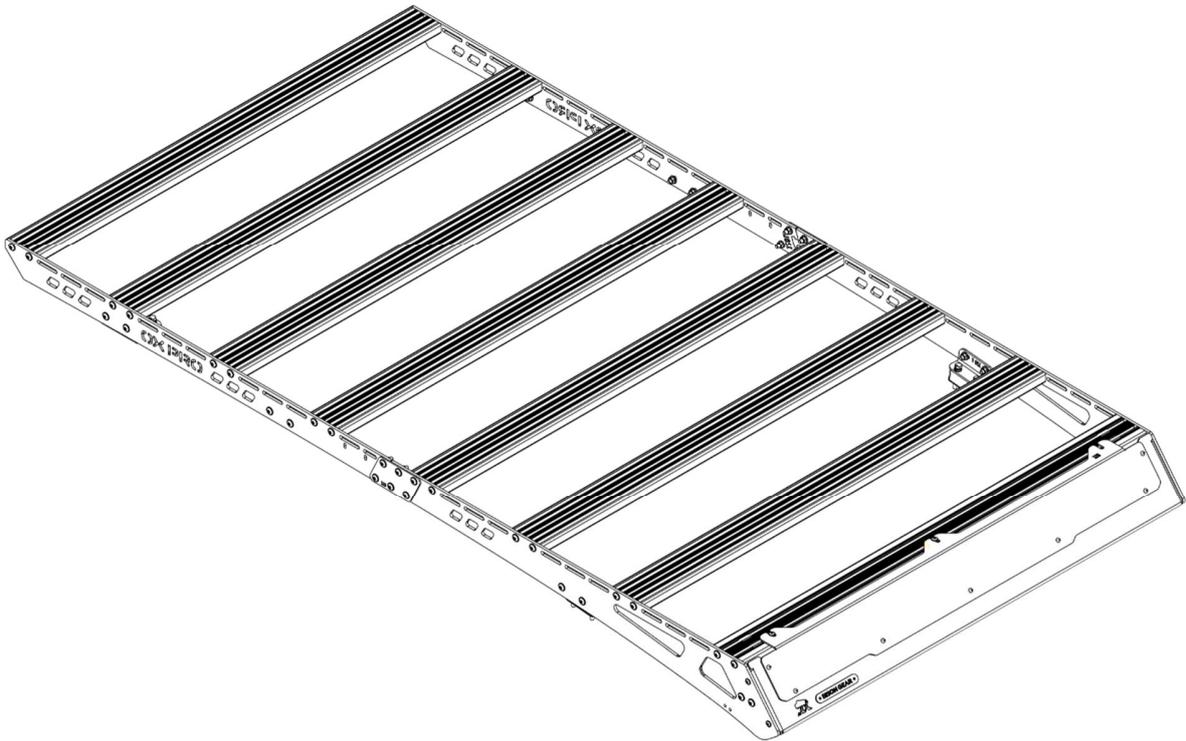




**BISON GEAR**

# TOYOTA LAND CRUISER 120 LEXUS GX470 ROOF RACK OX PRO INSTALLATION GUIDE

**RR-120-OX**





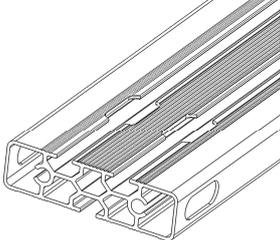
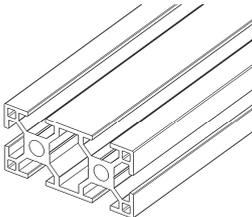
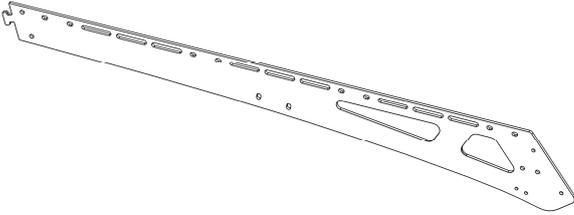
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## Before you start

The Roof Rack is a 2-in-1 version – a standard front wind deflector or LED bar cutout which allows to install 42” LED Bar lamp. As a base is a cutout version which can be easily modified to standard version by screwing on a specially designed cover. This makes the roof rack standard version.

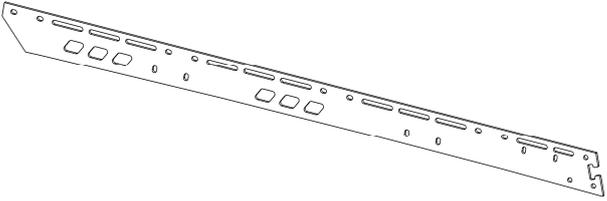
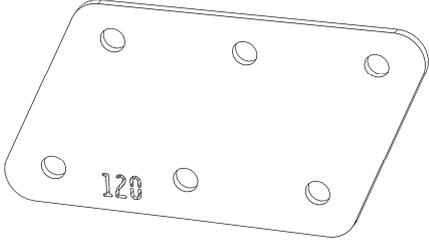
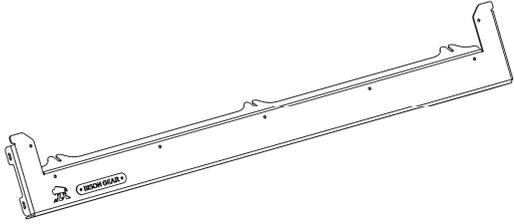
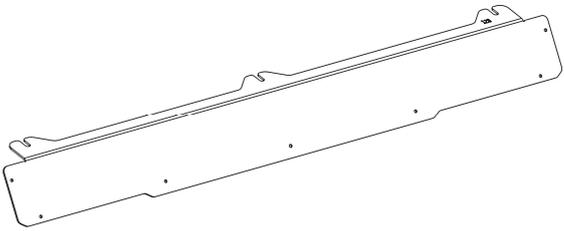
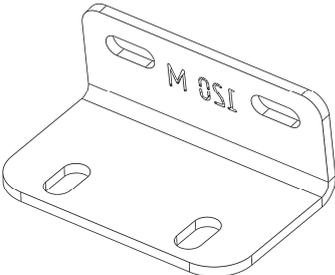
Familiarize yourself with these instructions. Ensure that all listed parts and hardware are present in package. Locate a flat surface or floor with a minimum area of **3 x 2.5 meters**. Gather the required tools. The installation requires two adult people.

## Part list

No.	PART	QTY	IMAGE	<input checked="" type="checkbox"/>
1	Profile 90x25 L=1180	8		
2	Profile 60x30 L=1180	1		
3	Front rail	2		

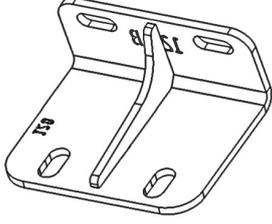
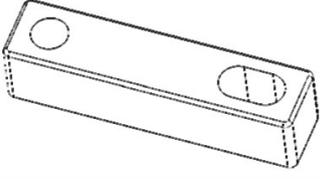
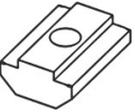
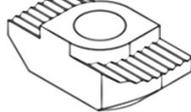


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4	Back rail	2		
5	Connector	2		
6	Wind deflector	1		
	Wind deflector cover			
7	Front roof bracket	2		
8	Middle roof bracket	2		

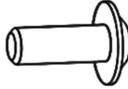
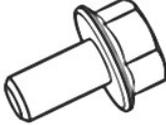
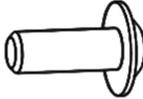
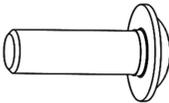
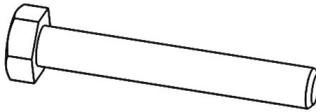
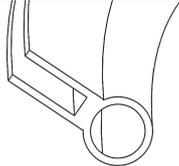
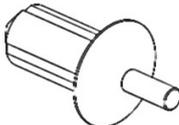


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9	Back roof bracket	2		
10	Roof spacer H=25	6		
11	Rubber pad	6		
12	Flange nut M6 DIN 6923	4		
13	T-slot M6 nut	8	 or 	
14	Flange nut M8 DIN 6923	22		
15	Flat washer M8 DIN 125	12		
16	Spring washer M8 DIN 127	12		



## BISON GEAR

17	Bolt M6x12 ISO 7380-2	5		
18	Bolt M6x12 DIN 6921	3		
19	Bolt M6x16 ISO 7380-2	4		
20	Bolt M8x25 ISO 7380-2	58		
21	Bolt M8x55 DIN 933	12		
22	Rubber wind deflector gasket	1.2 m		
23	Protection tape	1.4 m		
23	Plastic clip	7		



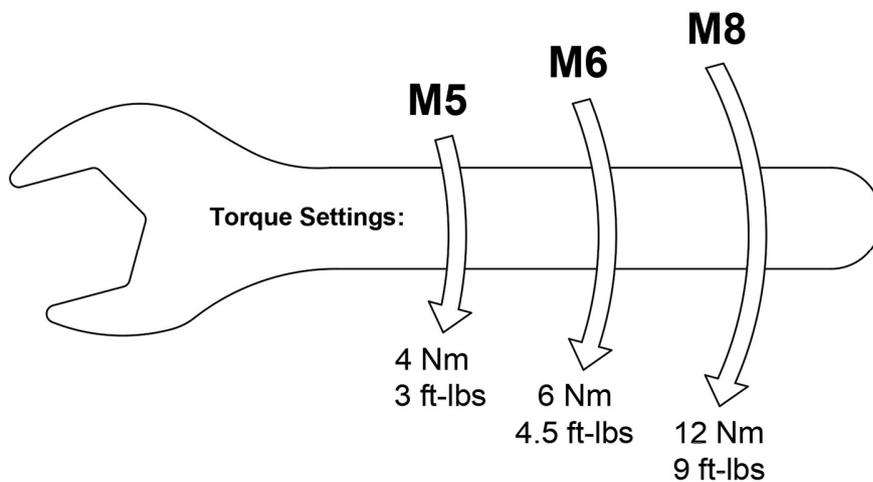
**BISON GEAR**

## List of necessary tools<sup>1</sup>:

- 5 mm Allen Key (Hex)
- 4 mm Allen Key (Hex)
- 10 mm wrench
- 13 mm wrench

## Torque settings:

During assembly, use the recommended tightening torques for all the bolts, unless other parameters are specified for a given connection.

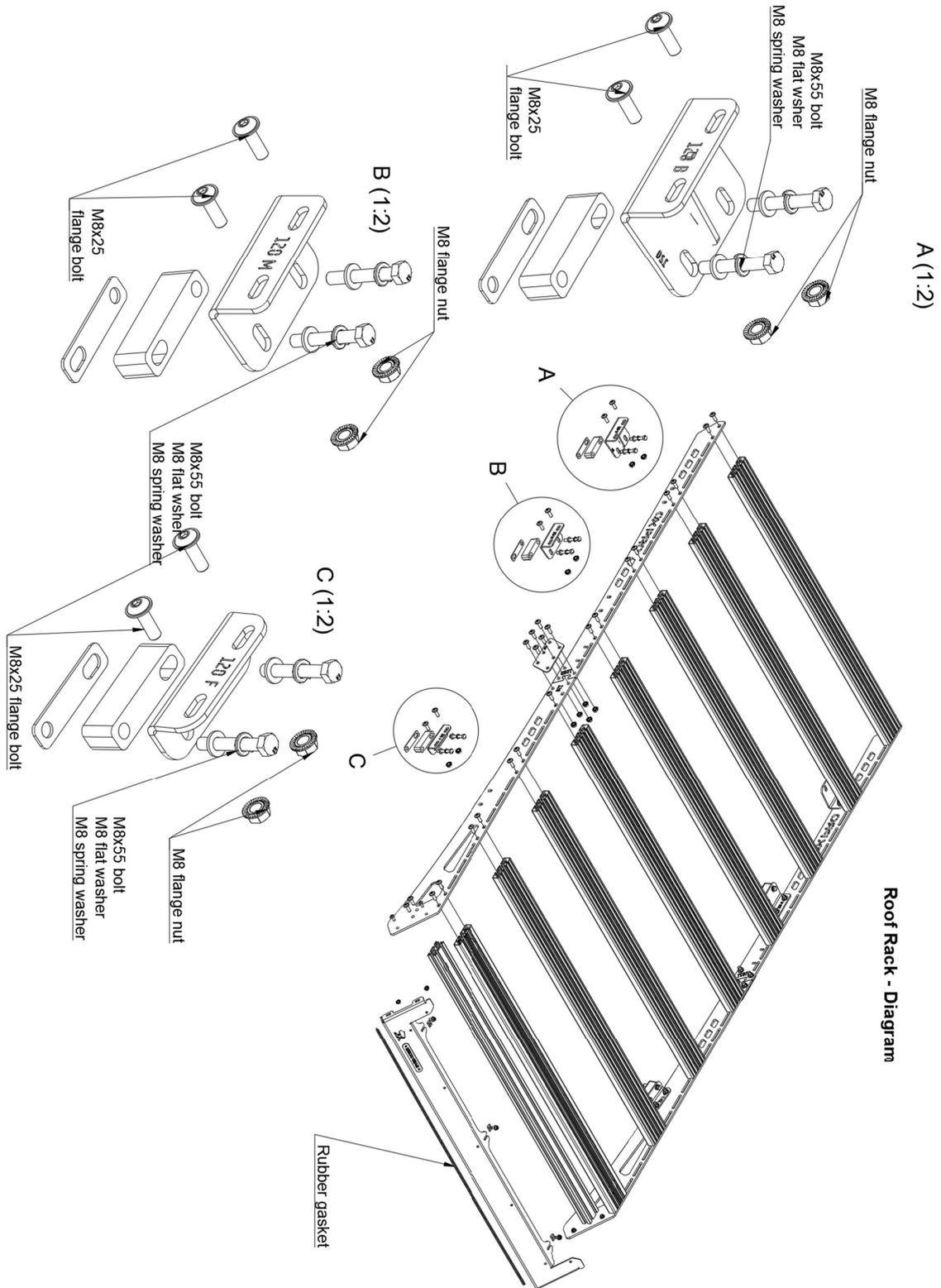


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<sup>1</sup> NOTE: The tools **are not** the part of the set.

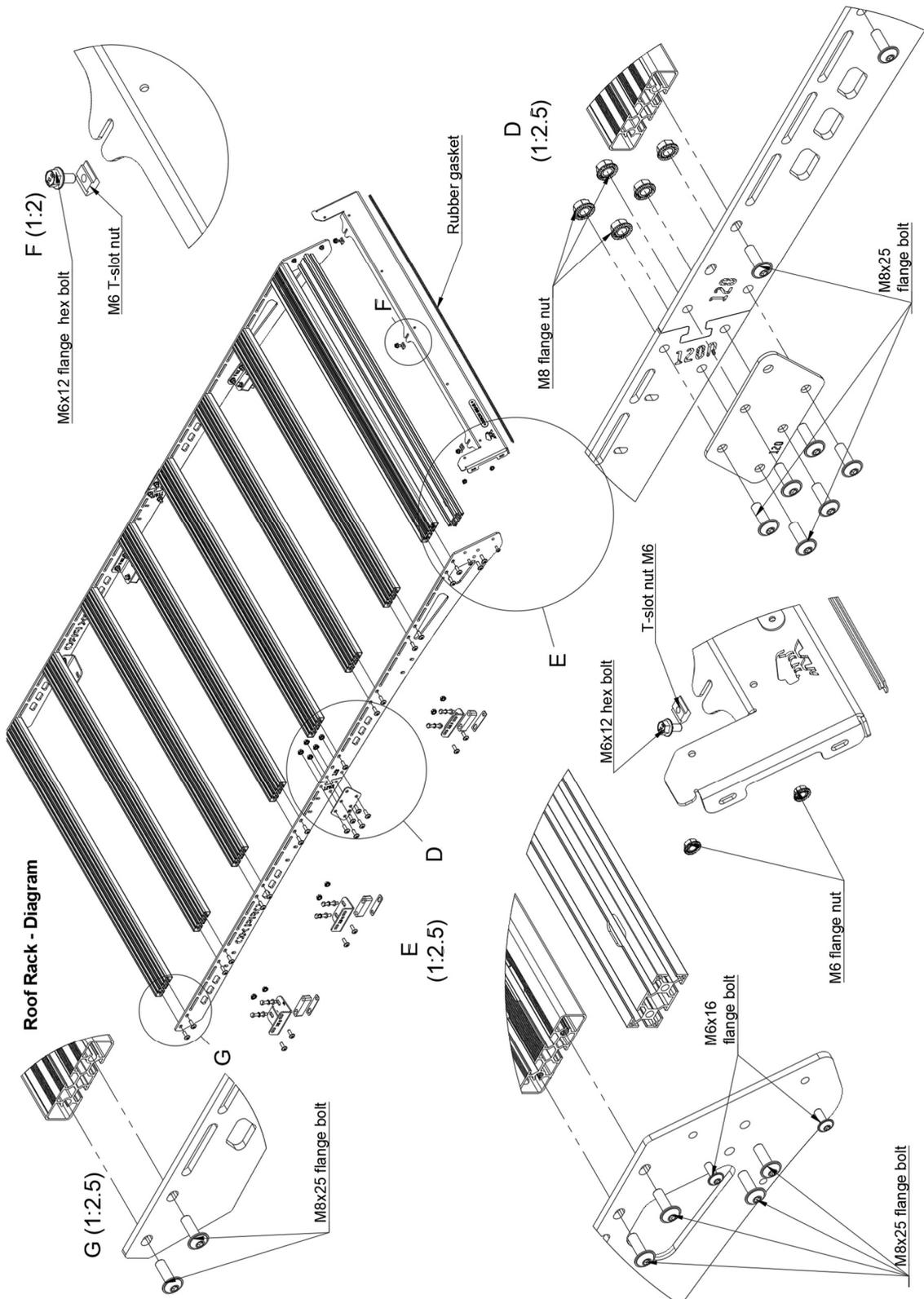


**BISON GEAR**





**BISON GEAR**





**BISON GEAR**

## Installation:

Before you start to work, familiarize yourself with the diagrams on **pages 7 and 8**. There are exploded views that show you how to assemble the roof rack parts together.

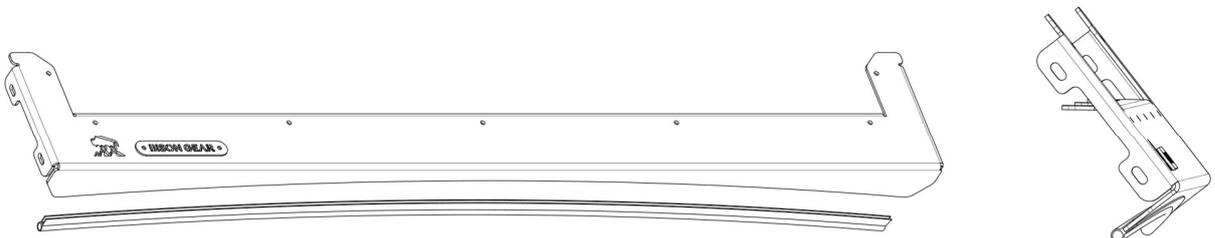
The Roof Rack is a 2-in-1 design – it can be used as a standard front wind deflector or include a LED bar cutout that allows installation of a 42” LED Bar lamp.

The base version includes the LED cutout, which can be easily converted to the standard version by attaching a specially designed cover. The choice is yours, and you can switch between the versions at any time.

The set also contains 2 additional T-slot M6 nuts and 2 M6x12 flange bolts for LED bar installation.

Follow the steps below to install the product correctly

1. Start by preparing the product parts and gathering the necessary tools.
2. Place (and trim if necessary) the rubber gasket on the wind deflector.

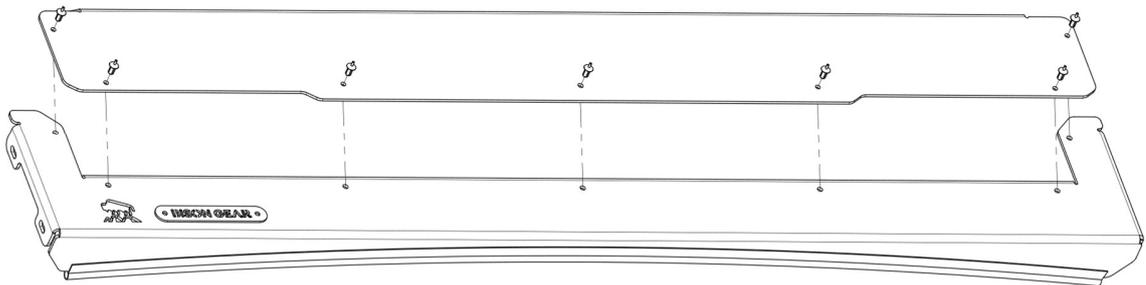




## BISON GEAR

### 3. \*\*\***(This point refers only to the standard version)**

For the standard version, place the cover on the wind deflector. Insert the plastic clips into the holes, then press the pins down until they lock with the clips. If necessary, use a hammer to gently tap them into place.



4. Assemble the side parts of the roof rack (**rails** and **connectors**) with the crossbars using **M8x25 flange bolts**. At first, only pre-screw all the bolts. It is recommended to mount the roof rack upside down on a flat surface to ensure the top side is perfectly flat. Make sure that the first crossbar is placed with 2 T-slots facing up (counting from the front of the car) if you are going to use the standard version.

**(Tip:** Slide three T-slot M6 nuts to the first slot in the 60x30 profile before you screw it to the rails.)

### **\*\*\*Important**

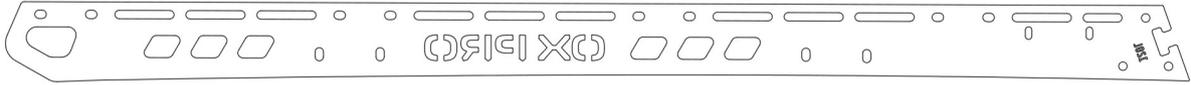
**The Bison Gear crossbar features one T-slot on one side and two T-slots on the other. It is symmetrical, allowing it to be mounted on the roof rack in either direction. If you wish to change the orientation, simply unscrew the four bolts and switch sides.**

**There is a difference between left and right front rails, refer to the pictures on page 11 to assemble them correctly.**

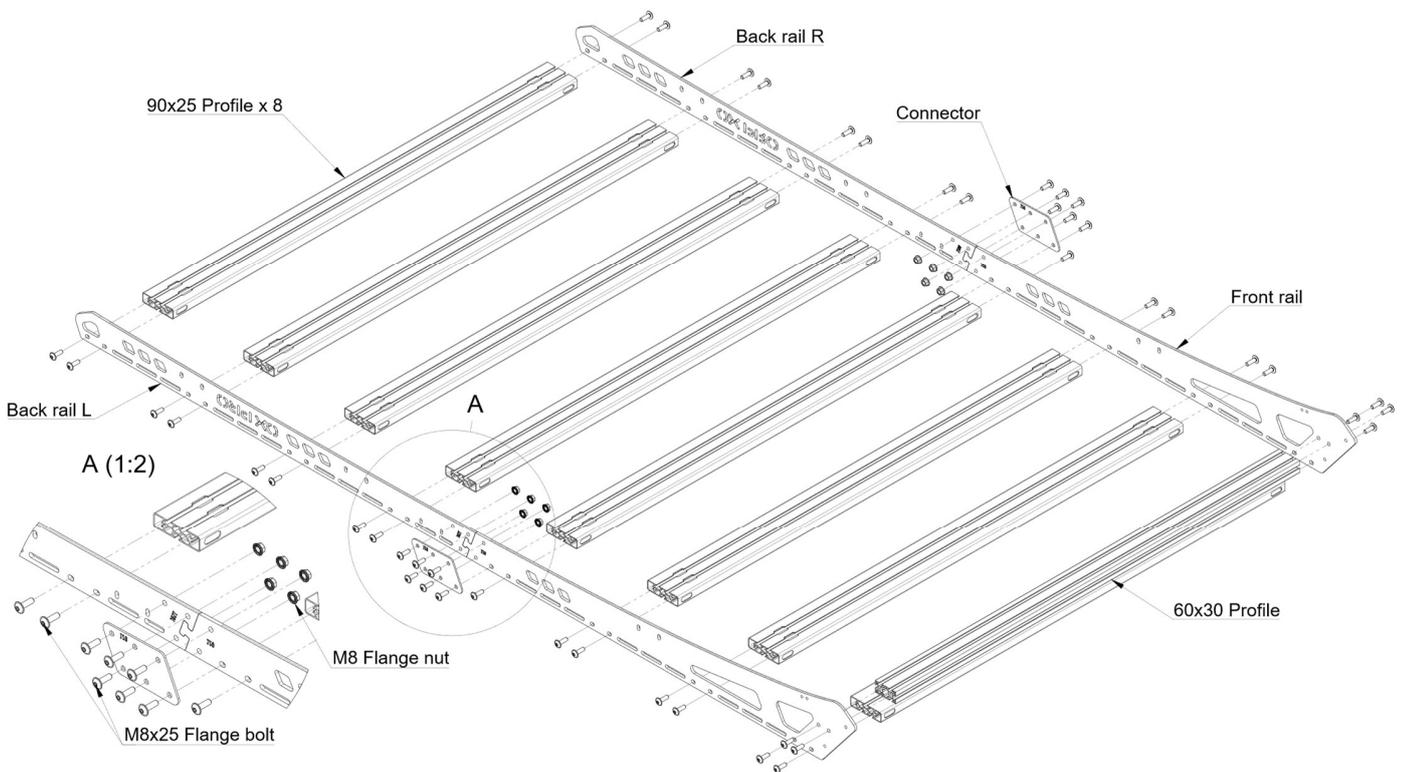


**BISON GEAR**

Back rail L



Back rail R

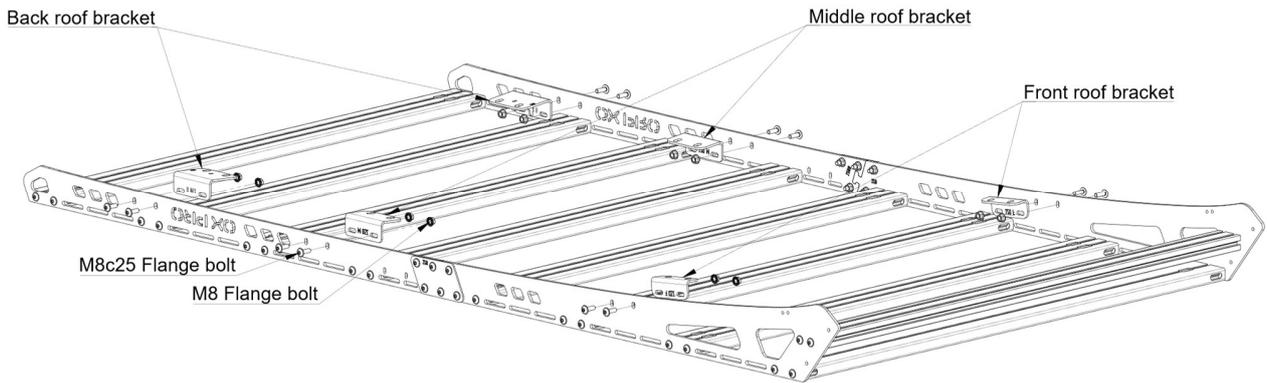


5. Tighten all the bolts

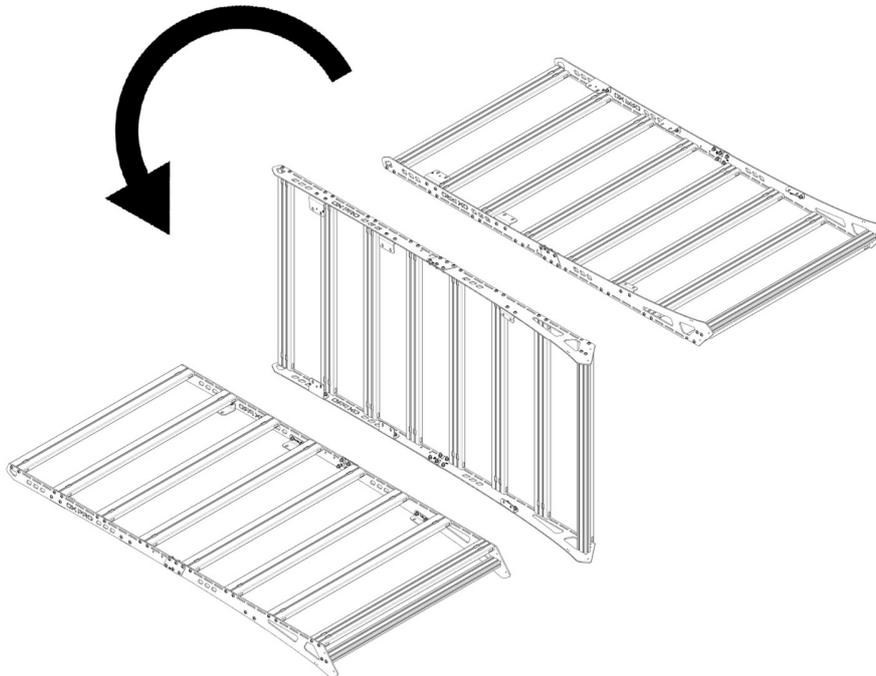


**BISON GEAR**

6. Install the roof brackets as shown below, **do not screw them fully yet.**



7. Turn the roof rack back.



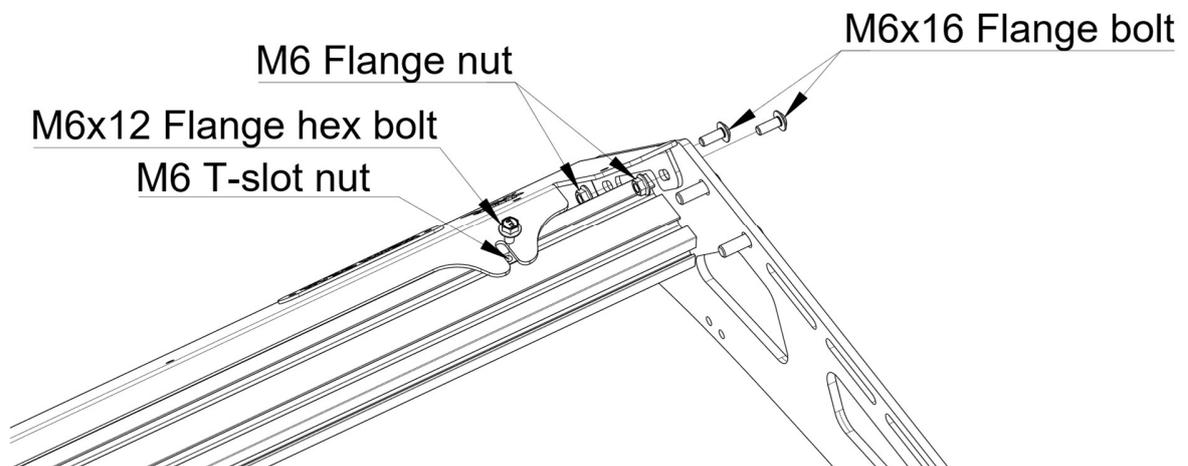


**BISON GEAR**

8. Install the wind deflector:

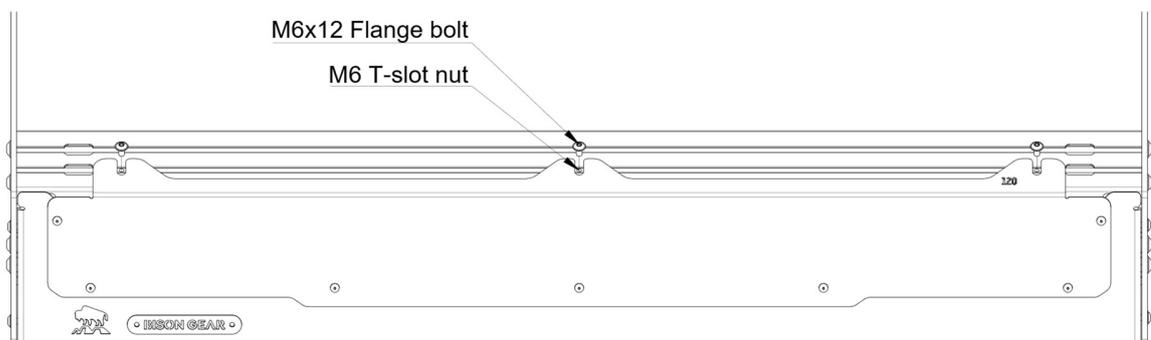
- Use 4 x **M6x16 bolts**, **M6 flange nuts** to screw it to the side rails.
- Use 3 x **T-slot M6 nuts** and **M6x12 flange hex bolts**. First, slide the T-slot nuts into the first slot of 30x60 crossbar.

The picture below does not contain the wind deflector cover for your ease of viewing.



9. **\*\*\*(This point refers only to the standard version)**

Use 3 M6x12 flange bolts and M6 T-slot nuts to attach the wind deflector cover to the first crossbar.





## BISON GEAR

10. \*\*\* If there are any items on the roof, such as factory rails, a roof rack, or other accessories, remove them before starting the roof rack installation. Refer to the vehicle's owner's manual for guidance.

11. Before installing the roof rack on the car, prepare the following parts for the next step:

- 12 - M8x55 hex bolts;
- 12 – M8 flat washers;
- 12 – M8 spring washers;
- 6 – Roof spacers;
- 6 – Rubber pads.

**\*\*\* Important!**

In the next step, you will need the assistance of at least one adult to help lift the entire construction onto the roof.

12. Clean the area around the fixing points. Place **the rubber pads** and **spacers** on the roof, then position the roof rack in place.

13. Place the roof rack on the roof and pre-screw only the back bracket to the car (this helps set the position of the roof rack) using **M8x55 hex bolts**, **flat washers**, and **spring washers**. Refer to the picture on page 15.

**\*\*\* Important!**

**The set includes protective tape. We recommend gluing it where the rubber gasket of the wind deflector and car's roof meet. This will prevent damage to the paintwork at the point of contact.**



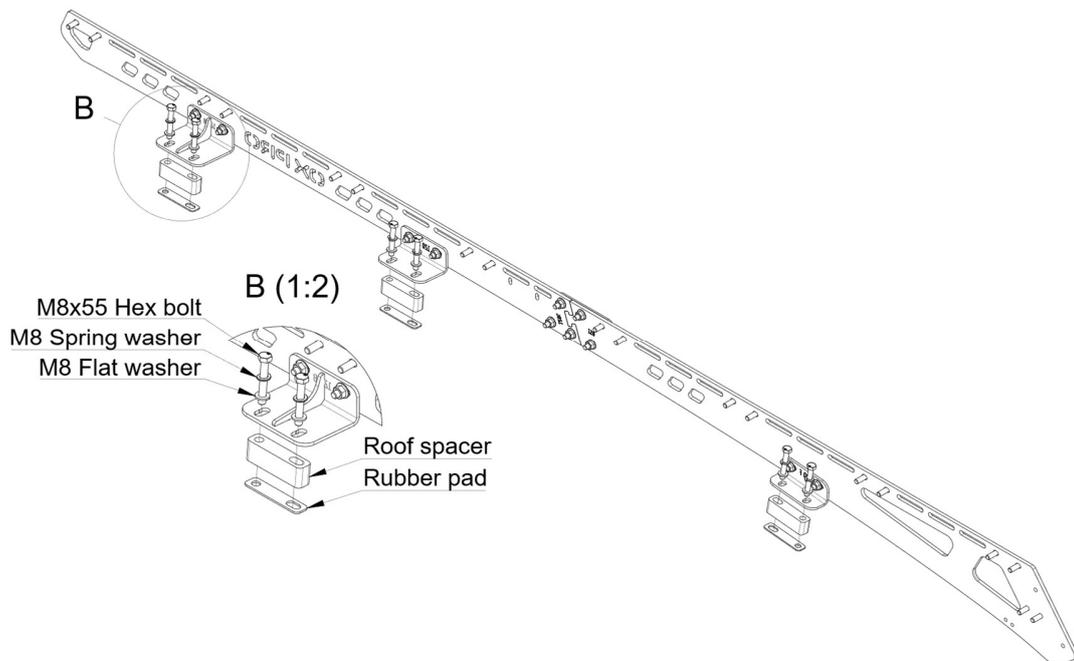
## BISON GEAR

- (OPTIONAL) Mark the position for the protective tape. Lift the front of the roof rack and apply the tape beneath the wind deflector's rubber gasket.
- Pre-screw the remaining M8x55 bolts to the brackets.

### ! Important

**The set includes protective tape. We recommend gluing the protective tape where the rubber gasket of wind deflector and car's roof meets. This will prevent damage of paintwork at the point of contact.**

- (OPTIONAL) Mark the position of protective tape. Lift the front of the rack and glue the tape under wind deflector rubber gasket.
- Pre-screw the roof rack to the car using M8x55 bolts, flat washers, spring washers.





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18. Adjust the position of the roof rack so it is centered on top of the car.

19. Tighten all the bolts.

- Tightening torque M8x55 bolts - 15 Nm /11 ft-lbs.  
(roof rack -> roof connection)
- Tightening torque M8x25 flange bolts/ M8 flange nut - 25 Nm  
/18.5 ft-lbs  
(roof brackets -> side rails connection)

Make sure that everything is mounted properly and all the bolts are tightened.  
If everything is correct, your work is done.

**After driving 50km with rack on the roof, check all the bolts and retighten them if necessary.**



**BISON GEAR**

**Have a great time with Bison Gear product!**



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