

# panthera®

Operating instructions

Wheelchair model:

U3 Light

U3 Light Y-front

U3 Light Y-front 90°

U3 Light Y-front Low

U3 Light Y-front High

# Panthera U3 Light, U3 Light Y-front, U3 Light Y-front 90°

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## INTRODUCTION

Congratulations on choosing a wheelchair from Panthera AB. We hope you will be satisfied with your Panthera model and wish you many happy years together. All of Panthera AB's products are designed and assembled in Spånga, outside Stockholm. Our models are constructed to be the very best on the market with regard to quality, manoeuvrability and low weight.

**Please ensure you carefully read the instructions.**

To view the images and text more clearly, you can also read the instructions digitally at [www.panthera.se](http://www.panthera.se)

## DESIGNED FOR PURPOSE

Panthera U3 Light wheelchairs are built for individuals who need a manual dynamic wheelchair for everyday use, both inside and outside the home. These wheelchairs are made to be used by people with physical disabilities, and are not limited to people with a specific diagnosis. Each person's individual function capacity and limitations indicates whether a manual dynamic wheelchair is suitable as a mobility aid. Wheelchair model recommendations should be given by trained healthcare professionals, and the appropriate product should then be tested and adjusted by an expert for the optimal sitting and driving characteristics. The wheelchair's design and settings are tested for each individual, and the product is not suitable for children.

The wheelchair is designed for indoor and outdoor use, on smooth surfaces (e.g., wood, laminate, tile, concrete, asphalt, etc.) without obstacles. Avoid grass, gravel and other uneven surfaces.

## DESIGN

Panthera's U3 Light wheelchairs are designed with a focus on good ergonomics when sitting or driving. The wheelchair is designed so that it can be easily lifted into the car by the user. In addition, the chassis is formed to provide a balanced, effortless grip when lifting the chair into the car. The wheelchair's exterior is small and it is very light. If required, the wheelchair can also be equipped with a range of accessories, such as push handles, arm rests or side guards.

(To see available accessories for this wheelchair, visit [www.panthera.se](http://www.panthera.se))

For maximum weight of user, see Technical facts.

## INDICATIONS FOR USE

Panthera mechanical wheelchairs are manually operated multifunctional wheelchairs designed for indoor / outdoor use and intended to provide mobility to persons that have the capability of operating a mechanical wheelchair.

## CONTACT













If you have any questions or need help with the product, contact your local supplier (Assistance centre) first. To get in touch with the manufacturer, see the details below:

Panthera AB +46 (0)8-761 50 40  
Gunnegatan 26 [www.panthera.se](http://www.panthera.se)  
SE-163 53 Spånga [panthera@panthera.se](mailto:panthera@panthera.se)

## SYMBOLS

The symbols used in the instructions and on the wheelchair and what they mean are listed below.

**Caution:** Federal law (USA) restricts this device to sale by or on the order of a physician

	Caution		Width of Wheelchair Seat
	Consult Instructions for Use	<b>MOD:</b>	Article Number on the Chassis
	Manufacturer		Article Number on the Label and Revision
	Date of manufacture	<b>R<sub>x</sub> Only</b>	Prescription use (USA)
	Serial Number		Medical device
	Catalog Number		CE marking
	Max. wheelchair user weight		Not intended for use as a seat in a vehicle during transport.

## DESCRIPTION (Fig. 1 and 2)

**Panthera U3 light** is a dynamic wheelchair designed to let you live life as actively as possible. Meticulous attention has been paid to every detail.

The low weight, combined with the stable, fixed frame and easy rolling castors, make the wheelchair extremely easy to manoeuvre.

The chassis' seat angle, along with adjustable backrest and seat upholstery and backrest angle adjustment, combine to provide extremely good seating comfort

The fabric used in the backrest upholstery has been carefully selected to provide ergonomic and comfortable seating posture.

The wheelchair's balance point can be adjusted to enable you to find a setting that makes you feel safe and secure.

### **Panthera U3 Light Y-front** Fig. 2 och 3

Gives full frame width for the user's thighs and then narrows down the frame front to the fixed footplate, where the feet rest together.

Also available as **Panthera U3 Light /L Y-front** and **Panthera U3 Light Y-front 90°**, has a right angle, between the frame front and the seat. **Panthera U3 Light Y-front High** and **Panthera U3 Light Y-front Low** are also available. Otherwise they have the same specifications as **U3 LIGHT**.

### **Panthera U3 light**, Fig. 1, 2 and 3,

U3 Light is a wheelchair designed for the active, advanced user. U3 Light has a "tippy" balance, easy to lift and transport and also extremely easy to manoeuvre. In standard configuration U3 Light has a rigid rear axle of carbon fibre, lightweight rear wheel, aluminium foot rest, easy rolling castor wheels, arm brake, and a seatbag. The foldable back rest has no locking mechanism. Available in two versions, U3 Light and U3 Light/L, U3 Light has a normal balance and U3 Light/L a more "tippy" balance. On "U3 Light/L" the rear axle is moved forward an additional 22 mm. Fine adjustment of the balance is accomplished by adjusting the back rest forward or backwards  $\pm 10$ mm.



Fig. 1



Fig. 3

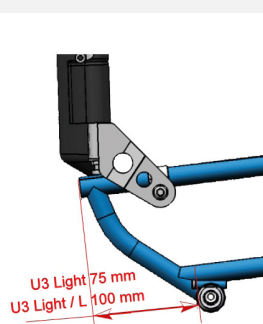


Fig. 2

## OVERVIEW (Fig. 3)



Fig. 3

1. Footrest
2. Chassis
3. Seat - cushion
4. Backrest / upholstery
5. Rear wheel / Tyre
6. Puhrim
7. Brake
8. Quick release
9. Air valve
10. Rear axle
11. Castor
12. Castor fork
13. Connective tubing

# SAFETY REGULATIONS

## Current information

Up-to-date information on safety and product updates can be found at Panthera's website, [www.panthera.se](http://www.panthera.se)

## Contraindications

Insufficient wheelchair skills and/or inexperience of active ultralight wheelchairs is a contraindication for the use of Panthera X.

Use of wheelchair that is not properly fitted and with correct measurements to user body proportions is contraindicated.

Verify that your wheelchair corresponds with your order:

- Measure the seat width.
- Measure the height of the backrest.
- Ensure you have received the accessories you ordered.

Conduct a technical inspection of your wheelchair, ensuring that:

- the rear wheel's quick release can easily be shifted in and out of its casings.
- the rear wheel is firmly attached following installation.
- the quick release button springs out fully while in locked position.
- all four wheels are in contact with the floor.
- the castor fork can be rotated with ease.
- the backrest folds down easily.



### Balance and tipping capacity

The angle of the backrest, the adjustment of the backrest upholstery and the position of the rear wheel are the most significant factors affecting the wheelchair's balance and tendency to tip. After adapting your wheelchair, check that you **feel confident about the balance of the wheelchair**.

The tipping capacity of the wheelchair may also be affected if a bag is hung on the backrest, if you lean or stretch backwards, if the tyres are worn or contain insufficient air or if there is an unexpected change to the surface you are driving on.



### Anti-tip device

Panthera wheelchairs are designed to be as manoeuvrable as possible, which means the wheelchair responds quickly and seamlessly to the actions you perform. If you perform the wrong actions you could **tip over in the wheelchair**. If you operate the wheelchair incorrectly, there is a risk you may **tip backwards**.

**NOTE!** U3 Light has **no anti-tip device as an option**. The U3 Light is designed for the active, advanced user who can handle a very "tippy" wheelchair and are fully aware that **the wheelchair can tip over backwards** and adapt their driving according to this.

# SAFETY REGULATIONS

## Wheelchair skills

It is important to test your **wheelchair comprehensively and take the time required to hone your wheelchair skills**. If you have any questions on wheelchair technique, contact the person who prescribed the wheelchair or your therapist. You are also welcome to get in touch with the team at Panthera AB.

## Brakes

Your wheelchair is equipped either with brakes for each rear wheel (**high brakes**) or a **one-hand brake**. The one-hand brake can be applied by gripping with one hand rather than two. The brakes are designed as parking brakes and not for braking while in motion.

**Please note.** In order for the brakes to function correctly, the tyres must contain the correct air pressure. See Technical facts.

The brakes will operate less effectively if the tyres are worn or contain insufficient air pressure. If changing to a different type of tyre, always check the brakes as dimensions may vary.

If you have a high brake, be careful that your fingers do not make contact with the brake when driving with the rear wheel. When transferring sideways in and out of your Panthera, make sure you can lift yourself over the brake so that you do not sit on or get caught on it. If you use the one-hand brake and can stand up, be careful not to open the brake by accident with the back of your legs.



## Driving

Before using your wheelchair outdoors, spend plenty of time honing your driving technique in a secure indoor environment with a flat surface.

Always use the anti-tip devices or ensure someone is behind you as you practise. Do not attempt to drive outdoors until you feel completely confident in your wheelchair.

At speeds above 8 km / h the risk of losing control of the wheelchair increases.

Watch out for obstacles such as doorsteps and gutters in which the small castors could become jammed, causing the user to **fall forwards**.

If the distance between the lowest point of the footrest and the surface is small (less than 40 mm) the footrest could get caught on bumps in the surface and cause you to **fall forwards**.

If you drive down a curb with the anti-tip devices folded out, they may become jammed and cause you to **fall forwards**. If you feel unsafe, fold away the anti-tip devices and ask for help. The wheelchair can also be fitted with push handles which enable the user to be driven by an assistant.

Shopping or groceries can be hung on the backrest in a bag or rucksack, but you must be fully aware that **this substantially increases the risk of the wheelchair tipping backwards**. In this case, the anti-tip devices must be folded out.

Driving on uneven or inclined surfaces increases the risk of **falling both forward and backward**.



## SAFETY REGULATIONS

### Wheelchair technique – Ramps and sloping surfaces, curbs and stairs

#### Driving up ramps and sloping surfaces (Fig. 49)

When you are going to drive up a ramp, you need to take a bit of a run-up, keep a steady speed and at the same time control your direction. Lean your upper body forwards and move both push rims with fast, powerful pulls.

#### Driving down sloping surfaces (Fig. 50)

When driving down sloping surfaces and slopes, it is important that you have control over your direction and speed. Lean back and allow the push rims to move slowly through your hands. You should be able to stop the wheelchair at any time by grasping the push rims.

#### Driving down curbs (Fig. 51, 52)

##### With an assistant (Fig. 51)

Place the wheelchair right next to the curb. The assistant holds the backrest bow and lifts, lifts up the castors and keeps the wheelchair in balance. Then roll both rear wheels slowly over the curb edge. Meanwhile, hold the push rims firmly with both hands until the castors are on the ground again.

##### Without an assistant (Fig. 52)

Place the wheelchair right next to the curb, lift up the castors and keep the wheelchair in balance. Then roll both rear wheels slowly over the curb edge. Meanwhile, hold the push rims firmly with both hands until the castors are on the ground again.



Fig. 49



Fig. 50



Fig. 51



Fig. 52



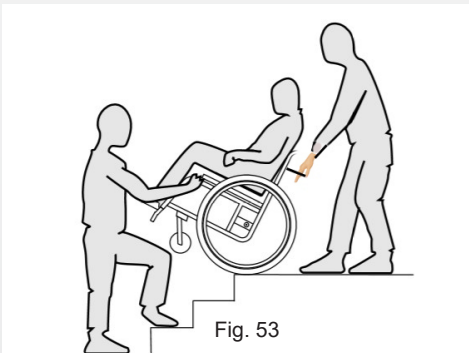
## SAFETY REGULATIONS



### Wheelchair technique – Ramps and sloping surfaces, curbs and stairs

#### Driving up and down stairs (Fig. 53)

You can negotiate stairs by taking one step at a time according to the instructions here: One assistant should stand behind the wheelchair and hold the backrest bow. The second assistant should hold on to one of the solid parts of the front frame to support the wheelchair from the front. It's important that the rear wheels has support by the ground. Never lift the wheelchair with a user sitting in the wheelchair.



## SAFETY REGULATIONS

### Transfer into the wheelchair

Techniques for transfer must be practised extensively together with qualified staff. The methods described below are for advisory purposes only.

#### Transferring into the wheelchair sideways (Fig. 4)

1. Position the wheelchair as close to you as possible.
2. Lock the brakes. Se “Brakes” under “Settings”.
3. Place one hand on the far corner of the wheelchair chassis and the other on the surface you are moving from.
4. Carefully transfer yourself into the wheelchair with good balance.

To ensure the wheelchair is as stable as possible, reverse the wheelchair by 5–10 cm before stopping to make sure the Castors are pointing forwards.

#### Transferring **from** the wheelchair sideways (Fig. 4)

1. Position the wheelchair as close to the surface you will be moving to as possible.
2. Lock the brakes. Se “Brakes” under “Settings”.
3. Place one hand on the far corner of the wheelchair chassis and the other on the surface you are moving to.
4. Carefully transfer yourself from the wheelchair with good balance.

To ensure the wheelchair is as stable as possible, reverse the wheelchair by 5–10 cm before stopping to make sure the Castors are pointing forwards.

### Lifting while the user is in the wheelchair (Fig. 5)

If the wheelchair is to be lifted while the user remains seated, always grip the wheelchair's chassis. See arrows in Fig. 5.

Do not lift using the backrest, push handles, leg support, wheels or other movable sections.



Fig. 4

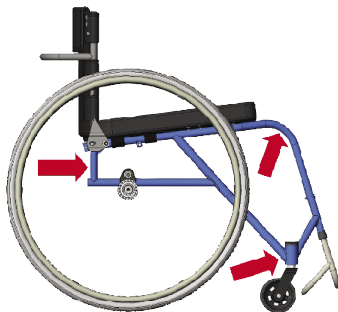


Fig. 5

# SAFETY REGULATIONS

## Warm or cold surfaces

If the wheelchair is exposed to sunshine for long periods, its surfaces may become extremely warm. The wheelchair's surfaces can also become very cold if it is stored or used in cold conditions.



### Risk of jamming

While driving the chair, be aware of the risk of your fingers becoming jammed between the rear wheel and the brake, and between the rear wheel and side guard or armrest.

Ensure your fingers or loose items do not become trapped in the rear wheel's spokes while driving. Moreover, take special care to ensure children do not place their hands inside the spokes.



### Risk of burns

If the wheelchair is equipped with friction pushrims on the drive wheels (see item 7 in Overview), there is a risk of burns to the hands and fingers if you brake the wheelchair at high speed with the hands of the pushrims, as the friction between the hand and the pushrim generates high heat.

## Incidents

Any serious incident that has occurred in relation to the product should be reported to Panthera and to the Swedish Medical Products Agency, or the competent authority of the Member State in which the user and/or patient is established.

## SETTINGS

When adjusting the chair to suit your sitting posture and provide the mobility you require, it is important that you make the adjustments in the correct order.

Firstly, adjust the chair to enable the correct sitting posture. Only then can you adjust the balance of the wheelchair to provide the mobility you require. This must be done in the correct sequence, as adjustments to the sitting posture affect the balance of the wheelchair.

Bear in mind that a little effort adjusting the chair to your requirements initially will be of considerable benefit for a long time to come.

Set aside a day to experiment with alternative settings and see how they feel, to ensure the sitting posture and balance of the wheelchair are just right for you.

Adjustments to the wheelchair's settings must take place in the following order:

- 1) The tension of the seat upholstery.
- 2) The height of the footrest.
- 3) The tension of the calf strap.
- 4) The angle of the backrest.
- 5) The tension of the backrest upholstery.
- 6) The balance of the wheelchair.
- 7) The brake settings.

## SETTINGS

### 1) The tension of the seat upholstery (Fig. 6)

The rear section of the seat upholstery can be tightened or loosened by adjusting the Velcro strap underneath.

This allows you to vary your seat height by around 2 cm upwards or downwards. The seat should be used together with a seat cushion.

### 2) The height of the footrest (Fig. 7)

The footrest can be adjusted either upwards or downwards.

You should adjust the footrest at a height where your thighs are supported by the seat at the same time as your feet are supported by the footplates or foot support.

#### **Adjusting the height of the footrest:**

- 1) Remove the two screws supporting the footrest on the front of the frame using a 3 mm Allen key.
- 2) You can then move the footrest up or down to fit into one of the fixed positions.
- 3) Securely tighten the two screws.

#### **Models with Y.front**

The footrest in standard configuration allows adjustment in the 4 lowest holes. To use the lowest position (the footrest in its highest position) you need to shorten the footrest with a saw. For more information, please contact Panthera.

### 3) The tension of the calf strap/heel strap (Fig. 8 and 9)

The tension of the calf strap will determine how far forward you can place your feet on the foot support or footplates, respectively. The suitable tension depends largely on how long or short your legs are.

#### **Adjusting the tension of the calf strap (Fig. 8 and 9)**

- 1) Loosen the calf strap.
- 2) Place your feet on the foot support/footplates.
- 3) Adjust the tension of the calf strap using the Velcro strap provided.

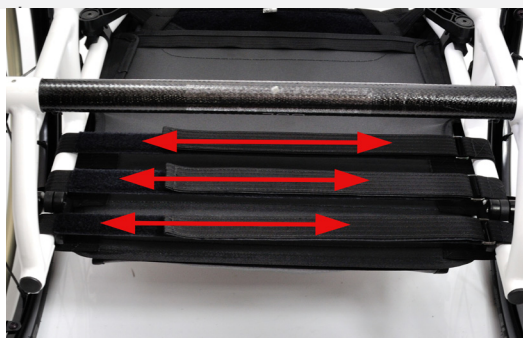


Fig. 6

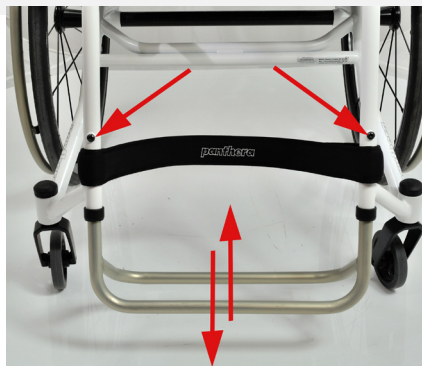


Fig. 7

# SETTINGS

## 4) The angle of the backrest (Fig. 9)

1) Fold the backrest forwards.

2) Loosen the lock screws (1) a few rotations using a 17 mm cap key. Repeat this process on the other side.

3) Adjust the angle of the backrest using the adjustment screws (2) on both sides. Using the 4 mm Allen key, unscrew the adjustment screws to tilt the backrest forwards. Tightening the adjustment screws will allow the backrest to tilt backwards. It is important to adjust both sides equally to avoid the backrest tubing becoming crooked. Test this by placing the backrest in the upright position and checking that both adjustment screws are touching the frame.

3) Experiment with suitable backrest angles before tightening the lock nuts (1) on both sides.

## 5) The tension of the backrest upholstery (Fig. 11)

You can adjust the backrest upholstery to suit the shape of your back using the straps located under the flap at the rear of the backrest. This provides good support to the small of the back.

The backrest upholstery also has a lower flap fastened with Velcro above the seat upholstery, under the seat cushion. This flap can be moved backwards or forwards to obtain the required tension in the lower section of the back upholstery (known as the seat bucket).



Fig. 8



Fig. 9

# SETTINGS

## Adjusting the tension of the backrest upholstery:

- 1) Lift up the backrest upholstery's upper flap (1).
- 2) Loosen the bands.
- 3) Sit as far back in the chair as you can. If it feels as though you are not sitting far back enough in the chair, it may be because the backrest upholstery's lower flap is fastened too far forward on the seat. Loosen the flap (2) and then fasten it further back on the seat upholstery.
- 4) Tighten the bands to ensure you have the necessary support.
- 5) Fold down the backrest upholstery's upper flap (1).



## 6) The balance of the wheelchair (Fig. 12)

U3 Light has a rigid rear axle and the balance is adjusted by moving the position of the body relative to the rear axle. This is accomplished with moving the backrest into **three different positions**. The further back you place the backrest the more "tippy" the wheelchair gets. This makes the wheelchair light at the front and more of the weight is moved to the rearwheels. The wheelchair becomes more easy to maneuver and easier to "lift up" on the rearwheels, to climb obstacles like curbs, thresholds etc. The wheelchair must not be to "tippy". Then you risk to tip over and fall backwards. U3 Light comes in two versions, "U3 Light", normal balance and "U3 Light L", light balance, check that you have received the version you have ordered. U3 Light has 75 mm between the rear axle and the rearmost part of the chassis and U3 Light L, has 100 mm, see fig. 2.

## Adjusting the balance of the wheelchair (Fig. 11)

- 1) Remove the rearwheels
- 2) Loosen the bolt for the backrest clamp (1) from the outside of the chassis with allen key 4 mm, on both side of the wheelchair.
- 3) Loosen the bolt going through the clamp and the backrest attachment (2).
- 4) Position the backrest in one of the three holes.
- 5) Tighten the bolt (2) in the selected hole (2).
- 6) Tighten the bolt (1) from outside of the chassis.



Fig. 10

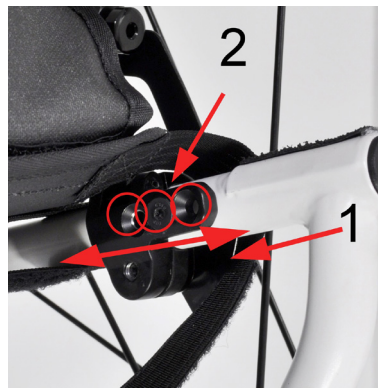



Fig. 11



# SETTINGS

## 7) Adjusting the high brake

 **Please note!** The effectiveness of the brakes is affected when the air pressure drops, the tyres become worn or when changing to a different type of tyre. As a result, the brakes' settings should be checked from time to time.

### Adjusting high brake (Fig. 12)

High brake are activated by pushing lever (1) forward until stop. The the rear wheel ar locked. Repeat on the other side.

- 1) Use a 5 mm Allen key in order to loosen the lock screw (1).
- 2) You will now be able to push the brake forwards and backwards. Adjust the brake so that it presses around 4 mm into the tyre while in locked position. Tighten the lock screw (1) using a 5 mm Allen key.
- 3) Adjust the brake on the other side by following steps 1 to 3..

### Adjusting the one-hand brake (Fig. 13)

One-arm brake is activated by pulling lever (1) backwards until stop. Then both rear wheel are locked at the same time.

- 1) Use a 4 mm Allen key to loosen the one-hand brake's clamping bolts on both sides.
- 2) You will now be able to push the brake forwards and backwards along the chassis' seat tubing. Adjust the brake so that it presses around 4 mm into the tyre while in locked position.
- 3) Ensure that the brakes are in the same forward position on both sides of the chair.
- 4) Tighten the clamping bolt (1) using a 4 mm Allen key.

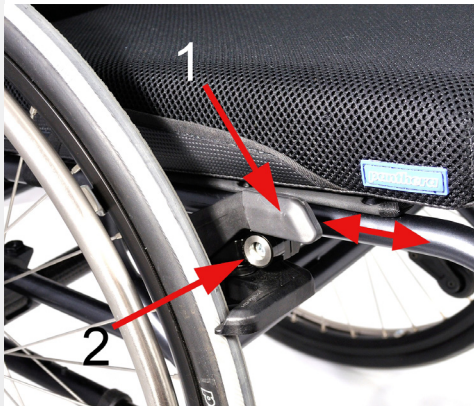


Fig. 12



Fig. 13



## ACCESSORIES

### Armrests (Fig. 14)

The armrests can be adjusted both horizontally and vertically.

#### **Adjusting the armrest horizontally:**

1. Push and hold in the button on the inside of the armrest (1).
2. The armrest can be moved backwards and forwards while the button is pressed in.
3. Release the button at one of the 5 different positions.

#### **Adjusting the armrest vertically:**

1. Push and hold in the button on the outside of the armrest (2).
2. The armrest can be moved upwards and downwards while the button is pressed in.
3. Release the button at one of the 4 different positions.

The armrests can be removed, during transportation, for example, by pulling them up vertically to release them from their attachments..

### Side guards (Fig. 15)

The side guards prevent clothing and loose items from becoming jammed in the wheelchair's spokes and also stop dirt from the wheels getting onto the user's clothing. The side guards are fitted with a soft upper section that folds down upon load, for example, when the user transfers to and from the wheelchair. You can place your hands on the side guards while pulling yourself up and down. The side guards can be removed, during transportation, for example, by pulling them up vertically to release them from their attachments.



Fig. 14



Fig. 15

# ACCESSORIES

## Push handles (Fig. 16)

Push handles are used by assistants to drive the user in the wheelchair. The push handles can be adjusted vertically and they can also be folded in.

### Folding up the push handle:

1. Lift the push handle upwards (2).
2. The handle locks automatically in the position.

### Folding down the push handle:

1. Push and hold the button on top of the handle (1).
2. Fold down the handle and release the button.

## Hip belt (Fig. 17)

A hip belt (positioning belt) may be fitted without affecting conformity to the CE Mark standard.

Hip belts can be fitted around the frame's tubing at one of the locations indicated in [fig 17](#).



Fig. 16



Fig. 17

## TRANSPORTATION

We would like to emphasise that, **when transporting a wheelchair user in a vehicle**, it is always preferable to transfer the user to **a regular car seat secured by a seat belt**.

An exception may be made if the vehicle is fitted with a device designed in accordance with Bus Directive 2001/85/EG, Appendix VII, Item 3.8.3. In such cases, the user may travel without a restraint system with the wheelchair facing in the opposite direction to which the vehicle is travelling.



Fig. 19

# TRANSPORTATION

## Assembling and disassembling the wheelchair (Fig. 20 och 21)

When transporting the wheelchair, in a car, for example, the backrest can be folded and the rear wheel detached.

### Lowering the backrest, (Fig. 20)

- 1) Release the side guards and armrests, if necessary, and pull them up vertically.
- 2) Remove the seat cushion if necessary.
- 3) Push the backrest forward to lower the backrest.

### Detaching the rear wheel, (Fig. 21)

- 1) Push the quick release button (1).
- 2) Pull the wheel straight off.

### Attaching the rear wheel, (Fig. 21)

- 1) Push the quick release button (1).
- 2) Insert the wheel onto the rear axle and then push it in as far as possible.
- 3) Check that the button has sprung out (1), confirming the quick release is in locked position.
- 4) Pull the wheel outwards to **ensure it is firmly attached**.



Fig. 20



Fig. 21

## MAINTENANCE

Your Panthera model was designed for rigorous daily use over a number of years, and as such, some parts must be regularly checked.

If using your wheelchair in more demanding environments, such as sand or saltwater, you must examine and clean your wheelchair more often than what is specified below

### Storage

When storing your wheelchair for four months or more, ensure it is kept in a dry, warm area. After storage, check the tyre air pressure and the condition of the upholstery.

### Ongoing maintenance

For ongoing maintenance, you will need the following:

- car shampoo or detergent.
- degreasing agent (for removal of severe dirt).
- multi-purpose oil, for example, CRC 5-56

### Once a month, you must:

- Wipe the wheelchair chassis over with car shampoo or detergent using a damp cloth. To remove severe dirt, use a degreasing agent. After cleaning, lubricate all movable parts with oil.
- Clean the Castor fork casing (between the wheel and the fork). Hair and dust, etc. often accumulate here which can damage the bearing. Use a 4 mm Allen key in order to loosen the screw. Remove the bolt and detach the Castor. Clean the washers between the wheel and the fork and wipe the outside of the wheel bearing with a cloth. Apply a drop of oil to each bearing. When finished, reassemble the components.
- Lubricate the rear wheel's quick release. Remove the rear wheel by pressing the quick release button and pulling the wheel straight off. Distribute a few drops of oil over the quick releases at the hub of the rear axle. If you drive in rain, sand, salt or slush, or rarely remove the rear wheel, you should lubricate the quick releases more regularly.
- Pump up the tyres. Unscrew the cap from the tyres' air valves. Fill the tyres with air at the correct pressure using a suitable valve adaptor (see Technical facts).
- Check that all the screws and nuts are securely fastened. Tighten them where necessary.
- Ensure the wheelchair has not sustained any damage. In the event of damage, immediately contact your local supplier or the team at Panthera AB.

### Twice a year, you must:

- Lubricate the movable parts of the brakes with a few drops of oil.
- Lubricate the bushing at the joint of the backrest. Use two 10 mm cap keys in order to hold down the bolts and loosen the nuts. Lubricate the bushings with a few drops of oil. When finished, reassemble the components.
- Wash the upholstery when necessary. Machine wash the seat upholstery, backrest upholstery and seat cushion cover at 60°C. Before washing, attach the male velcro to female to prevent the upholstery to get ruffled by the velcro.

### Prevent spread of infection

The whole wheelchair should be whiped of with a cloth soaked with alcohol based antiseptic agent with tenside. Wash the back rest and seat according to the instructions.

### Help with service and repair

For help with service and repair, contact your local supplier first (Assistance centre). You can also contact the team at Panthera AB if you wish.

Instructions for reconditioning can be downloaded at [www.panthera.se](http://www.panthera.se)



## Replacement of wear parts (Fig. 25 och 26)

Wear parts such as tyres, inner tubes and Castors can be ordered from Panthera, with the work carried out at home for those able to do so. Otherwise, contact your wheelchair provider or Panthera.

[www.panthera.se](http://www.panthera.se)

To replace these yourself, do as follows: **You need these tools:** Tyre changing tools and a 4 mm allen key

### Replacing tyres and inner tubes: (Fig. 25)

- 1) Order parts from Panthera in the correct dimension. Measure the diameter of the castor in mm and the rear tyre has the size printed on the side.
- 2) Remove the rear wheel by pressing the quick release button and pulling the wheel straight off.
- 3) Remove the tyre and inner tube using suitable tools. The method is the same as that used for changing the tyre and inner tube on a bicycle wheel.
- 4) Carefully fit the inner tube and tyre to ensure the inner tube is not punctured. Pump up the tyre.
- 5) Reattach the wheel to the wheelchair, taking care to ensure the quick release button springs out so the wheel is securely fastened to the hub. Pull the wheel outwards to ensure it is firmly attached. Spin the wheel to ensure the tyre has been fitted correctly and the wheel is completely circular.

### Replacing Castors: (Fig. 26)

- 1) Order parts from Panthera in the correct dimension. Measure the diameter of the castor in mm and the rear tyre has the size printed on the side.
- 2) Detach the Castor using a 4 mm Allen key. Observe how the Castors' bushings are mounted – there is a right (1) and a left (2) version.
- 3) When attaching the new Castor, hold down both bushings using your thumb and index finger and then guide the Castor into the fork track.

At reassembly of castor wheel after cleaning or service you should always check the bolt for thread locking (blue, red or green colour), which indicates sufficient thread locking. If the thread locking is missing, always order a new bolt or apply a small amount of weak thread locking.

- 4) Tighten fully using a 4 mm Allen key. Ensure that the Castor turns easily.

### Replacín

### If you need to send the wheelchair to the workshop for repair:

1. Fold the backrest of the wheelchair and fix it with a few layers of tape.
2. Bubble wrap the wheelchair and add cushioning materials to the bottom of the box.
3. Nest the wheelchair in a sturdy shipping box.
4. Fill the voids with foam padding and cushioning materials.
5. Close and seal the box with several layers of adhesive tape on each side of the package.



Fig. 25



Fig. 26

# GUARANTEE AND LIFESPAN

## Lifespan

The lifespan of a Panthera product depends on how much wear and tear it is exposed to and how thorough you are with maintenance.

When reaching the end of its lifespan, the wheelchair must be handed in to your wheelchair provider or Panthera AB to be recycled.

## Guarantee

Panthera AB offers a five-year factory guarantee on the wheelchair chassis. For other parts there is a guarantee of 12 months (with the exception of wear parts).

- The guarantee covers product faults attributable to defects relating to design, material or manufacturing.
- The guarantee does NOT cover faults attributable to normal wear and tear, negligent maintenance, handling errors, incorrect storage, incorrect assembly on the part of the purchaser, adjustments and use of products from other suppliers without obtaining Panthera AB's written consent or deterioration attributable to repairs carried out on the purchaser's own initiative.

## Reuse

The Panthera S3/U3 models are suitable for reuse. Prior to being reused, the wheelchair must be cleaned, disinfected and dispatched to an authorised reseller for inspection.

## CONFORMITY (Fig. 28 and 29)

Details of the wheelchair's conformity with standards can be found on the underside of the chassis at the front.

See page 3 for explanation of symbols.



Fig. 27

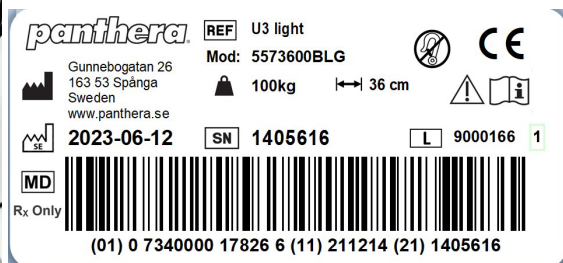


Fig. 28



## TECHNICAL FACTS

### U3 LIGHT / U3 LIGHT L

Model code	G557	G557	G557	G557	G557
Seat width (cm)	33	36	39	42	45
Total width	54	57	60	63	66
Total length	82.5	82.5	82.5	82.5	82.5
Total height	64-84	64-84	64-84	64-84	64-84
Seat					
Seat angle	7°	7°	7°	7°	7°
Seat height rear	43	43	43	43	43
Seat height front	47	47	47	47	47
Seat depth	35-46	35-46	35-46	35-46	35-46
Backrest					
Backrest height	25-35	25-35	25-35	25-35	25-35
Angle back-forward	11,5° - (-4,5°)	11,5° - (-4,5°)	11,5° - (-4,5°)	11,5° - (-4,5°)	11,5° - (-4,5°)
Rearwheel diameter	24"	24"	24"	24"	24"
Pushrim diameter	555 mm	555 mm	555 mm	555 mm	555 mm
Rearwheel camber angle	2,2°	2,2°	2,2°	2,2°	2,2°
Castor diameter	75 mm	75 mm	75 mm	75 mm	75 mm
Footrest to seat - measure	36-46 cm	36-46 cm	36-46 cm	36-46 cm	36-46 cm
Transport measure					
Width	40	43	46	49	51
Length	74	74	74	74	74
Height	38.5	38.5	38.5	38.5	38.5
Static stability	5°	5°	5°	5°	5°
Weight					
Total (g) U3 Light*	6000	6050	6100	6150	6200
Total (g) U3 Ligh / L	6000	6050	6100	6150	6200
Transport (g) heaviest part	3700	3750	3800	3850	3900
Transport (g) heaviest part / L	3700	3750	3800	3850	3900
Max. userweight (kg)	100	100	100	100	100
Min. turning space (cm)	90	90	90	90	90
Airpressure (bar / kPa)	8 / 800	8 / 800	8 / 800	8 / 800	8 / 800
Material: chassis / back	Chrome molybdenum tubing				
Material: upholstery	Polyurethane covered polyester				
Upholstery and cushion firetested to:	ISO 7176-16				
Wheelchair class	B; indoor / outdoor				

\* Weight measured with brake.

## TECHNICAL FACTS

### U3 LIGHT Y-FRONT

Model code	G5805	G5805	G5805	G5805	G5805
Seat width (cm)	33	36	39	42	45
Total width	54	57	60	63	66
Total length	82	82	82	82	82
Total height	66-76	66-76	66-76	66-76	66-76
Seat					
Seat angle	7°	7°	7°	7°	7°
Seat height rear	43	43	43	43	43
Seat height front	47	47	47	47	47
Seat depth	35-42.5	35-42.5	35-42.5	35-42.5	35-42.5
Backrest					
Backrest height	25-35	25-35	25-35	25-35	25-35
Angle back-forward	11,5°- (-4,5°)	11,5°- (-4,5°)	11,5°- (-4,5°)	11,5°- (-4,5°)	11,5°- (-4,5°)
Rearwheel diameter	24"	24"	24"	24"	24"
Pushrim diameter	555 mm	555 mm	555 mm	555 mm	555 mm
Rearwheel camber angle	2,2°	2,2°	2,2°	2,2°	2,2°
Castor diameter	87 mm	87 mm	87 mm	87 mm	87 mm
Footrest to seat - measure	36-46 cm	36-46 cm	36-46 cm	36-46 cm	36-46 cm
Transport measure					
Width	40	43	46	49	52
Length	74	74	74	74	74
Height	38	38	38	38	38
Weight					
Static stability	5°	5°	5°	5°	5°
Total (g) *	6000	6050	6100	6150	6200
Transport (g), heaviest part	3700	3750	3800	3850	3900
Max. userweight (kg)	100	100	100	100	100
Min. turning space (cm)	90	90	90	90	90
Airpressure (bar / kPa)	8 / 800	8 / 800	8 / 800	8 / 800	8 / 800
Material: chassis / back	Chrome molybdenum tubing				
Material: upholstery	Polyurethane covered polyester				
Upholstery and cushion firetested to:	ISO 7176-16				
Wheelchair class	B; indoor / outdoor				
* Weight measured with brake.					

## TECHNICAL FACTS

U3 LIGHT Y-FRONT 90°					
Model code	G5806	G5806	G5806	G5806	G5806
Seat width (cm)	33	36	39	42	45
Total width	54	57	60	63	66
Total length	73	73	73	73	73
Total height	66-76	66-76	66-76	66-76	66-76
Seat					
Seat angle	7°	7°	7°	7°	7°
Seat height rear	43	43	43	43	43
Seat height front	47	47	47	47	47
Seat depth	35-42.5	35-42.5	35-42.5	35-42.5	35-42.5
Backrest					
Backrest height	25,30,35	25,30,35	25,30,35	25,30,35	25,30,35
Angle back-forward	11.5°- (-4,5°)	11.5°- (-4,5°)	11.5°- (-4,5°)	11.5°- (-4,5°)	11.5°- (-4,5°)
Rearwheel diameter	24"	24"	24"	24"	24"
Pushrim diameter	555 mm	555 mm	555 mm	555 mm	555 mm
Rearwheel camber angle	2.2°	2.2°	2.2°	2.2°	2.2°
Castor diameter	87 mm	87 mm	87 mm	87 mm	87 mm
Footrest to seat - measure	36-44 cm	36-44 cm	36-44 cm	36-44 cm	36-44 cm
Transport measure					
Width	40	43	46	49	51
Length	65	65	65	65	65
Height	38.5	38.5	38.5	38.5	38.5
Weight					
Static stability	5°	5°	5°	5°	5°
Total (g) *	6300	6350	6400	6450	6500
Transport (g), heaviest part	4000	4050	4100	4150	4200
Max. userweight (kg)	100	100	100	100	100
Min. turning space (cm)	90	90	90	90	90
Airpressure (bar / kPa)	8 / 800	8 / 800	8 / 800	8 / 800	8 / 800
Material: chassis / back	Chrome molybdenum tubing				
Material: upholstery	Polyurethane covered polyester				
Upholstery and cushion firetested to:	ISO 7176-16				
Wheelchair class	B; indoor / outdoor				
* Weight measured with brake.					

## TECHNICAL FACTS

### U3 LIGHT Y-FRONT HIGH

Model code	G5808	G5808	G5808	G5808	G5808
Seat width (cm)	33	36	39	42	45
Total width	54	57	60	63	66
Total length	82	82	82	82	82
Total height	69-79	69-79	69-79	69-79	69-79
Seat					
Seat angle	4°	4°	4°	4°	4°
Seat height rear	45	45	45	45	45
Seat height front	51	51	51	51	51
Seat depth	35-42,5	35-42,5	35-42,5	35-42,5	35-42,5
Backrest					
Backrest height	25-35	25-35	25-35	25-35	25-35
Angle back-forward	11,5°- (-4,5°)	11,5°- (-4,5°)	11,5°- (-4,5°)	11,5°- (-4,5°)	11,5°- (-4,5°)
Rearwheel diameter	24"	24"	24"	24"	24"
Pushrim diameter	555 mm	555 mm	555 mm	555 mm	555 mm
Rearwheel camber angle	2,2°	2,2°	2,2°	2,2°	2,2°
Castor diameter	87 mm	87 mm	87 mm	87 mm	87 mm
Footrest to seat - measure	36-44 cm	36-44 cm	36-44 cm	36-44 cm	36-44 cm
Transport measure					
Width	40	43	46	49	52
Length	74	74	74	74	74
Height	40	40	40	40	40
Weight					
Static stability	5°	5°	5°	5°	5°
Total (g) *	6030	6080	6130	6180	6230
Transport (g), heaviest part	3730	3780	3830	3880	3930
Max. userweight (kg)	100	100	100	100	100
Min. turning space (cm)	90	90	90	90	90
Airpressure (bar / kPa)	8 / 800	8 / 800	8 / 800	8 / 800	8 / 800
Material: chassis / back	Chrome molybdenum tubing				
Material: upholstery	Polyurethane covered polyester				
Upholstery and cushion firetested to:	ISO 7176-16				
Wheelchair class	B; indoor / outdoor				
* Weight measured with brake.					

## TECHNICAL FACTS

### U3 LIGHT Y-FRONT LOW

Model code	G5809	G5809	G5809	G5809	G5809
Seat width (cm)	33	36	39	42	45
Total width	54	57	60	63	66
Total length	82	82	82	82	82
Total height	64-74	64-74	64-74	64-74	64-74
Seat					
Seat angle	7°	7°	7°	7°	7°
Seat height rear	40,5	40,5	40,5	40,5	40,5
Seat height front	44,5	44,5	44,5	44,5	44,5
Seat depth	35-42,5	35-42,5	35-42,5	35-42,5	35-42,5
Backrest					
Backrest height	25-35	25-35	25-35	25-35	25-35
Angle back-forward	11,5° - (-4,5°)	11,5° - (-4,5°)	11,5° - (-4,5°)	11,5° - (-4,5°)	11,5° - (-4,5°)
Rearwheel diameter	24"	24"	24"	24"	24"
Pushrim diameter	555 mm	555 mm	555 mm	555 mm	555 mm
Rearwheel camber angle	2,2°	2,2°	2,2°	2,2°	2,2°
Castor diameter	87 mm	87 mm	87 mm	87 mm	87 mm
Footrest to seat - measure	36-44 cm	36-44 cm	36-44 cm	36-44 cm	36-44 cm
Transport measure					
Width	40	43	46	49	52
Length	74	74	74	74	74
Height	37	37	37	37	37
Weight					
Static stability	5°	5°	5°	5°	5°
Total (g) *	5970	6020	6070	6120	6170
Transport (g), heaviest part	3670	3720	3770	3820	3870
Max. userweight (kg)	100	100	100	100	100
Min. turning space (cm)	90	90	90	90	90
Airpressure (bar / kPa)	8 / 800	8 / 800	8 / 800	8 / 800	8 / 800
Material: chassis / back	Chrome molybdenum tubing				
Material: upholstery	Polyurethane covered polyester				
Upholstery and cushion firetested to:	ISO 7176-16				
Wheelchair class	B; indoor / outdoor				

\* Weight measured with brake.











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