown in picture to open the backdoor.

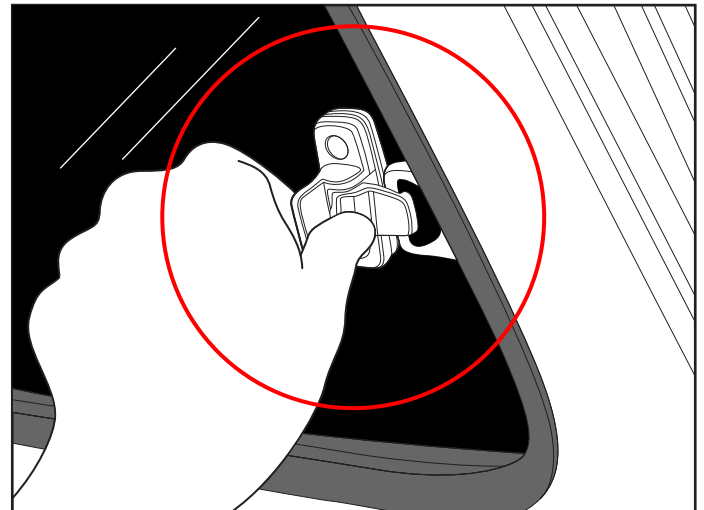


The Picture shows how to open the backdoor.

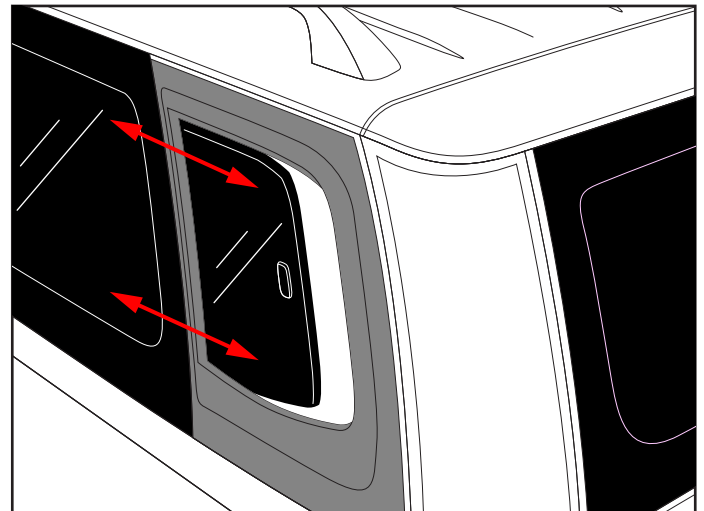
## User manual



Slide Window (Left-Right)



Squeeze the lock side to open.



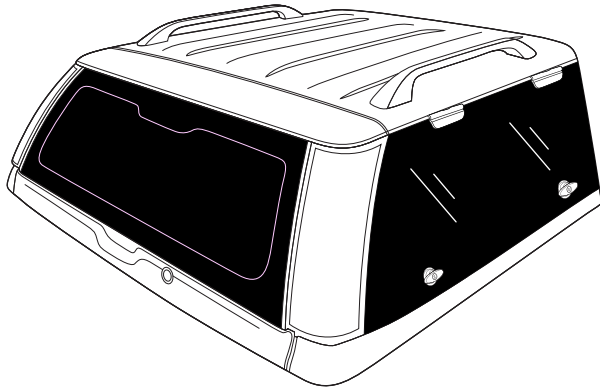
The Picture shows how to open the side window.



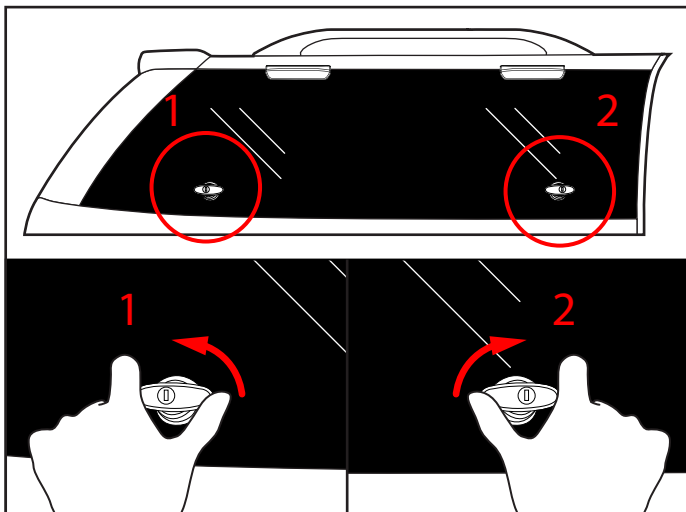


**SAMMITR**

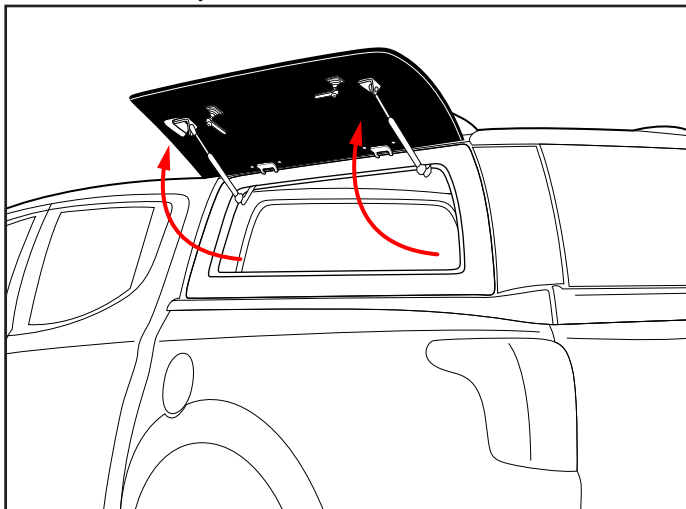
## User manual



Glass Birdwing Window Left-Right  
(Handle Lock)

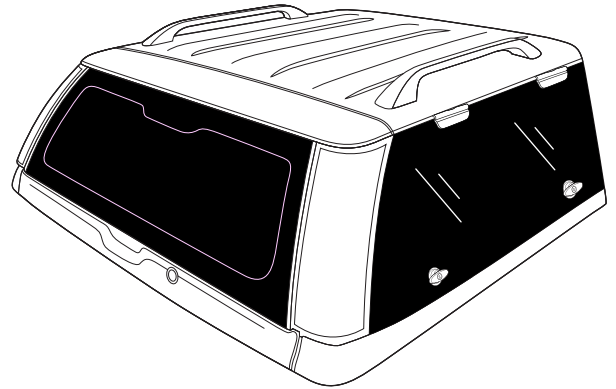


Turn around the canopy lock as shown in picture to open the side window.

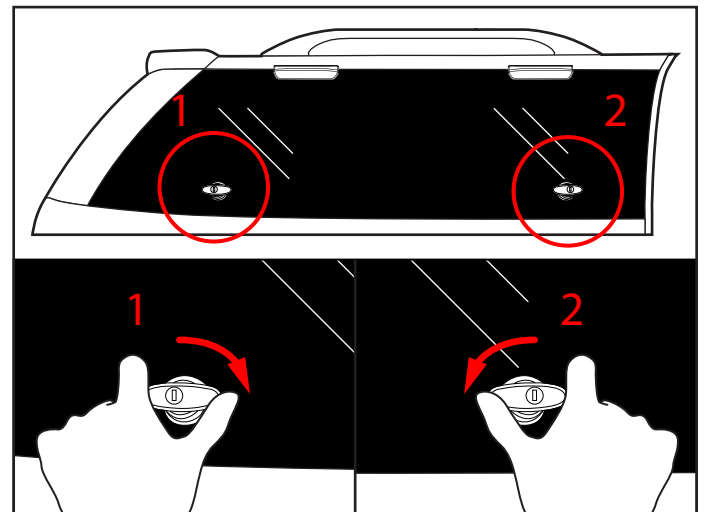


Picture shows how to open the side window.

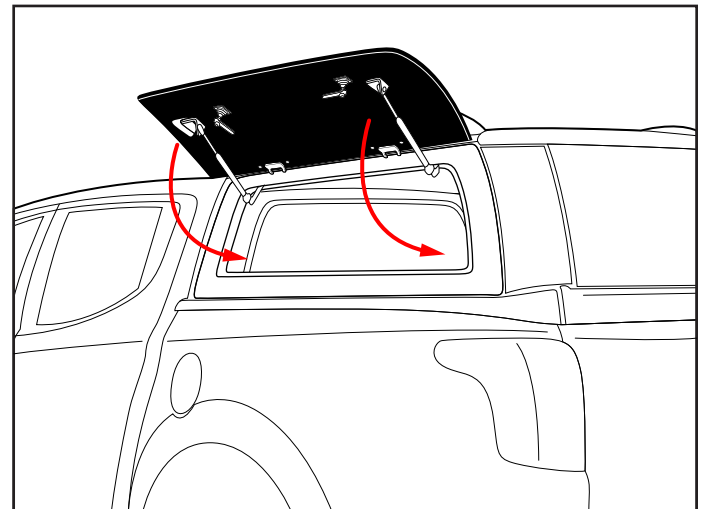
## User manual



Glass Birdwing Window Left-Right  
(Handle Lock)



Turn around the canopy lock as shown in picture to close the side window.

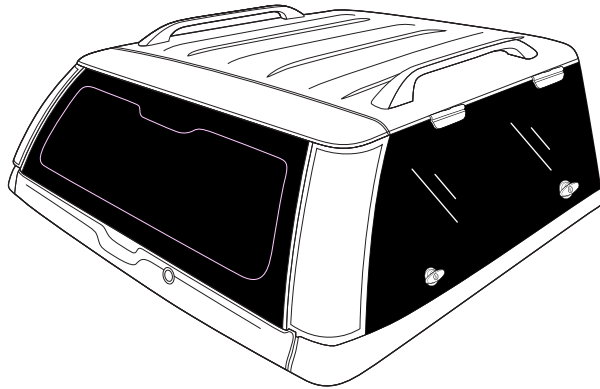


Picture shows how to close the side window.

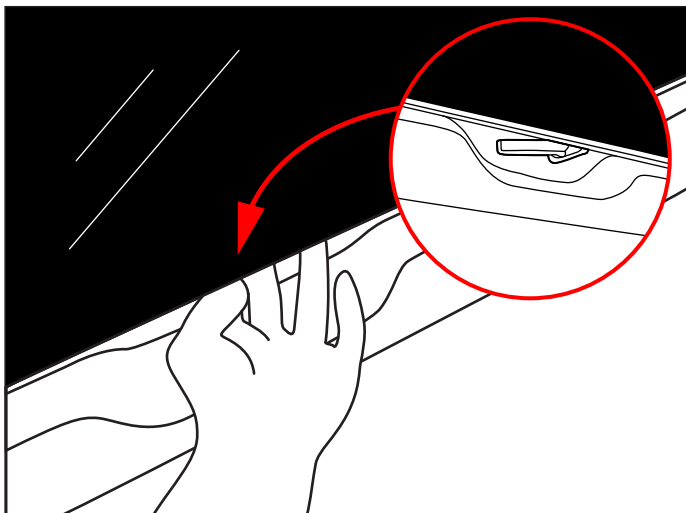


**SAMMITR**

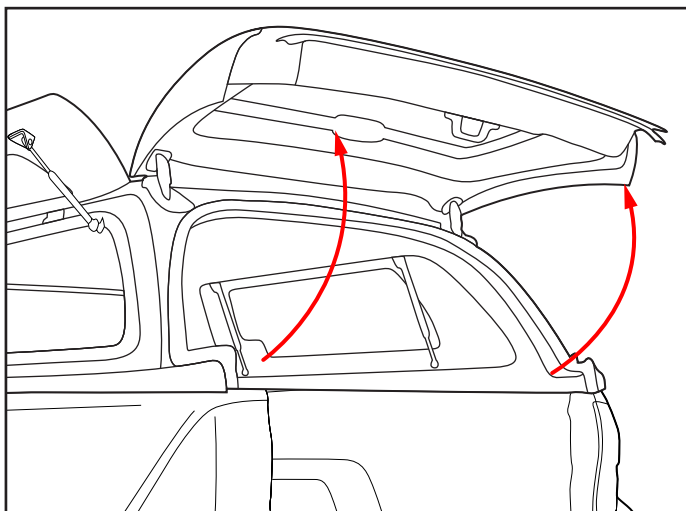
## User manual



Backdoor

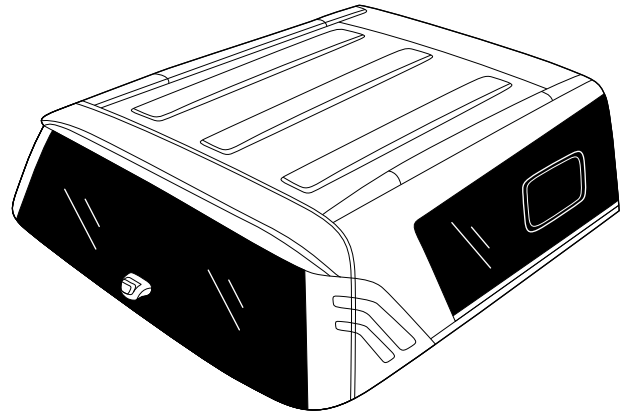


Pull the stick of handle to open the back door.

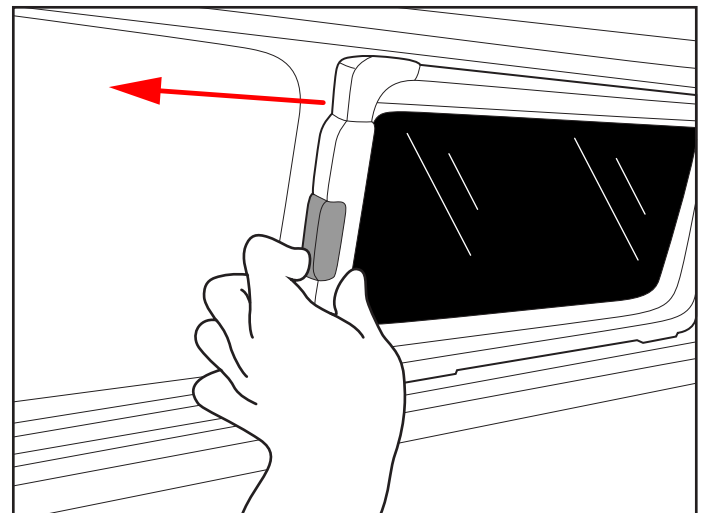


The Picture shows how to open the backdoor.

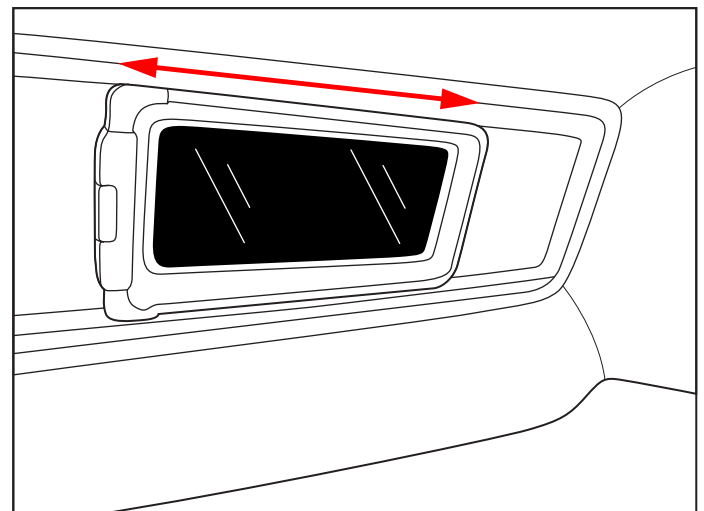
## User manual



Slide Window (Left-Right)



Push the button in side canopy and slide back to open.

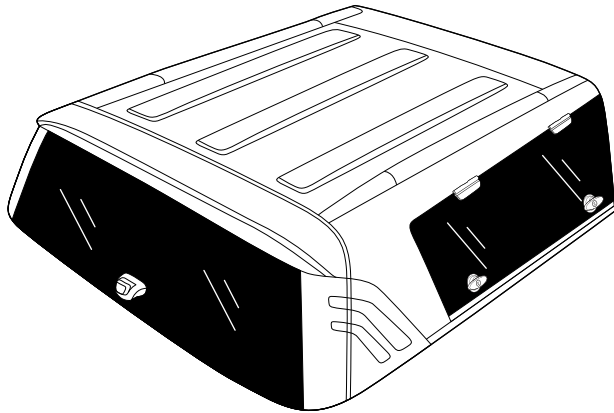


Picture shows how to open the side window from inside.

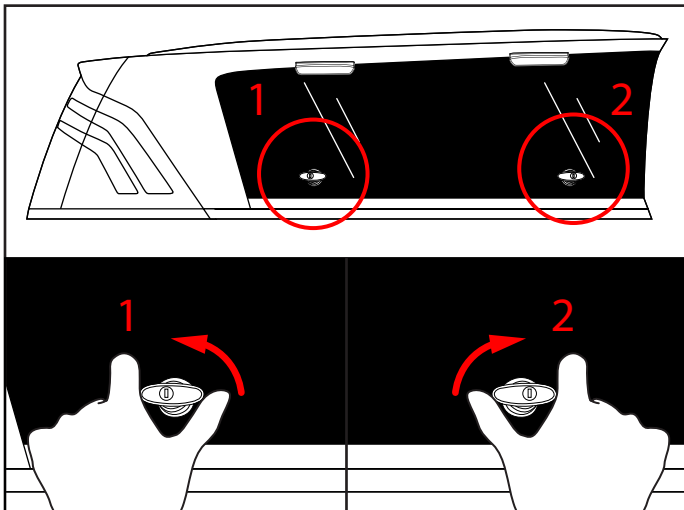


**SAMMITR**

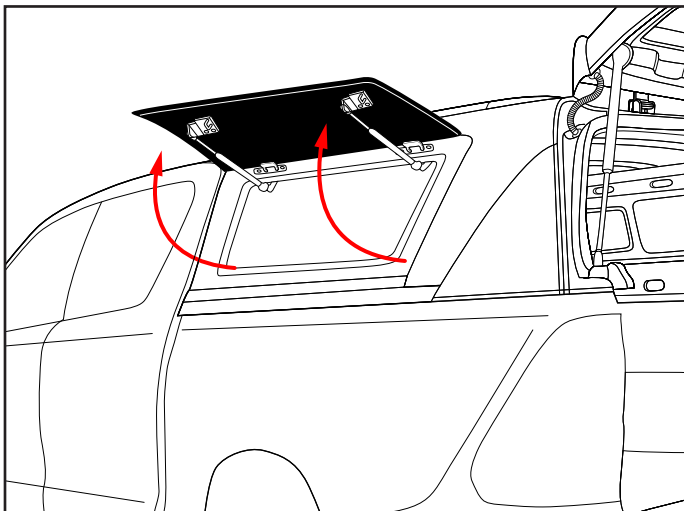
## User manual



### Glass Birdwing Window Left-Right (Handle Lock)

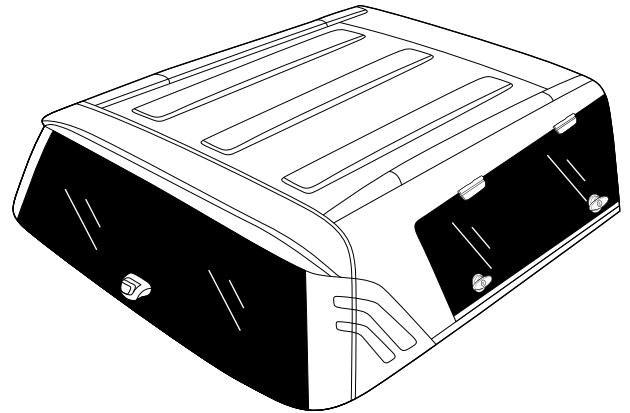


Turn around the canopy lock as shown in picture to open the side window.

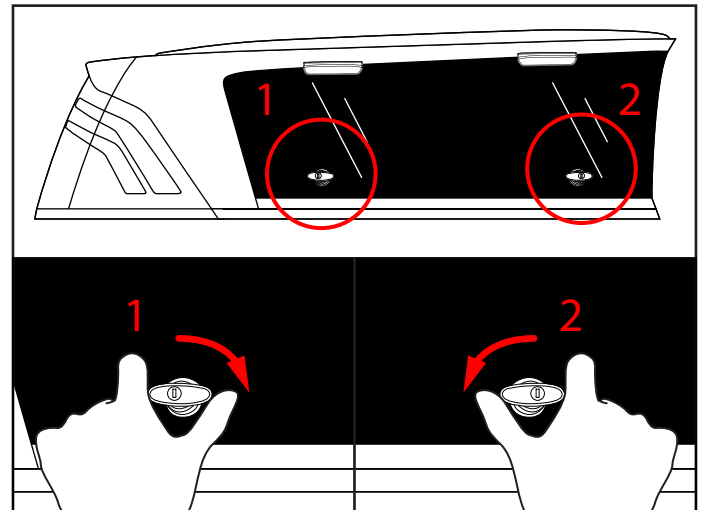


Picture shows how to open the side window.

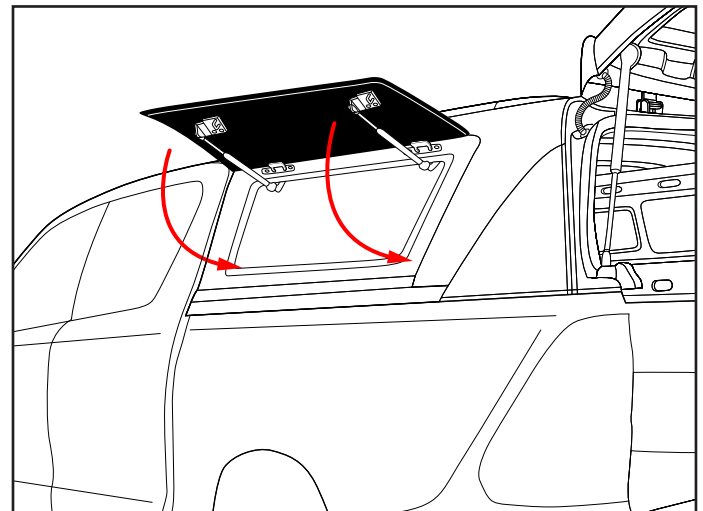
## User manual



### Glass Birdwing Window Left-Right (Handle Lock)



Turn around the canopy lock as shown in picture to close the side window.

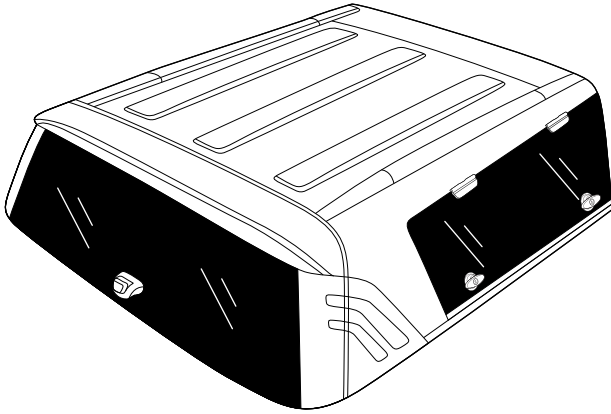


Picture shows how to close the side window.

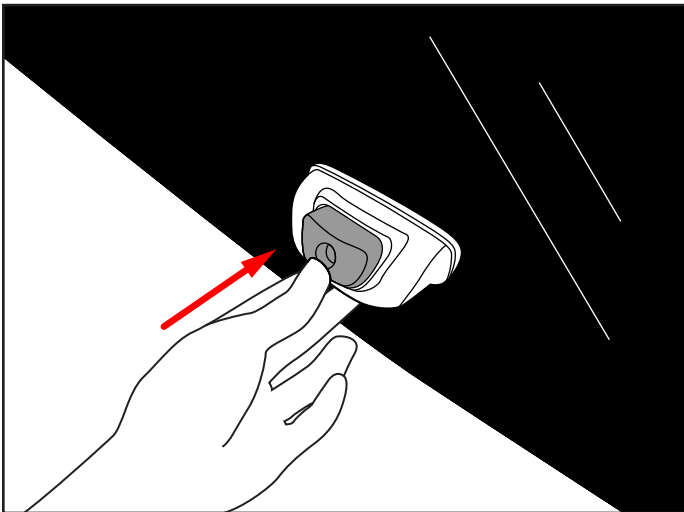


**SAMMITR**

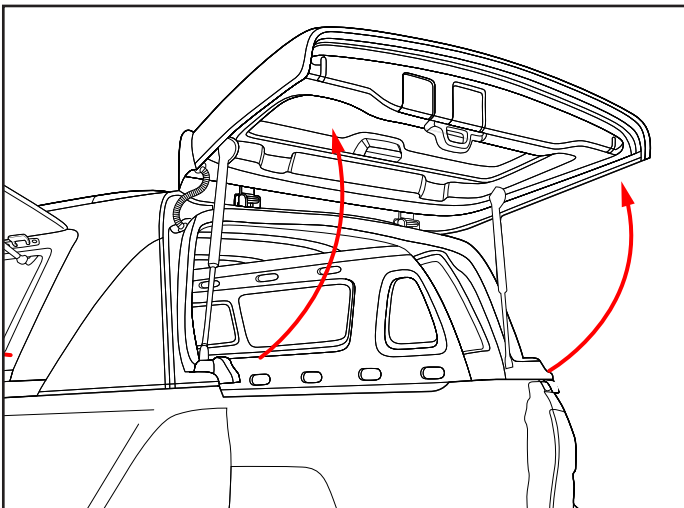
## User manual



Backdoor



Push the button to open the back door.



The Picture shows how to open the backdoor.