

Users Manual

EXSIDE





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1 Introduction

1.1 General

Dear driver,

Congratulations on the purchase of your new moving floor trailer. An indispensable tool in your daily work. Our greatest concern is with your safety. This manual plays an important role in this, however only in conjunction with the "General Users Manual" supplied with the trailer



Before using the trailer for the first time, read the "General Users Manual" and then this "EXSIDE Users Manual" carefully to prevent accidents and/or serious damage. If you have any questions or comments, please contact us via www.knapen-trailers.eu/contact

Trailers of type KT01 and KT02 (see type plate) are provided with CE marking. This means that the trailers comply with the applicable European directives. The accompanying Declaration of Conformity specifies these guidelines.



Knapen Trailers B.V. excludes liability for unsafe situations, accidents and damages resulting from:






- Ignoring warnings or instructions as displayed on the trailer or described in this documentation.
- Use for other applications or under conditions other than those specified in this documentation.
- Modifications made to the trailer, including the use of replacement parts other than original replacement parts.
- Insufficient maintenance.
- Unauthorised removal of safety guards and/or safety measures.
- Inexpert or improper use of the trailer.

Knapen Trailers B.V. cannot be held liable for the consequential damage caused by malfunctions of the trailer (e.g. damage to products, business interruption).

We wish you many safe kilometres!

1.2 Symbols in this manual

This manual uses various symbols:

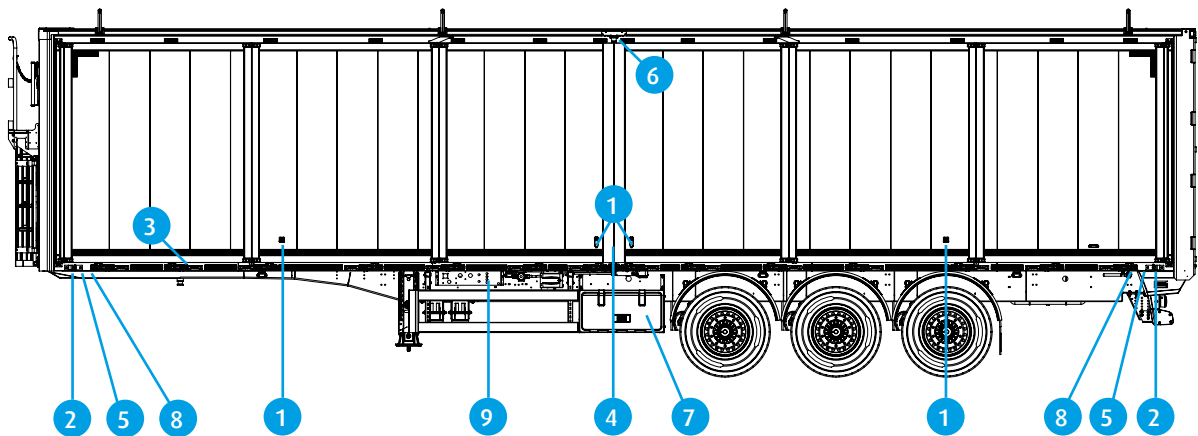
Symbol	Description
	A safety instruction follows this symbol. Failure to follow this instruction correctly may result in damage to your trailer, injury, and in some cases death.
	Additional information follows this symbol. For example, a link to another document or a useful tip.
	Reference to maintenance and/or cleaning.
	Reference in case of malfunctions.
	Further instructions are described in the general Users Manual Knapen Trailers.

2 Vehicle identification

2.1 Trailer position indications

NO	Description	Chapter
1	Door retainer	CH5.1
2	Locking point	CH5.1
3	Door locks	CH5.1
4	Handle mid-post	CH5.1
5	Securing point mid-post	CH5.1
6	Mid-post/centring point	CH5.2
7	Operation liftable upper rail (option)	CH5.4
8	Extra lock combined with liftable upper rail (option)	CH5.5
9	Operation air bag deflation	CH5.10

Positions may be different, depending on type and configuration



3 Safety



Read this chapter carefully prior to using the trailer.
Always apply the following points of attention in the daily use of the trailer.

3.1 Standard visual inspection before driving off




The visual inspection before driving off is very important for the safety of the driver, bystanders, and fellow road users.

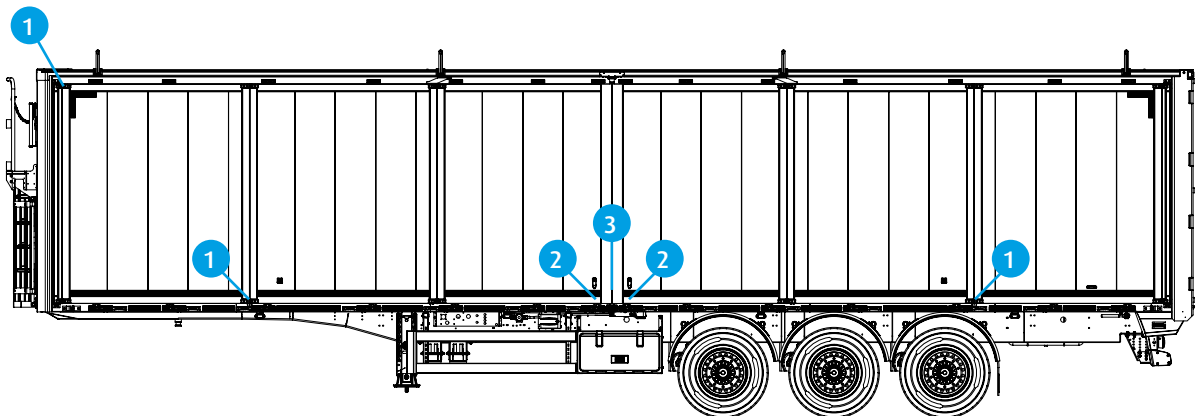
Points for attention are:

Make sure that all door locks on the side doors are correctly secured, both above and below.

3.2 Safety markings

Explanation of stickers used.

NO	Icon	Description	NO	Icon	Description
1		Risk of crushing hands	3		Danger
2		Moving load hazard			



4 General use of EXSIDE



General use of the trailer is described in the "General Users Manual".

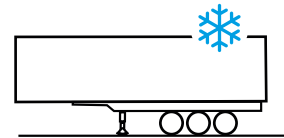
5 Using the EXSIDE



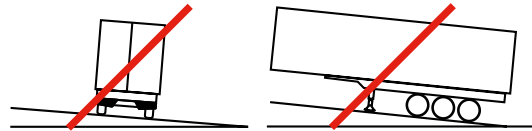
When transporting general cargo, the load must be secured in accordance with the guidelines.

Important points for attention are:

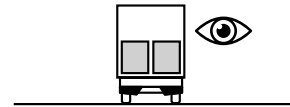
The roof system must be free of water, snow and ice before the side doors, mid post or upper rail are operated.



Make sure the trailer is straight and level during loading and unloading from the side.

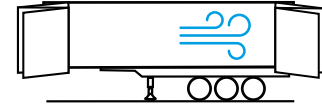


Check to see if any of the load is positioned against the rear doors by carefully opening the rear doors. This can be done using the pneumatic rear door locking device (see general users manual).

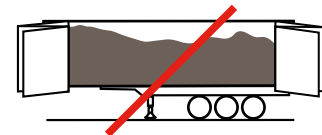


Check via the rear of the trailer to see if any of the load has shifted before opening the side doors.

Apply caution when operating the side doors during high winds.

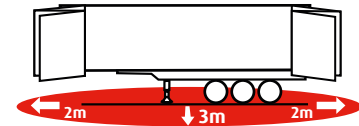


Do not open the side doors with bulk loads in the trailer.



Check the available space around the trailer before opening the side doors.



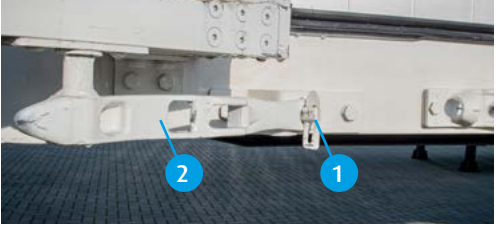


- Distance side (door side) of the trailer: 3m
- Distance in front of the trailer: 2m
- Distance behind the trailer: 2m




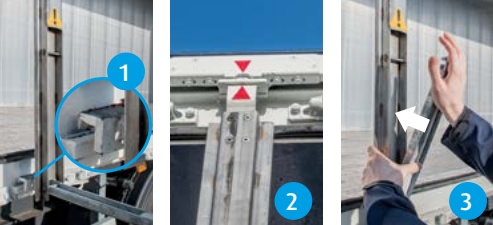

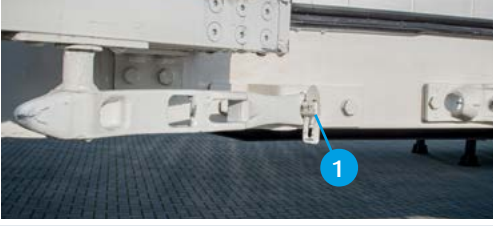







The user instruction lists the side doors of the trailer from front to back as illustrated.



5.1 Opening the side

Step	
1 Release the door handles on door 3.	
2 Fold door 3 against door 2 and secure it with the door retainer.	
3 Release the door handles on door 1 and door 2. Use one of the door handles to pull the complete set of doors outwards and roll the doors to the front.	
4 Secure the set of doors at the locking point (1) using the door handle (2).	
5 Repeat the last four steps to open doors 4, 5 and 6.	
<p> Caution: the weight of the upper rail may create pressure against the handle.</p> <p>6 Hold the handle and release the mid post by pressing the locking slide block (1). Slowly move the handle outwards (2) and release the mid post (3).</p>	
7 Place the handle back in the mid post. Pull the bottom of the mid post outwards and roll it to the front or rear of the trailer.	
8 Secure the mid post using an elastic strap.	


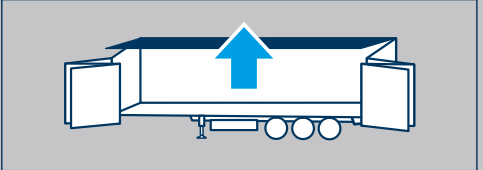
5.2 Closing the side

Step	
1 Release the mid post and roll it to the centre of the trailer.	
2 Release the handle of the post and place it in the claw at the bottom (1). Make sure the centring arrows align at the top (2). Push the handle upwards until it is far enough in the post and secured (3).	
3 Make sure the locking slide block is properly engaged and secured.	
4 Open the locking point (1) to release the front set of doors.	
 Make sure your hands do not become trapped when closing the doors.	
5 Roll the front set of doors closed and close the door handles on door 1 and 2.	
 When closing the door handles, make sure the cam is positioned correctly in front of the retainer plate, both above and below.	
6 Release the door retainer of door 3. Close door 3 in the same way as door 1 and 2.	
7 Repeat the last three steps to close doors 4, 5 and 6.	

5.3 Opening side with liftable upper rail (option)








Note: If the trailer is equipped with the liftable upper rail option, first follow the steps described in CH 5.1 "Opening the side". Then continue with the steps below.

Step	
1 Loosen the straps or central sheet fastening (option) of the roof sheet.	
2 Release the elastic straps at the front and rear.	
3 Make sure the rear bar is in position and the rear upper beam is closed.	
4 Make sure the moveable bulk head is fully against the head board.  Make sure the moveable bulk head does not roll back.	
5 Lift the upper rail by operating the pump. See CH 5.4 "Operating the liftable upper rail".	

5.4 Operating the liftable upper rail (option)





5.4.1 Manual pump

Step	Operation	
1	Remove the handle from the holder (1). Insert the handle into the pump (2).	
2	Place the pump lever in the desired position.  Lift upper rail.  Lower upper rail.	
3	Start pumping. Build up pressure (pump ± 15 times). Lift upper rail (pump ± 15 times). Stop at the desired or highest position.	

5.4.2 Pneumatic pump



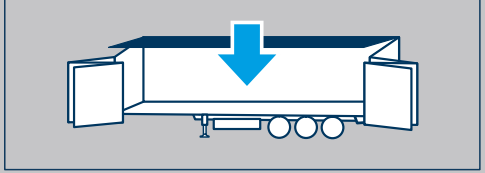

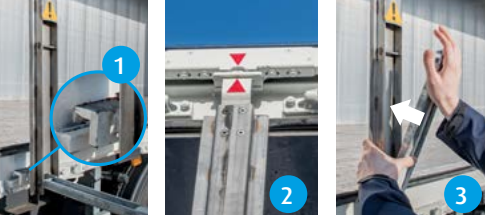

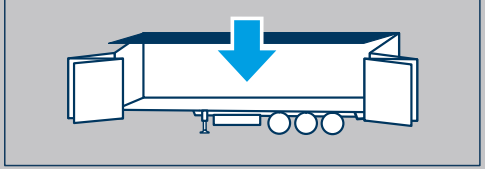
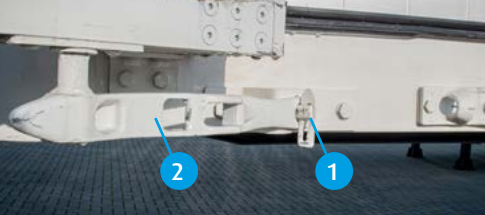

During operation, run the motor of the truck for the air supply.

Step	Operation	
1	Place the pump lever in the desired position.  Lift upper rail.  Lower upper rail.	
2	Push the control lever to the right to lift or lower the upper rail. Build up pressure (± 15 secs.). Stop at the desired or highest position (the pump will automatically stop).	

5.5 Closing the liftable upper rail (option)



Before lowering the upper rail, check that the entire load is inside the trailer.

Step	
<p>1 Lower the upper rail by operating the pump. See CH 5.4 "Operating the liftable upper rail".</p>	
<p>2 Release the mid post and roll it to the centre of the trailer.</p>	
<p>3 Release the handle of the post and place it in the claw at the bottom (1). Make sure the centring arrows align at the top (2). Push the handle upwards until it is far enough in the post and secured (3).</p>	
<p>4 Make sure the locking slide block is properly engaged and secured.</p>	
<p>5 Pump another ± 4 times/secs. to fully engage the upper rail at the front and rear. See CH 5.4 "Operating the liftable upper rail".</p>	
<p>6 Open the locking point (1) and fold the door handle (2) away from the locking point.</p>	
<p>7 Push the set of doors fully open, hold down the locking device (1) and pull the set of doors to the centre.</p>	



Make sure your hands do not become trapped when closing the doors.



8

Roll the front set of doors closed and close the door handles on door 1 and 2.



When closing the door handles, make sure the cam is positioned correctly in front of the retainer plate, both above and below.



9

Release the door retainer of door 3. Close door 3 in the same way as door 1 and 2.



10

Repeat the last four steps to close door 4, 5 and 6.



11

Reattach the straps or central sheet fastening (option) and the elastic straps at the front and rear.



5.6 EXSIDE with side doors on both sides

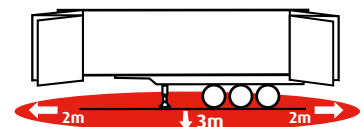
Points for attention are:

Both sides may be fully opened to load and unload the trailer.

Make sure the rear doors are closed during loading and unloading when both sides are open.



Make sure there is enough space on both sides of the trailer to operate the doors.



5.7 Using the rotating upper beam with side doors (option)

When using the rotating upper beam only door 3 and/or door 4 may be opened.

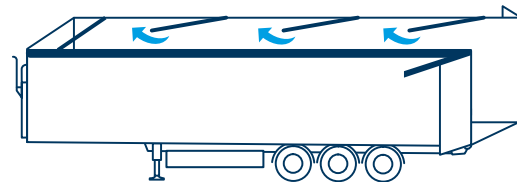
The other doors should always be closed when the rotating upper beam is used.



Secure door 3 and/or 4 using the door retainer.



When using the rotating upper beam the first bar should always remain in position. The other bars may be opened.



The other steps to be followed are described in the Knapen Trailers Users Manual.

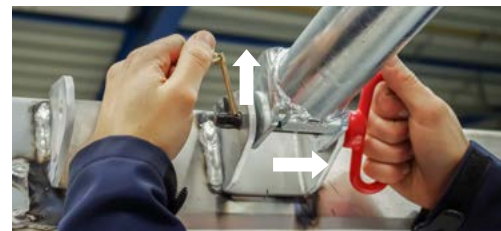
5.8 Using the bars



Note: When the pin is released the bar may lower ($\pm 20\text{cm}$). Ensure a stable and safe position when performing the steps below.

Operation

- 1 Remove the locking device from the bar. The pin can now be completely removed.



- 2 After the bar has been released, place the pin and locking device back into the crossmember support.



- 3 Turn the bar completely away and hook it into the designated holder.



5.9 Weight distribution/loaded

Points for attention are:

Make sure the weight is distributed evenly for optimal closing of the side doors and optimal handling.

Distribute the load properly if cargo has to be delivered to various addresses.

Always close doors 1-3 first, then doors 4-6.

If the doors fail to close properly due to uneven weight distribution see CH 5.10



5.10 Methods for closing the side doors

5.10.1 Airbag deflation

If the door handles do not align with the retainer plates, activate the airbags deflation on the 3rd axle.

The switch is located on the height control panel.

Press the button briefly (<5 secs.) to vent the airbags on the 3rd axle.

If the button is pressed for >5 seconds, the airbags will be deactivated again.



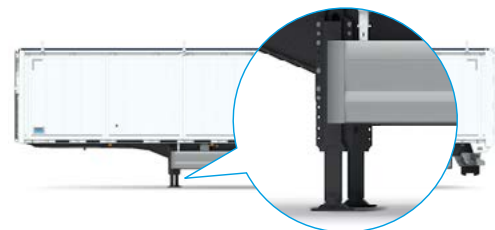
If the airbags have been vented, the support to the rear part of the chassis will alter. The degree of bend between the kingpin and the axles will change, which will also alter the position of the retainer plates in relation to the door handles. Depending on the weight distribution, this may have the desired effect.

5.10.2 Landing legs

In an extreme situation it may be necessary to use the landing legs in addition to the airbags to align the door handles with the retainer plates. If this situation is expected in advance, it is advisable to place the landing legs on the ground first before loading.

Step

- 1 Place the air suspension of the truck in the highest position.
- 2 Fold down the landing legs until they reach the ground.
- 3 Lower the air suspension of the truck until the door handles are aligned, then close the doors.



The landing legs support the chassis and allow the chassis to lift at the centre, which allows the doors to close.

5.11 Loading/unloading from the side

Points for attention are:



When loading and unloading at the front and rear in combination with the liftable upper rail, make sure the load (and/or fork-lift) does not touch the fixed rails as this can cause damage.



When loading or unloading pay attention to the height of the load so it does not touch the upper rail (1).

Make sure the load and the forks of the fork-lift are sufficiently high to avoid catching on a floor profile, side profile or lashing hook.

Do not slide the load over the floor. Lift the load at all times.



5.12 Using the PowerSheet® (option)

Points for attention are:

If the sheet closes on the same side as the side doors, make sure the side doors are fully closed when the sheet is opened and closed.



Make sure at least three bars (front-centre-rear) are in position so the sheet can roll and unroll properly.



5.12.1 Using the PowerSheet® with a liftable upper rail (option)

Points for attention are:

If the sheet closes on the same side as the side doors, make sure the side doors are fully closed when the sheet is opened and closed.

Before lifting the upper rail, ensure that the cover is closed but not tensioned.

Never tension (close) the sheet when the upper rail is lifted.

Make sure at least three bars (front-centre-rear) are in position so the sheet can roll and unroll properly.

6 Maintenance and cleaning

Side doors	daily	weekly	monthly	annually
Condition of rubber lower side	x			
Condition of rubber upper side	x			
Condition of vertical rubber (in the door)	x			
Condition of hinges		x		
Condition of rollers door guides		x		
Condition of door locks		x		
Clean rubber seals	x			
Clean hinges		x		
Clean inner sliding runner		x		
Clean outer sliding runner		x		

Mid post	daily	weekly	monthly	annually
Clean the claw at the bottom	x			
Condition of locking slide block mid post	x			
Condition of rubber mid post	x			
Condition of rollers mid post*		x		



Liftable upper rail	daily	weekly	monthly	annually
Check rail joint front and rear	x			
Clean rail joint front and rear	x			
Check oil level pump			x	
Check additional door lock		x		
Check for oil leaks		x		

*The rollers should be replaced from the centre



7 Troubleshooting

7.1.2 Emergency operation pneumatic pump

Step	Operation
1	Remove the handle from the holder (1). Insert the handle into the pump (2).
	Place the pump lever in the desired position.
2	 Lift upper rail.  Lower upper rail.
3	Start pumping horizontally. Build up pressure (pump ± 15 times). Lift upper rail (pump ± 15 times). Stop at the desired or highest position.



7.2 Troubleshooting EXSIDE

System malfunction	Cause	Solution
Mid post not movable	Roller mechanism is damaged	Contact your service point workshop
	Blockage in rail	Unblock
Locking mid-post is difficult / does not function	Frozen	Place trailer in heated area
	Claw is dirty	Clean the claw at the bottom
	Spring broken in sprung locking catch	Secure the handle and contact your service point workshop
	Partial load too heavy in the centre	Roll the front set of doors to the centre
Locking slide block in mid post has broken off	Too much pressure on the upper rail	Contact your service point workshop
	Incorrect securing method	
Moveable bulk head sticks at the mid post	Mid post angled inwards due to load between door 3/4 and the mid post on the outside.	Clean the space between door 3/4 and the mid post when the trailer is empty
Moveable bulk head sticks at the front	Roller is broken	Replace roller
	Joint damaged	Contact your service point workshop
	Height difference	Lower upper rail completely
Upper rail does not lift (high enough)	Valve in incorrect position	Place valve in the correct position
	Mechanical blockage	Check for mechanical blockage
	Not enough oil	Top up the oil
	Too cold, oil too thick	Place trailer in heated area
Frozen due to ice deposits		
Upper rail does not fully lower	Accumulation of dirt on the steel rails	Lift the upper rail and clean the top of the steel rails
	Sheet at the front is stuck between the bulkhead and the upper rail	Lift the upper rail and release the sheet
Doors do not close	Pressure caused by load	Use relieves, eventually in combination with landing legs (see CH 5.10)
	Trailer is distorted	Drive carefully to a flat surface
Doors 3 and 4 do not close	Mid post incorrectly positioned	Fully open both sets of doors, release the mid post and position it in the right place
Door handle or door retainer bent/broken	Incorrect securing method	Contact your service point workshop
	Too much pressure (wind) on the door panel	
Additional door lock does not loosen (liftable upper rail)	Accumulation of dirt	Release the lock using the sheet stick and contact your service point workshop
	Set of doors not fully open	Push the set of doors fully open, hold down the locking device and pull the set of doors to the centre



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