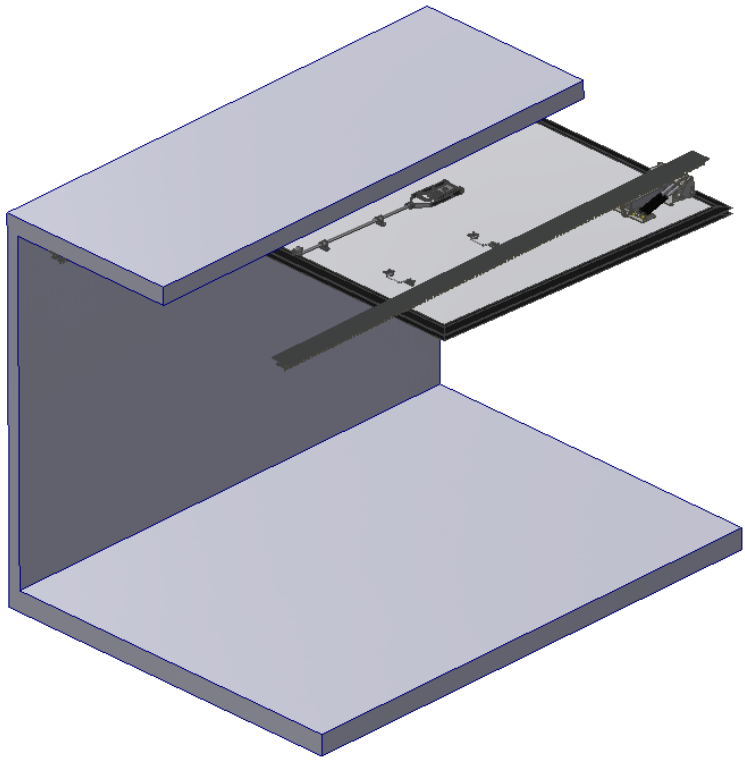
LIFTING ARMS FOR TRAILER PARTITION WALL
-ASSEMBLY INSTRUCTIONS-

January 2022 (Ed04)

ENGLISH



The required configuration of this lifting system has been defined based on the height and weight of the partition wall. Please refer to the following graph which shows the required configuration according to the parameters shown.

Height (mm)	Weight (Kg)						
	70	75	80	85	90	95	100
3000	2	2	2	2			
2900	2	2	2	2			
2800	2	2	2	2	2		
2700	1	2	2	2	2	2	
2600	1	1	2	2	2	2	2
2500	1	1	2	2	2	2	2
2400	1	1	1	2	2	2	2
2300	1	1	1	2	2	2	2

Quantity of gas springs per lifting arm	
1	4 gas springs of 1500 N
2	4 gas springs of 2000 N

This model is not compatible with areas highlighted in grey

If the weight of the partition wall is less than those indicated in the table, use the lifting arms for lightweight partitions.

1. POSITION OF THE PARTS

Establish the position of the rails in relation with the center of the box of the vehicle. For this we establish the dimension D1, which will be the same for fixing the aluminum rails in the roof and to the partition wall.

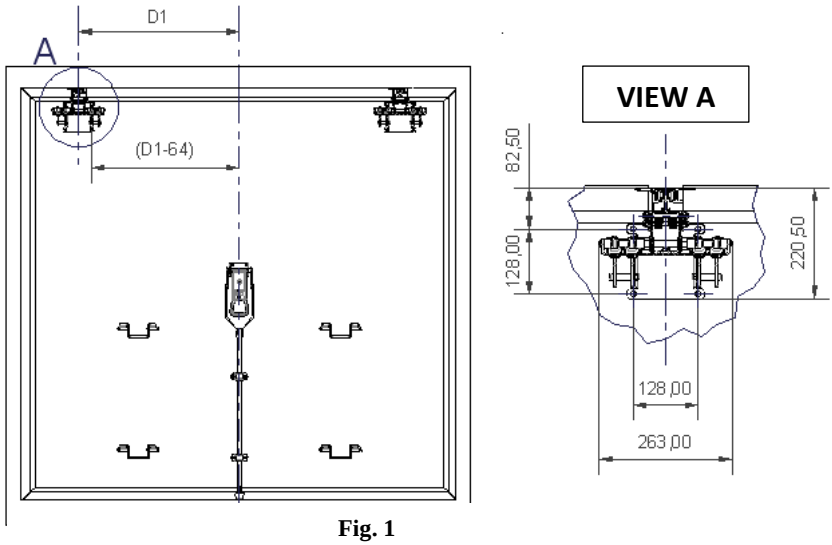
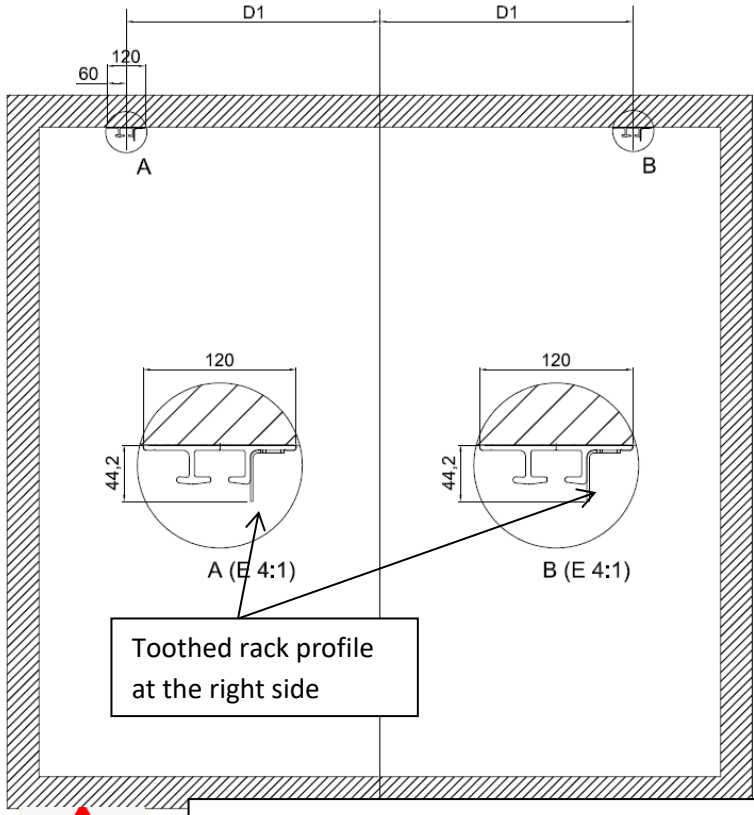


Fig. 1

Center line

Overall dimensions

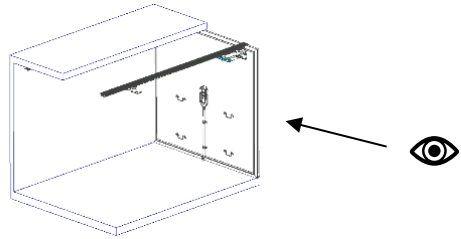


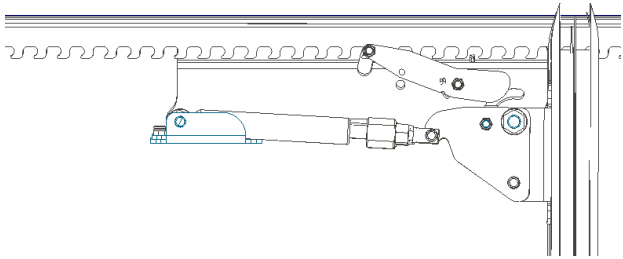
It is important to respect the position of the aluminum rails seen from the rear of the truck. Make sure the aluminum rail is on the right side seen from the rear of the truck.

Fig. 2

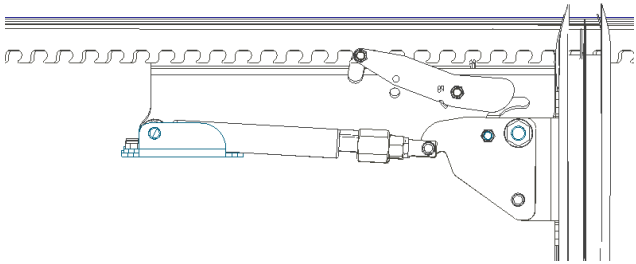
Rails Position

The racks must be perfectly aligned so the teeth of both racks coincide in the same position.





Well-placed racks



Incorrectly positioned racks. The two racks are misaligned.

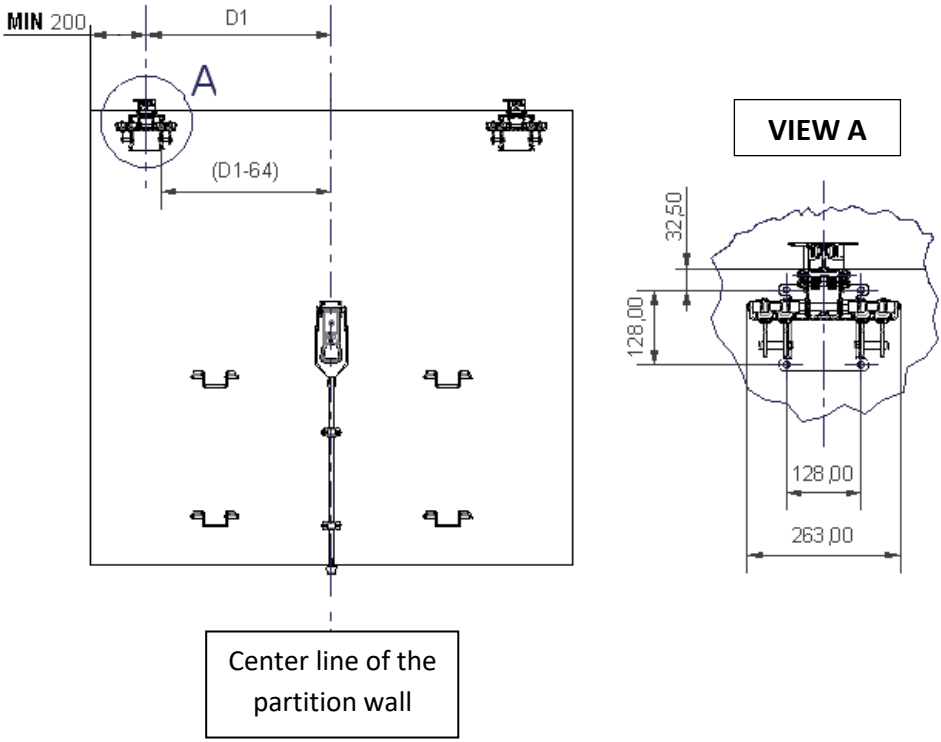


Fig. 3

Lifting arms position

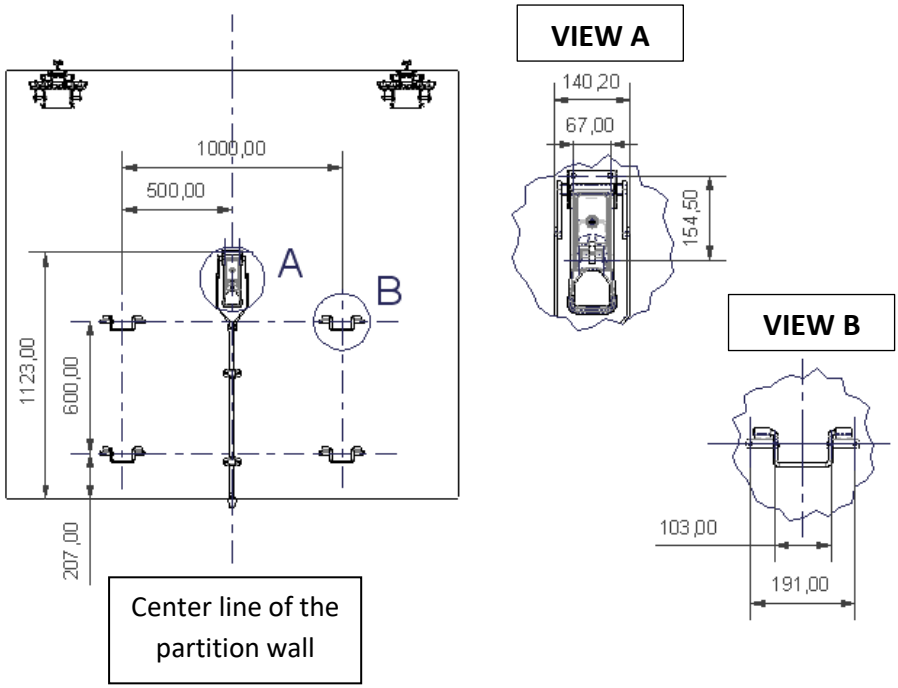


Fig. 4

Floor locking system and handles installation

2. COMPONENTS INSTALLATION

A. ALUMINUM RAIL

First, put together the toothed rack profile and the aluminum rail with adhesive suitable for metal-metal (***MRF recommends the use of "3M – 360 Hybrid"***)

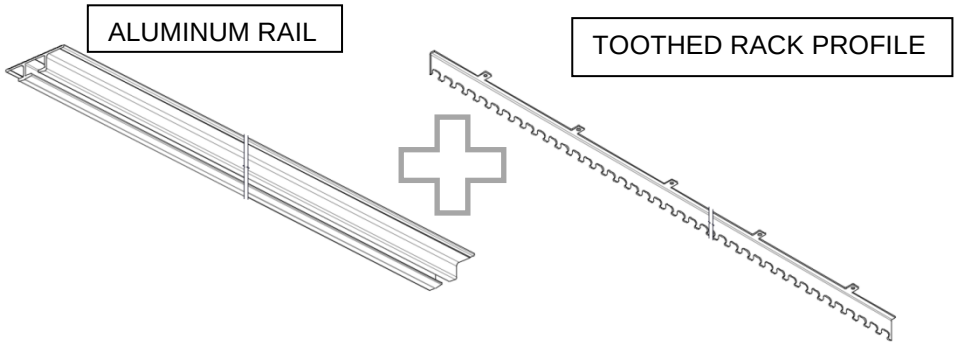


Fig. 5

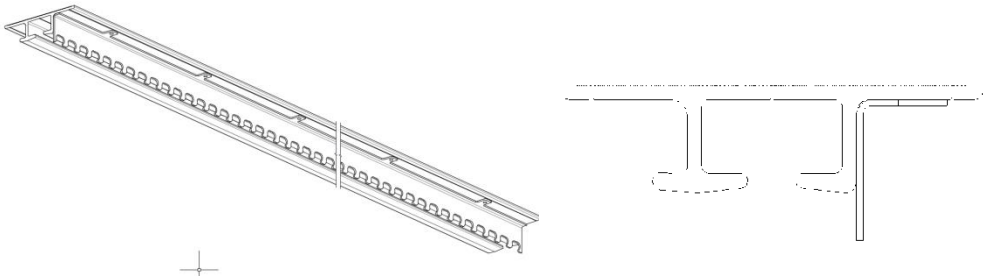


Fig. 6

Next step is to drill holes along the rail to fix the toothed rack profile to the aluminum rail and the assembled set to the roof.

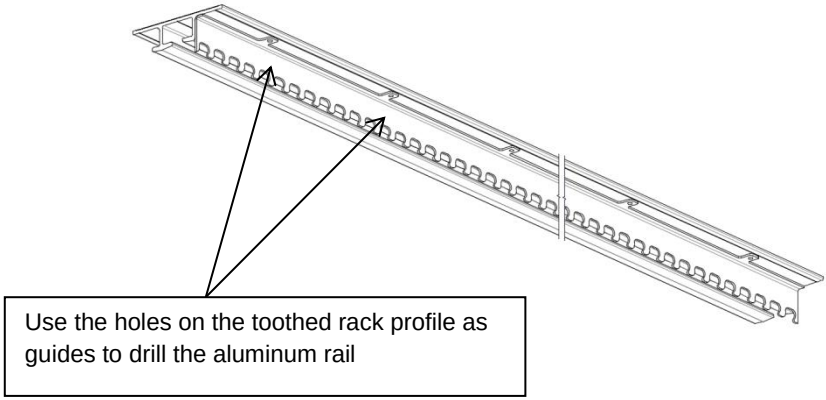


Fig. 7

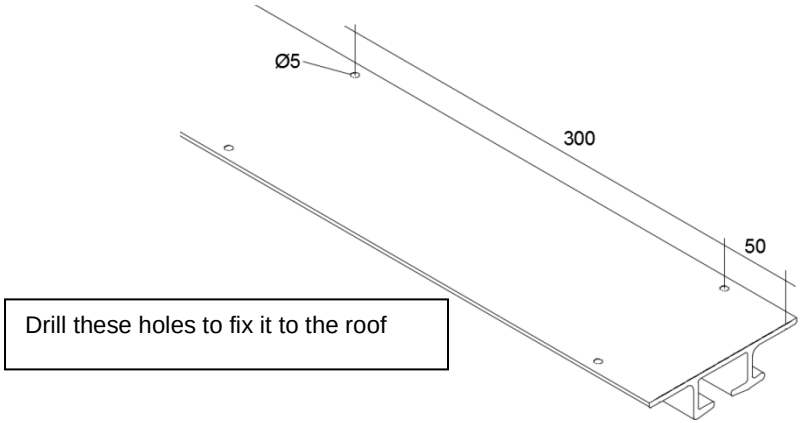


Fig. 8

Apply the “360 Hybrid” de 3M adhesive in the upper stripped part. It is convenient to apply the adhesive by zig-zagging. Stick the rail to the roof in its correct position then rivet it using aluminum rivets ø5 mm

MRF recommends the following procedure for chemical fixation:

- Clean both surfaces (ceiling and rail) with ***“AP 596” 3M adhesion promoter.***
- Apply the ***“360 Hybrid” 3M*** *adhesive by zig-zagging on all surfaces.*
- Wait at least 48 hours for the adhesive to cure.

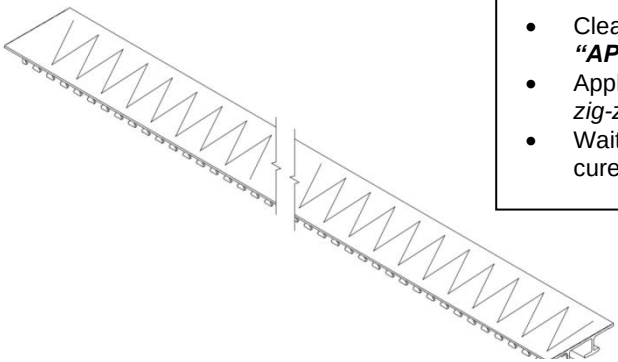
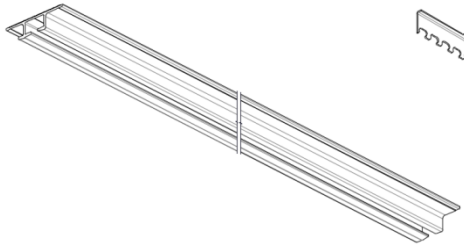


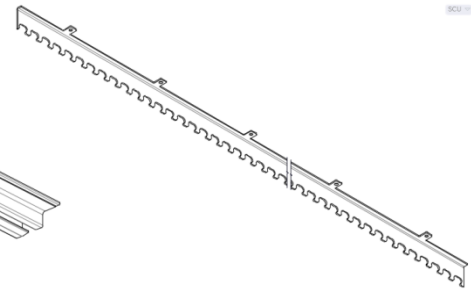
Fig. 9

REFERENCES USED

170020901. Aluminum rail 6.000 mm



270010230. Toothed rack profile 1950 mm



B. LIFTING ARMS

Drill the partition wall according to Fig. 3 and 4 for the installation of the lifting arms and the floor locking system.

Insert the lifting arms through the ends of the aluminum rails and slide it up to the correct position of the partition wall. To slide the lifting arms first you need to unlock them.

Then screw the lifting arms without the gas springs by using M10 screws.

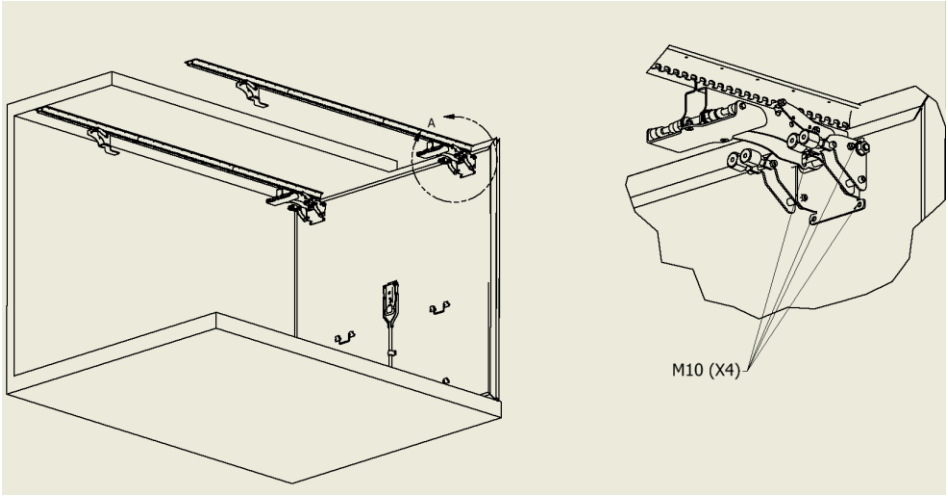


Fig. 10

To place gas springs, it is necessary to fold the partition wall.

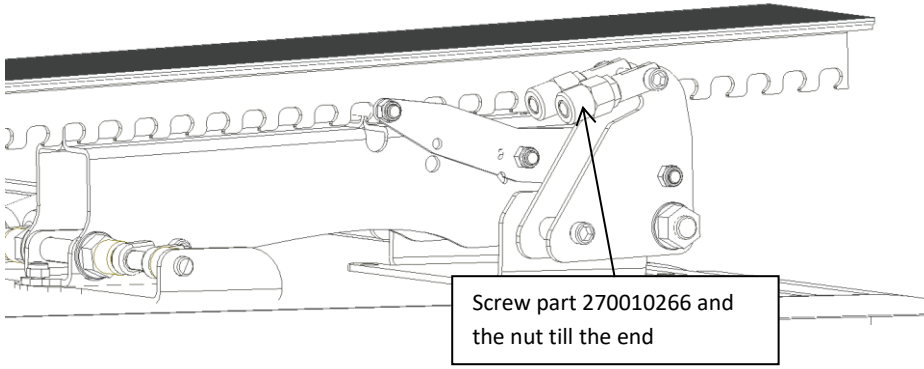
First, assemble reference (370010203) joining sets of two to the support by means of an Allen screws DIN – 912 A-2 M8x60 (301030263) and their respective anti-seize nuts M8 (301030207).

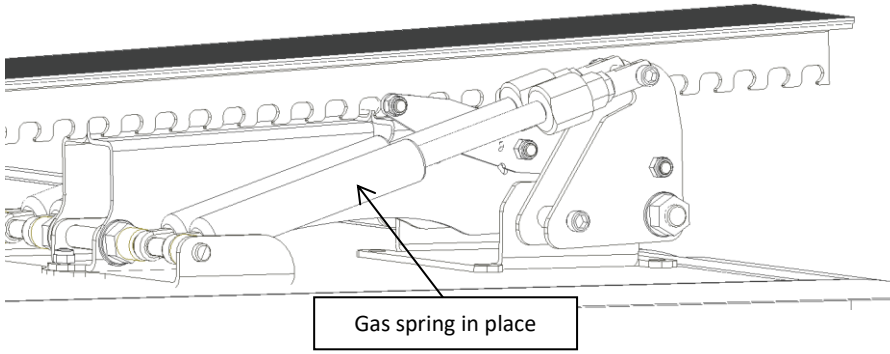
Next, screw the thin hexagonal nuts (301030251) and the male tensioners (270010266) until they reach the end of the thread.

After the said operation is done, screw gas spring shafts to the parts reference (270010267) (Female tensioner), to then screw the thick side of the gas spring to their respective terminals 370010205 (Spring Gas M8 Terminal)

Raise the partition wall and proceed to introduce the female tensioner in the male tensioner.

Last step is to provide tension to the gas springs by turning the male tensioner part 270010266 and holding part 270010267

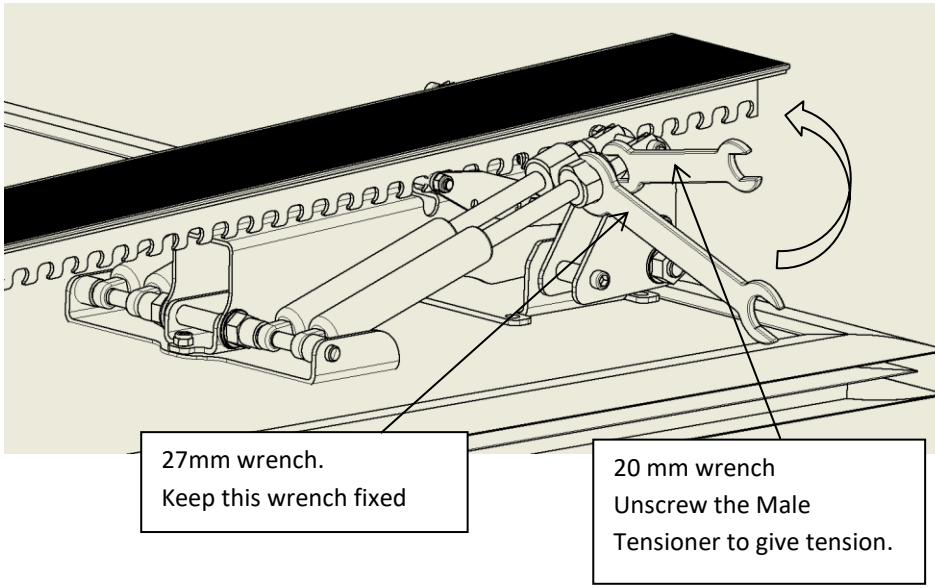

Screw part 270010266 and
the nut till the end


Gas spring in place

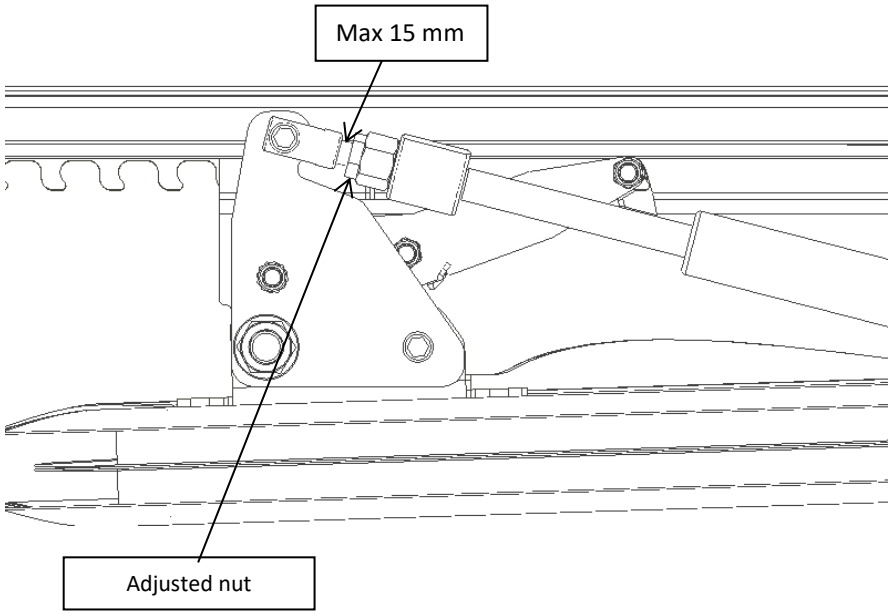
B.1 HOW TO GIVE TENSION TO THE GAS SPRING

Once the gas springs are in the correct position, they need to be tensioned so the partition wall can lift as much as possible.

To do this, use a 27 mm wrench to hold the "Female Tensioner" (270010267) and turn the "Male Tensioner" (270010266) with a 20 mm wrench to get the gas spring compressed.



After giving tension to the springs, tighten the nut to prevent the parts from becoming loose.



NOTE:

Be careful not to apply too much tension to the gas springs, maximum gap is **15mm**

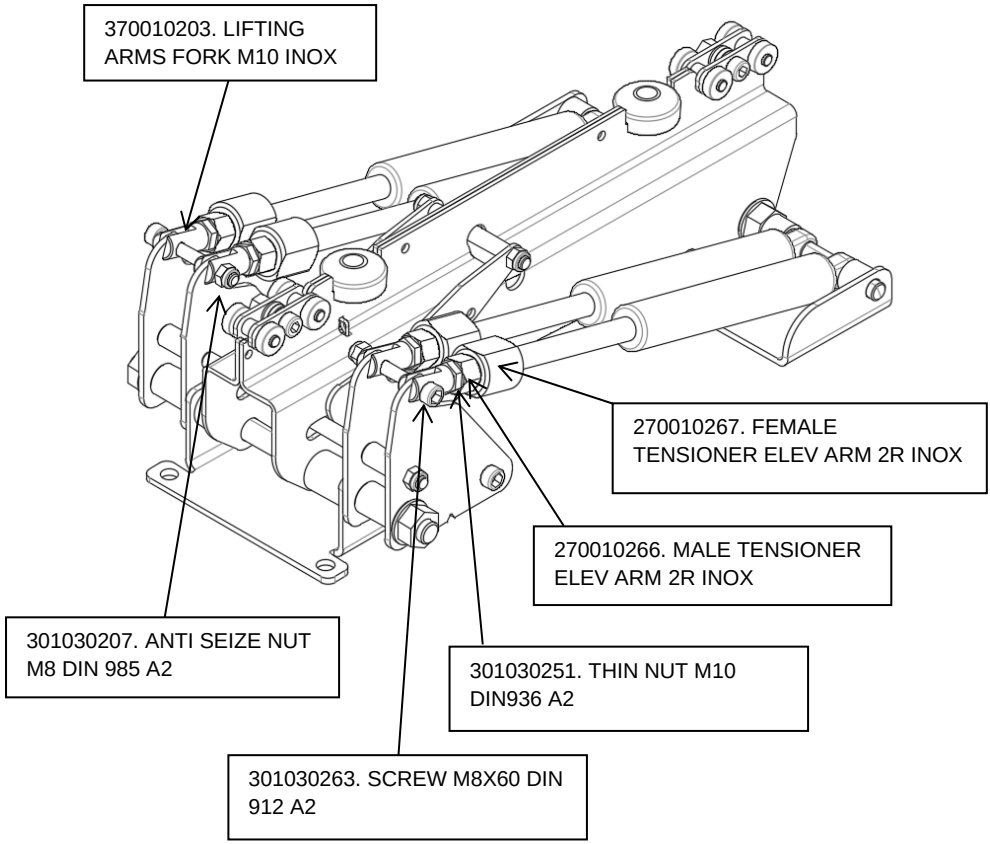
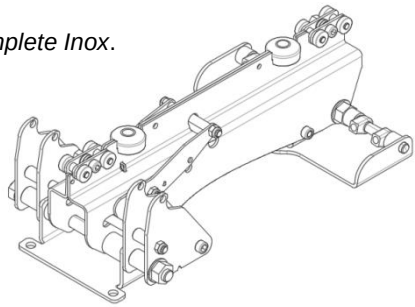

370010203. LIFTING ARMS FORK M10 INOX
270010267. FEMALE TENSIONER ELEV ARM 2R INOX
270010266. MALE TENSIONER ELEV ARM 2R INOX
301030207. ANTI SEIZE NUT M8 DIN 985 A2
301030251. THIN NUT M10 DIN936 A2
301030263. SCREW M8X60 DIN 912 A2

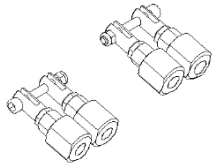
Fig. 12

REFERENCES USED IN KIT 2 ARMS ELEV 4 GAS SPRINGS TRAILER COMPLETE IN 470020203

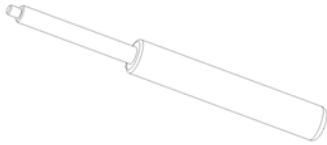
- *270020203. Lifting Arm 4R Trailer Complete Inox*.



- *470020204. Kit Arm Forks 4R Inox*



- *GAS SPRINGS:*
  - *370010206. GAS SPRING L268 2000 N*
  - *370010209. GAS SPRING L268 1500 N*
  - *370010202. GAS SPRING L268 1000 N*



C. FLOOR LOCKING SYSTEM AND HANDLES

Next step is to screw the floor locking system to the partition wall with M8 screws by the holes done in the instruction B see Fig. 4

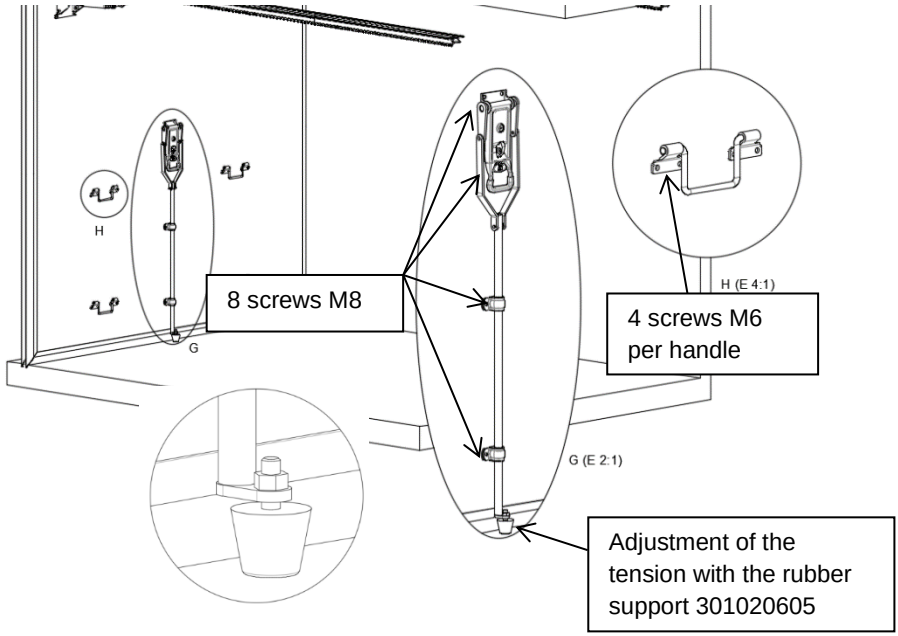
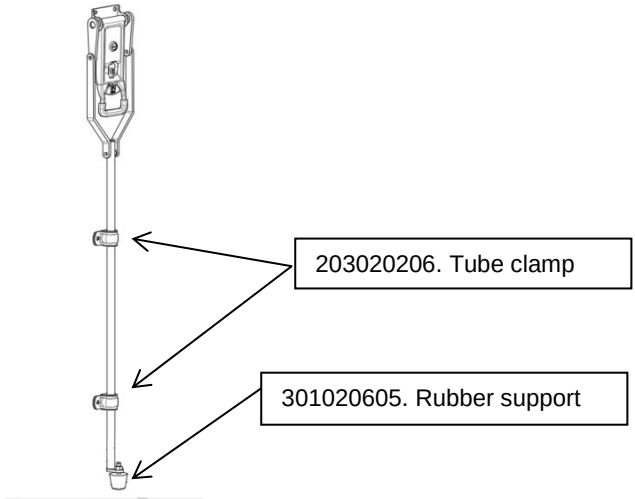


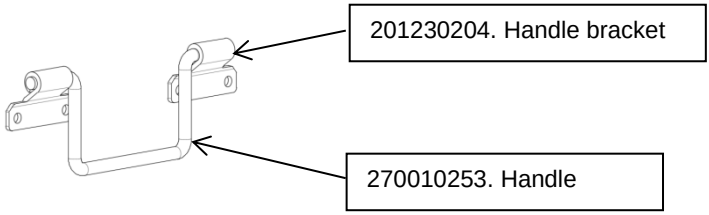
Fig. 13

REFERENCES USED

- 470010250. Floor locking system

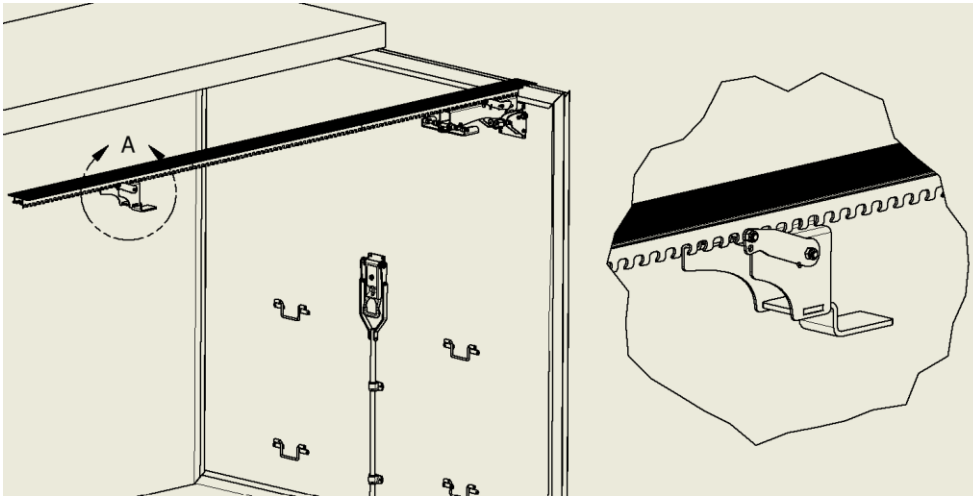


- 470010253. Partition wall handle



D. CEILING LOCKING SYSTEM

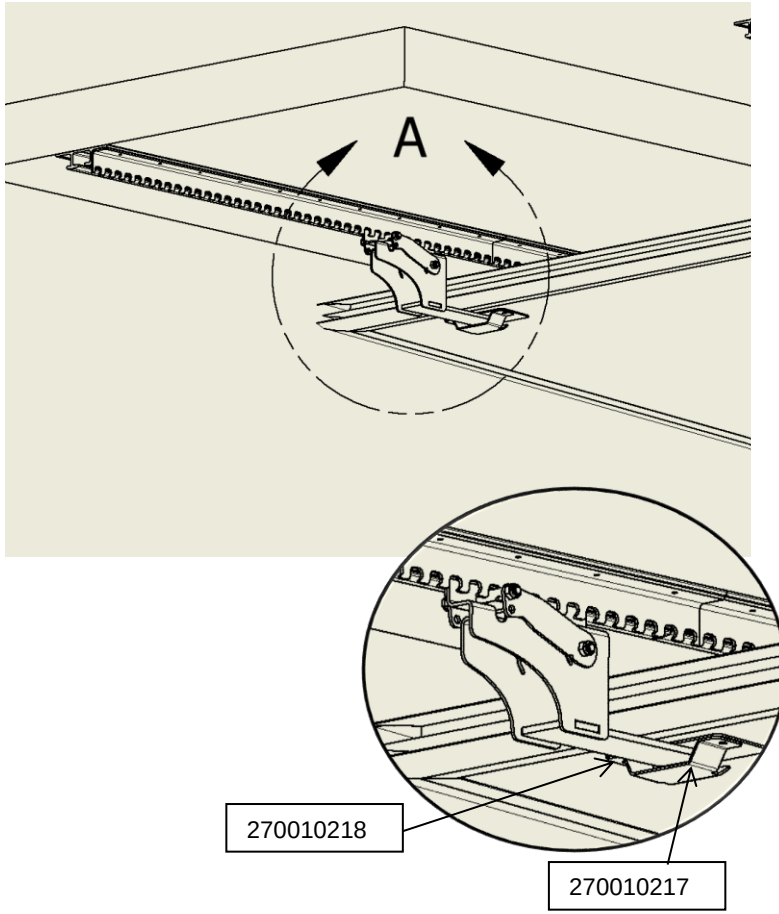
At this point, the ceiling locking system can be positioned by sliding it on the rail.



When the panel is raised, the ceiling fixing system should ALWAYS be used.

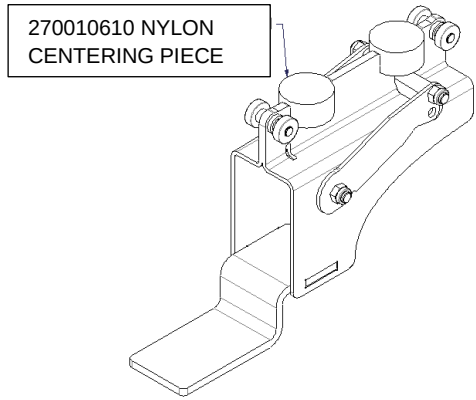
The use of 2 Ceiling Locking Systems is mandatory.

Last of all, the locking system plate and counter-plate need to be fixed to the backside of the panel to hold it when lifted.

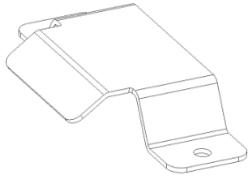


PARTS LIST FOR CEILING LOCKING SYSTEM KIT TRAILER IN 470020247

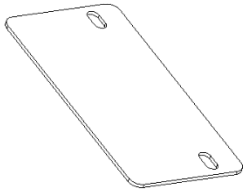
- 270020247 CEILING LOCKING ASSEMBLY COMP FOR TRAILER INOX



- 470010217 PLATE AND COUNTERPLATE INOX KIT
- 270010217. Ceiling plate



- 270010218. Ceiling counterplate



E. END CAP

Use end caps at the extremity of the aluminum rail to limit the movement of the partition wall.

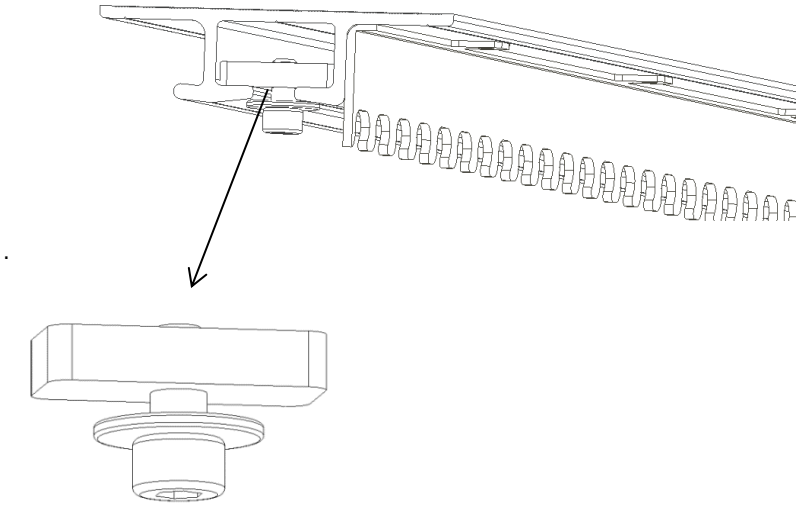


Fig. 14

- *REFERENCES USED*

- *470010600. Kit rail cap*