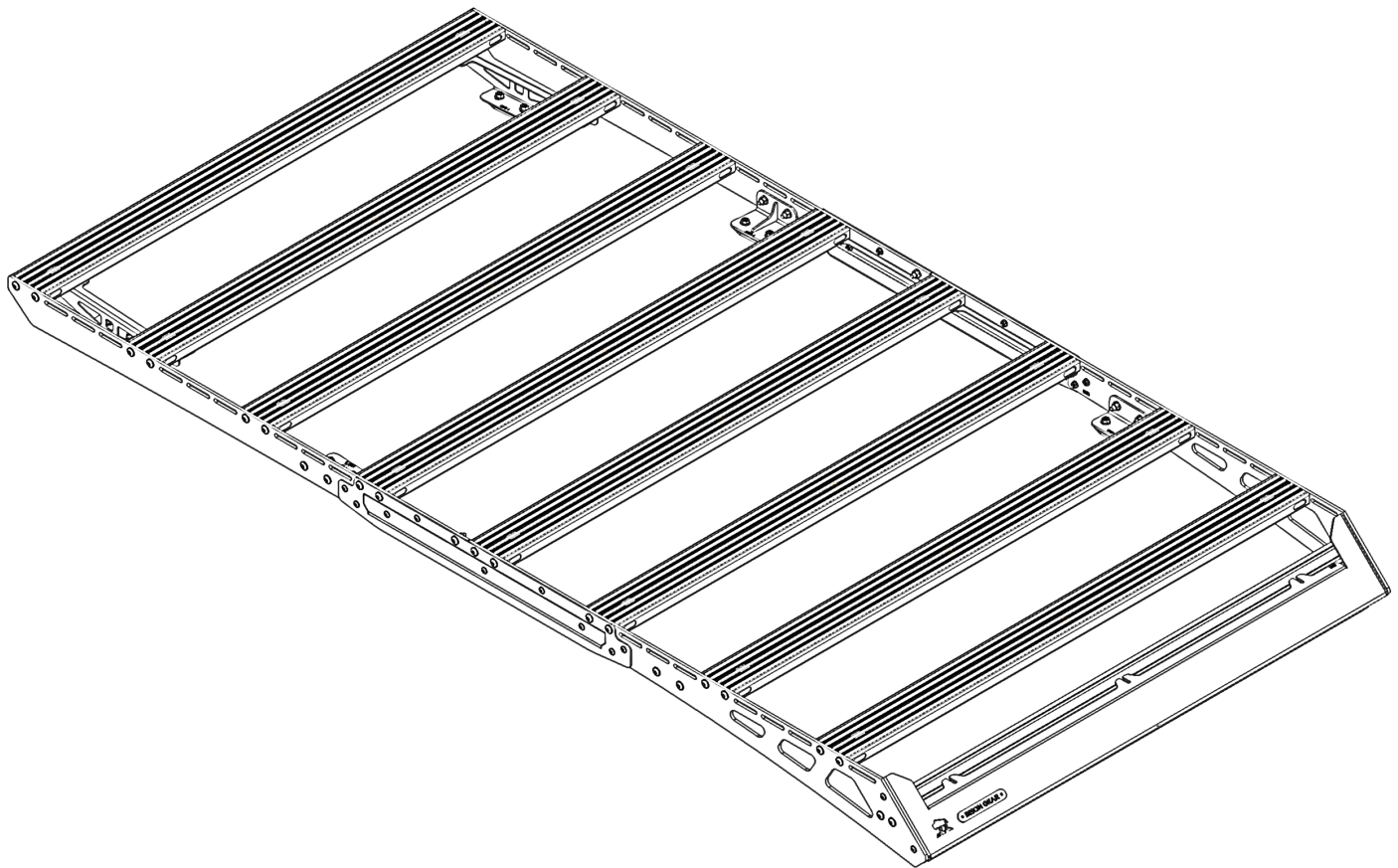




**BISON GEAR**

# Land Rover Defender L663 – 110 Roof Rack - LED Installation Guide

**RR-L663-OX-LED**



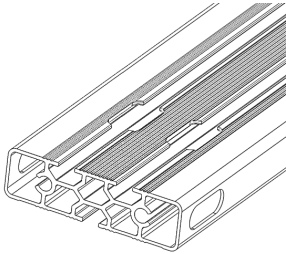
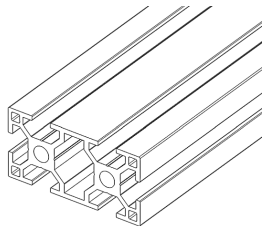
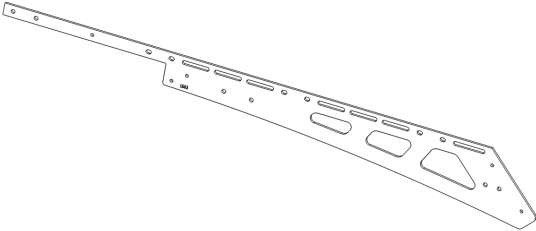
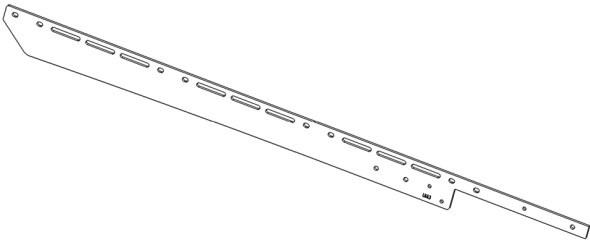


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## Before you start

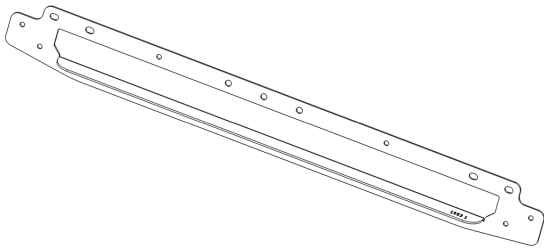
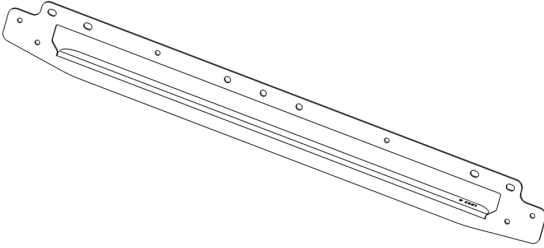
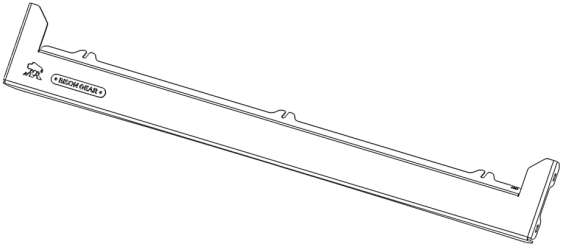
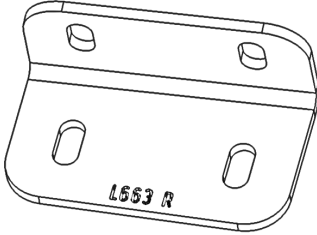
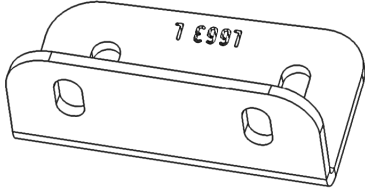
Familiarize yourself with these instructions. Ensure that all listed parts and hardware are present in package. Locate a flat surface or floor with a minimum area of **3 x 2.5 meters**. Gather the required tools. The installation requires two adult people.

## 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		
4	Back rail	2		

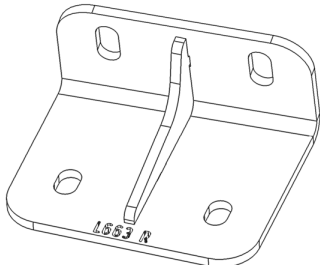
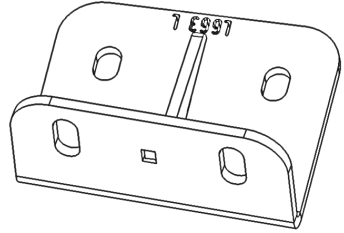
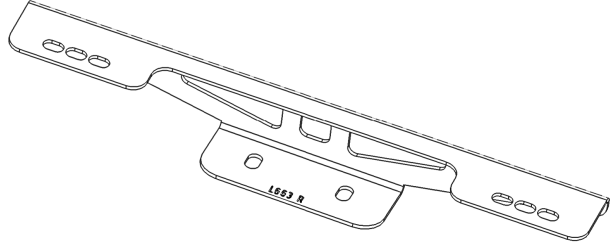
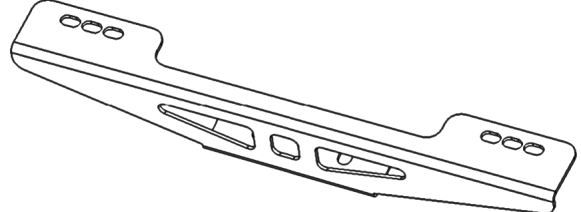
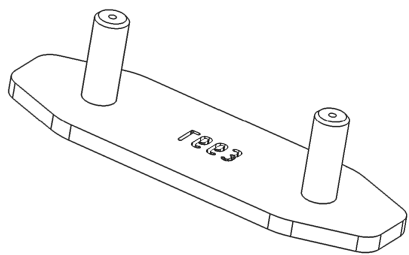


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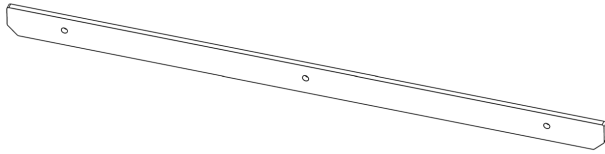
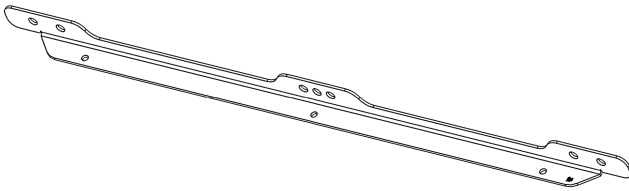



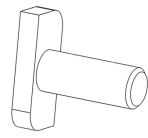
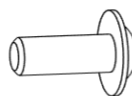
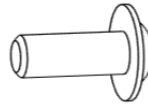
5	Overlayer L	1		
6	Overlayer R	1		
7	Wind deflector	1		
8	Front roof bracket R	1		
9	Front roof bracket L	1		



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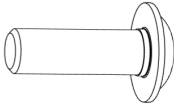
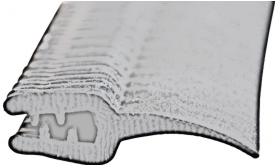

10	Middle roof bracket R	1		
11	Middle roof bracket L	1		
12	Back roof bracket R	1		
13	Back roof bracket L	1		
14	Slot bracket with thread pins	6		



15	Railing gap cover	2		
16	Support bracket	2		
17	Flange nut M6 DIN 6923	22		
18	T-slot M6 nut	5	 or	
19	Flange nut M8 DIN 6923	32		
20	T-Slot M8x20 bolt	10		
21	Bolt M6x12 ISO 7380-2	5		
22	Bolt M6x16 ISO 7380-2	22		



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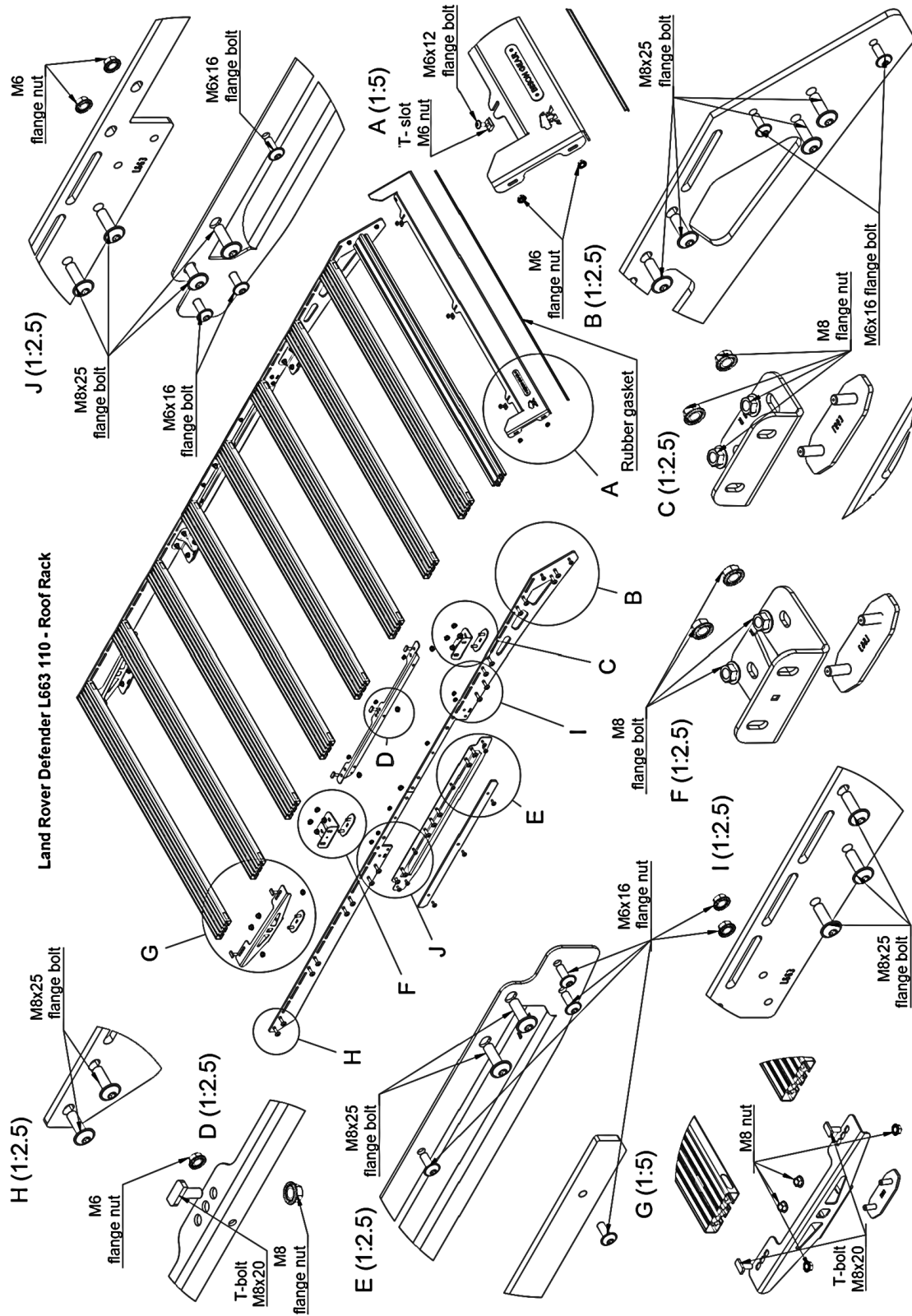
23	Bolt M8x25 ISO 7380-2	46		
24	Rubber wind deflector gasket	1.2 m		
25	Protection tape	1.4 m		

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

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

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<sup>1</sup> NOTE: The tools **are not** included in the set.





## Installation:

Before you start to work, familiarize with the **Roof Rack Diagram** on **page 7**. There is an exploded view that shows you how to mount the roof rack parts together.

The roof rack is prepared for 42" led bar mount (the set contains additional crossbar and T-slot M6 nut and M6x12 flange bolts).

Follow the steps below to install product correctly:

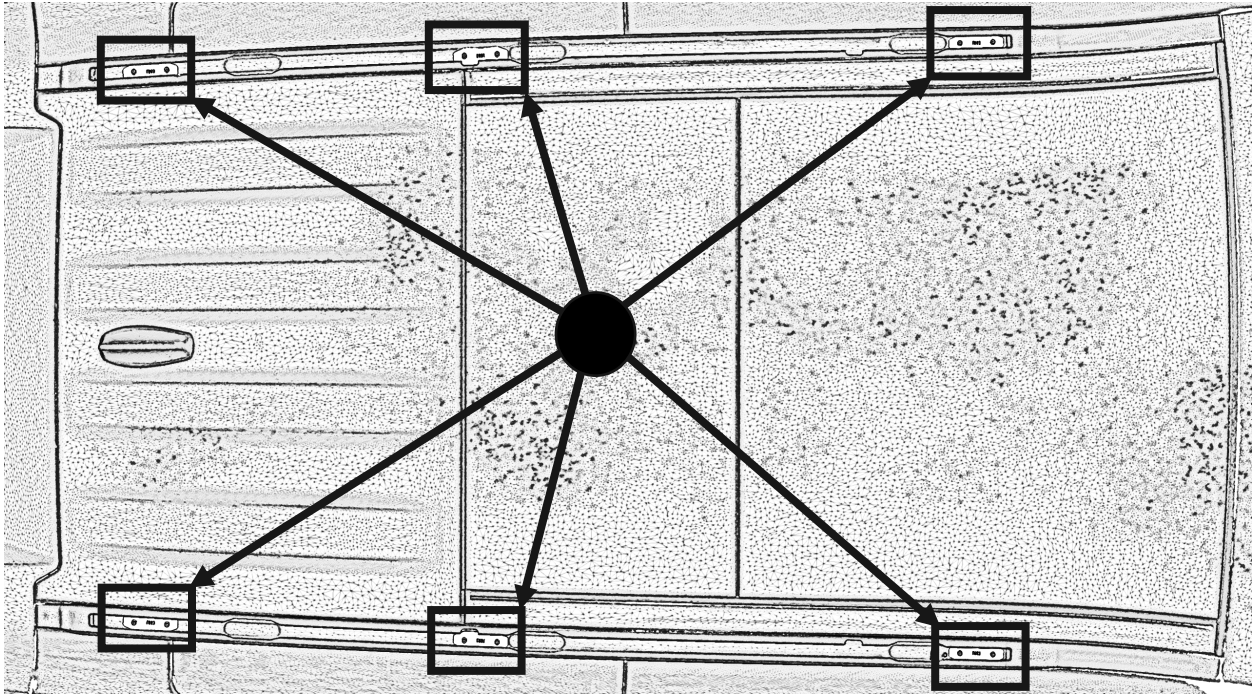
1. Start by preparing the product parts and gathering the necessary tools.
2. Place and trim if necessary the **rubber gasket** on the wind deflector.
3. Assemble the **overlayers** and **rails** together using **M6x16** bolts and **M6 flange nuts**. (Assemble the left and the right side of the roof rack).
4. Assemble the **previously prepared side parts of the roof rack and crossbars** together on the ground or other flat space using **M8x25 bolts**. The third and fifth (looking on the front of roof rack) 90x25 crossbars should be installed with the two-slot side down. (**Tip:** Slide three **T-slot M6 nuts** to the first slot in the 60x30 profile before you screw it to the rails.)
5. Install the **wind deflector** to the rack using **M6x16 bolts, M6 nuts, T-slot M6 nuts and M6x12 bolts**.
6. Make sure that rails are straight and tighten all the bolts.
7. Slide the **T-Bolts** into the 3rd, 4th, 5th 90x25 crossbar, place the **support brackets** and pre-screw them using **M8 flange nuts**.





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8. Place and screw the **railing gap covers** to the support bracket using **M6x16 bolts** and **M6 nuts**.
9. Face the **railing gap covers** with **the overlayers** and tighten **M8 nuts**.
10. \*\*\* If You have on the roof some items like – railings, roof rack or other items, you need to remove them off before starts mounting the roof rack.
11. Pre-screw 4 brackets (**2 x front brackets, 2 x middle brackets**) to the construction using **M8x25 bolts** and **M8 nuts**. (Mounting brackets are marked – **L** for the left side, **R** for the right side)
12. Pre-screw 2 **back brackets** to the construction using **T-slot M8x20 bolts** and **M8 nuts**. Slide the **T-bolt** into the crossbar slots. If it possible, mount the bracket in the most external slots. (Mounting brackets are marked – **L** for the left side, **R** for the right side)
13. Slide the slot brackets with threaded pins into the factory railing slots. The initial position of the bracket are shown in the picture below. Try to set the brackets in that areas of the roof.



14. In the next step you must have assist of **minimum one adult person** who help you put the whole construction on the roof. Before you start, prepare **M8 flange nuts**.

15. Place the roof rack on the roof.

### **! Important**

The set includes the 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.

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

17. Pre-screw the **roof rack** to the car using **M8 flange nuts**.



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18. Adjust the **position** of the roof rack – it should be on the center of the car.
19. Tighten **all the bolts** and **nuts**.

Make sure that everything is mounted properly, and all the bolts, nuts 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.**



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



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