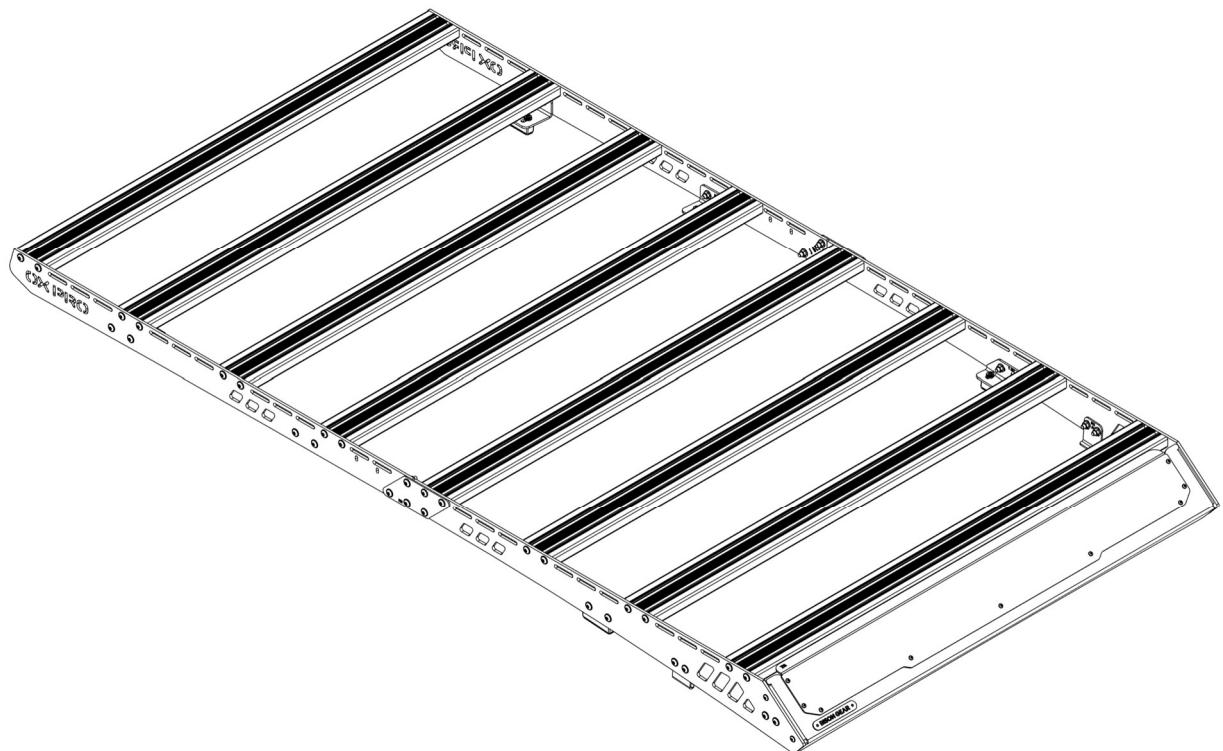




BISON GEAR

TOYOTA LAND CRUISER 150 LEXUS GX460 ROOF RACK INSTALLATION GUIDE

RR-150-OX





💡 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 the standard version attaching a specially designed cover. This makes the roof rack the 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	
1	Profile 90x25 L=1180	8		
2	Profile 60x30 L=1180	1		
3	Front rail	2		



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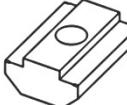
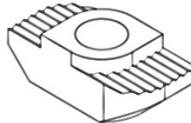
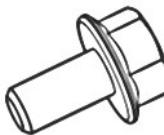
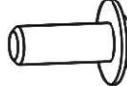
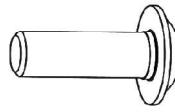
4	Back rail R	1	
5	Back rail L	1	
6	Connector	2	
7	Wind deflector	1	
8	Wind deflector cover	1	
9	Front roof bracket L	1	



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10	Front roof bracket R	1		
11	Middle roof bracket	2		
12	Back roof bracket	2		
13	Front support	2		
14	Roof spacer H=25	6		
15	Rubber pad	6		



16	Flange nut M6 DIN 6923	4		
17	T-slot M6 nut	5	  or	
18	Flange nut M8 DIN 6923	24		
19	Flat washer M8 DIN 125	12		
20	Spring washer M8 DIN 127	12		
21	Bolt M6x12 DIN 6921	3		
22	Bolt M6x12 ISO 7380-2	2		
23	Bolt M6x16 ISO 7380-2	4		
24	Bolt M8x25 ISO 7380-2	60		



25	Bolt M8x55 DIN 933	12		
26	Plastic clip	9		
27	Rubber wind deflector gasket	1.2 m		
28	Protection tape	1.4 m		

☒ List of necessary tools¹:

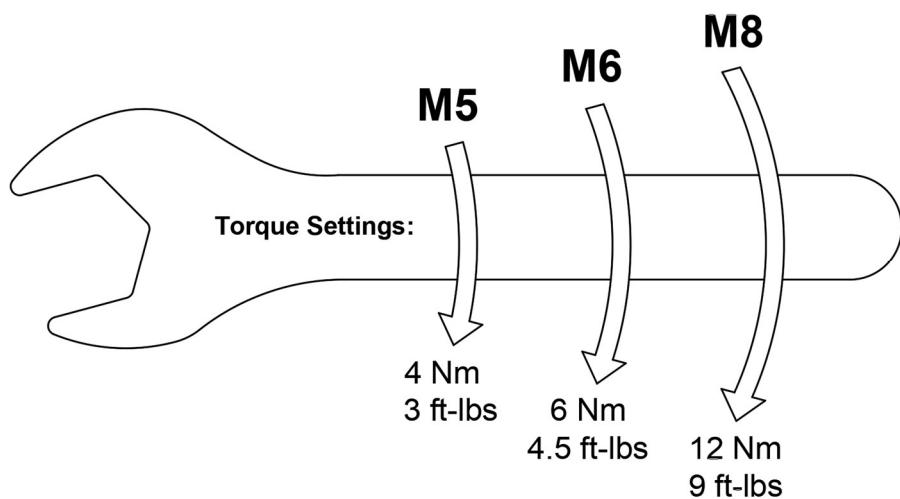
- **4 mm Allen Key (Hex)**
- **5 mm Allen Key (Hex)**
- **10 mm wrench**
- **13 mm wrench**
- **torque wrench**
- **cutters**
- **hammer**
- **wipe**
- ***(optional) torque wrench**

¹ NOTE: The tools are not the part of the set.



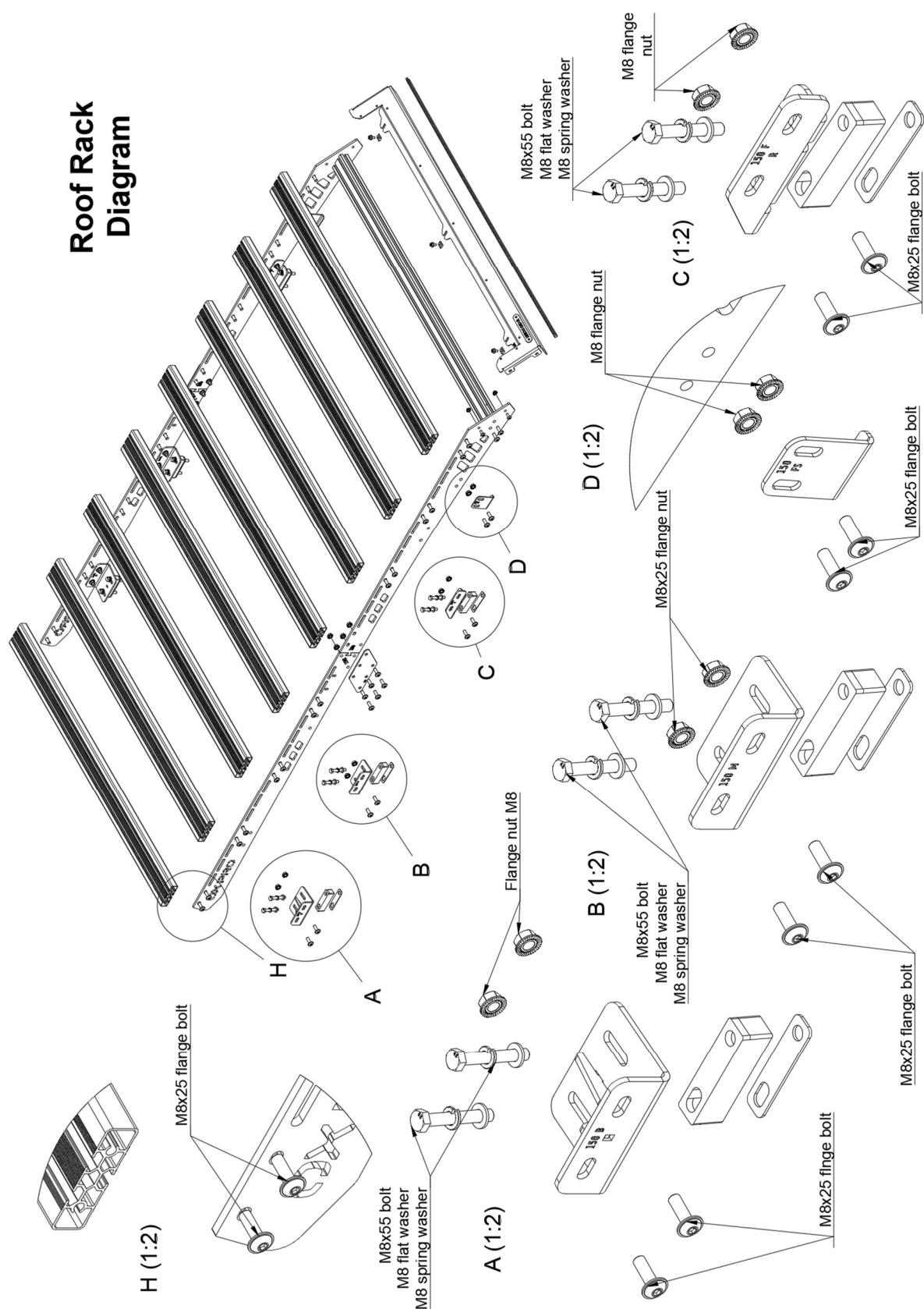
☒ Torque settings:

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





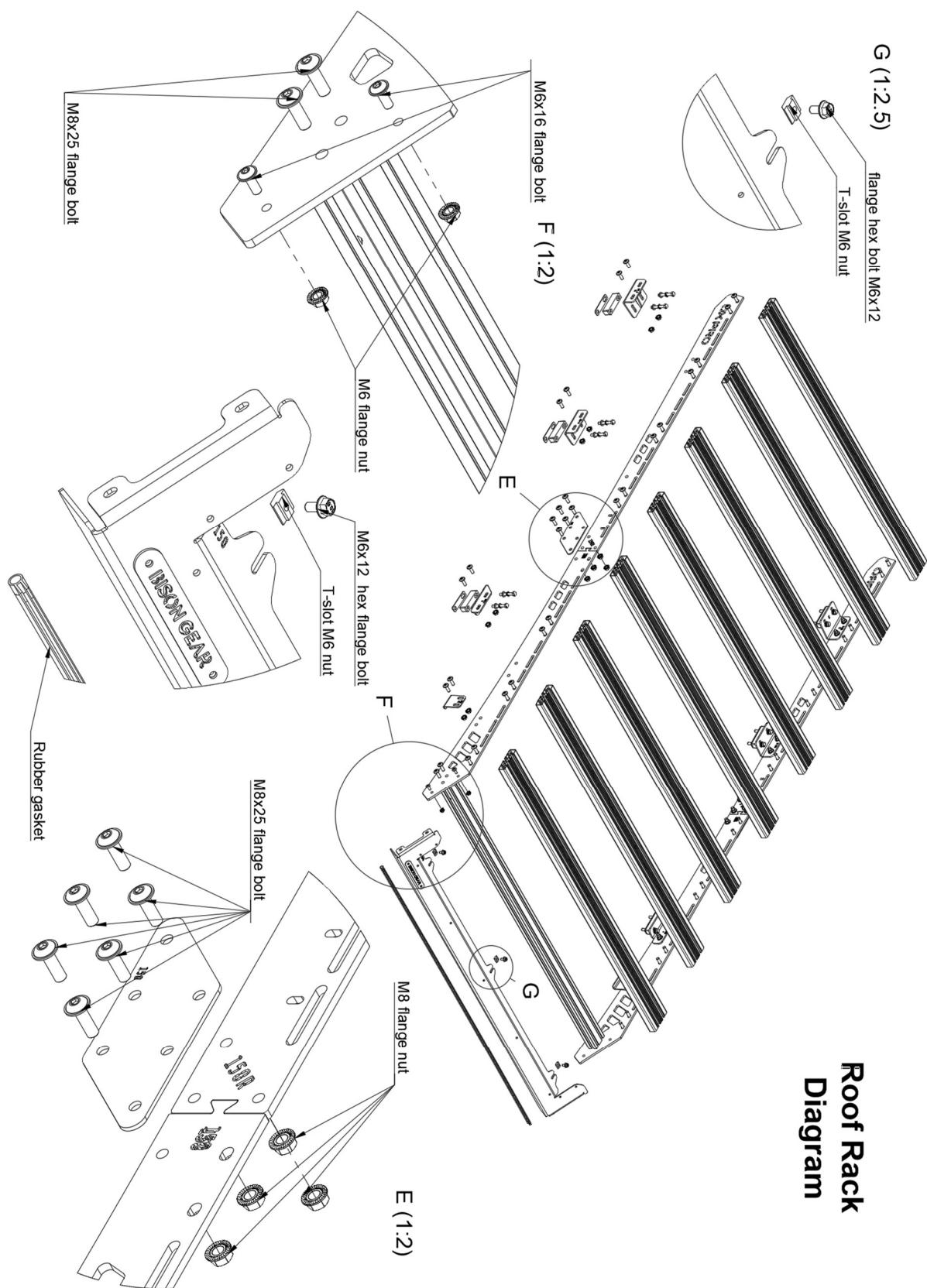
Roof Rack Diagram





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Roof Rack Diagram





🔧 Installation:

Before you start to work, familiarize yourself with the diagrams on **pages 8 and 9**. There are exploded views that show you how to assemble the roof rack parts together.

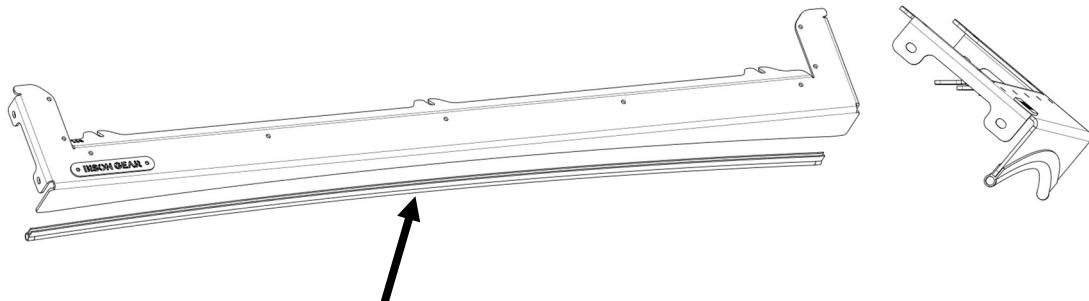
The Roof Rack is a 2-in-1 design – it can be used as a standard front wind deflector or include a LED bar cutout that allows installation of a 42" LED Bar lamp.

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

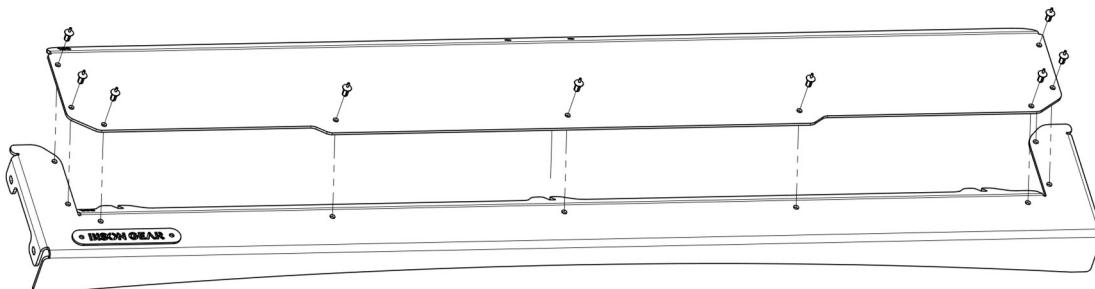
1. Start by preparing the product parts and gathering the necessary tools.
2. Place (and trim if necessary) the rubber gasket on the wind deflector.





3. *****(That 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.

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

*****Important**

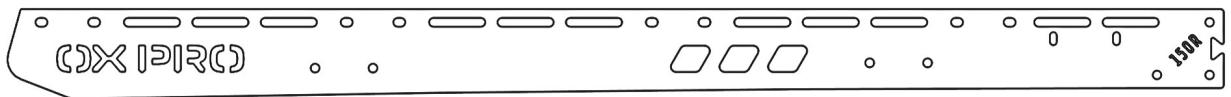
The Bison Gear crossbar features one T-slot on one side and two T-slots on the other. It is symmetrical, allowing it to be mounted on the roof rack in either direction. If you wish to change the orientation, simply unscrew the four bolts and switch sides.

There is a difference between left and right front rails, refer to the pictures on page 12 to assemble them correctly.

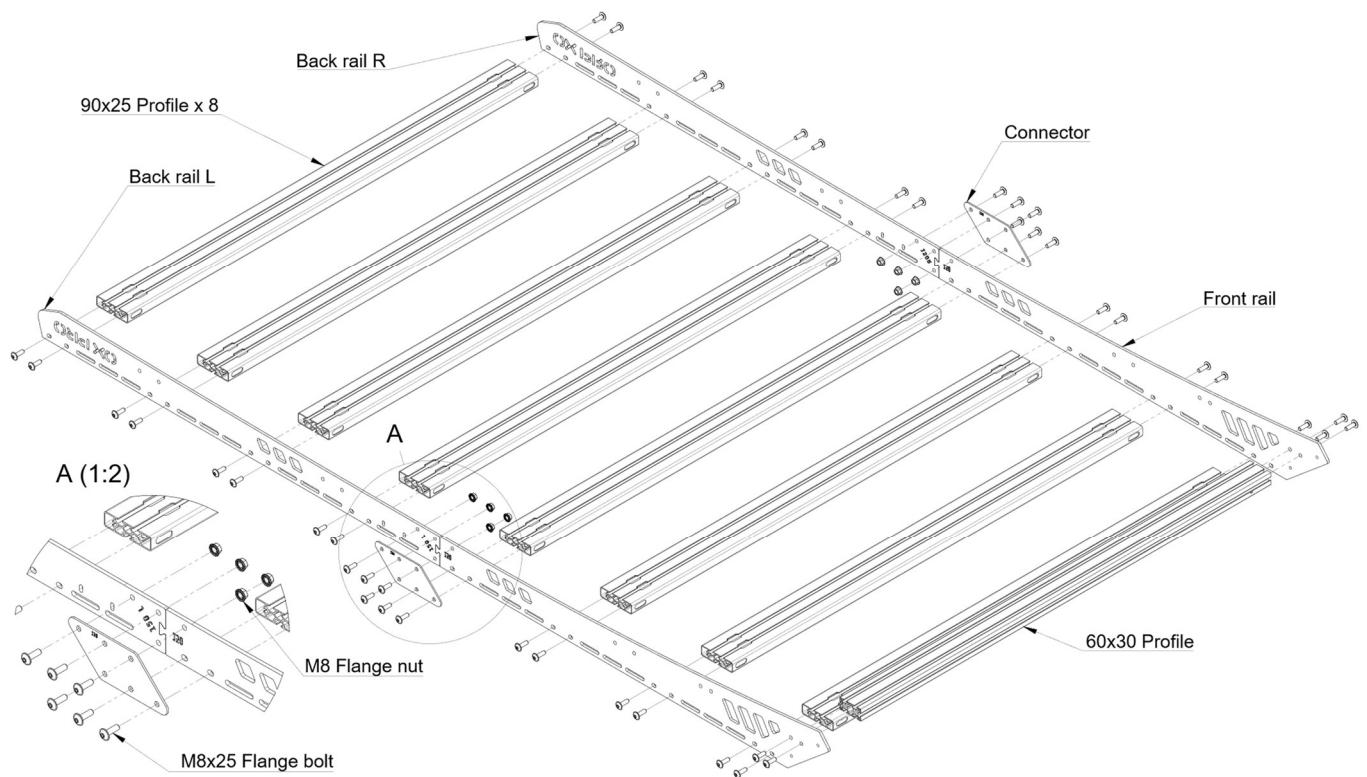
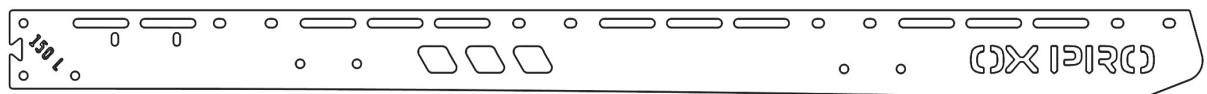


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Back rail – right side



Back rail – left side



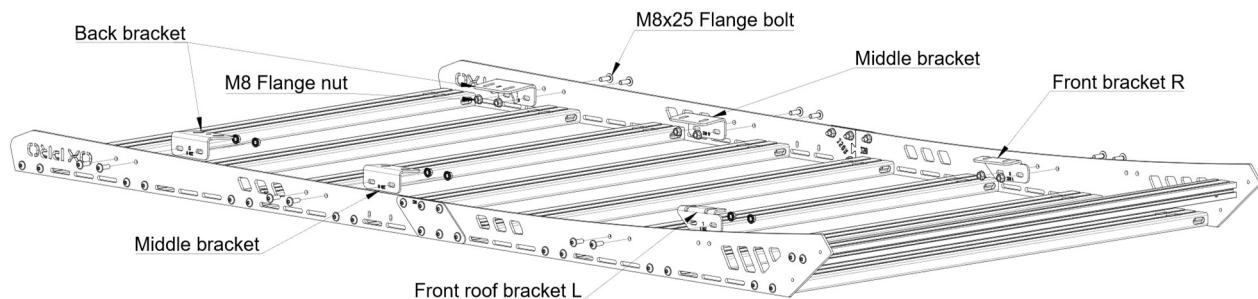
5. Tighten all the bolts.



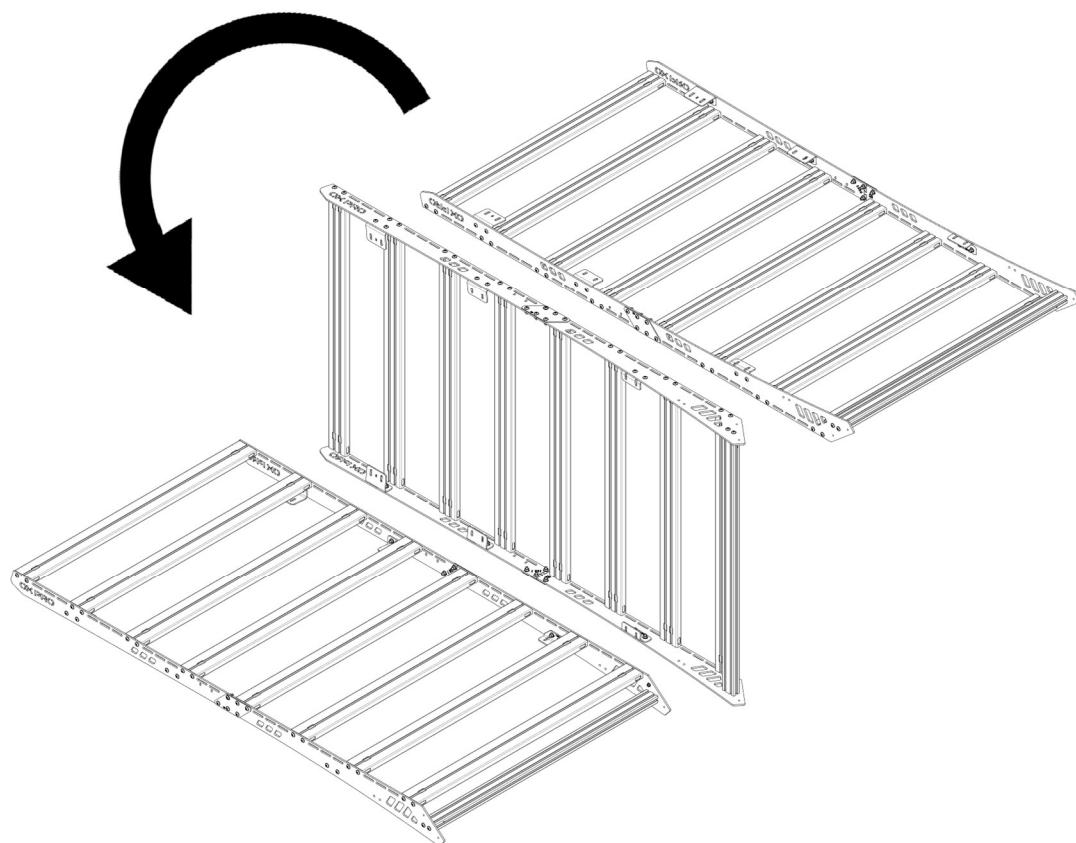
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6. Install the roof brackets as shown below, **do not screw them fully yet**.

Pay attention to the front brackets, there is a difference between left and right side (see pictures in the part list on pages 3 and 4).



7. Turn the roof rack back.

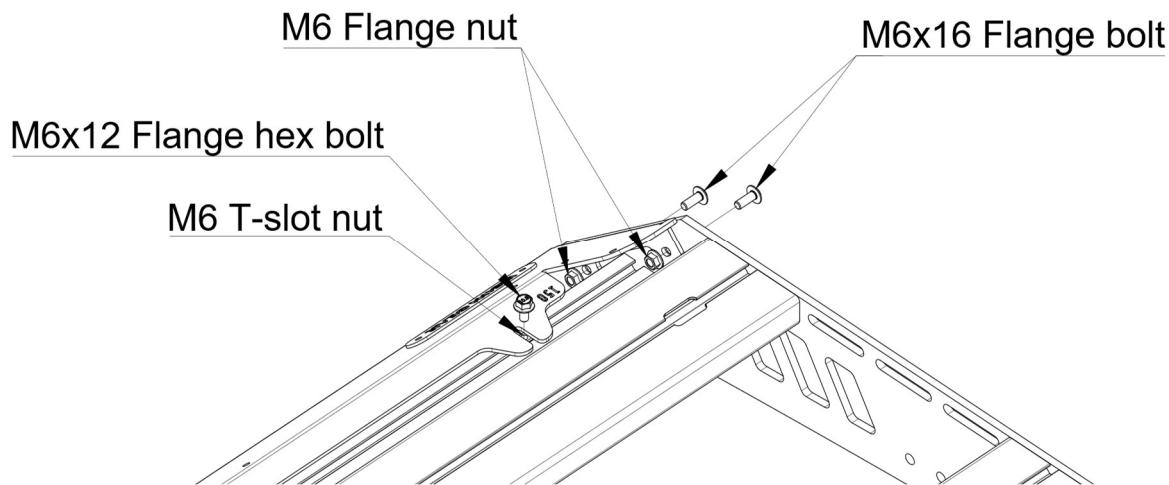




8. Install the wind deflector:

- 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. ***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.

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

11. 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.



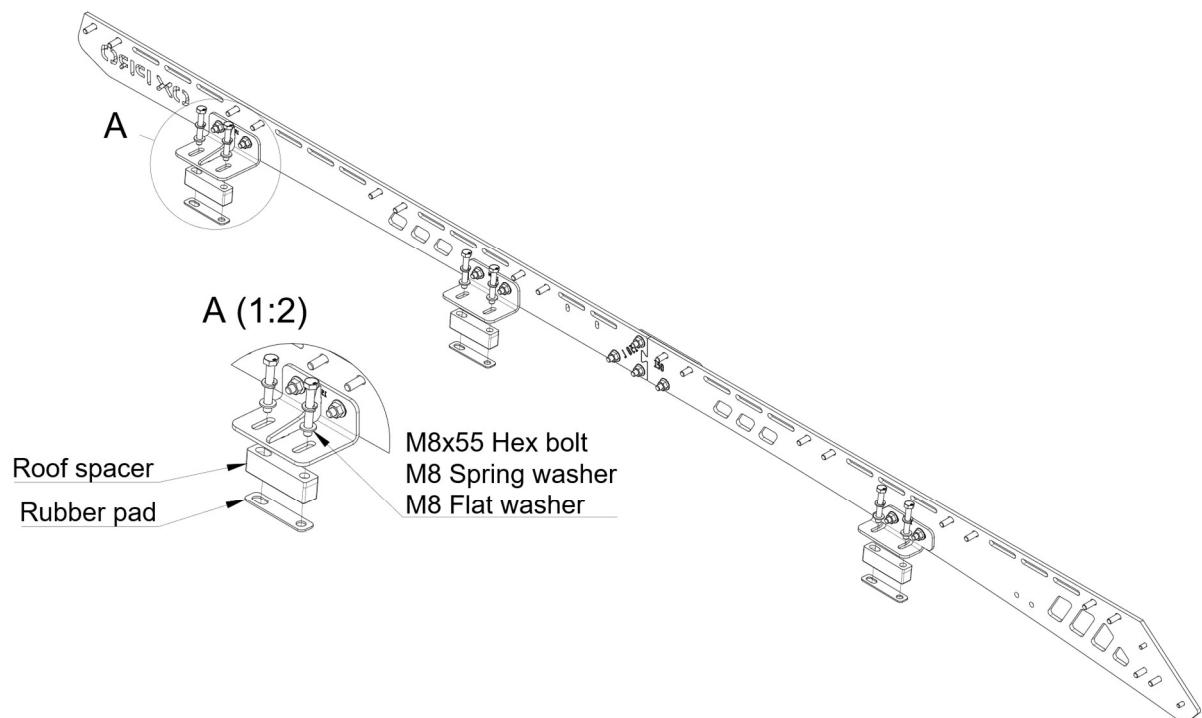
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***** Important!**

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.

12. (OPTIONAL) Mark the position of protective tape. Lift the front of the rack and glue the tape under wind deflector's rubber gasket.

13. Pre-screw the remaining hardware to the roofrack



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



15. 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)

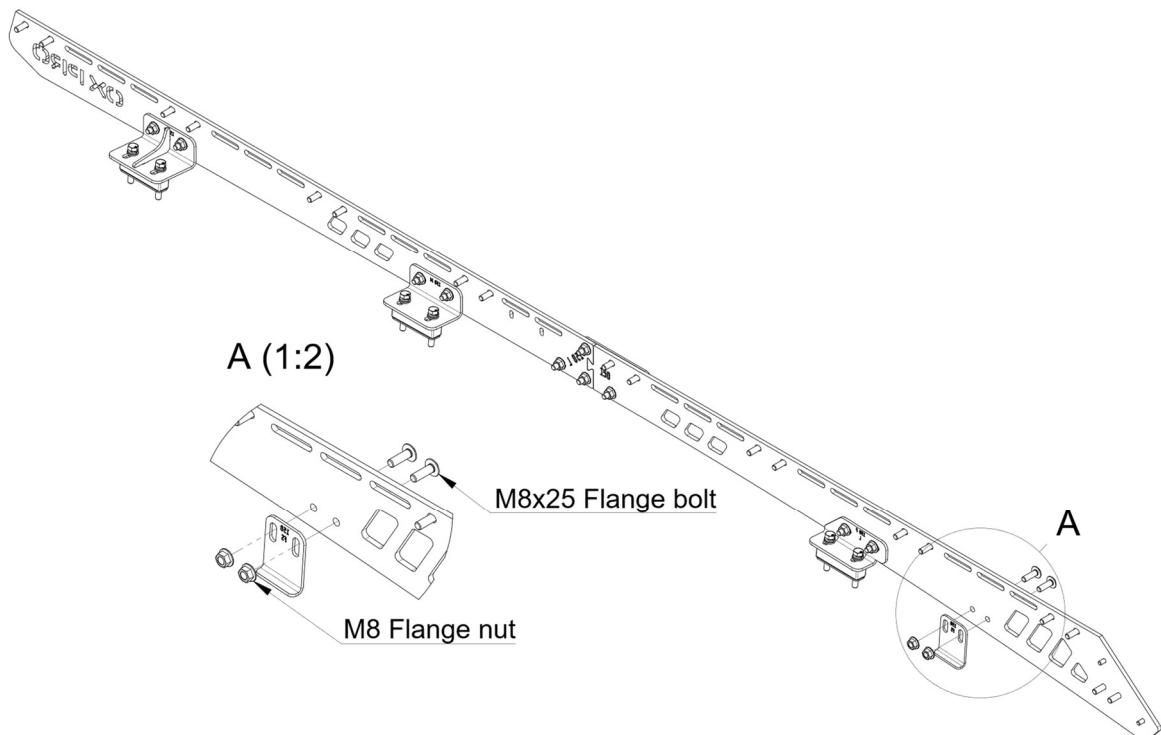
The last part to screw to the roof rack is a front support bracket. You can do it in two ways – 16.A, 16.B (both are correct).

16.A Remove the rubber cover directly under where the front support will be installed. Clean the area where the front support meets the car. Peel off the protective tape from the front support. Attach the front support to the car and secure it to the roof rack using an **M8x25 bolt** and **M8 nuts**.

16.B Clean the area of the rubber cover where the front support will make contact. Remove the protective tape from the front support. Attach the front support to the rubber cover, press it down firmly, and secure it to the roof rack using an **M8x25 bolt** and **M8 nuts**.



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17. Tighten the bolts and nuts on the front support.

Tightening torque: 25 Nm /18.5 ft-lbs.

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.



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Have a great time with Bison Gear product!



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