

# VERMEIREN

## Altitude XXL - Coraille XXL

INSTRUCTION MANUAL



EN

**Instructions for specialist dealer**

This instruction manual is part and parcel of the product and must accompany every product sold.

Version: A, 2018-09

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## **Preface**

First of all we want to thank you for putting your trust in us by selecting one of our products.

Vermeiren products are the result of many years of research and experience. During the development, special attention was given to the ease of use and the serviceability of the product.

The lifetime for the product is strongly influenced by the care and maintenance of the product.

This manual will help you get acquainted with the operation of your product.

Following the user instructions and the maintenance instructions are an essential part of the warranty.

This manual reflects the latest product developments. Vermeiren has the right to introduce changes without the obligation to adapt or replace previously delivered models.

For any further questions, please consult your specialist dealer.



## 1 Product description

### 1.1 *Intended Use*

With the ALTITUDE XXL / CORAILLE XXL shell chair, you have acquired a product that was developed entirely for your comfort. The ALTITUDE XXL / CORAILLE XXL has been designed exclusively for people with limited mobility. You will need a helper for indoor transporting of the ALTITUDE XXL/CORAILLE XXL, and the chair might also need its own storage place. Please read the instruction manual carefully to familiarize yourself with your product. It has not been designed for outside usage.

The different types of fittings and accessories, and the modular construction allow full use by persons disabled by:

- paralysis
- weak/malformed limbs
- injuries of the joints
- diseases like heart problems, poor circulation, disturbance of balance, cachexia and old-age illnesses

The indication to use this product must take into account the following elements:

- body size and weight (**max. load 150 kg**)
- physical and psychological condition
- home environment

Use only Vermeiren approved accessories.

The manufacturer is not liable for damage caused by the lack of or improper service or as a result of not following instructions from this manual.

Compliance with the user and maintenance instructions are an essential part of the guarantee conditions.

## 1.2 Technical specifications

Technical terms below are valid for the product in standard settings.

If other footrest or other accessories are used, the tabulated values will change.

<b>Make</b>	Vermeiren				
<b>Address</b>	Vermeirenplein 1/15, B-2920 Kalmthout				
<b>Type</b>	Shell chair				
<b>Model</b>	ALTITUDE XXL / CORAILLE XXL				
<b>Maximum occupant mass</b>	150 kg				
Description	Min.	Standard		Max.	
Overall length with legrest	1120 mm				
Effective seat width	380 mm	400 mm	420 mm	440 mm	480 mm
Overall width (depends on the seat width)	570 mm	600 mm	620 mm	640 mm	660 mm
Overall height	1190 mm		1215 mm		1240 mm
Total mass	Approx. 25 kg				
Static stability downhill	6% (in standard configuration)				
Static stability uphill	6% (in standard configuration)				
Obstacle climbing	Not applicable				
Seat plane angle	-4° to +36°				
Effective seat depth	460 mm				
Seat surface height at front edge	450 mm		520 mm		560 mm
Backrest angle	90°				
Backrest height	750 mm		770 mm		790 mm
Distance between footrest and seat	350 mm			535 mm	
Angle between seat and footrest (seat inclination is horizontal)	0°			63°	
Armrests height	230 mm		250 mm		270 mm
Storage and use temperature	+ 5 °C			+ 41 °C	
Storage and use humidity	30%			70%	
<b>We reserve the right to introduce technical changes. Measurement tolerance ± 15 mm / 1,5 kg / °</b>					

*Table 1: Technical specifications*

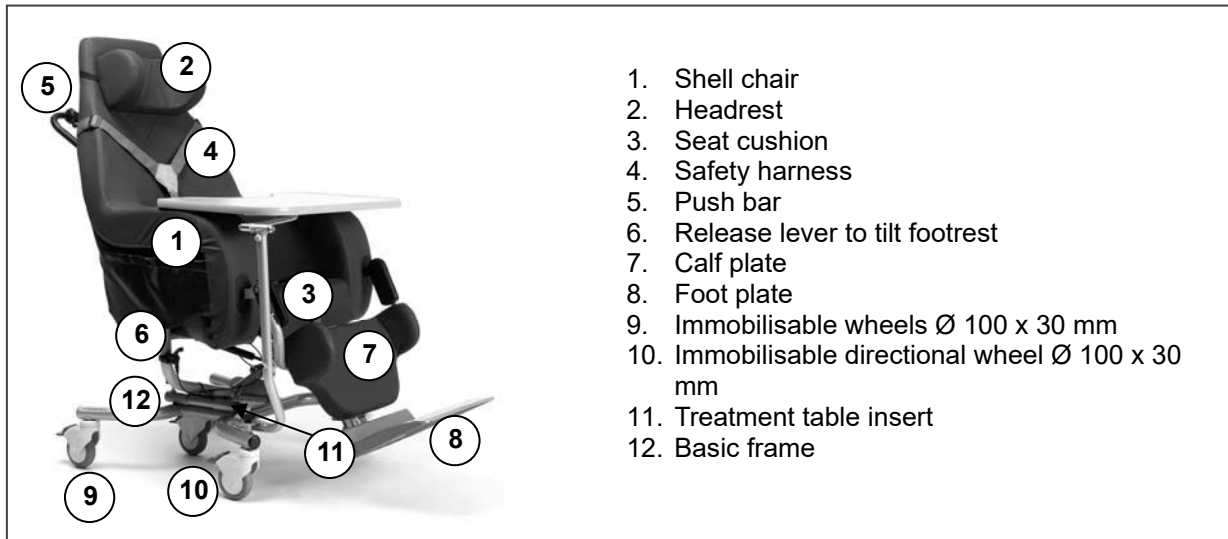
The frame of the ALTITUDE XXL / CORAILLE XXL shell chair is made of aluminum. The shell chair is made of a composite synthetic material and the cover of pressurized plastic foam. The use of bilastic covers increases adaptability of the seat to the user. However, an imitation leather cover is also available. The footplates have been made of high-resistance ABS synthetic material.

The angle of the shell and the leg supports can be adjusted by means of a pneumatic cylinder.

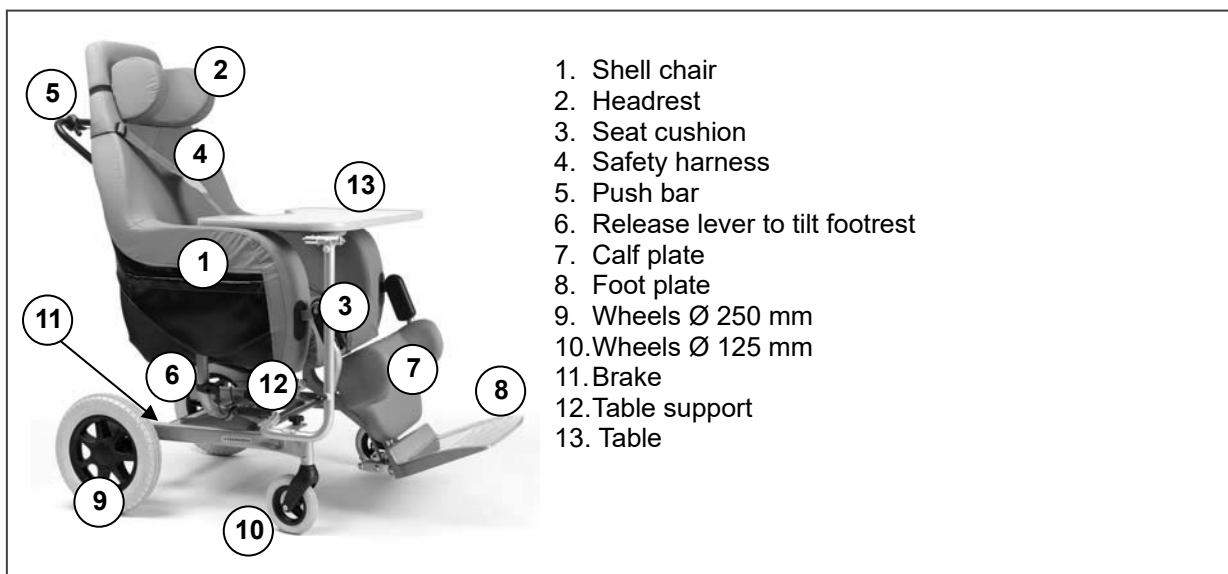
The seat cushions come in different thicknesses, with the SOFT version also made of pressurized plastic foam and a bilastic cover. An imitation leather cover will be supplied on request.

### 1.3 Drawing

- Shell chair ALTITUDE XXL



- Shell chair CORAILLE XXL

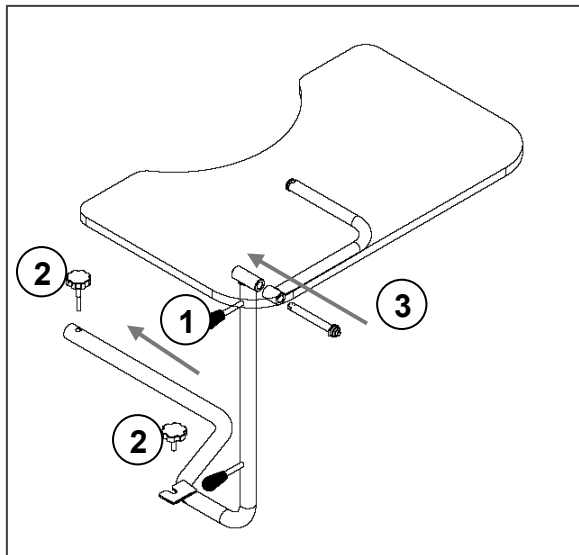


## 1.4 Accessories

The following accessories are available for the ALTITUDE XXL, CORAILLE XXL:

### • TREATMENT TABLE (B12)

If, while using your shell chair, you want to enjoy the possibility of taking your meals, writing or performing other activities that require a working surface, we offer a treatment table – featuring a cut-out for your abdomen (B12) – that can be lowered down to the side if not required, or placed on the armrest cushions by inserting the guide located under the shell chair into the sockets provided to that intent.



- ① Insert the B12 support into the sockets provided to this intent on the underside of the frame.
- ② Secure the support to the underside of the frame with the fixing screws.
- ③ Insert the floating axle from the front through the table sockets and then through the B12 support. (To set the table closer to your body, the floating axle could also be inserted first through the B12 support and then through the table support).

- ⚠ A plastic washer must be placed between the table and the B12 supports. When the treatment table is removed, take care that you do not lose the washer.
- ⚠ Use the table only when seated in the upright position.
- ⚠ For proper use of the treatment table (B12): please note that the fitting can only be attached to the right side of the chair.
- ⚠ Before using the table, make sure that all screws have been tightened properly.
- ⚠ To prevent injury and/or damage, make sure that no objects or body parts could be compressed between the table and the armrest cushion.
- ⚠ To avoid injury and/or damage there should be no persons and/or objects on the right side of the shell chair when the board is lowered.
- ⚠ When using or lowering the treatment table, the immobilizers must be engaged to prevent the chair from moving on its own as a result of the movements on the chair as this might cause injury and/or damage.
- ⚠ Only your specialist dealer should be allowed to fit these accessories – only he has suitable tools and required expertise.
- ⚠ Your warranty claim will be voided in the case of injury and/or damage due to unauthorized persons having improperly fitted the accessories.




- **SAFTY HARNESS**

(Included depending on version and place of sale)

The safety belt is secured behind the backrest with buckles. When using the seat-belt, take care that the straps be placed in such a way that both the shoulder- and pelvis-straps straight, i.e. untwisted, on both shoulders and both sides of the body.

Mount the waist belt around the waist of the patient. Click the buckles of the belt in each other. If needed adjust the waist belt. Mount the safety harness around the body of the patient. Cross the harness around the back of the shell chair. Click the buckles of the harness in each other. If needed adjust the safety harness.

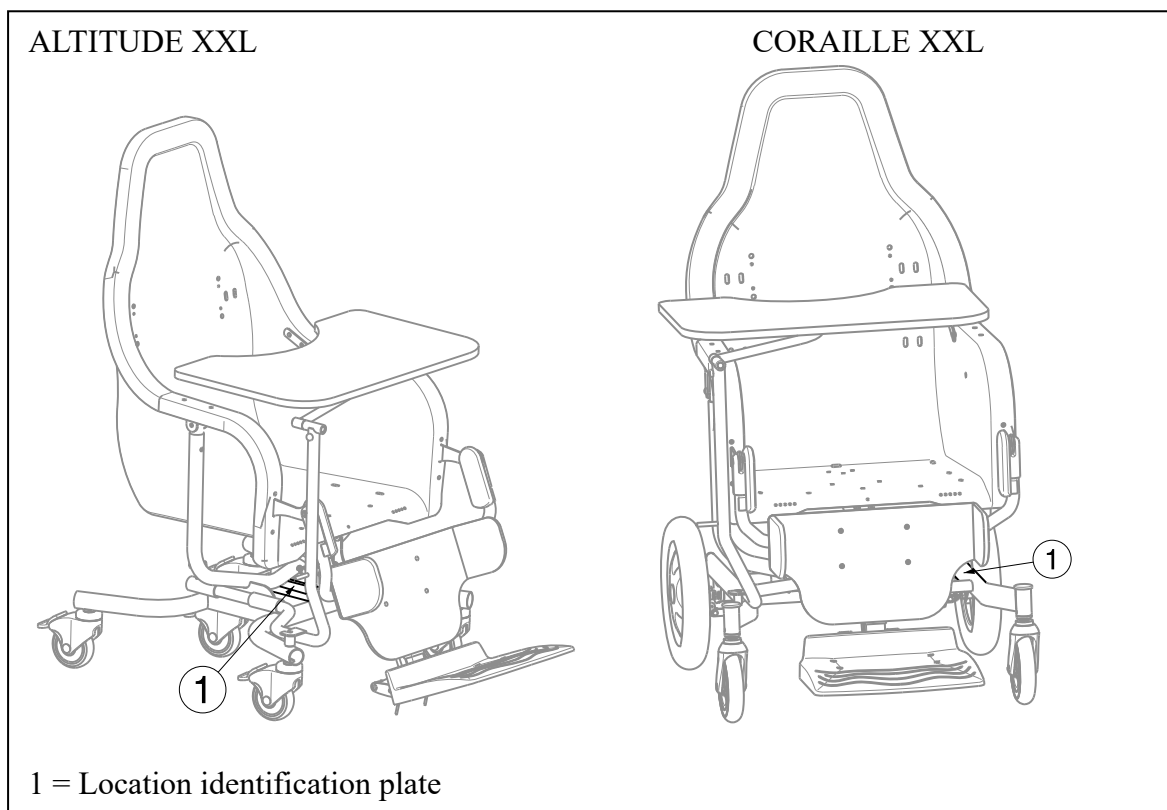
 Use the seat-belt only with the consent of the patient or his/her authorized representative.

- **PILLOW**

(Included depending on version and place of sale)

An elastic strap attached to the pillow enables placing thereof on the upper part of the seat at the height of the head. The pillow comes with a hollow in which the patient can rest his/her head. The material used for the cover and inside of the pillow is the same as that used for the cover of the shell chair.

## 1.5 *Location identification plate*



## 1.6 *Explanation of symbols*



Maximum mass



Indoor use only



CE conformity



Not intended to be used as a seat in a Motor vehicle



Type designation

## 1.7 *For your safety*

Take note of the following safety hints:



Use your shell chair strictly according to regulations. For example, avoid uncontrolled rolls against an obstacle (step, edge of the kerb) or jumping down from a landing or a ledge.



Never cross steps, ledges or other obstacles with a patient seated on the chair. If alternatives like ramps or lifts are available, use them.



Regularly check that the wheel immobilizers function correctly.



Be careful when using possible causes of fire such as cigarettes since they may set the seat and back covers alight.



Never exceed the **maximum load (150 kg)**.



Never open the gas pressure springs: the inside pressure is very high and may result in injury!



If one of the gas pressure springs is damaged, stop using the shell chair immediately. Contact your specialist dealer and have the necessary repairs done without delay.



Use only genuine and original parts for maintenance work.

## 2 Use

This chapter describes the everyday use. **These instructions are for the user and the specialist dealer.**

The product is delivered fully assembled by your specialist dealer. The instructions intended for the specialist dealer on how to set up the wheelchair are given in § 3.

### 2.1 Recommendation for use CORAILLE XXL

The shell chair is intended for people who no longer have muscular behavior, so it is necessary to be particularly vigilant during its use.

It is imperative to choose the model that fits most precisely to the size of the patient.

During maintenance, check the good operation of the springs and the brake, make sure the buckles on the safety belt are securely locked.

The transfer from the patient to/from the shell chair must be with the brake activated and the leg rest must be in a vertical position and the footplate adjusted to the ground in order to avoid any tilting towards the front.

When the patient is installed in the shell chair, it is necessary to install the safety harness, which must be adjusted as close to the body as possible so that the person cannot slide under the harness after adjusting. The shell chair must be tilted to the backwards position to eliminate the phenomenon sliding out the harness.

Once the installation is completed, the shell chair must be parked with the brake activated on a perfectly level ground and after each movement, reactivate the brake.

For the elderly persons, the leg rests must be in the vertical position.

### 2.2 Recommendation for use ALTITUDE XXL

The shell chair is intended for people who no longer have muscular behavior, so it is necessary to be particularly vigilant during its use.

It is imperative to choose the model that fits most precisely to the size of the patient.

During maintenance, check the good operation of the springs and the four brakes, make sure the buckles on the safety belt are securely locked.

The transfer from the patient to/from the shell chair must be with the four brakes activated and the leg rest must be in a vertical position and the footplate adjusted to the ground in order to avoid any tilting towards the front.

When the patient is installed in the shell chair, it is necessary to install the safety harness, which must be adjusted as close to the body as possible so that the person cannot slide under the harness after adjusting. The shell chair must be tilted to the backwards position to eliminate the phenomenon sliding out the harness.

Once the installation is completed, the shell chair must be parked with the four brakes activated on a perfectly level ground and after each movement, reactivate the four brakes. For the elderly persons, the leg rests must be in the vertical position.

## 2.3 Transport the shell chair

Note the following when you transport the shell chair:

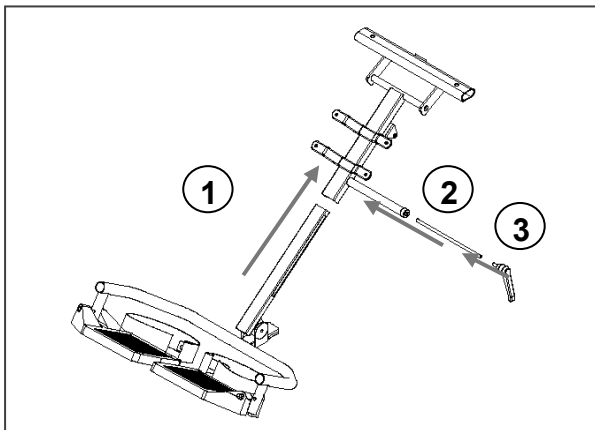
- ⚠ Never use the shell chair to transport a patient.

Use the relevant lever to set the seat in a horizontal position and remove the footplate. You may now let a minimum of two adults carry the shell chair.

- ⚠ Never pick up the shell chair by its wheels. Take hold only of fixed parts either on the front, on the back, or on the sides under the armrests.
- ⚠ At least two persons are required for moving the chair up or down staircases or over single steps. Do not tilt the chair during transporting.
- ⚠ To prevent personal injury or damage, there should be no people or objects under the shell chair during transportation.

## 2.4 Mounting / removing or adjusting footrests

- ⚠ **WARNING: Risk of injury - Before use, always check that the lever have been fastened properly.**



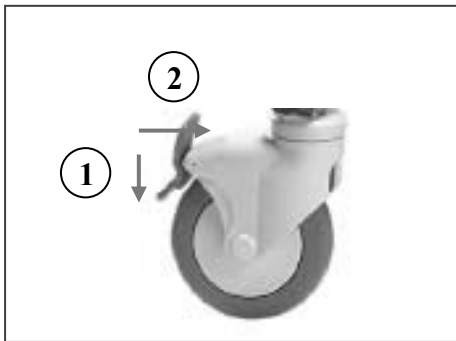
- 1 Insert the leg support guide into the socket below the calf plate.
- 2 Insert the safety rod into the side of the guide.
- 3 Put the lever into the side of the guide, set the length of the leg support and fasten the lever.

The length of the footrest (range 185 mm: step less) can be adjusted with the same instructions above.

## 2.5 Operating the brakes

- ⚠ **WARNING:** The brakes are not used to slow down the chair during movements – Use the brake only to prevent the chair from unintended movements.
- ⚠ **WARNING:** Good operation of the brakes is influenced by wear and contamination of the tires (water, oil, mud, ...) – Check the condition of the tires before each use.
- ⚠ **WARNING:** The brakes are adjustable and can wear – Check the operation of the brakes before each use.

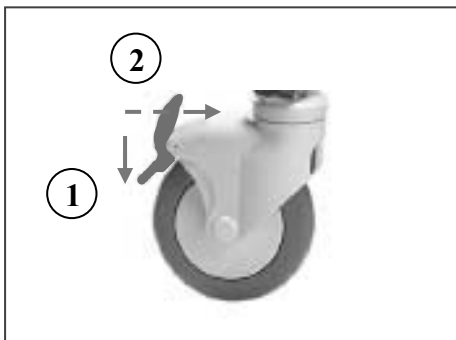
### 1. Running wheels / parking brakes (ALTITUDE XXL)



- ① **Engaging the parking brakes**  
With your foot, press the gray brake plate downwards till it locks in place. The wheels can now neither roll nor turn.
- ② **Disengaging the parking brakes**  
With your foot, press the gray brake plate in the direction of the frame. The wheels have now been released and can both roll and swivel.

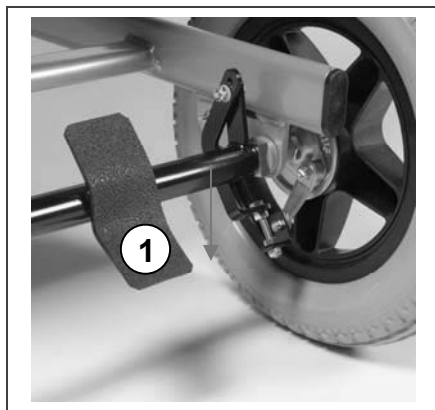
- ⚠ To put the shell chair in a parking position, all four wheels must be locked in place.

### 2. Directional locking (ALTITUDE XXL)



- ① **Engaging the directional lock**  
With your foot, press the red brake plate downwards till it locks in place. The directional lock has now been engaged and the wheels can run in a parallel direction only. This keeps the shell chair from moving sideways or swerving.
- ② **Disengaging the directional lock**  
With your foot, press the red brake plate in the direction of the frame tube. Your directional lock will now be disengaged. The shell chair can now be moved sideways.

### 3. Footbrake (CORAILLE XXL)



- ① Footbrake CORAILLE XXL at the back

## 2.6 *Transfer in and out the chair*

**⚠ CAUTION:** In case you cannot perform the transfer in a safe manner, ask someone to assist you.

1. Position the chair as close as possible to the chair, couch or bed to/from you wish to transfer.
2. Check brakes from the shell chair are in the on position.
3. Unfasten the height adjustment lever for the footrest so that the footplate touches the ground.
4. Transfer to/from the chair.

## 2.7 *Correct position in the chair*

Some recommendations for a comfortable use of the chair:

- Position your backside as close as possible to the back rest.
- Make sure your upper legs are horizontal – If needed adjust the seat height or the angle of the footrest.

## 2.8 *Moving / transporting the chair*

**⚠ WARNING:** Risk of clamping – Be careful passing through restricted passages (e.g. doors).

**⚠ WARNING:** Risk of burns – Be careful when using in hot or cold environments for a sufficient amount of time and when touching - Surfaces can assume the environment temperatures.

**⚠ WARNING:** Risk of injury – Never use the shell chair to transport a patient.

**⚠ WARNING:** Risk of injury – There should be no people or objects under the shell chair during transportation.

1. Engage the brakes.
2. Transfer the patient out the chair.
3. Disengage the brakes.
4. Transport the chair to the desired place on an horizontal underground.
5. Transfer the patient in the chair.
6. Engage the brakes.

## 2.9 *Negotiating steps*

### 2.9.1 Using ramps

**⚠ WARNING: Risk of tipping over – Never go up or down ramps without the aid of a helper.**

If you are considering the installation of ramps to overcome obstacles, kindly note the following:

The chair is intended firstly and mostly to be used inside on level and solid surfaces. Never go up or down ramps that are rough or have bumpy edges. Limit yourself to ascents or descents with a maximum angle of 6%.

### 2.10 *Transport in the car*

**⚠ WARNING: Risk of injury – See that the chair is attached properly. So you can avoid injury from the passengers during collision or sudden braking.**

**⚠ WARNING: Risk of injury – Use for attaching the chair and passenger NEVER the same seatbelt.**

**⚠ WARNING: Risk of injury – Never let anyone sit in the shell chair while you are transporting it in a private vehicle (not to use as a seat in a motor vehicle).**

1. Remove accessories.
2. Store footrests and accessories safely.
3. If possible, fold the chair.
4. Place the chair in the luggage place.
5. If the chair and the passenger compartment is NOT separated, attach the frame of the chair securely to the vehicle. You can use the available safety belts in the vehicle.

## 3 **Installation and adjustment**

**The instructions in this chapter are for the specialist dealer.**

To find a service facility or specialist dealer near you, contact the nearest Vermeiren facility. A list of Vermeiren facilities can be found on the last page.

**⚠ WARNING: Risk of unsafe settings - Use only the settings described in this manual.**

**⚠ WARNING: Variation of allowed adjustments can still change the stability of your product (tilt back or sideways).**

### 3.1 *Tools*

To set up the chair the following tools are needed.

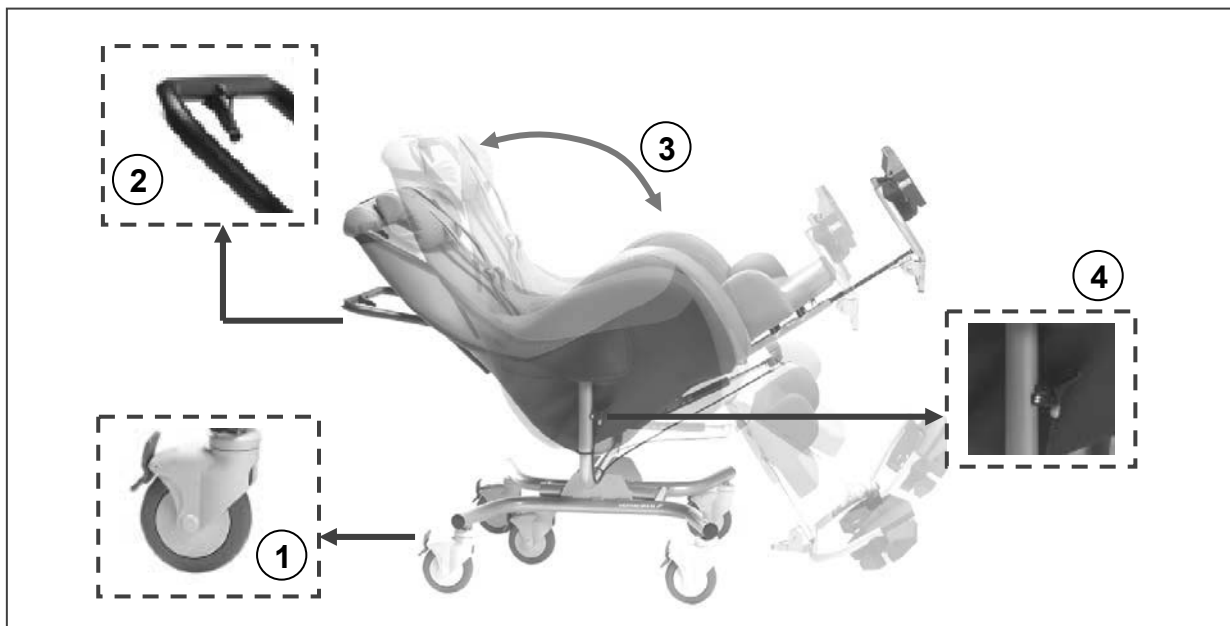
- Allen key set n° 4

### 3.2 Manner of delivery

The Vermeiren product shall be delivered with:

- 1 shell, rear and front wheels
- 1 pair footrests
- Tools
- Manual
- Accessories

### 3.3 Adjustment functions



- ① Fasten the brakes of the wheels.
- ② Pull the lever on the back tube to release the gas pressure spring.
- ③ Pull the push hoop in the desired direction to incline it backwards or set it in the horizontal position (+36° to -4°).
- ④ To set the angle of the footrest, pull the lever located below the right armrest.
- ⑤ While keeping in the release lever you will be able to set the footrest all the way up to the horizontal position (not on the same height as the seat cushion). Once the desired position has been reached, let go of the lever.



Always first fasten the brakes on the wheels before adjusting any of the settings.



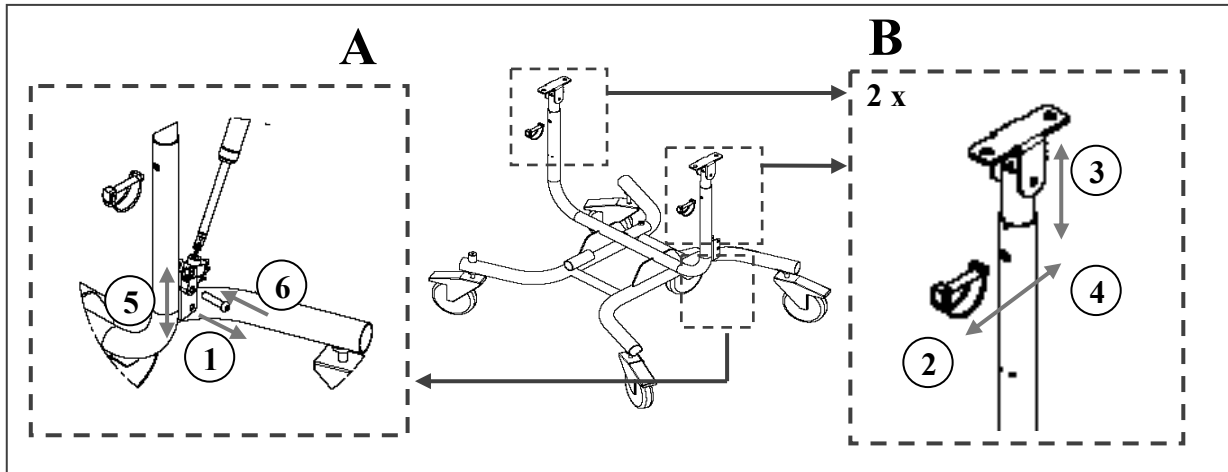
### 3.4 Adjustment of the seat height

**⚠ WARNING: The height of both armrests frames must be adjusted at the same time.**

**⚠** Check that all safety pins and screws have been properly secured and fastened.

**⚠** Adjusting can only be done by authorized people.

To adjust the seat height you can either make use of seat cushions of different diameters, or set the shell chair itself at different heights on the frame. The shell chair must not be removed during this process. The safety pins (B) can be accessed by folding upwards the flaps fitted on the shell.



- ① Loosen the screw of the pneumatic spring support (left armrest frame).
- ② On both sides pull out the safety pins of the seat height adjuster (upper armrest frame).
- ③ Now set the shell chair to the desired position.
- ④ On both sides secure the desired setting by inserting the safety pins and securing them (NB: adjust the height on both sides at the same time!).
- ⑤ Set the pneumatic spring to the desired height.
- ⑥ Insert the screw of the pneumatic spring support and firmly tighten by hand.

## 4 Maintenance

For the maintenance manual of the shell chairs refer to the Vermeiren website: [www.vermeiren.com](http://www.vermeiren.com).

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## Service registration form

This product (name): .....

was inspected (I), serviced (S), repaired (R) or disinfected (D):

By (stamp):           Kind of work: I / S / R / D Date:	By (stamp):           Kind of work: I / S / R / D Date:	By (stamp):           Kind of work: I / S / R / D Date:
By (stamp):           Kind of work: I / S / R / D Date:	By (stamp):           Kind of work: I / S / R / D Date:	By (stamp):           Kind of work: I / S / R / D Date:
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