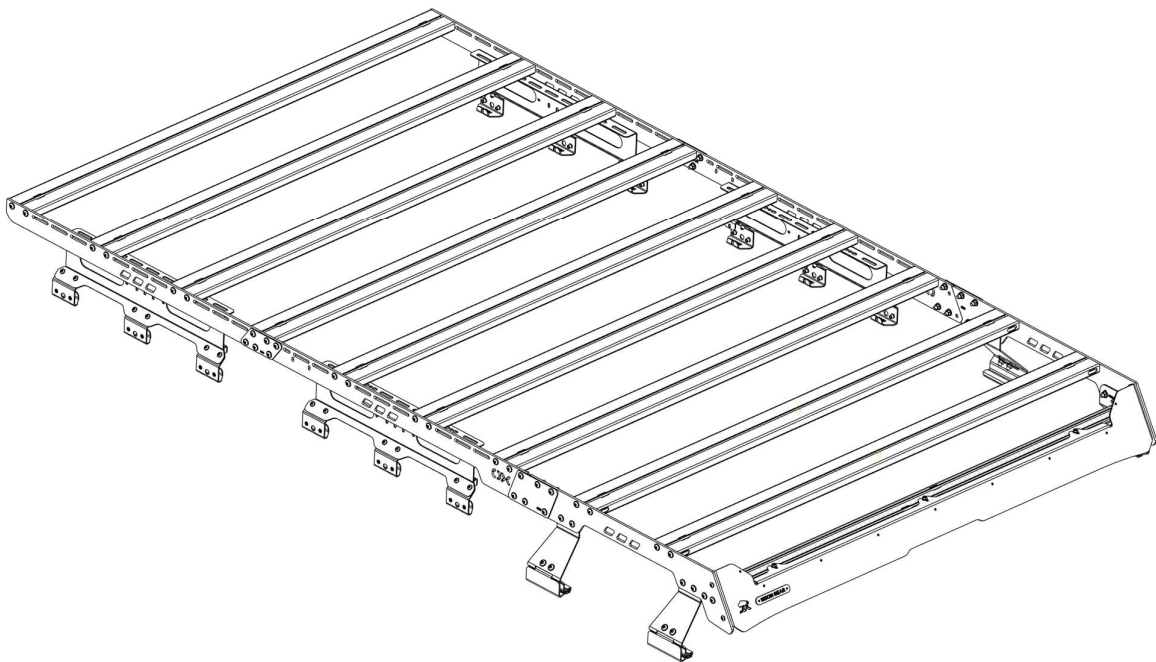**BISON GEAR**

INEOS Grenadier Roof Rack OX Pro Installation Guide
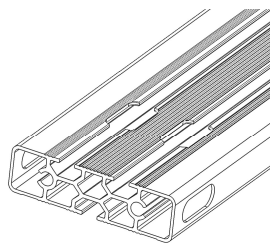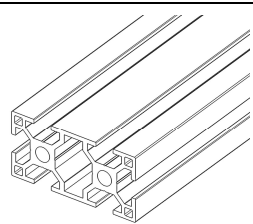
RR-GRND-OX

💡 Before you start

The Roof Rack is a 2-in-1 model – it can be used either as a standard front wind deflector or with an LED bar cutout, allowing installation of a 42" LED Bar lamp. The base version comes with the LED cutout, which can be easily converted to the standard version by attaching a specially designed cover. This converts the roof rack into the standard version.
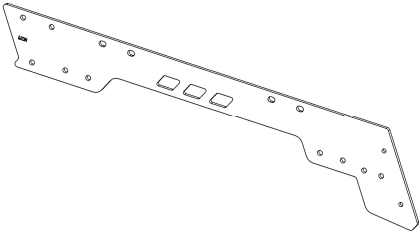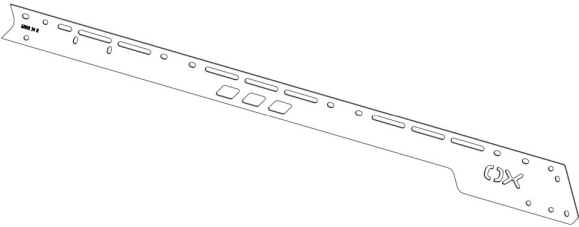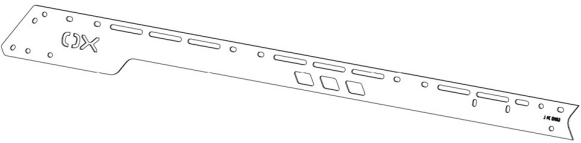
Before installation:

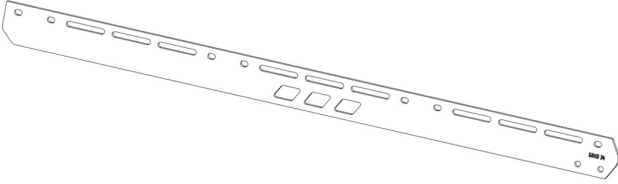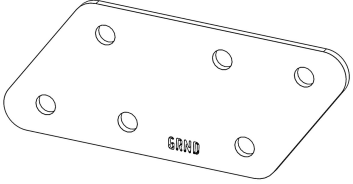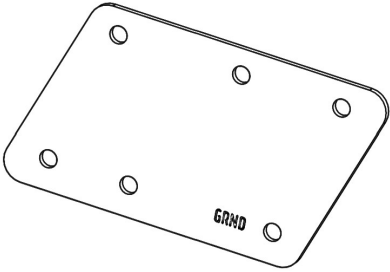- Familiarize yourself with these instructions.
- Ensure that all listed parts and hardware are included in the package.
- Prepare a flat surface or floor with a minimum area of 3 x 2.5 meters.
- Gather the required tools.
- Installation requires two adults.

⚙ Part list
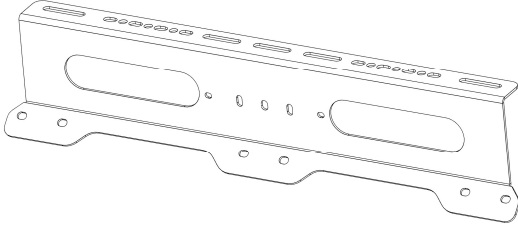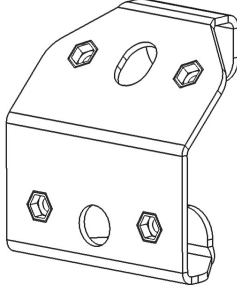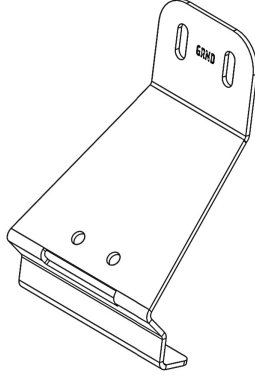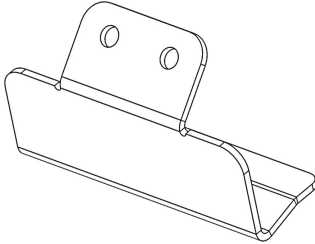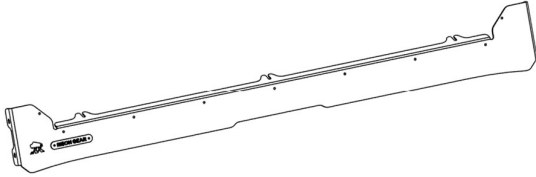
No.	PART	QTY	IMAGE	⊠
1	Profile 90x25 L=1510	9		
2	Profile 30x60 L=1510	1		
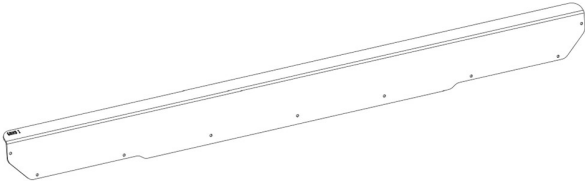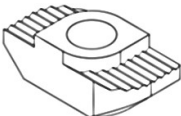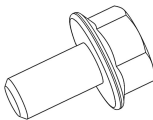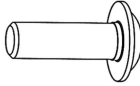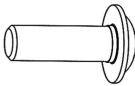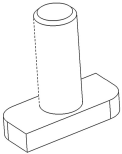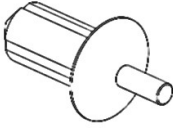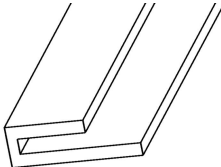
3	Side extra rail	**2**		
4	Front rail R	**1**		
5	Front rail L	**1**		
6	Back rail	**2**		
7	Small connector	**2**		
8	Large connector	**2**		

9	Large roof bracket	**4**		
10	Small roof bracket	**12**		
11	Support bracket	**4**		
12	Clamp	**4**		
13	Wind deflector	**1**		

14	Wind deflector cover	**1**	
15	Flange nut M6 DIN 6923	**4**	
16	T-slot M6 nut	**5**	**or**
17	Flange nut M8 DIN 6923	**44**	
18	Hex Bolt M6x12 ISO 7380-2	**5**	
19	Bolt M6x16 ISO 7380-2	**28**	
20	Bolt M8x25 ISO 7380-2	**76**	
21	T-Bolt M8x20	**8**	
22	Plastic retaining clips	**10**	
23	Rubber Edge protection	**1 mb**	

![Bison Gear logo] **BISON GEAR**

⚒ List of necessary tools[1]:

- **TX30 Torx key**
- **4 mm Allen Key (Hex)**
- **5 mm Allen Key (Hex)**
- **10 mm wrench**
- **13 mm wrench**
- **cutters**
- **hammer**
- **wipe**
- ***(optional) torque wrench**

⚒ Torque settings:

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

Torque Settings:

M5
4 Nm
3 ft-lbs

M6
6 Nm
4.5 ft-lbs

M8
12 Nm
9 ft-lbs

---
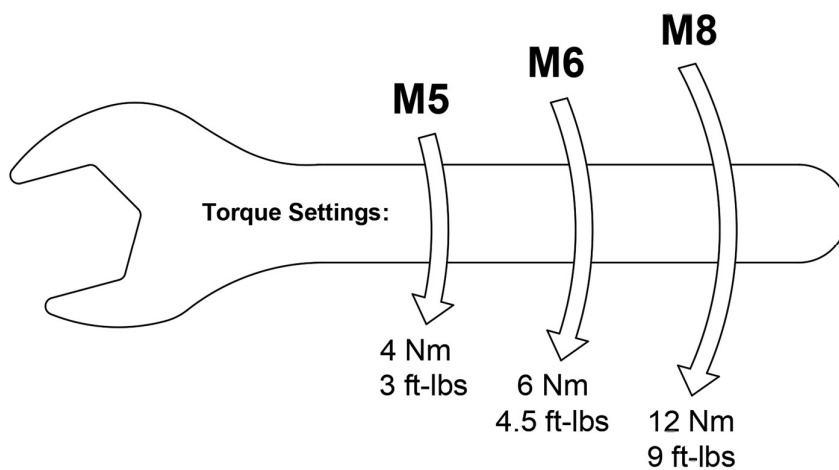
[1] NOTE: The tools **are not** the part of the set.

Roof rack - Diagram 1/4

A

M6x12 flange bolt

T-slot nut M6

A

M6 flange nut

M6x16 flange bolt

D

D

M8x25 flange bolt

M8x25 flange bolt

M8x25 flange bolt

M8x25 flange bolt

B

E

C

M8 flange nut

C

M8 flange nut

M8x25 flange bolt

B E

Roof rack - Diagram
3/4

M6x16 bolt

A

M8x25 flange bolt

E

E

M8x25
flange bolt

T-slot bolt
M8x20

M8 flange bolt

B

A

D

A

D

M8 flange nut

B
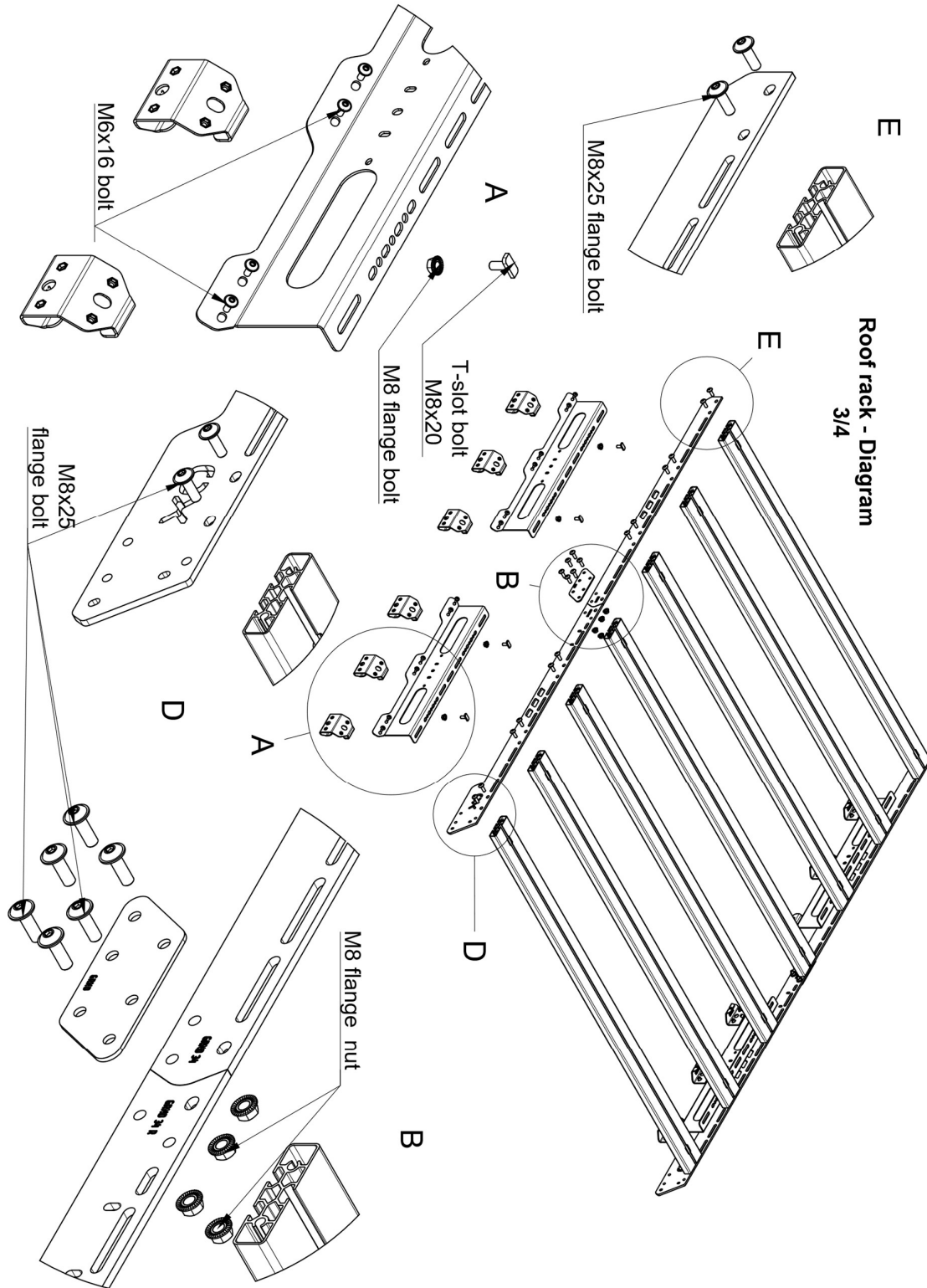
⚙️ Installation:

Before you begin, review the **Roof Rack Diagram** on **pages 7** and **8**.

The exploded views illustrates how to assemble and mount the roof rack parts.

The roof rack consists of two sections: a large section (¾ of the total length) and a small section (¼ of the total length). The larger section forms the main part of the rack, while the smaller section serves as an extension.

The following steps will describe how to join the two parts together and then proceed with the installation of the complete roof rack onto the vehicle.

The Roof Rack is a 2-in-1 design – it can be used as a standard front wind deflector or with an 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. This transforms the roof rack into the standard version. The choice is yours, and you can switch between versions at any time.

The set also contains 2 additional T-slot M6 nuts and 2 M6×12 flange hex bolts for LED bar installation.

Follow the steps below to install product correctly:

1. Start by preparing the product parts and gathering the necessary tools.

2. Assemble the small connectors and rails using **M8x25 bolts** and **M8 flange nuts** (assemble both the left and right sides of the roof rack). The front rails are side-specific and are marked with **L** (left) or **R** (right). Only pre-screw the bolts.

Front rail – left side

Front rail – right side

M8 flange nut

M8x25 flang bolt
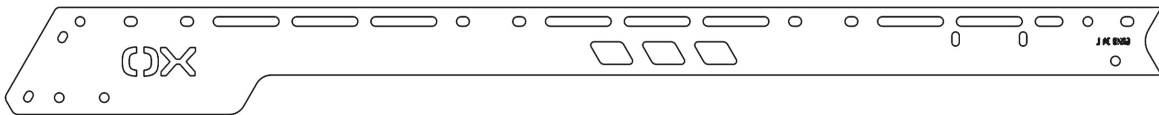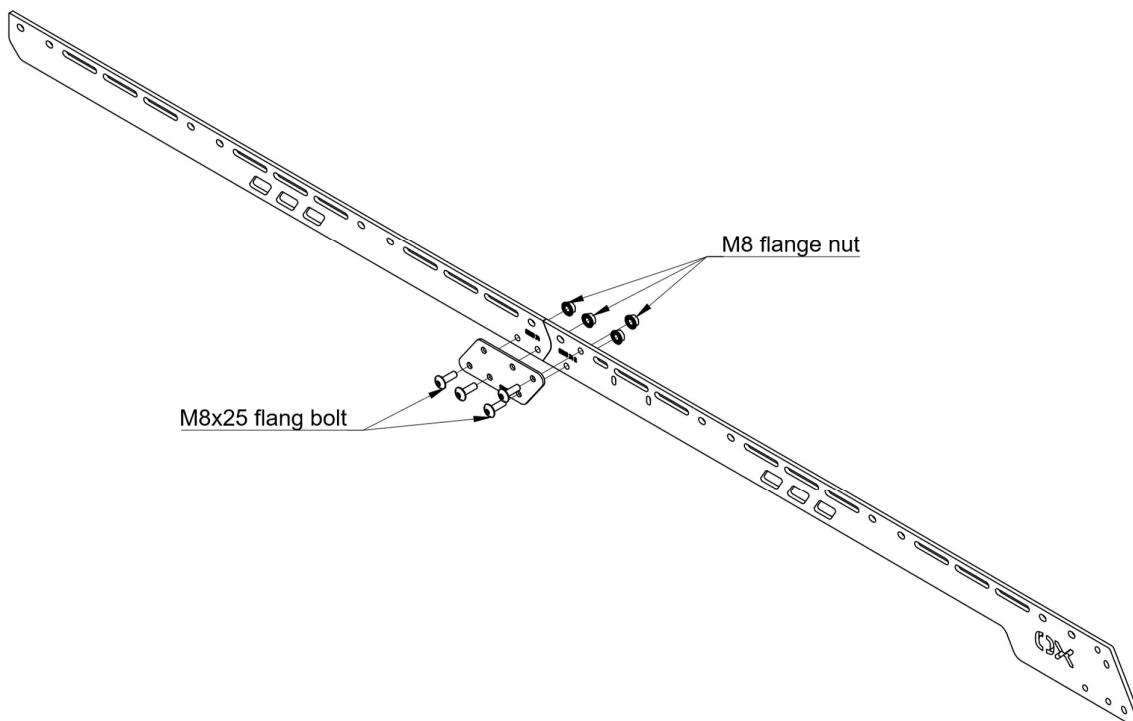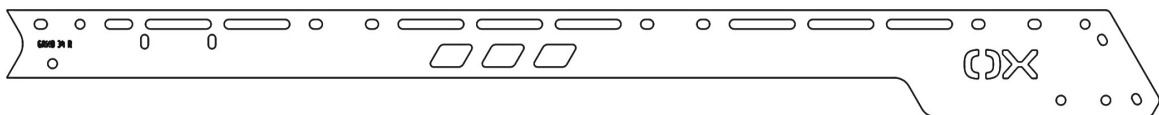
(Picture illustrate the right side of the roof rack rail, the left side is a mirror view)

3. Assemble the side parts of the roof rack with the crossbars using **M8x25 bolts**. At first, only pre-screw all bolts. It is recommended to mount the roof rack upside down on a flat surface to ensure the top side is perfectly flat.
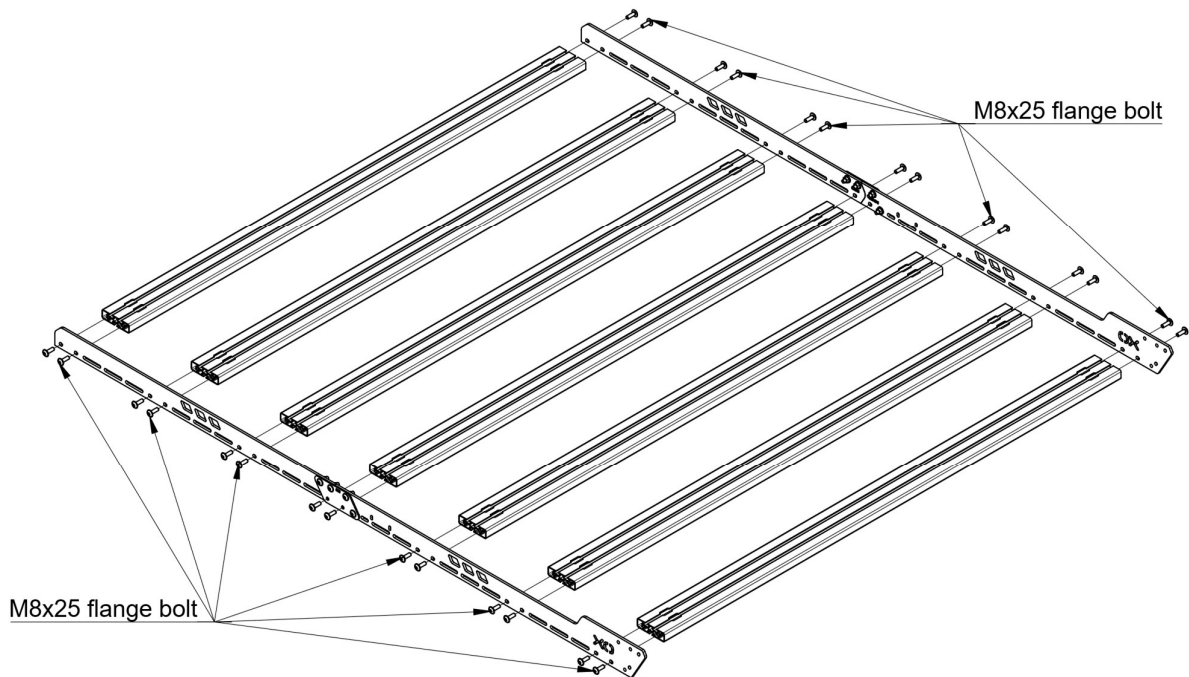
 ***Important

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.

M8x25 flange bolt

M8x25 flange bolt

4. Pre-screw the large roof brackets. Use the **T-bolts M8x20** and **M8 flange nuts**. (the crossbars has a special hole on the slot which able to slide the T-Bolts into the slot.) The position of the large brackets is illustrated below. Pre-screw all four brackets (two on the left and two on the right side of the roof rack).

2

1

M8 flange nut

T-Bolt M8x20

M8 flange nut

T-Bolt M8x20

3

4

4

3

M8 flange nut

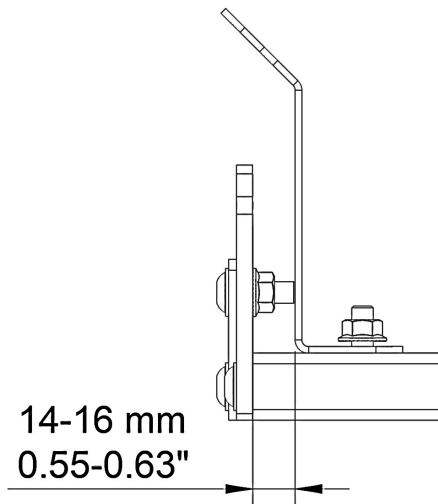T-Slot M8x20

M8 flange nut

T-Slot M8x20
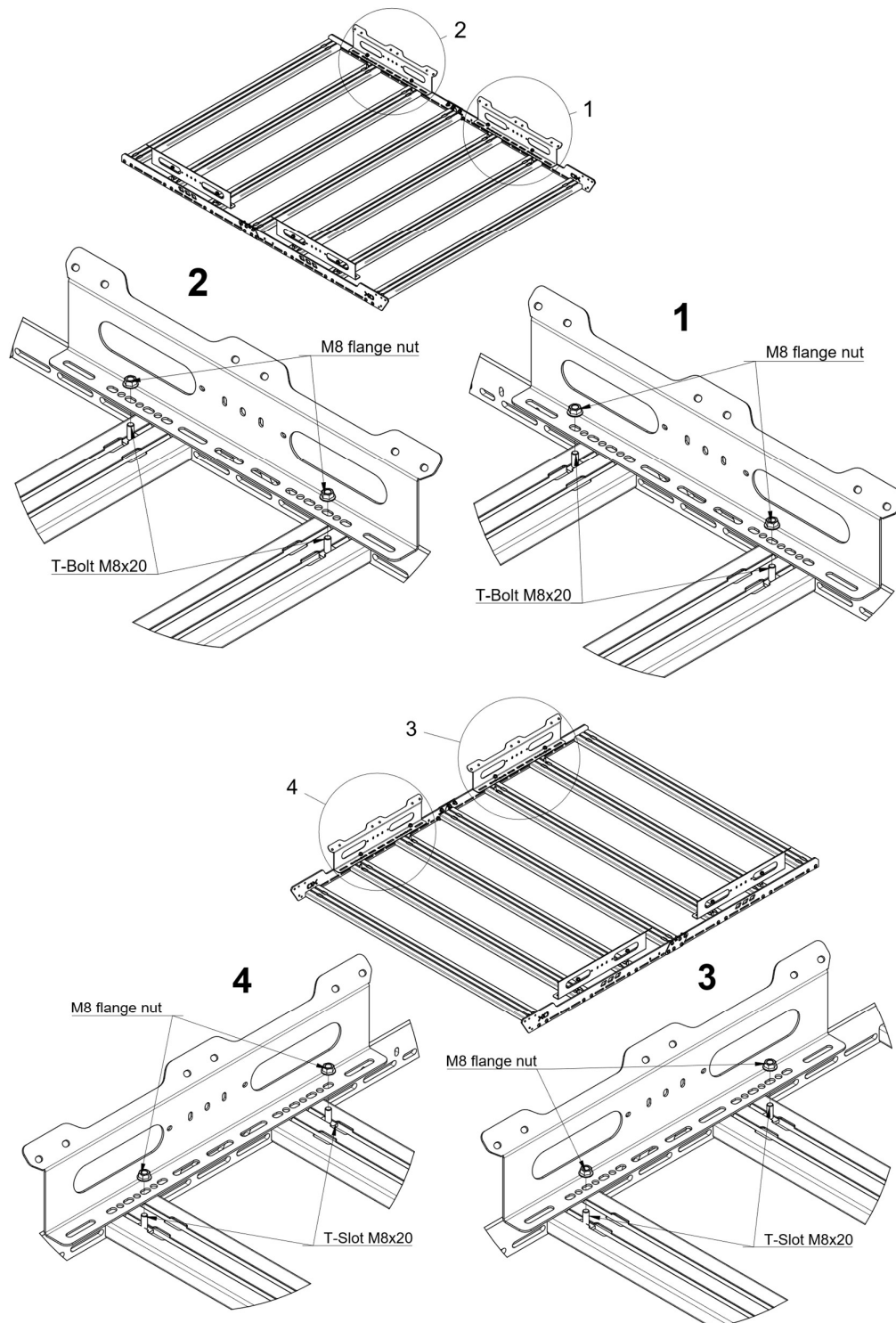
5. Before tightening fully, adjust the distance between the large roof bracket and the railings to **14–16 mm (0.55”–0.63”)**, then slightly tighten the nuts so the bracket stays in place but can still be fine-tuned; the main tightening should be done after placing the rack on the roof

14-16 mm
0.55-0.63"

6. Trim the rubber edge protection to the required length, then carefully place it over the support brackets and clamps, ensuring it fits securely and fully covers all sharp edges to prevent damage.
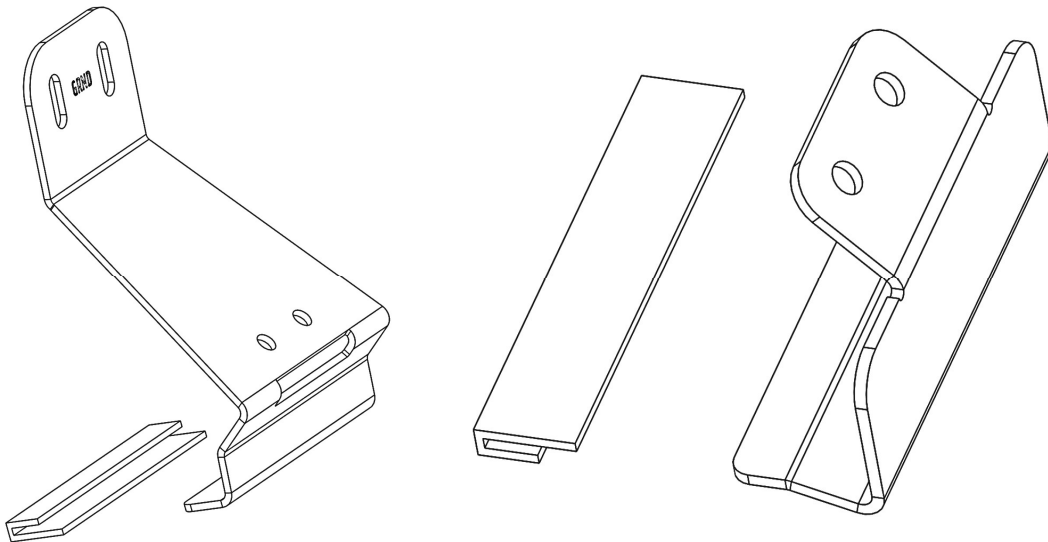
7. Assemble the side parts of the ¼ roof rack part with the crossbars using **M8x25 bolts**. At first, only pre-screw all bolts. It is recommended to mount the roof rack upside down on a flat surface to ensure the top side is perfectly flat.

***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.

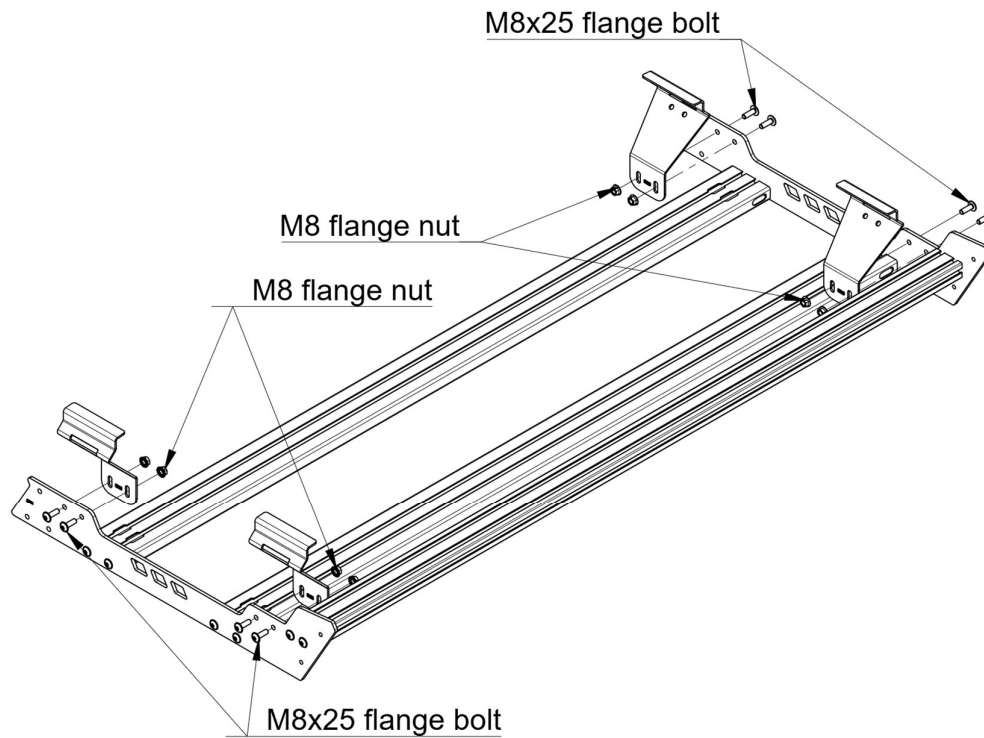M8x25 flange bolt
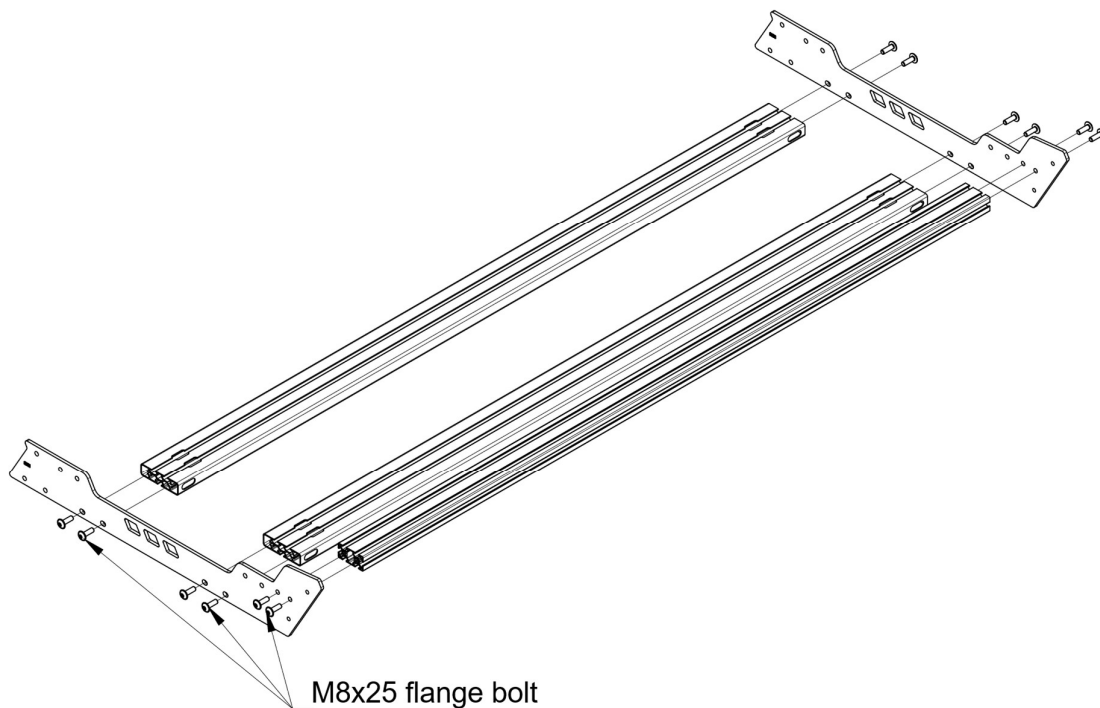
8. Pre-screw the support brackets to the side rails using **M8x25 bolts** and **M8 flange nuts.**

   The bolts should be tighten after installing on the roof.

M8x25 flange bolt

M8 flange nut

M8 flange nut

M8x25 flange bolt

9. *****(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.

Plastic clip
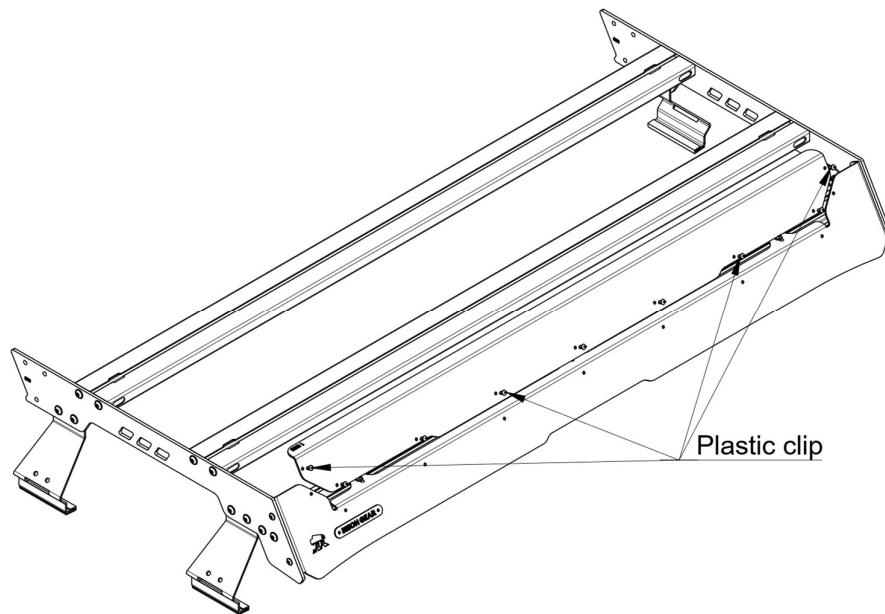
10. Join together the small part (¼) and the large part (¾) of the roof rack. Use large connectors, M8x25 flange bolts, M8 flange nuts.

M8x25 flange bolt

Flange nut M8

F

F
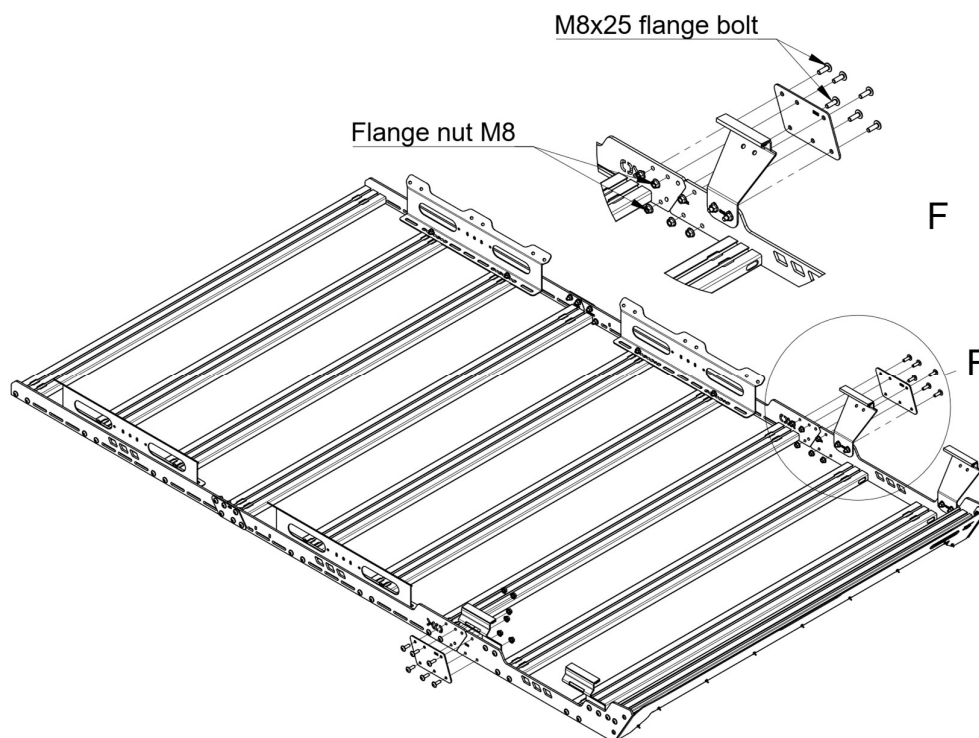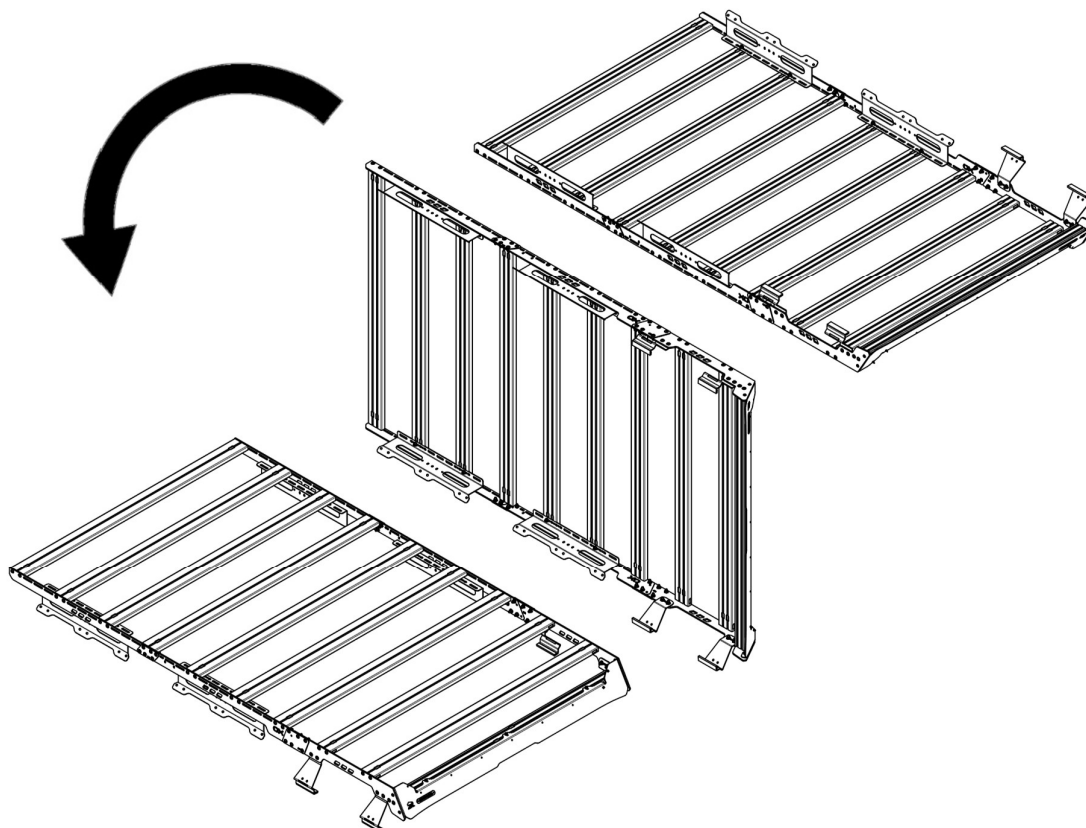
11. Make sure that top surface of the roof rack is perfectly flat. Tighten the bolts and nuts.

12. Turn the roof rack backside down.

13. The roof rack preparation is done. The next part of instruction refers to installation on the car. Before you starts prepare some parts:

- Clamps
- M8x25 flange bolts
- M8 flange nuts

- Small roof brackets
- M6x16 flange bolts

14. Remove the factory bolts from the roof bars using a TX30 bit or screwdriver, then install the small roof rack brackets with the same bolts, repeating the process for all **12 brackets**.
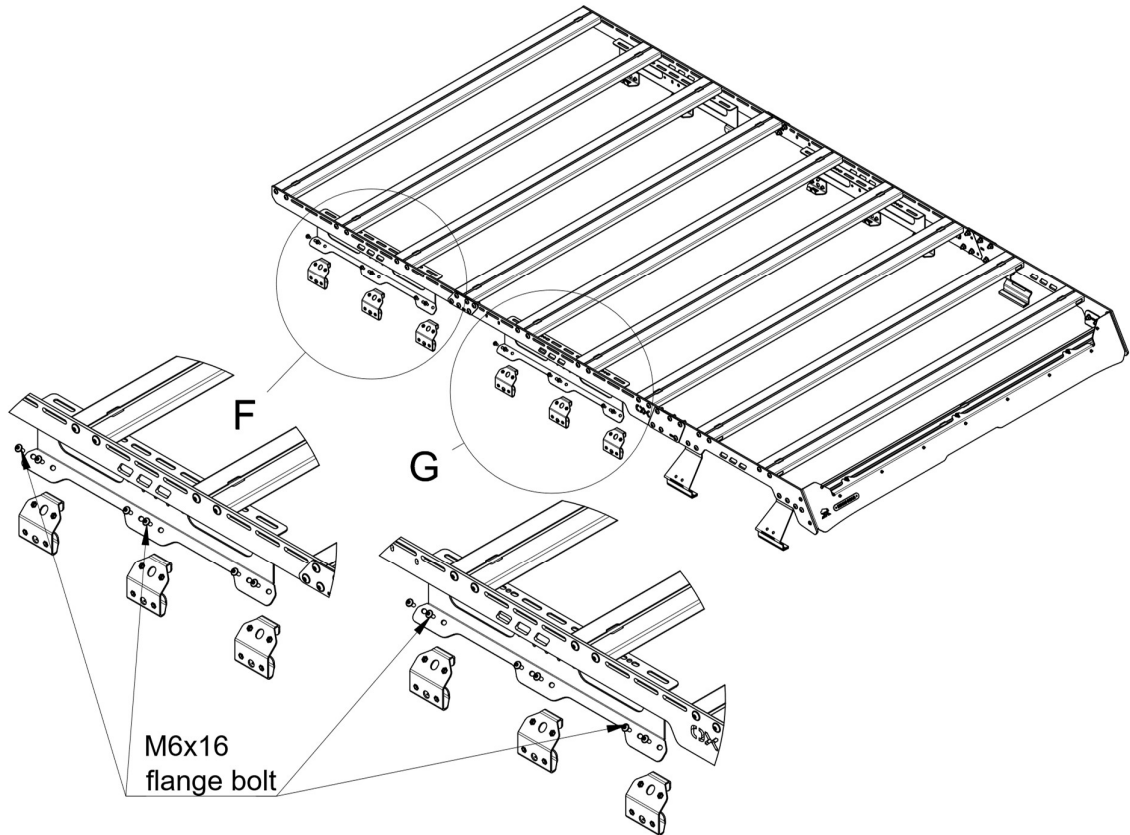

15. Tighten the bolts.

*** Important!

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

16. Place the roof rack on the roof and pre-screw the large bracket to the previously installed small bracket using **M6x16 flange bolts**.
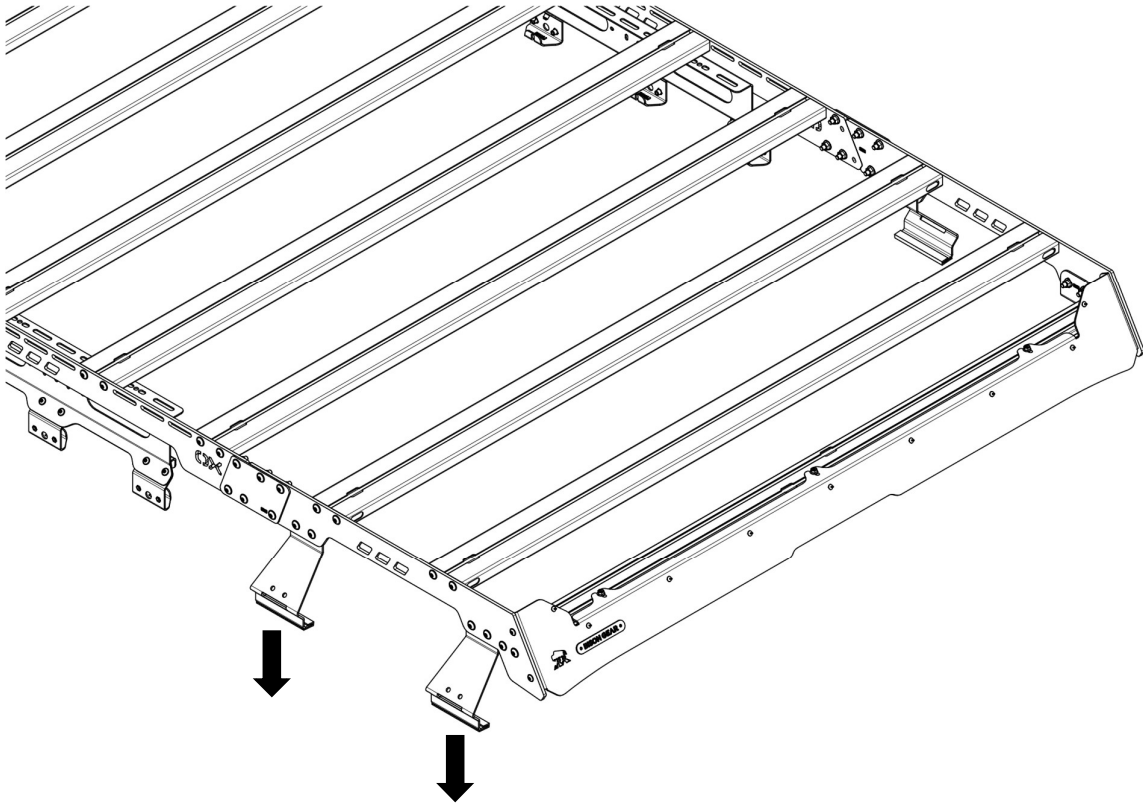

M6x16 flange bolt

F

G

17. Tighten the **M6x16 flange bolts**.

18. Adjust the front support brackets by placing them on the car's gutter under tension to support the roof rack, then secure with **M8x25 flange bolts** and **nuts**.
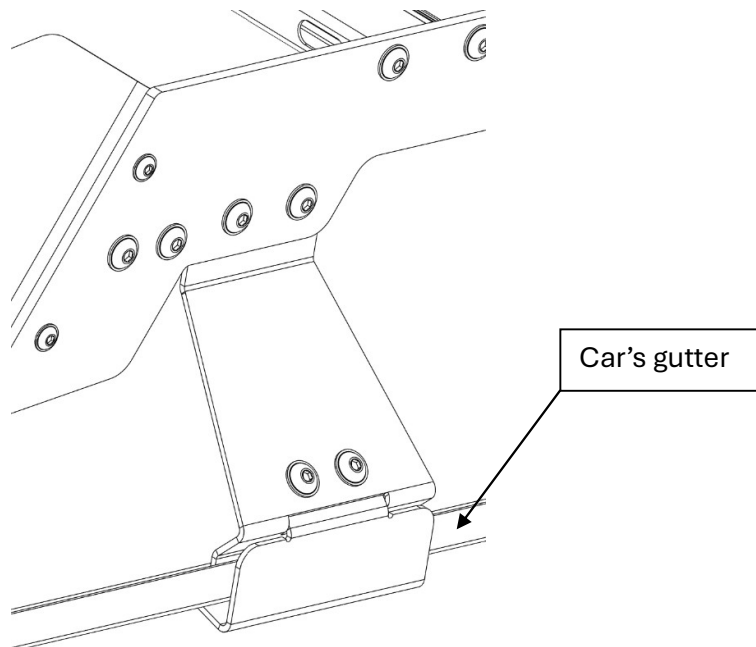
BISON GEAR

19. Place **the clamp** on the each support bracket and screw it using **M8x25 flange bolts** and **M8 nuts**. (The clamp should be inserted into the slot of the bracket).

M8x25 flange bolt

H

M8 flange nut
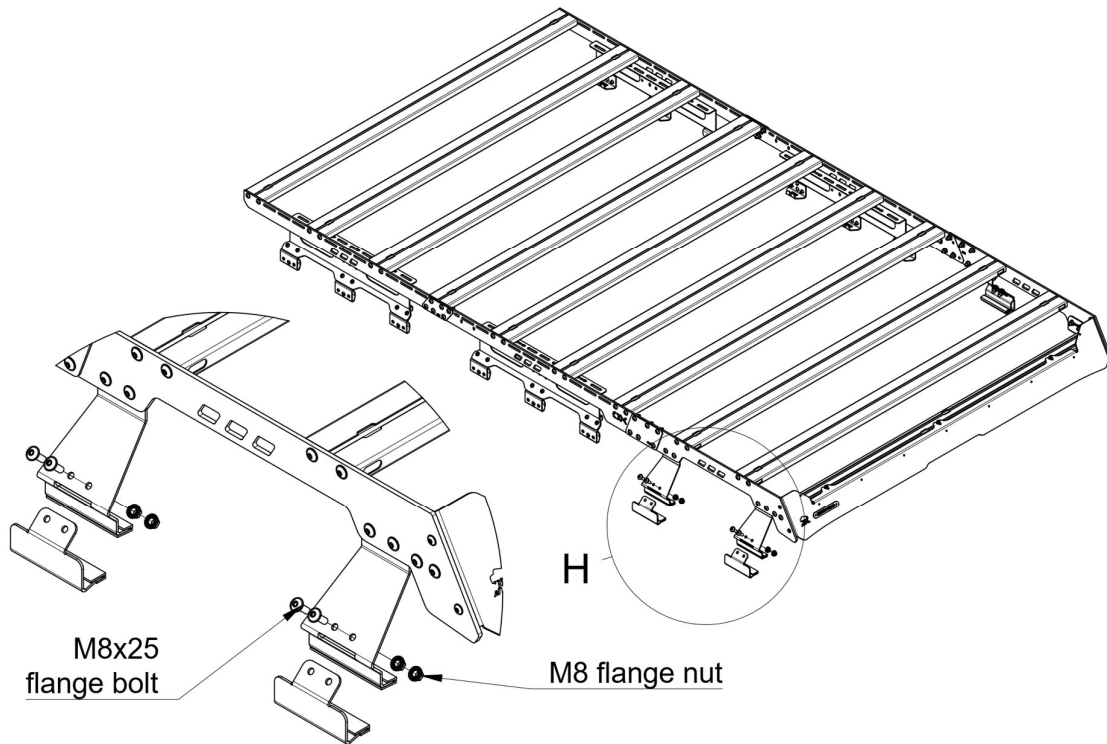
After assembly

Car's gutter

20. Tighten the bolts.

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

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

Have a great time with Bison Gear product!

Email: **contact@bison-gear.com**

Phone: **+48 505 642 981**

V.02.09.2025 (PK)