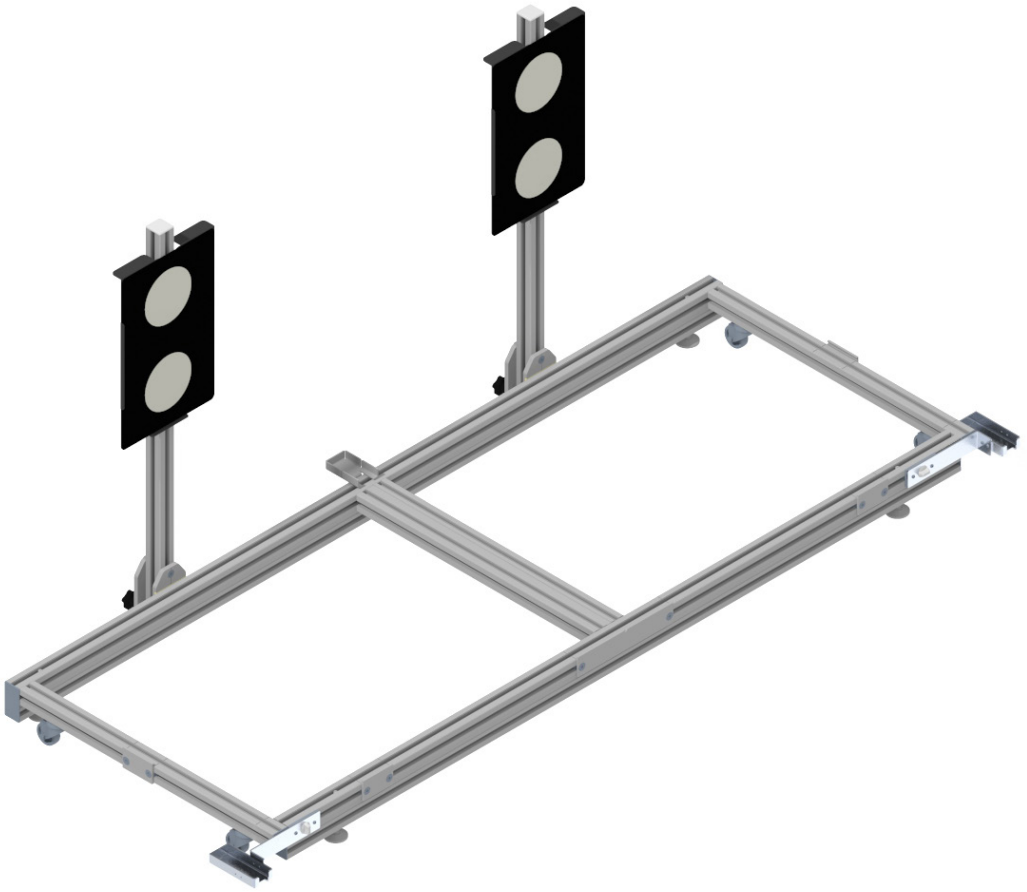
ACS



TEXA

Rev. 02

en

SUMMARY

ACS CALIBRATION UNIT ASSEMBLY INSTRUCTIONS

REVISION OF THE MANUAL

This document is **revision02** of the assembly instructions for **ACS**.
Issue date: 04/11/2019

INTRODUCTION

Dear Customer,

We would like to thank you for choosing a TEXA product for your workshop.

We are certain that you will get the greatest satisfaction from it and receive a great deal of help in your work.

Please read through the instructions in this manual carefully and keep it for future reference.

Reading and understanding the following manual will help you to avoid damage or personal injury caused by improper use of the product to which it refers.

TEXA S.p.A reserves the right to make any changes deemed necessary to improve the manual for any technical or marketing requirement; the company may do so at any time without prior notice.

This product is intended for use by technicians specialised in the automotive field only. Reading and understanding the information in this manual cannot replace adequate specialised training in this field.

The sole purpose of the manual is to illustrate the operation of the product sold. It is not intended to offer technical training of any kind and technicians will therefore carry out any interventions under their own responsibility and will be accountable for any damage or personal injury caused by negligence, carelessness, or inexperience, regardless of the fact that a TEXA S.p.A. tool has been used based on the information within this manual.

Any additions to this manual, useful in describing the new versions of the program and new functions associated to it, may be sent to you through our TEXA technical bulletin service.

This manual should be considered an integral part of the product to which it refers. In the case it is resold the original buyer is therefore required to forward the manual to the new owner.

Reproduction, whole or in part, of this manual in any form whatsoever without written authorization from the producer is strictly forbidden.

The original manual was written in Italian, every other language is a translation of the original manual.

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1 SAFETY RULES

The calibration unit must be assembled by qualified personnel, expert in mechanical installations.

The personnel in charge of assembling the calibration unit must wear the necessary safety equipment at all times during the assembly.

The calibration unit must be mounted in a suitable environment (e.g. workshop).

The calibration unit must be mounted following the indications and procedure provided in this document.

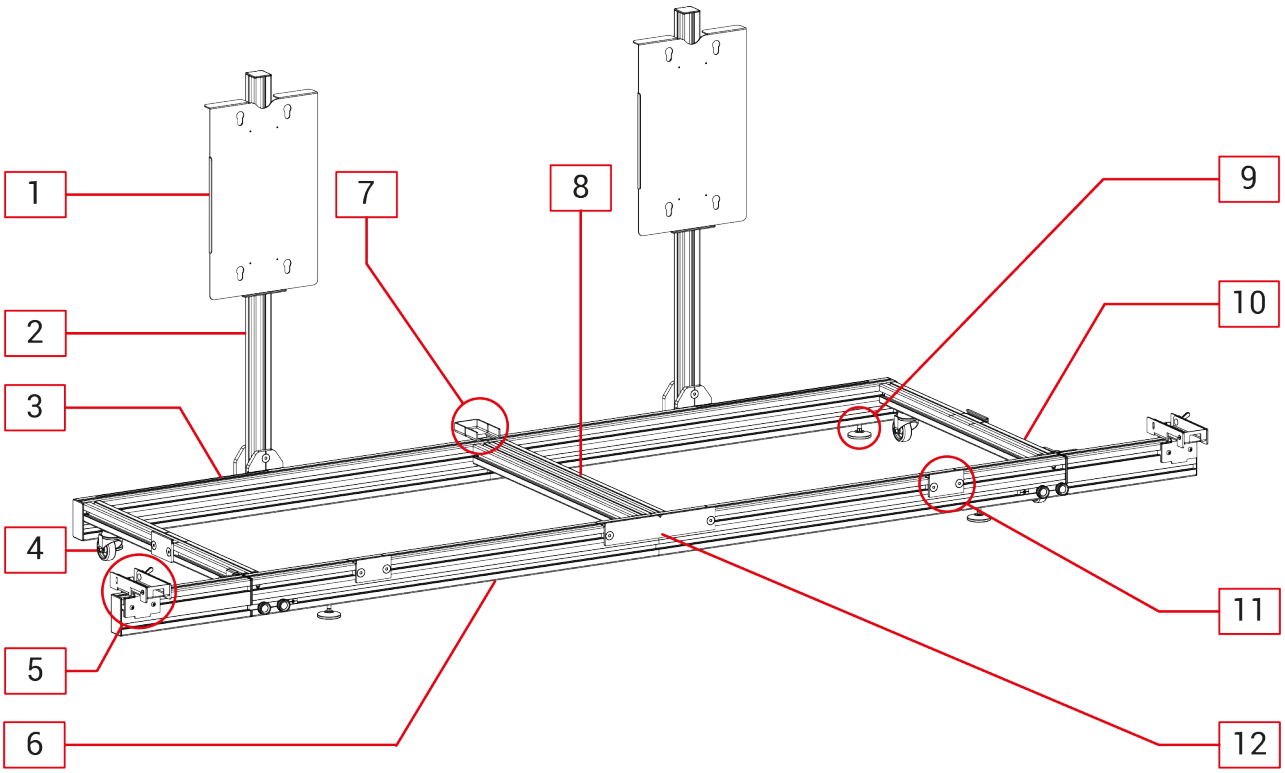
When assembling the calibration unit, you should only use the components supplied.

When assembling the calibration unit, you should only use tools (screwdriver, hex key, etc.) that are suitable for the component that is being assembled.

1.1 Legend

	Indicates an important information or a particular that must be paid attention to.
	Indicates a potentially dangerous operation, for which the utmost attention must be paid, in order not to cause damage to yourself or the equipment.
	Indicates an operation for which at least two people are required.

2 ITEM LIST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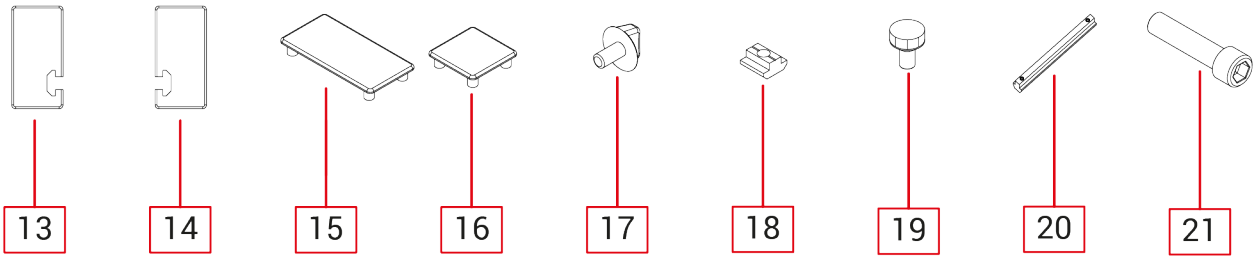
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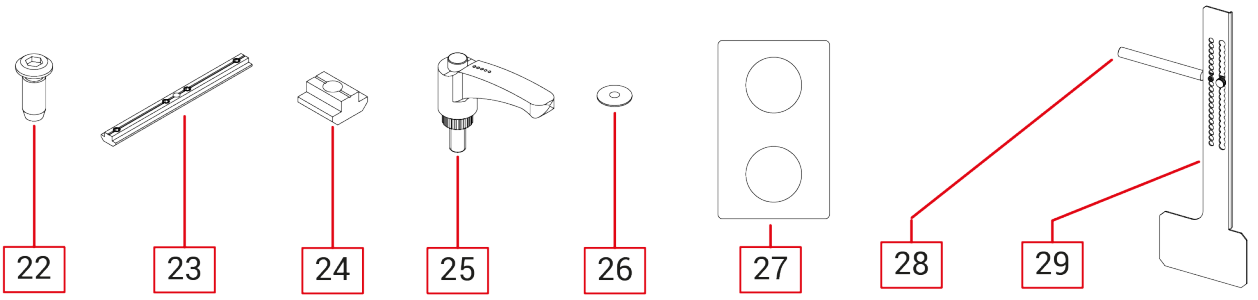
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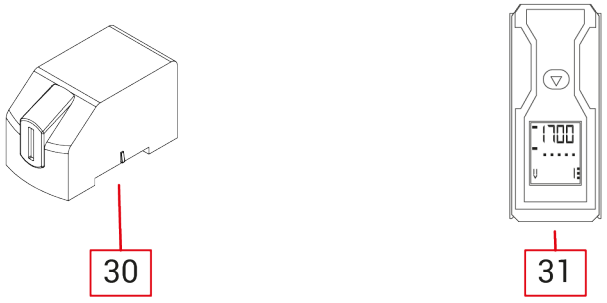
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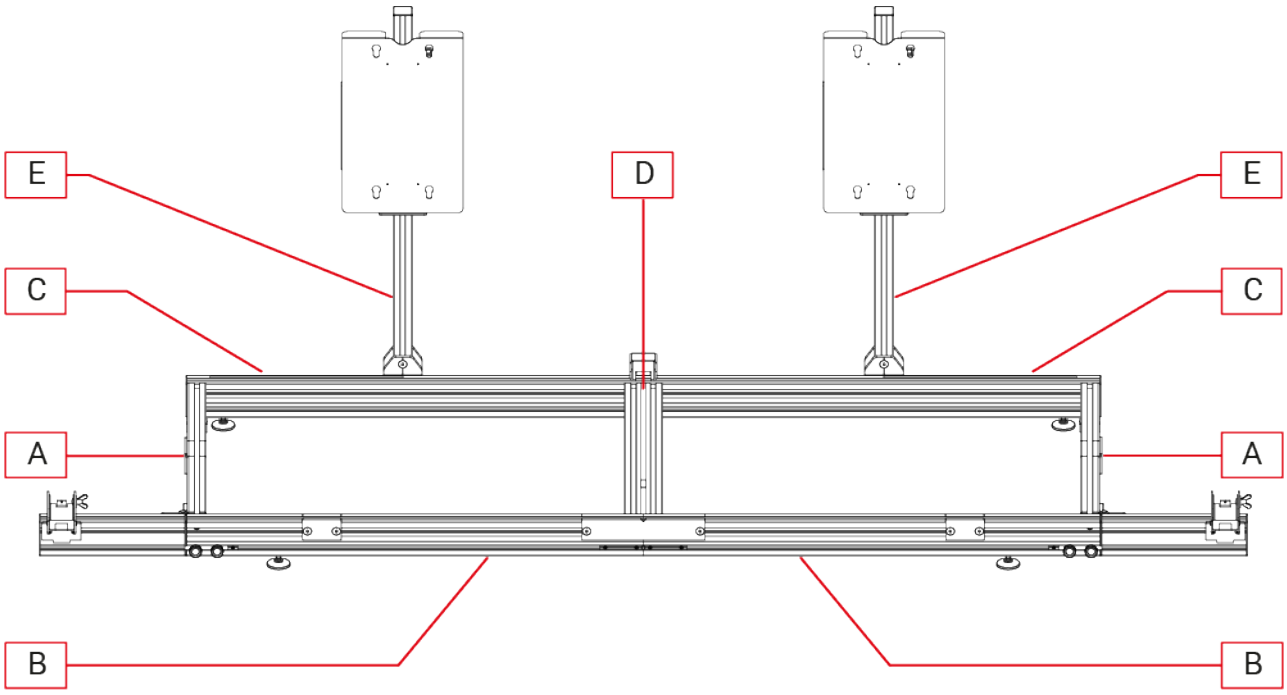
Item	Name	Notes	Qty.
1.	Doppler Simulator support panel	--	2
2.	Bar [E]	L = 900	2
3.	Bar [C]	L = 948 mm (with millimetre scale)	2
4.	Castor	--	4
5.	Laser telemeter support	--	2
6.	Bar [B]	L = 948 mm	2
7.	Laser level support	--	1
8.	Bar [D]	L = 642 mm	1
9.	Levelling foot	--	1
10.	Bar [A]	made up of two parts connected by a hinge: L1 = 948 mm L2 = 300 mm	2
11.	Plate [P1]	L = 80 mm	4
12.	Plate [P2]	L = 256 mm	1
13.	Cap [T1]	--	2
14.	Cap [T2]	--	2
15.	Cap [T3]	--	4
16.	Cap [T4]	--	2
17.	Screw [V4]	Teflon	2
18.	Nut [D1]	M8	1
19.	Screw [V3]	--	4
20.	Joint [G2]	L = 90 mm	2
21.	Screw [V2]	M12x50	4
22.	Screw [V1]	M12x30	4
23.	Joint [G1]	L = 180 mm	2
24.	Nut [D2]	M8x10	2
25.	Clamping lever with threaded pin	M8	2
26.	Washer	--	2
27.	Magnetic panel	Code 3908811	2
28.	Cylindrical pin	--	2
29.	Target	--	2
30.	Laser level	--	1
31.	Laser telemeter	--	2

3 ASSEMBLY PROCEDURE

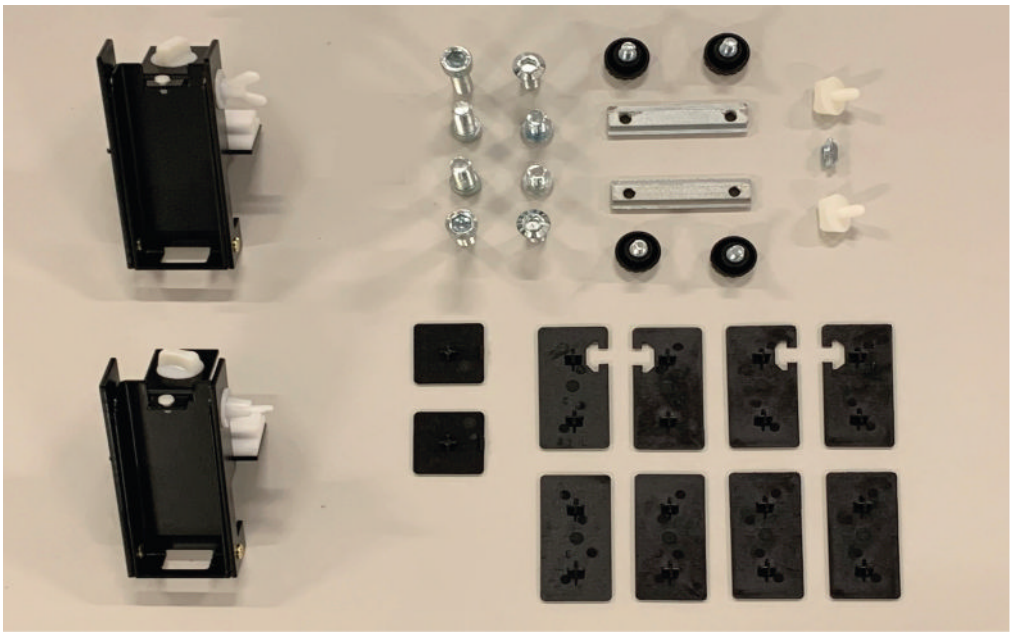
Position of the bars that make up the unit



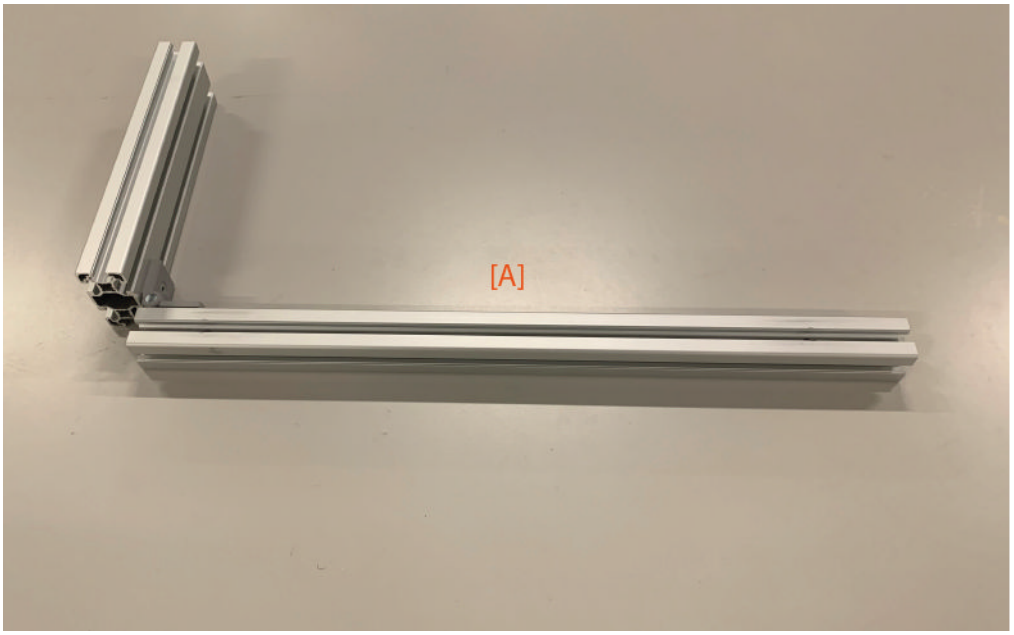
Assembly

1.Place all the items contained in the package on a clean and suitable surface or on the ground.

! Use the item list to make sure that no parts are missing.

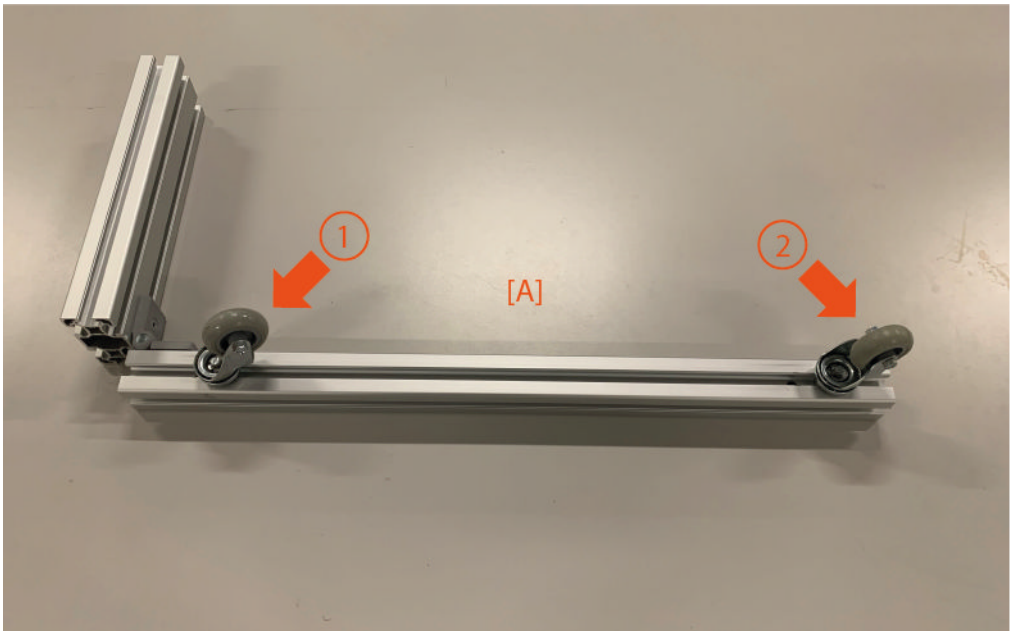


2. Lay out one bar **[A]** as illustrated.

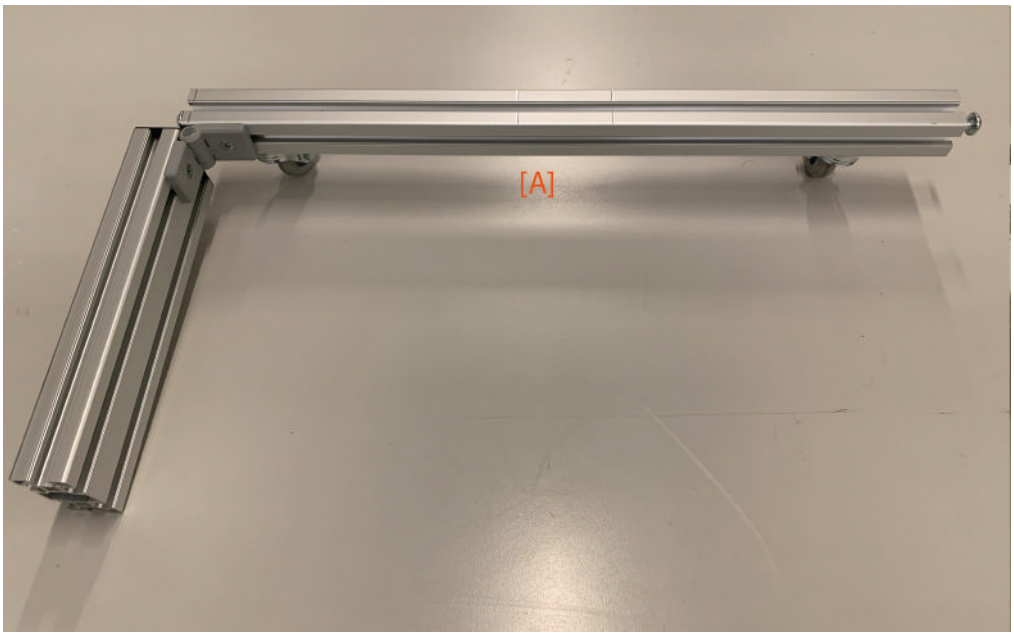


3. Insert the nut of one of the castors into the groove on the bar **[A]** securing it in correspondence of the hole closest to the hinge.

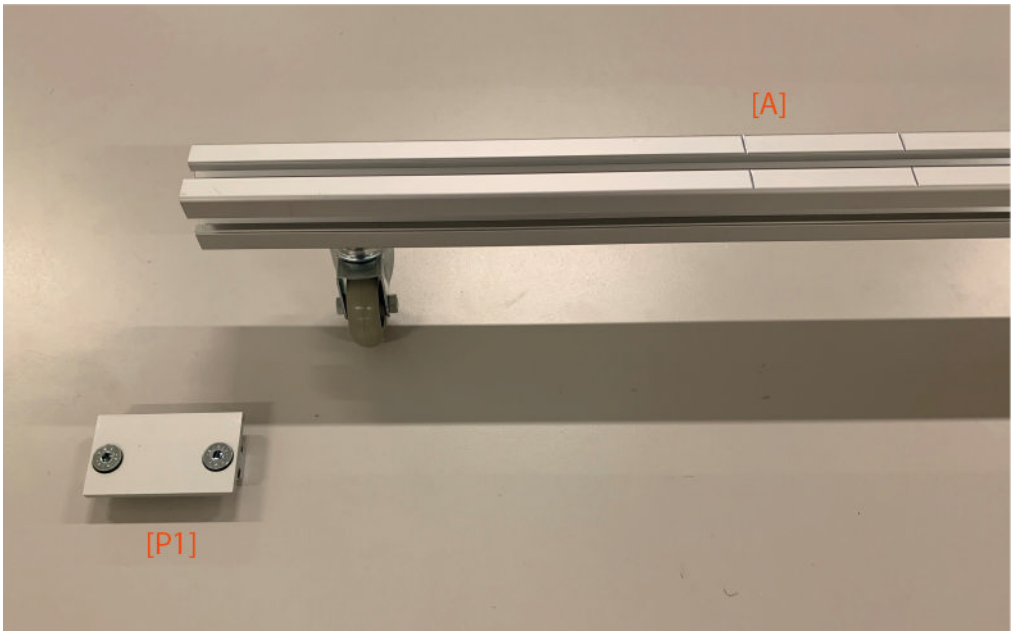
4. Secure a second castor in correspondence of the second hole and repeat the operations described at step 3.



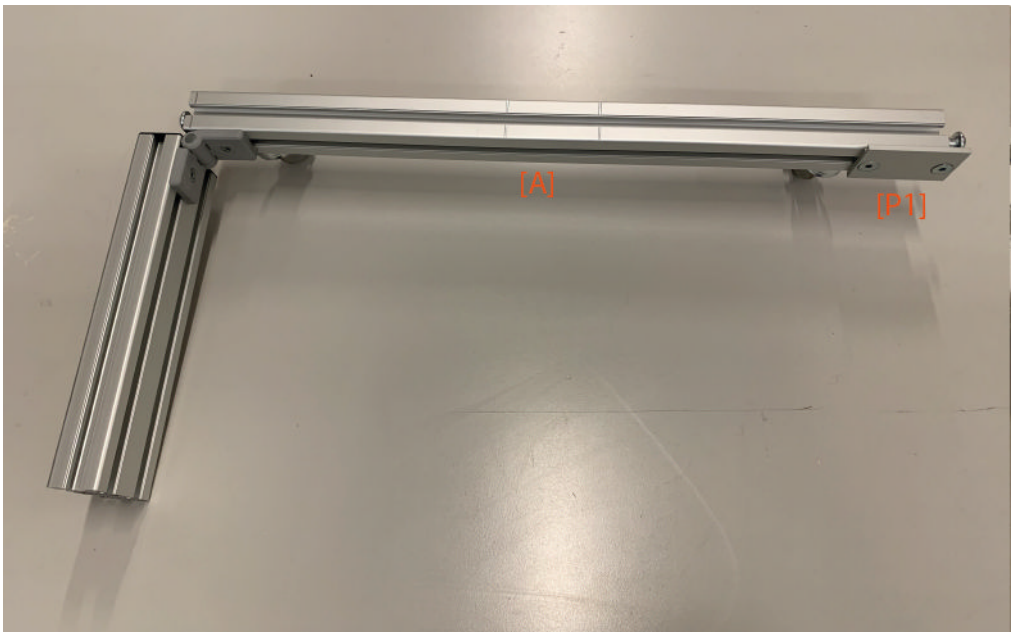
5. Lay out one bar **[A]** as illustrated.



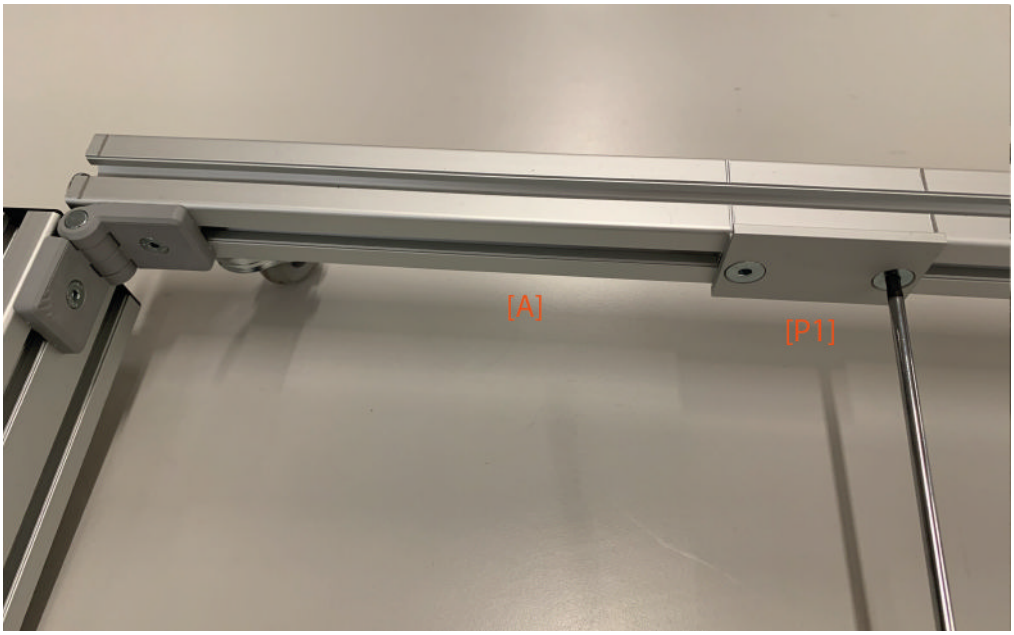
6. Get one plate **[P1]**.



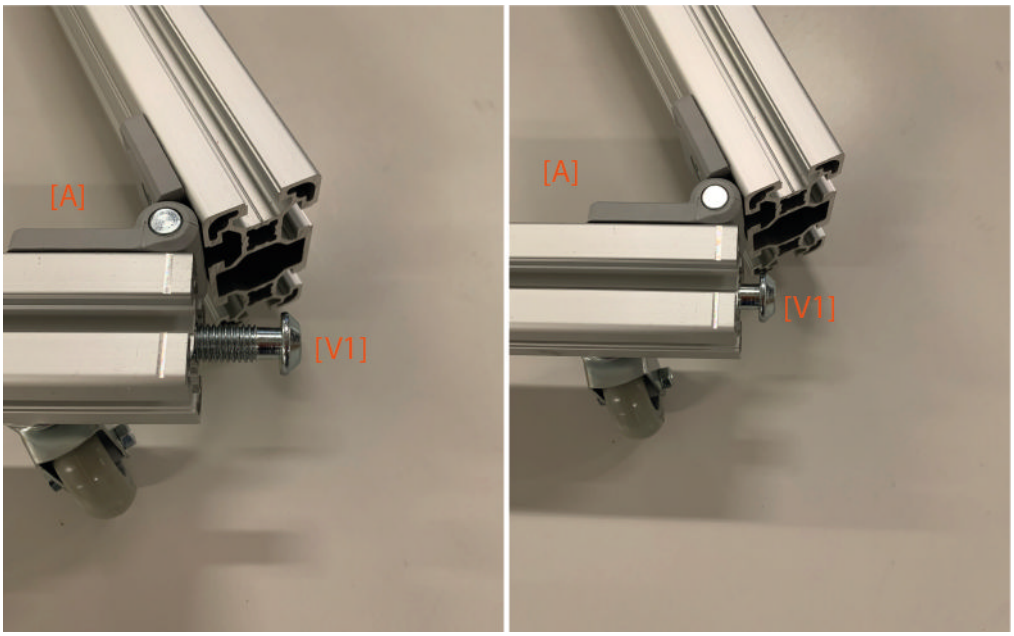
7. Insert the two nuts on the plate **[P1]** into the groove on the bar **[A]** on the side of the hinge.



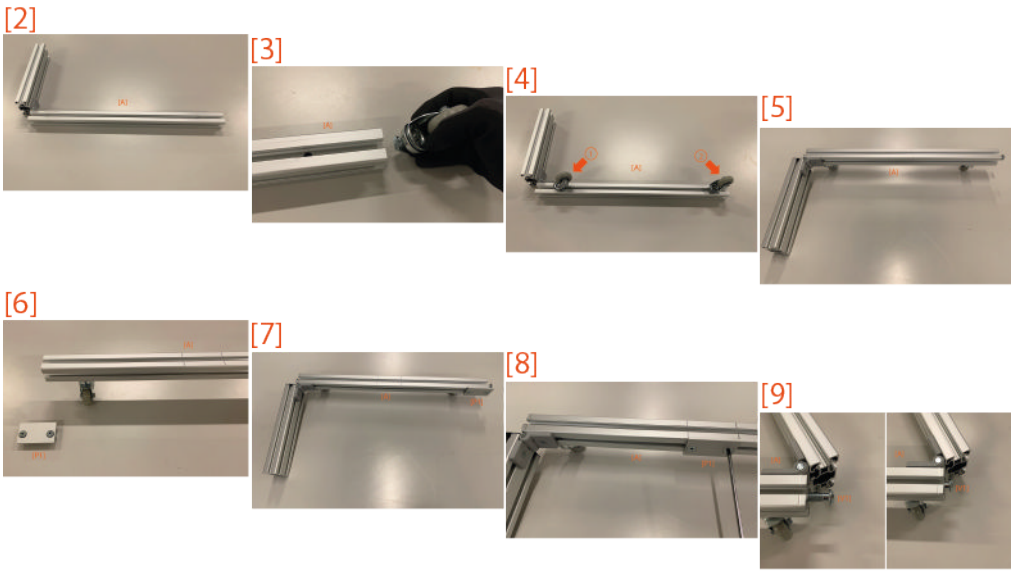
8. Secure the plate **[P1]** in correspondence of the reference marks.



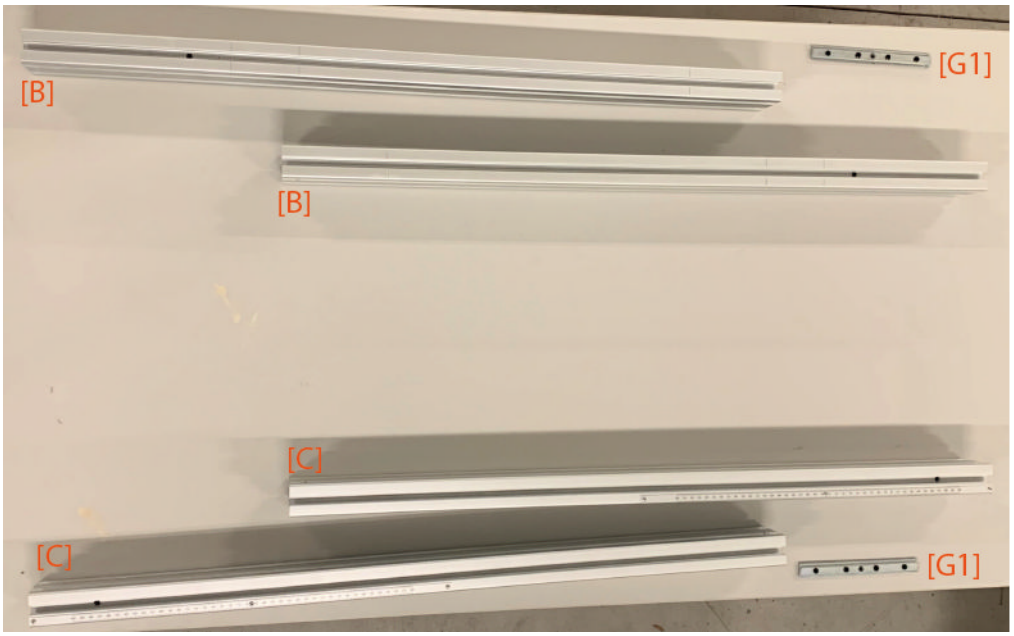
9. Screw one screw **[V1]** on both the ends of the bar **[A]** leaving the non-threaded part protruding.



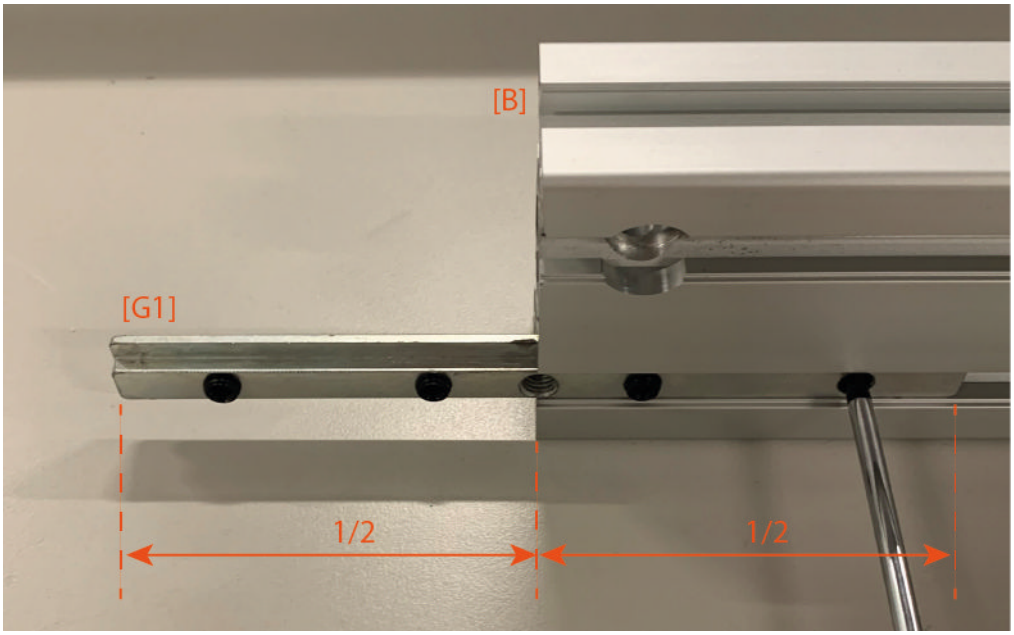
10. Repeat the operation from step 2 to step 9 to assemble the second side element.



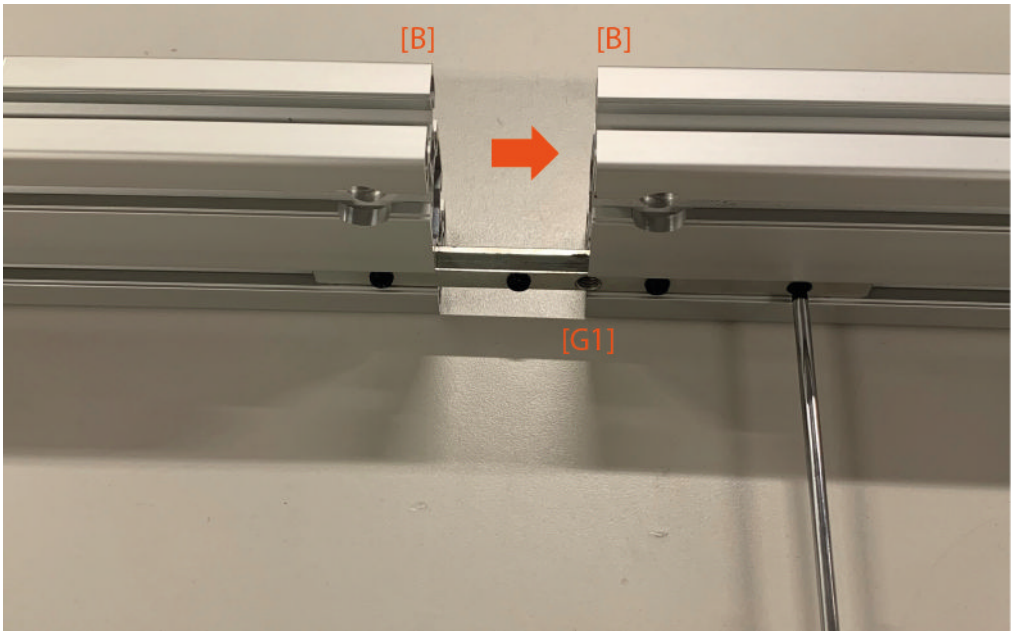
11. Get the following material: 2 bars **[B]**, 2 bars **[C]**, 2 joints **[G1]**.



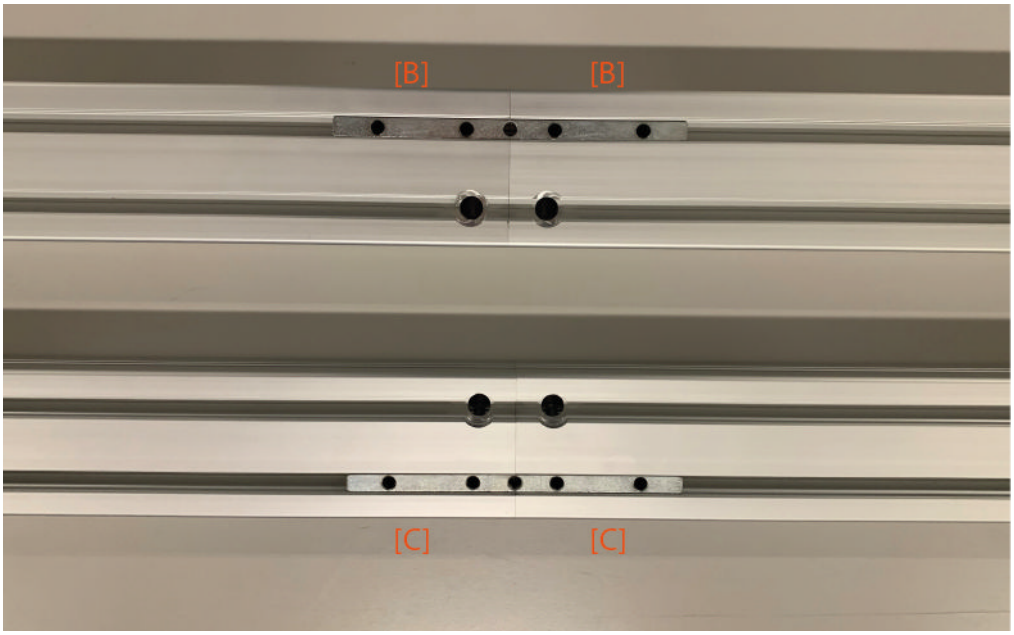
12. Insert one joint **[G1]** into the groove of one of the bars **[B]** securing it so that **exactly half of it** protrudes from the bar.



13. Attach the two bars **[B]** using the joint **[G1]** trying to align the two parts as best as possible.

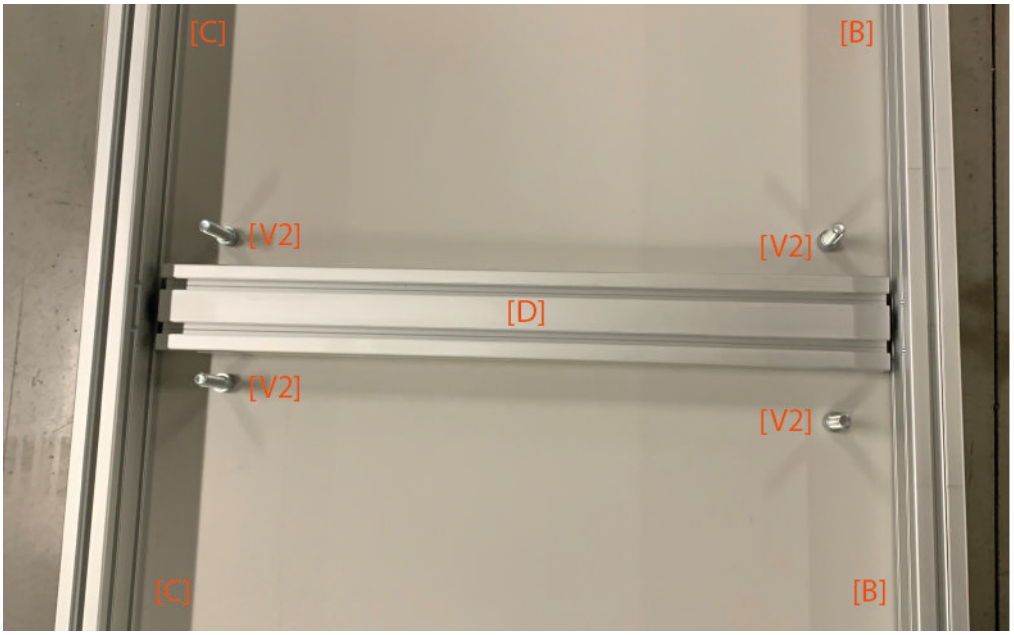


14. Repeat the operations at steps 12 and 13 for the bars **[C]**.

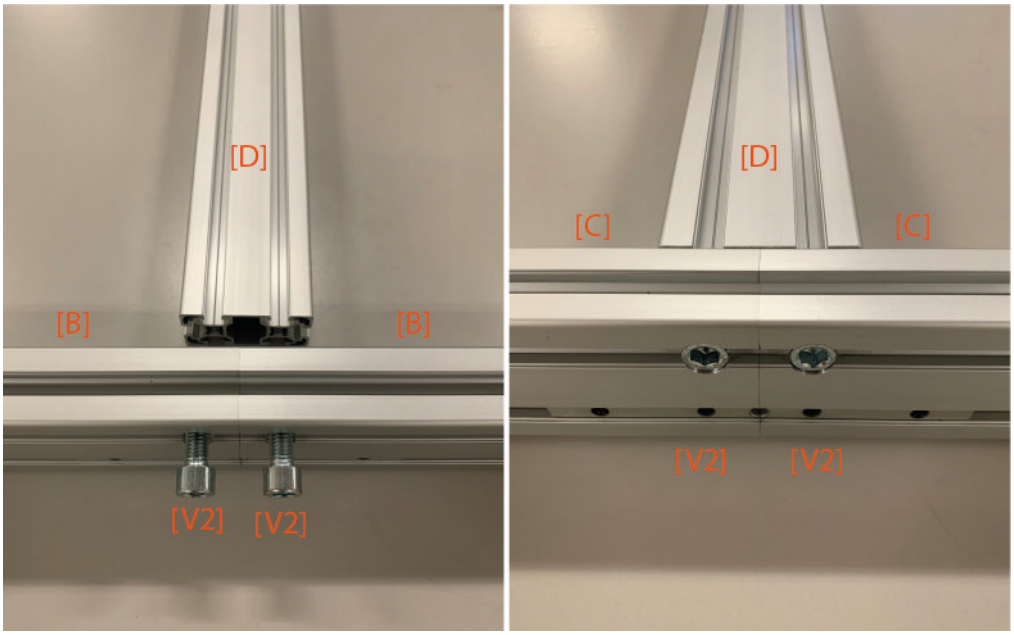


15. Lay out the bars **[B]**, the bars **[C]**, the bar **[D]** and the 4 screws **[V2]** as illustrated.

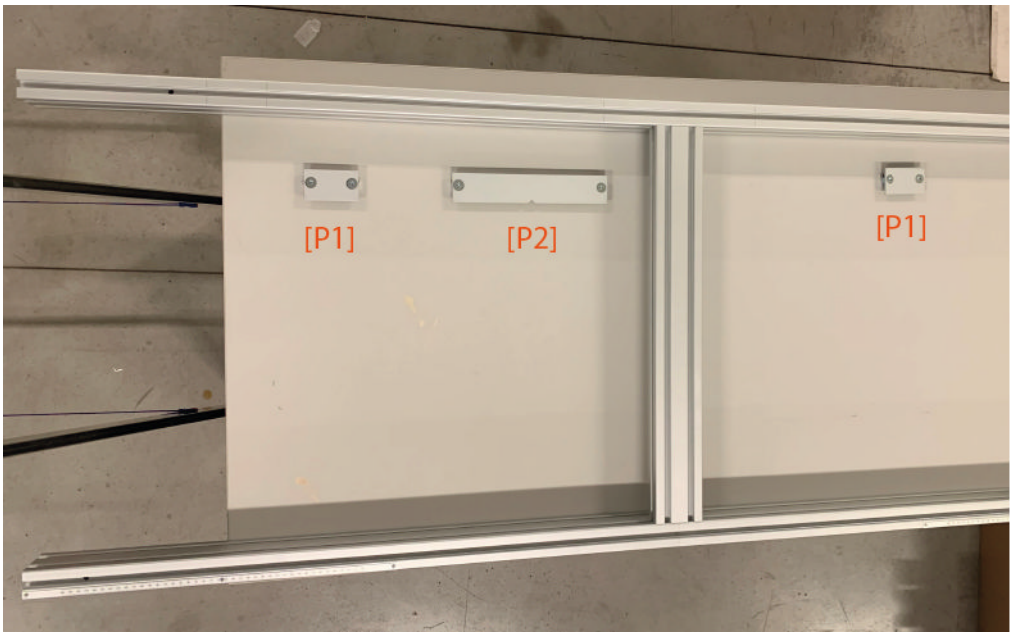
! Pay the utmost attention while positioning the bars **[C]** with the millimetre scale facing upwards.



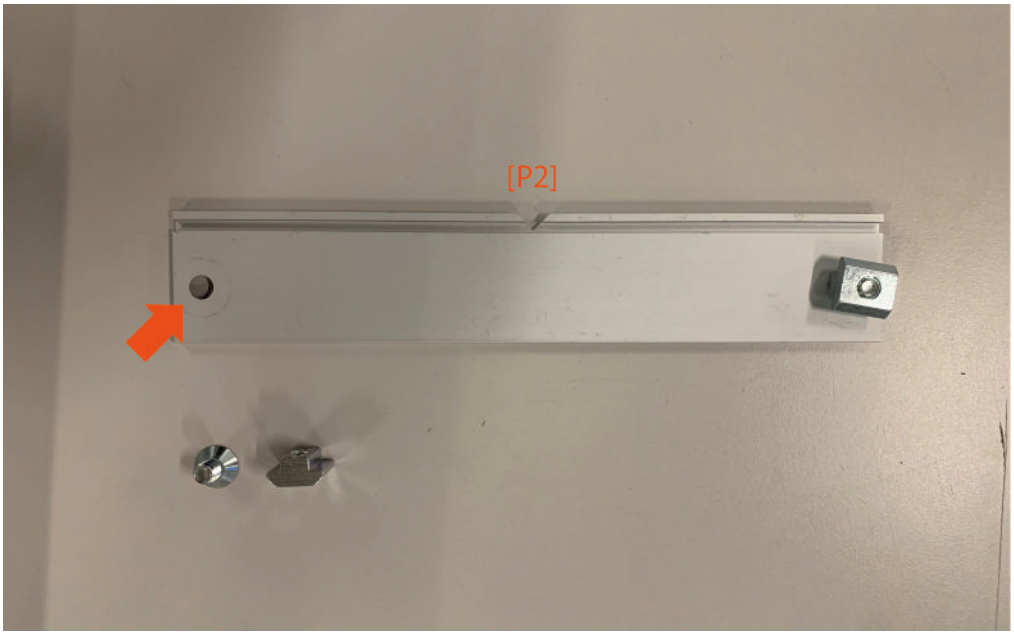
16. Fasten the bars **[B]** and the bars **[C]** to the bar **[D]** tightening the screws **[V2]** adequately.



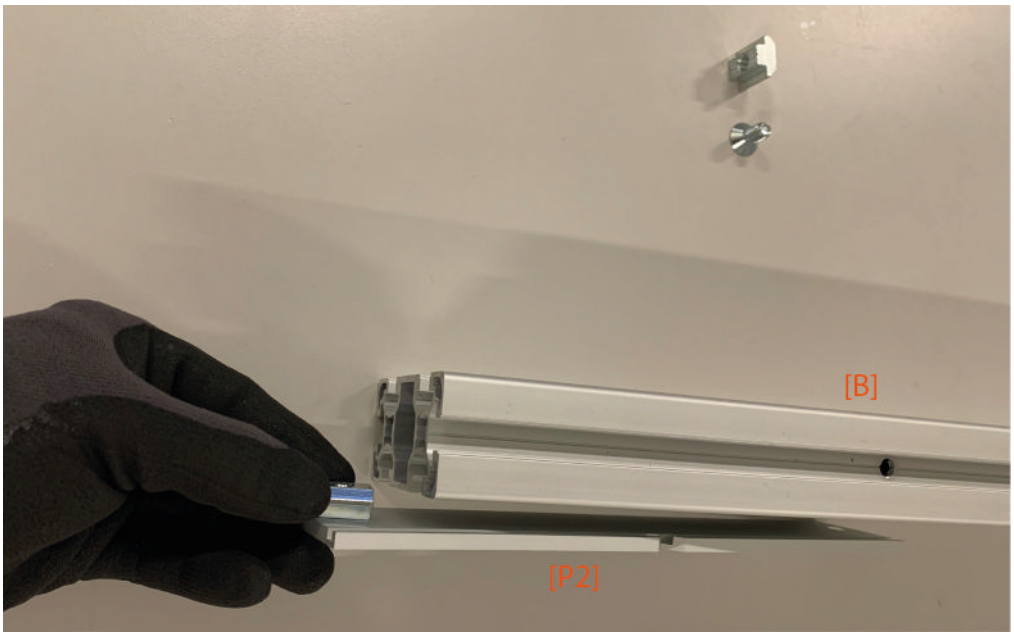
17. Get the following material: 2 plates **[P1]**, 1 plate **[P2]**.



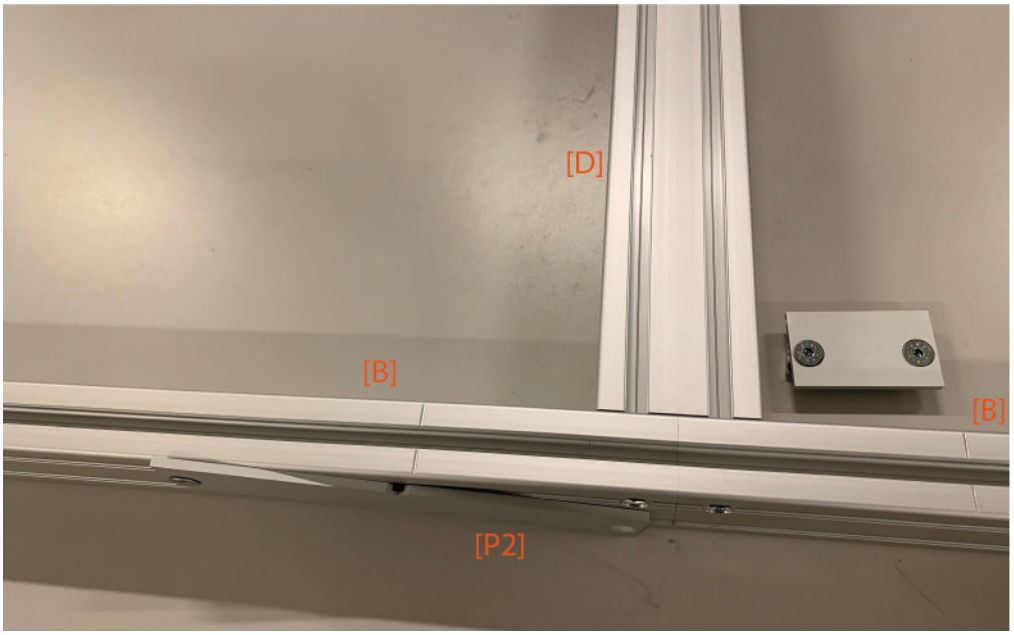
18. Remove the indicated bolt from the plate **[P2]**.



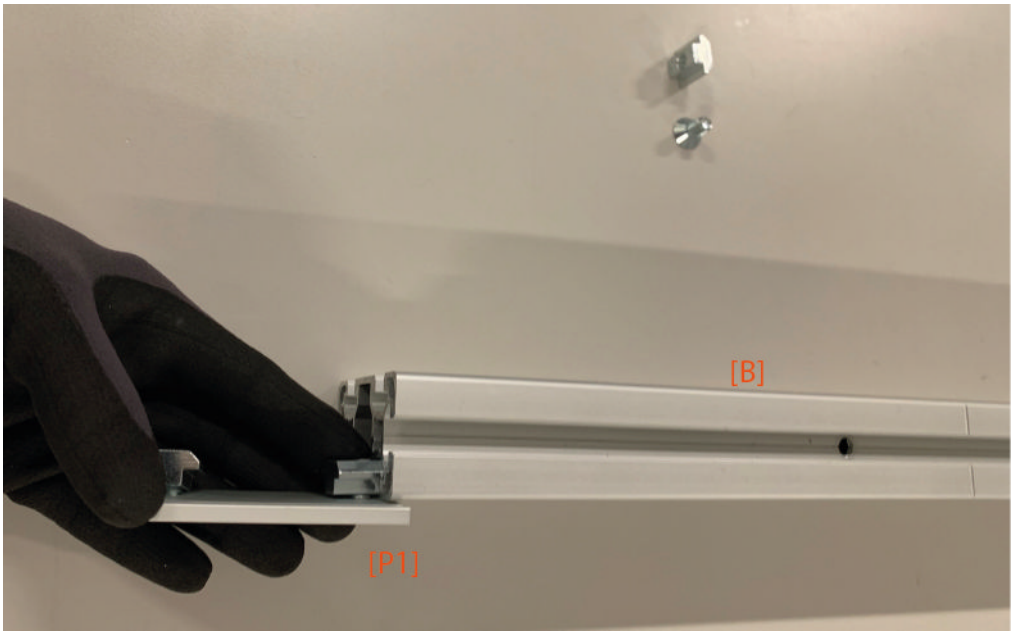
19. Insert the nut still installed on the plate **[P2]** into the upper external groove on the left bar **[B]**.



20. Position the plate **[P2]** towards the centre of the conjunction between the bars **[B]**.



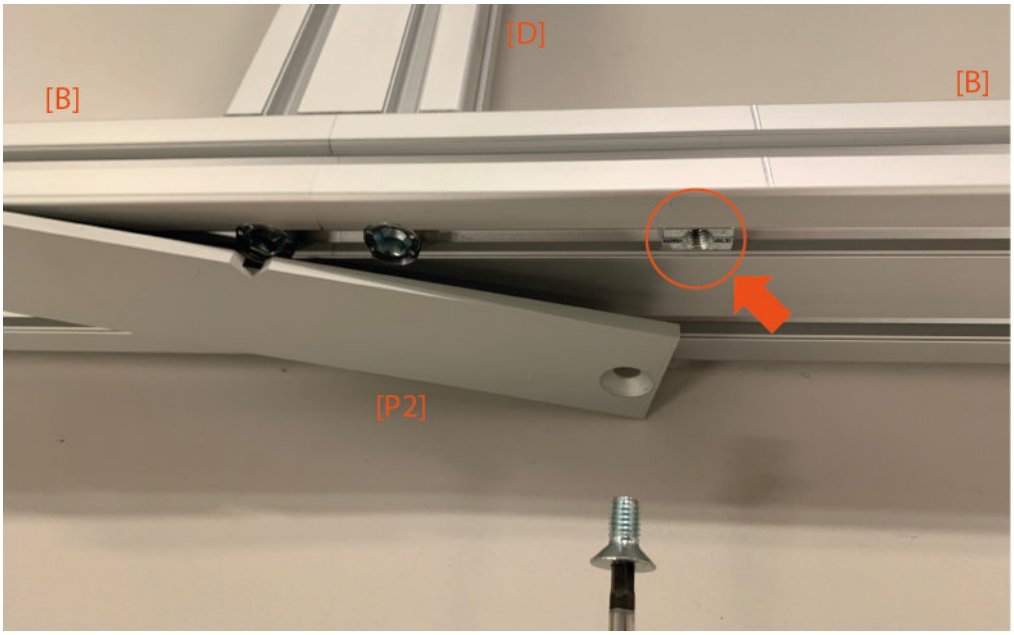
21. Insert the nuts one of the plates **[P1]** into the upper external groove on the left bar **[B]**.



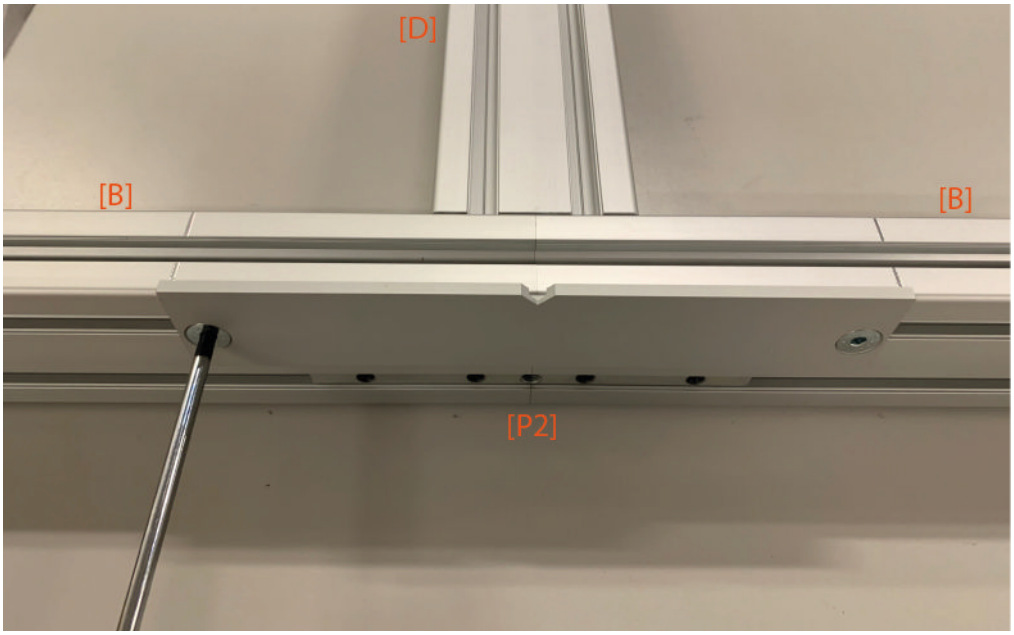
22. Secure the plate **[P1]** in correspondence of the reference marks.

23. Insert the nut removed at step 18 into the upper external groove on the right bar **[B]**.

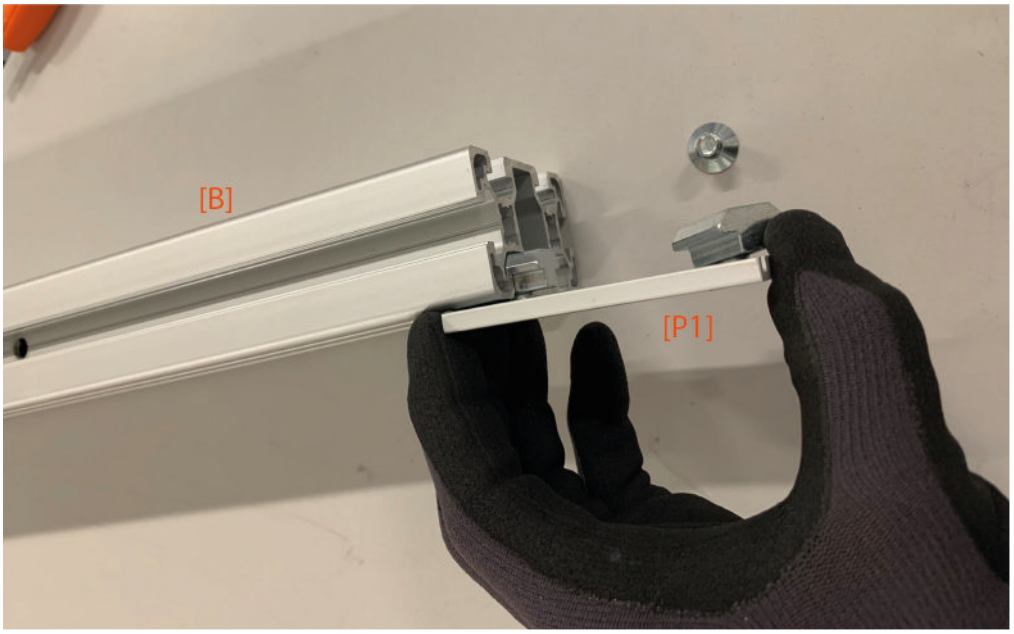
24. Slide the inserted nut towards the centre of the conjunction between the bars **[B]**.



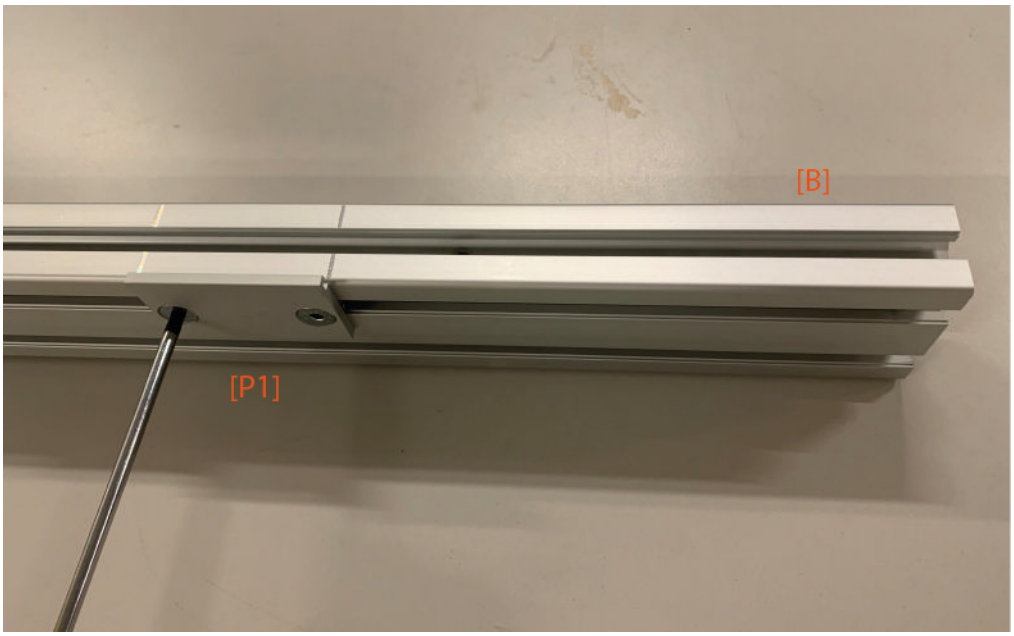
25. Secure the plate **[P2]** trying to align the centre of the plate and the centre of the conjunction between the bars **[B]** as best as possible.



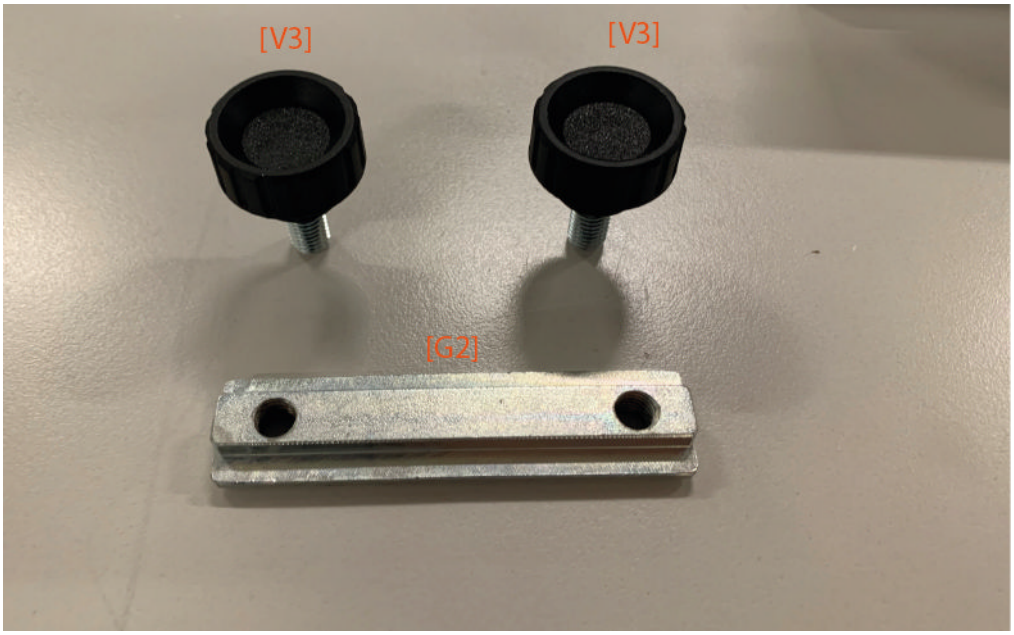
26. Insert the nuts on one of the plates **[P1]** into the upper external groove on the right bar **[B]**.



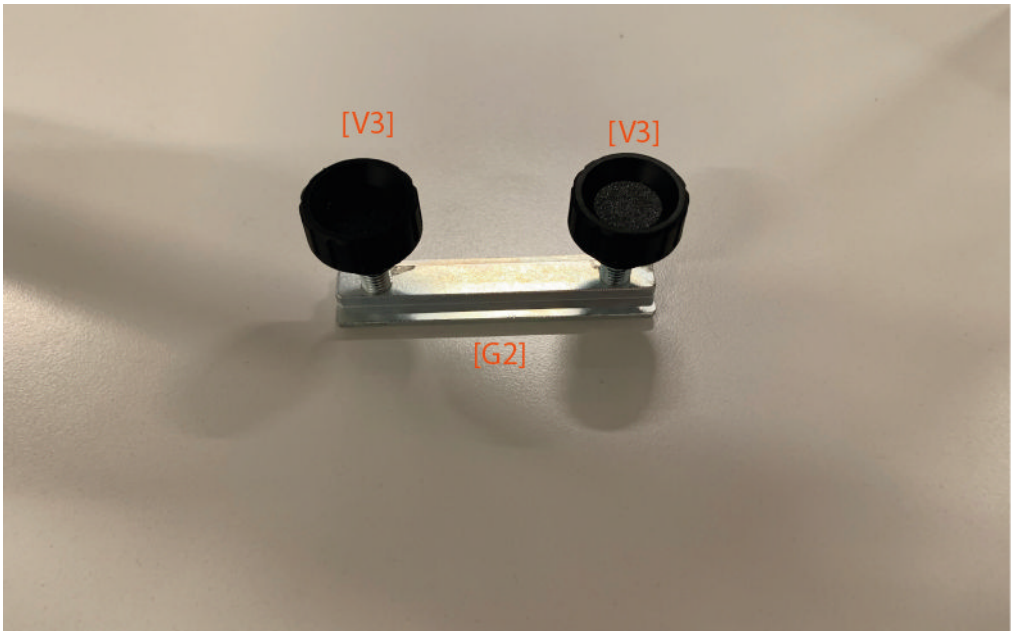
27. Secure the plate **[P1]** in correspondence of the reference marks.



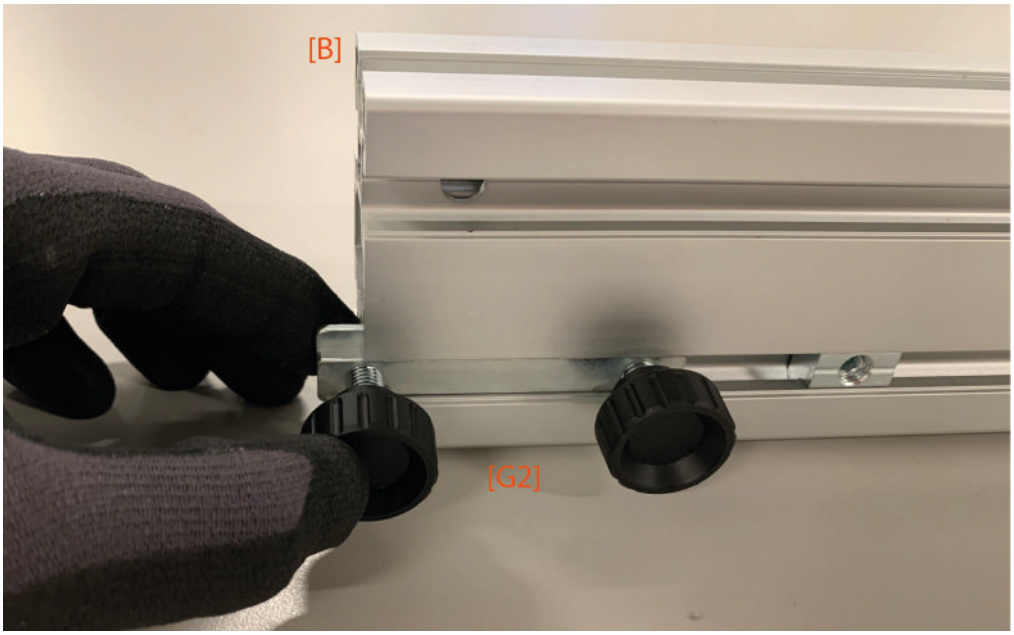
28. Get the following material: 2 screws **[V3]**, 1 joint **[G2]**.



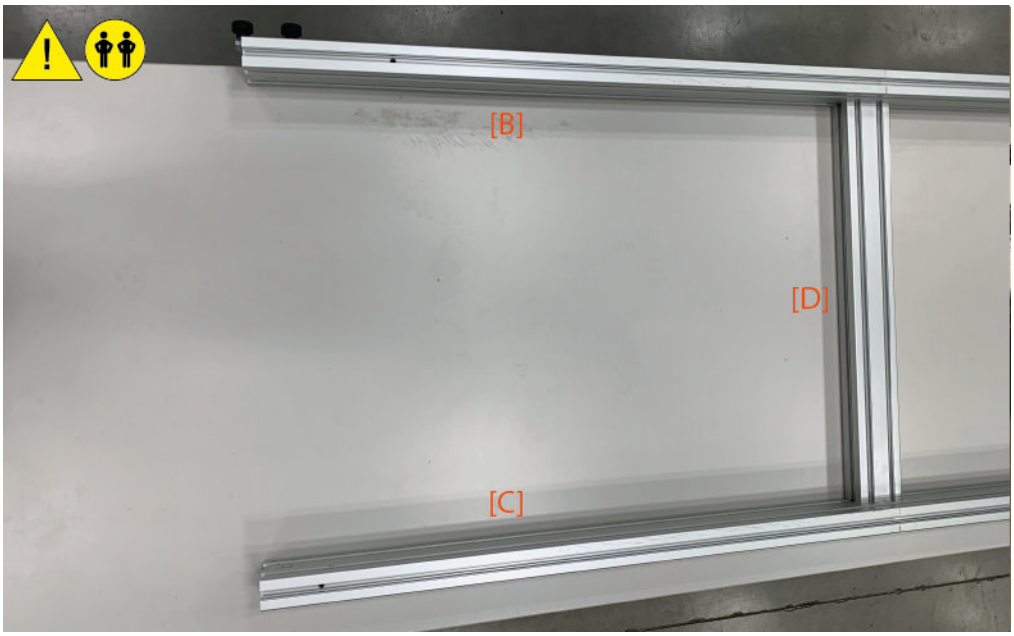
29. Assemble the screws **[V3]** and the joint **[G2]** as illustrated.



30. Insert the joint **[G2]** into the lower groove on the left bar **[B]** having it slide until touching the limit square nut already installed.

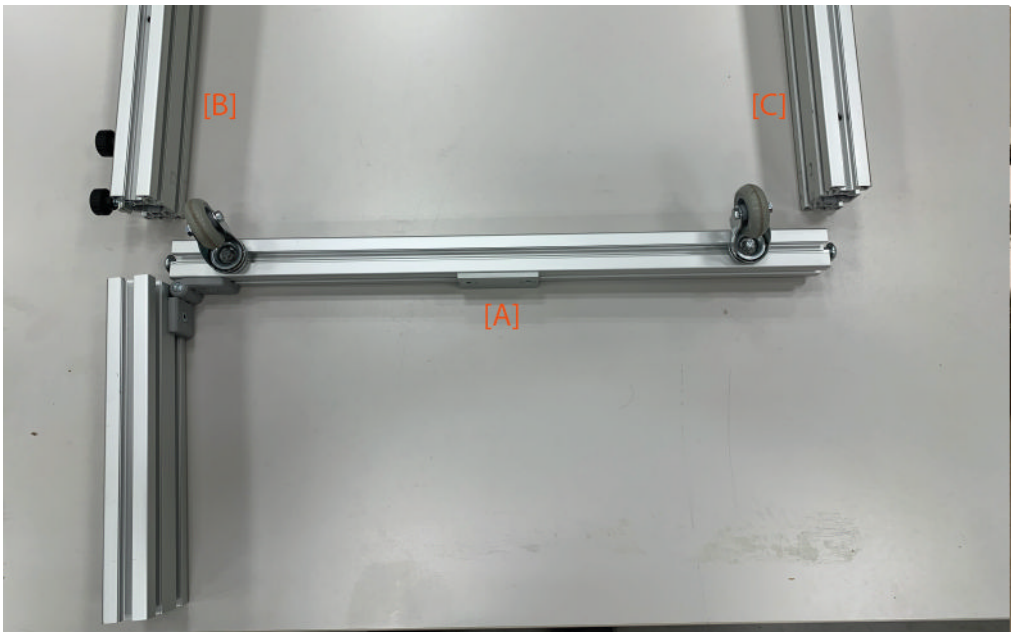


31. Turn upside down the unit made up by the bars **[B]**, **[C]** and **[D]**.



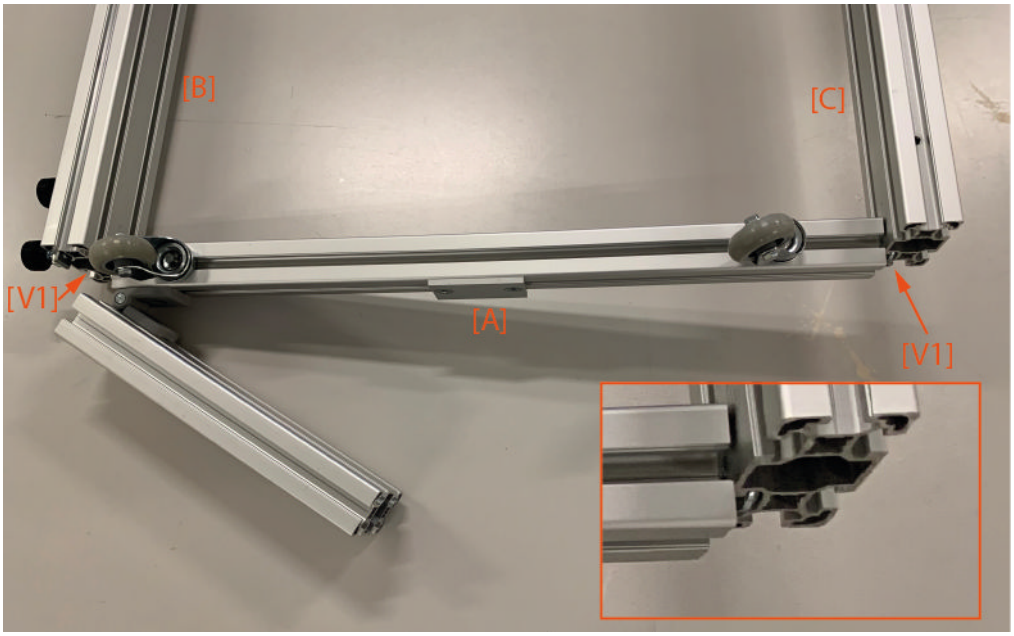
32. Position the bar **[A]** close to the bars **[B]** and **[C]** as illustrated.

! The operation described must be carried out on both sides.

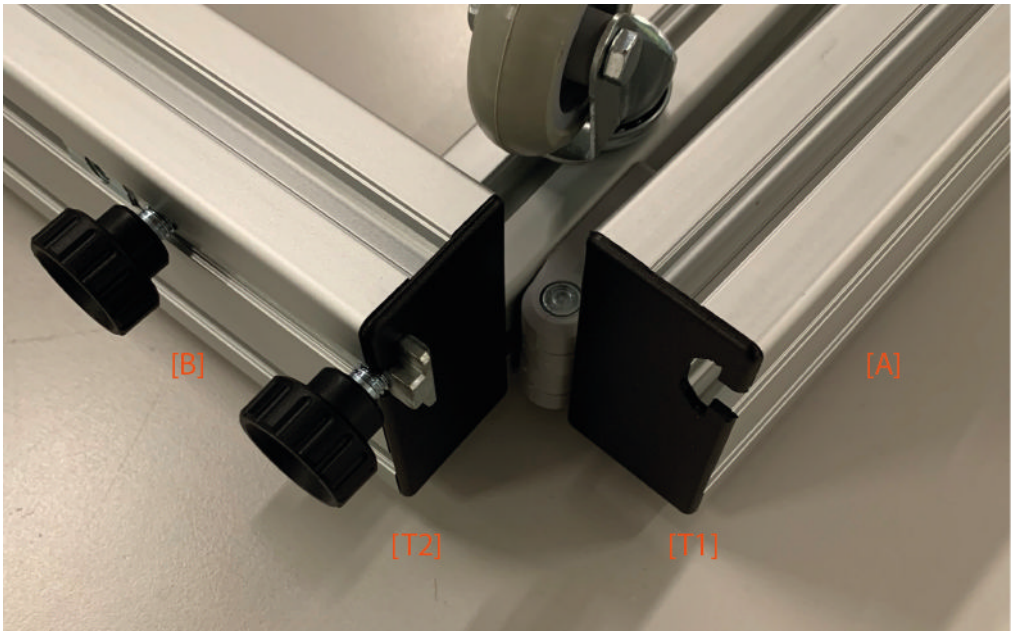


33. Insert the heads on the screws **[V1]** of the bar **[A]** into the grooves on the bars **[B]** and the bars **[C]** as illustrated; then proceed aligning the elements and tightening the screws.

! The operation described must be carried out on both sides.

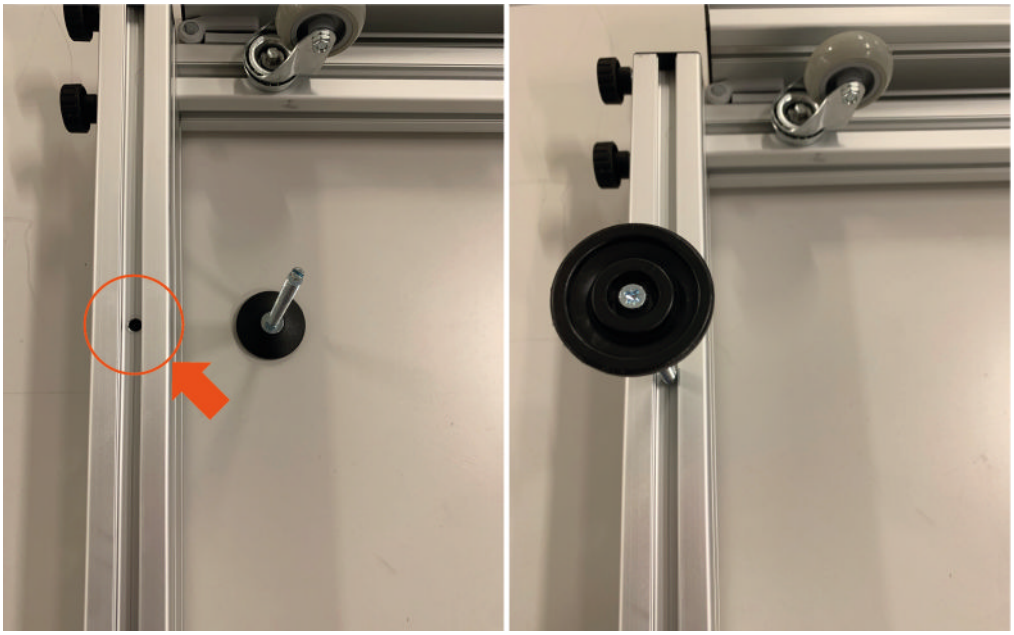


34. Install the caps **[T1]** on the ends of the bars **[A]** and the caps **[T2]** on the ends of the bars **[B]** as illustrated.

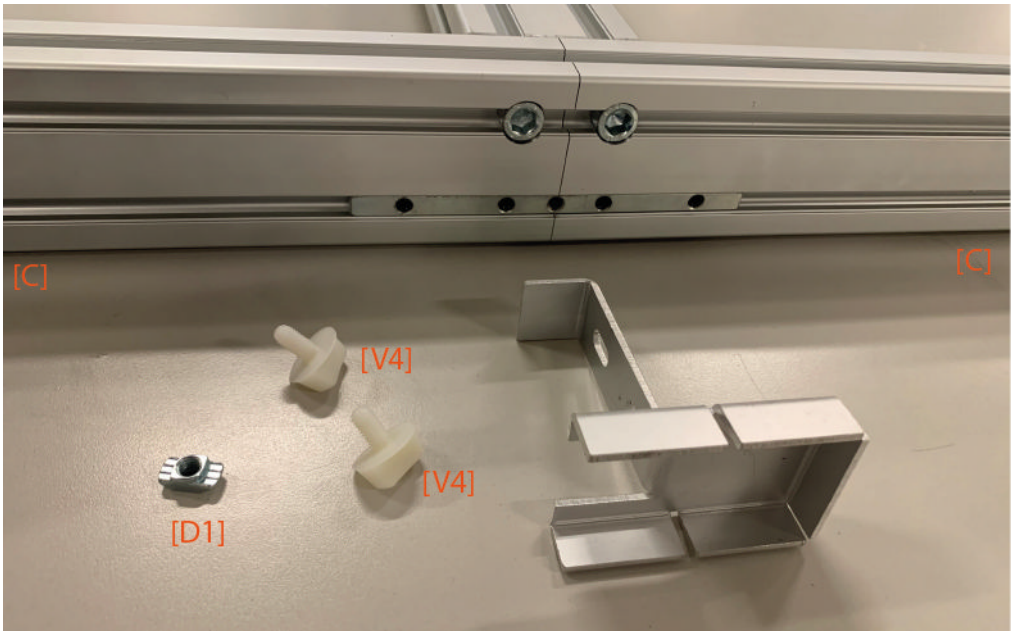


35. Screw the 4 levelling feet into the specific holes on the bars **[B]** and on the bars **[C]**.

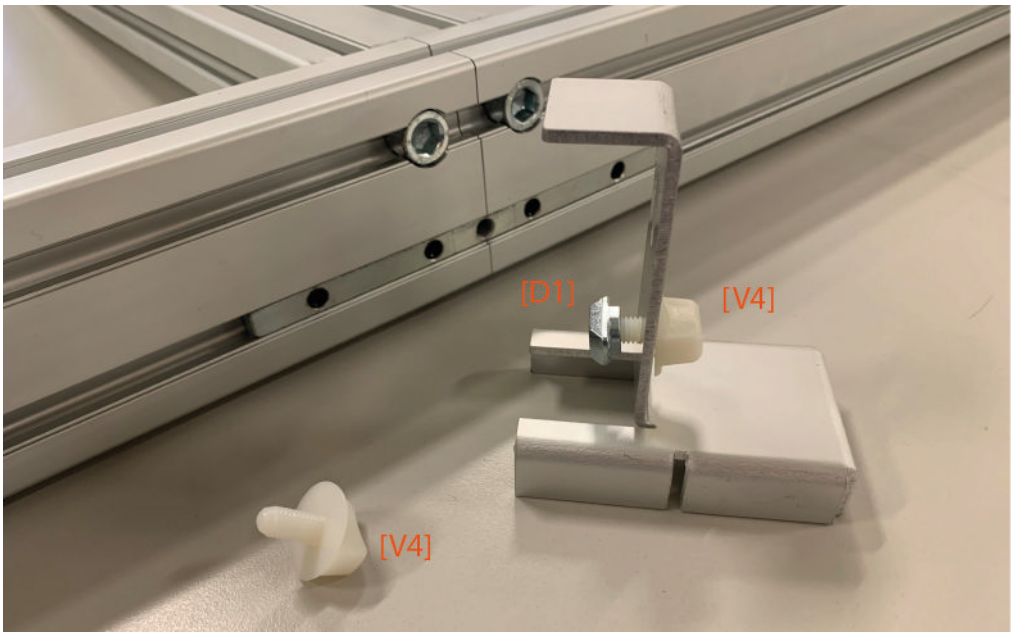
Once the operation is complete, turn the unit back over.



36. Get the following material: nut **[D1]**, 2 screws **[V4]**, laser level support.

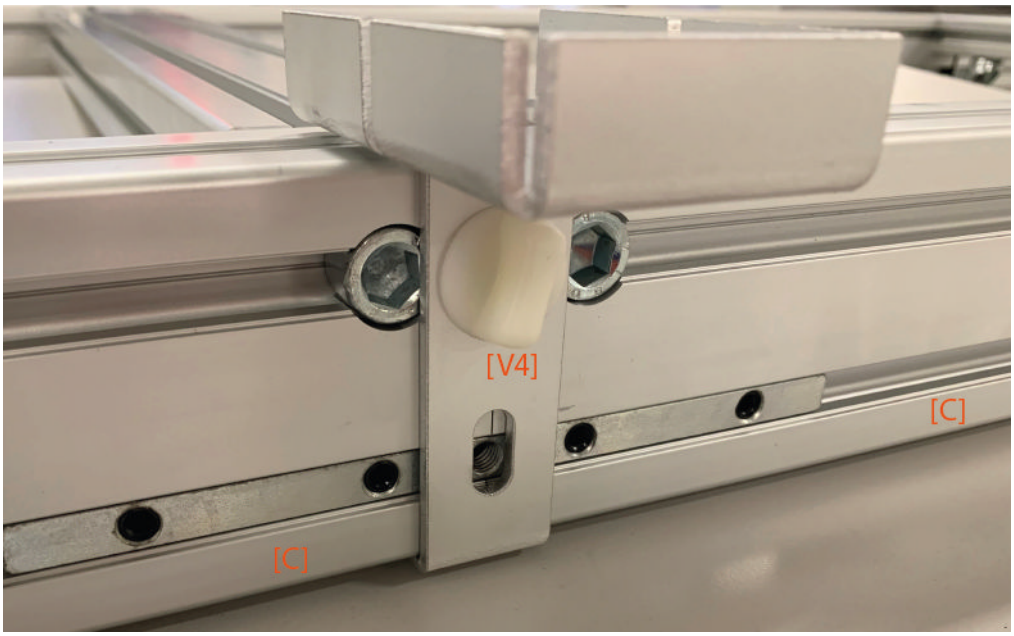


37. Install the nut **[D1]** and one screw **[V4]** on the laser level support as illustrated.



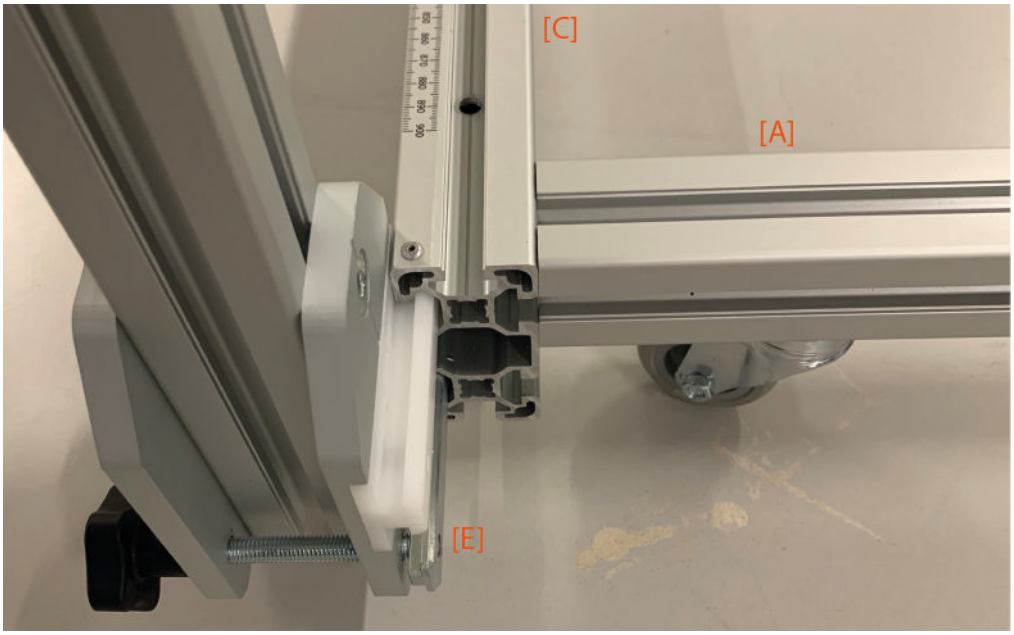
38. Secure the laser level support between the bars **[C]** as illustrated.

! The nut **[D1]** must be inserted into the groove while it is horizontal so that it can turn and block itself when the related screw **[V4]** is screwed in.

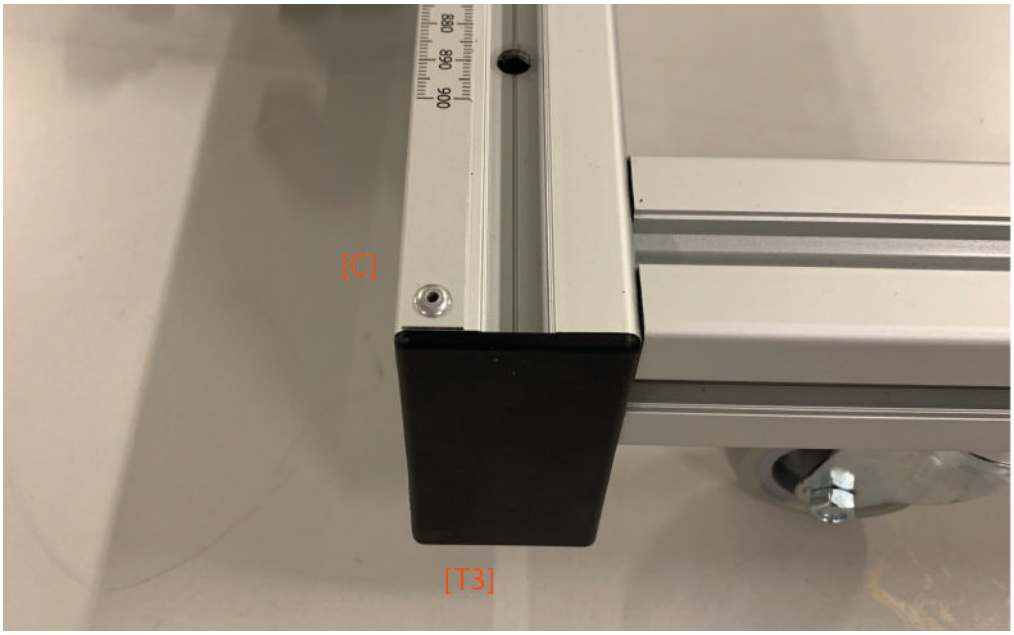


39. Screw the second screw **[V4]** onto the joint **[G1]** as illustrated.

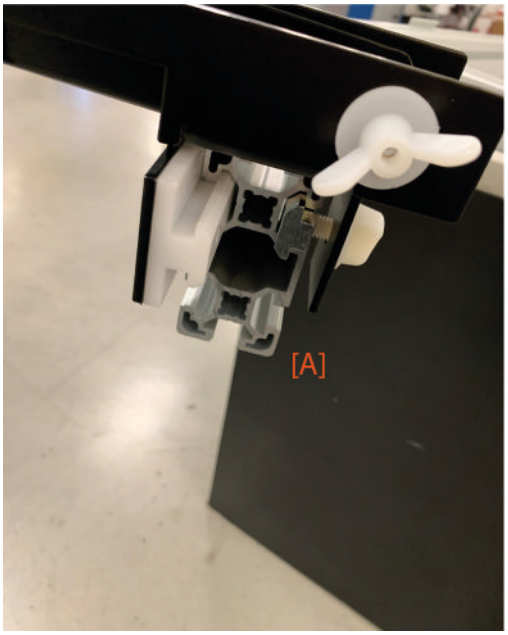
40. Install the bars **[B]** on the bars **[C]** as illustrated.

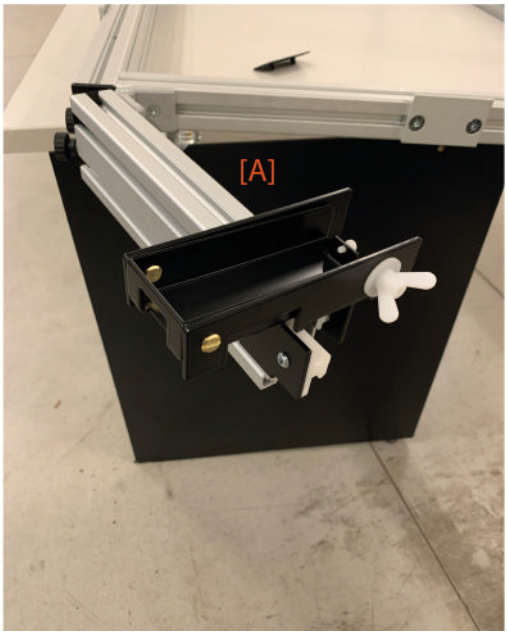


41. Install the caps **[T3]** on the ends of the bars **[C]**.

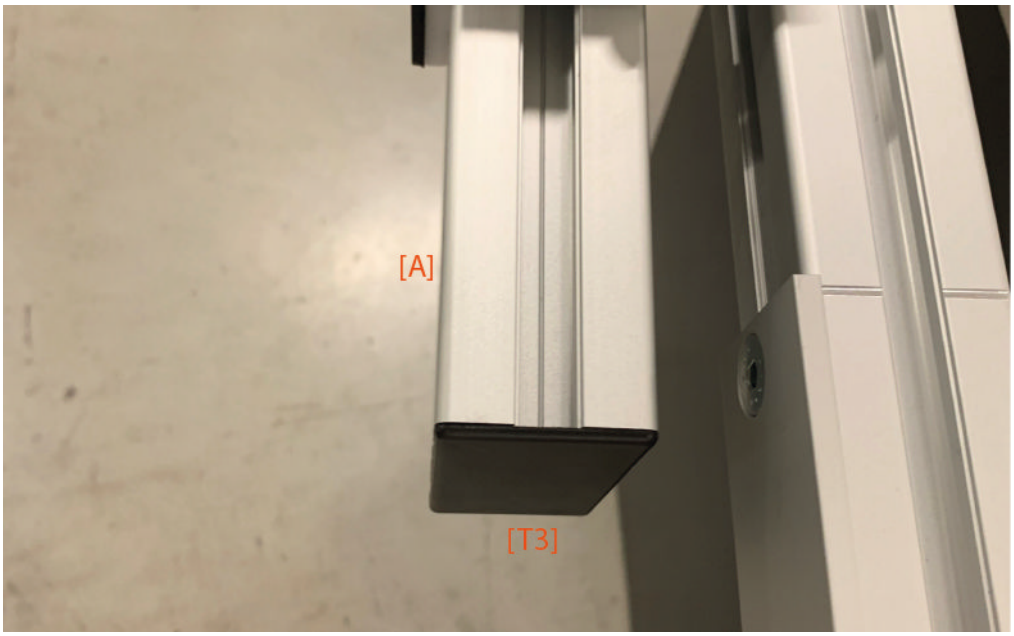


42. Install the laser telemeter supports on the moving parts of the bars **[A]** as illustrated.





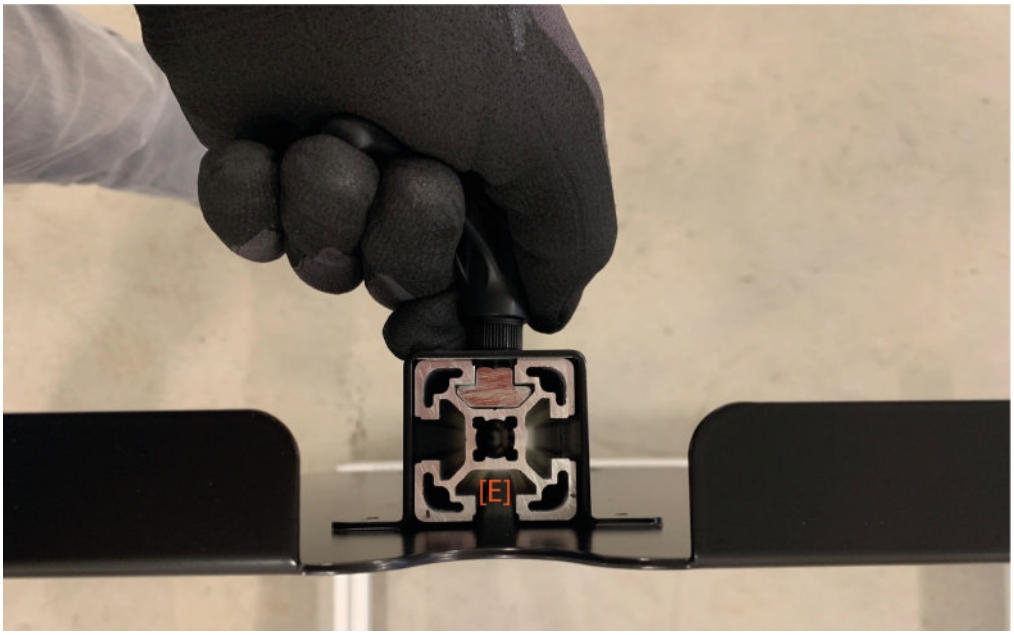
43. Install the caps **[T3]** on the ends of the bars **[A]**.



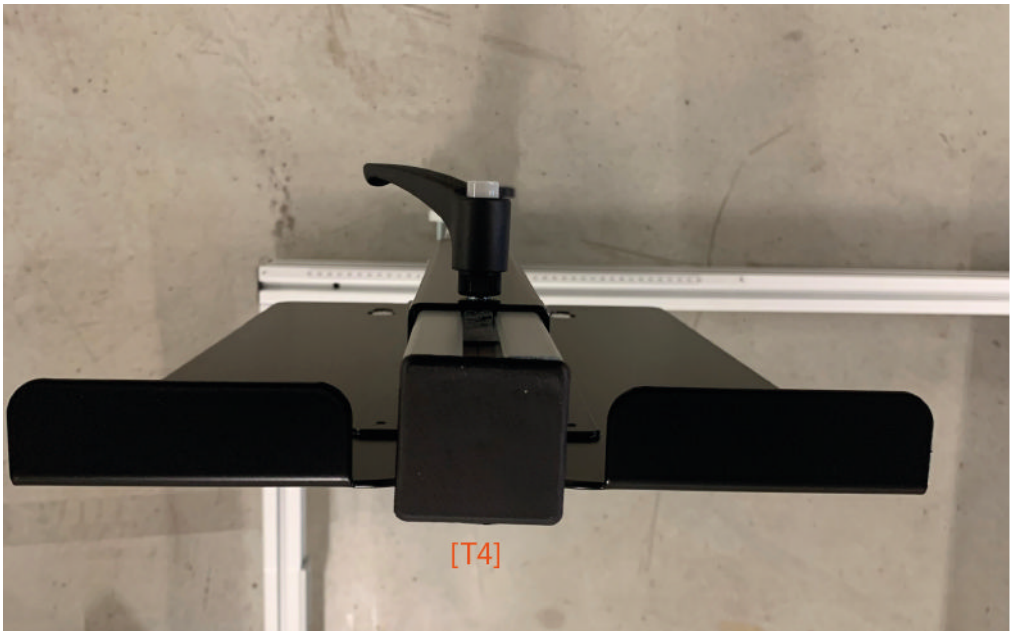
44. Get the following material for each Doppler Simulator support panel: 1 nut **[D1]**, 1 washer, 1 clamping lever with threaded pin.

45. On each panel install 1 nut **[D1]**, 1 washer and 1 clamping lever with threaded pin on the hole as illustrated.

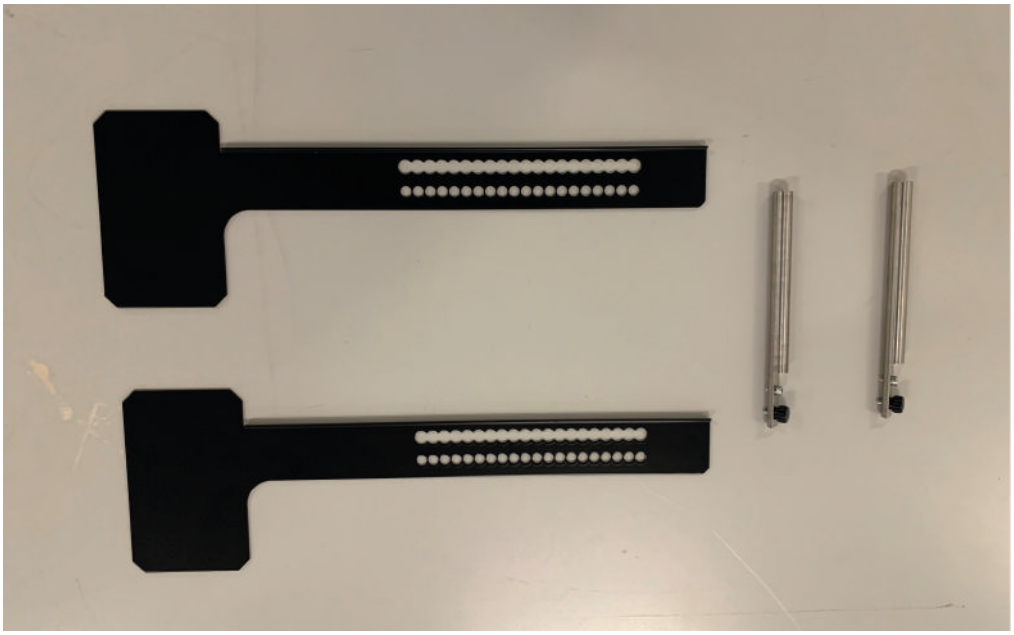
46. Install the panels on the ends of the bars **[E]**.



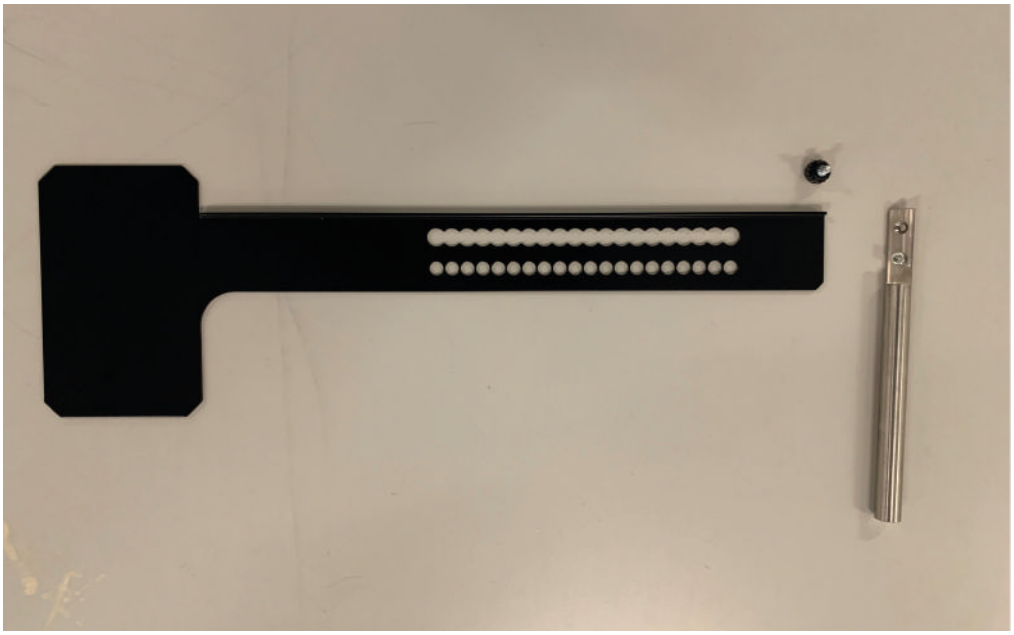
47. Install the caps **[T4]** on the ends of the bars **[E]**.



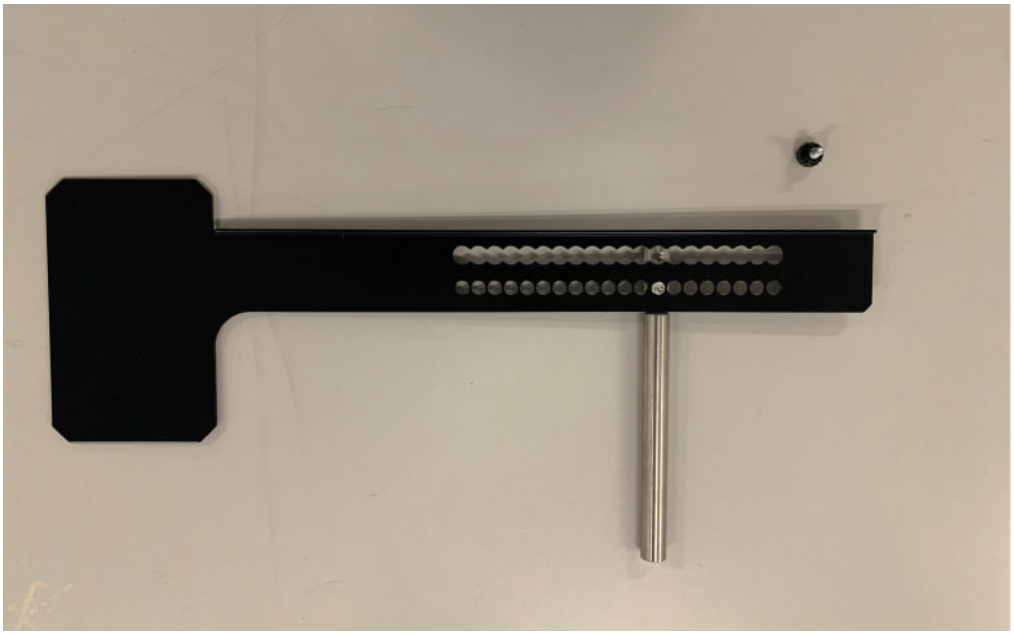
48. Get 2 targets and 2 cylindrical pins.



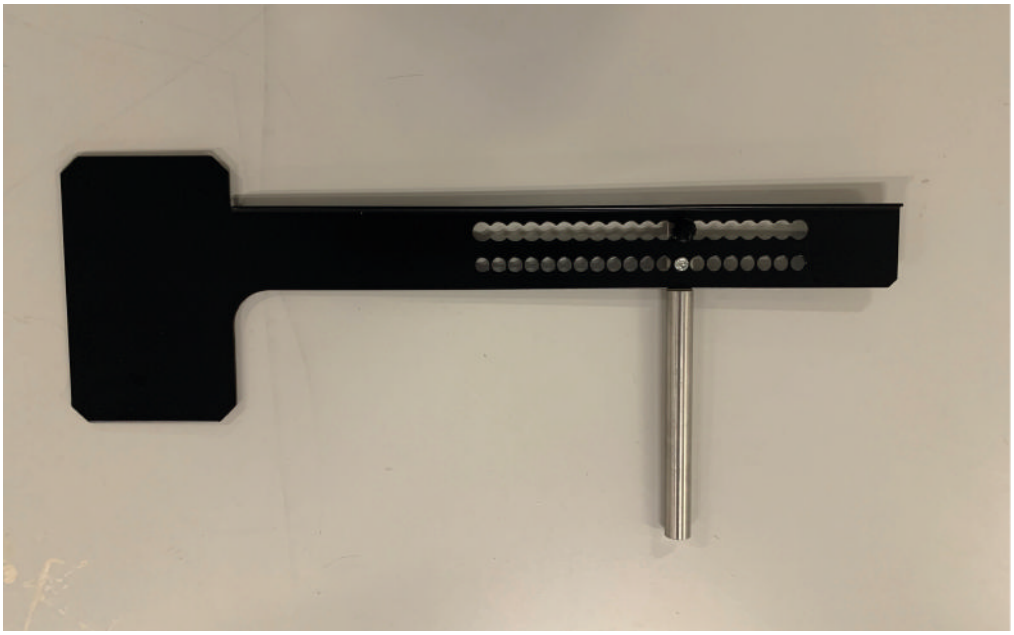
49. Remove the screws from the cylindrical pins.



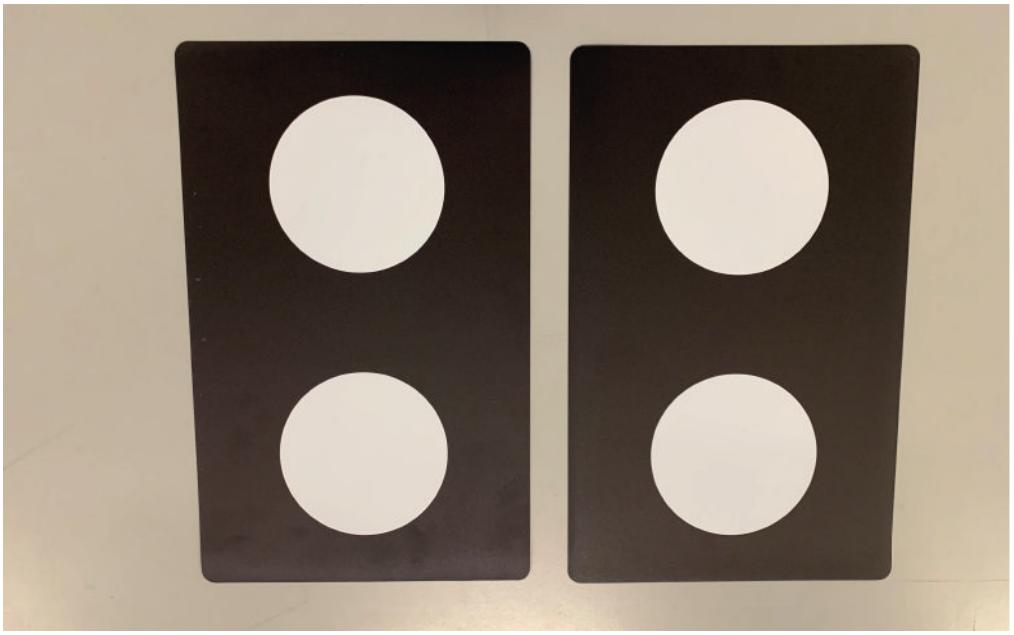
50. Install the pins on the targets as illustrated.



51. Block the cylindrical pins in position using the screws removed at step 49.



52. From the bag with the code 3908811, pull out the 2 magnetic calibration panels.



53. Install the calibration panels as illustrated.

54. Position the laser lever on the specific support as illustrated.

55. Position the laser telemeters on the specific supports as illustrated.

ATTENTION:

Once the assembly is complete, make sure the laser level and the related beam are aligned with the centre of the unit.

If not, loosen the screws **[V3]** that fasten the laser level support and correct the position of the support itself.

Periodically make sure the batteries in the laser level and laser telemeters are charged sufficiently so they can be used correctly.

Before starting a calibration procedure, make sure all the moving parts on the unit are firmly secured and positioned correctly.

4 LEGAL NOTICES

TEXA S.p.A.

Via 1 Maggio, 9 - 31050 Monastier di Treviso - ITALY

Tax Code - Company Register of Treviso ID No. - VAT No.: 02413550266

Single-shareholder company subject to the direction and coordination activities of Opera Holding S.r.l.

Paid-up share capital 1,000,000 € - R.E.A. (Economic Administrative Index) No. 208102

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For information regarding the legal notices, please refer to the **International Warranty Booklet** provided with the product.