

permobil | panthera

User Manual  
Wheelchair model



Panthera AB reserves the right to make technical changes



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# Panthera X3

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## INTRODUCTION

Congratulations! You are now the proud owner of a **Panthera X3 – one of the world's lightest wheelchairs**. Designed and manufactured in Sweden, the Panthera X3 boasts a highly advanced carbon fiber composite chassis structure, giving it the stability, strength and super-light weight normally associated with aircraft and Formula 1 equipment. And now, wheelchairs. Enjoy!

*The Panthera Team*

**Please read this user manual carefully!**

For clearer illustrations and text, you can also read the user manual online at [www.permobil.com](http://www.permobil.com)

For the visually impaired, the contents of the user manual can be obtained verbally from Panthera's product specialists.

## AREAS OF USE

Panthera X3 wheelchairs are built for individuals who need a manual, active wheelchair for everyday use indoors and out. These wheelchairs are intended for persons with physical disabilities and are not limited to a specific diagnosis. Individual functional capacity and limitations indicate the need for a manual active wheelchair as a transfer aid. A wheelchair should be recommended by a trained healthcare professional and the appropriate product should be tested and adjusted for optimal seating and driving characteristics by an expert. The design and settings of the wheelchair are tested for each individual and the product is normally not suitable for small children.

## DESIGN

Pantheras X3 is built for you as an active, advanced user who can handle a very balanced wheelchair for both indoor and outdoor use, in which you also sit comfortably and ergonomically correctly. It is designed so that you can easily lift it into the vehicle yourself. The wheelchair has small external dimensions and very low weight. The chassis is designed to provide a balanced and grippy grip when lifting the wheelchair into a vehicle. It can also be equipped with various accessories, such as side guards and anti-tipper if necessary. (which accessories are permitted can be found on the website: [www.permobil.com](http://www.permobil.com)) For maximum user weight, see Technical Data.

## CONTACT













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

Panthera AB  
Gunnebogatan 26  
163 53 Spånga, Sweden

+46 (0)8-761 50 40  
[www.permobil.com](http://www.permobil.com)  
[SE\\_Box\\_Spanga@permobil.com](mailto:SE_Box_Spanga@permobil.com)

## SYMBOLS

The following symbols are used in this user manual and on the wheelchair.

	CAUTION: Hazardous situation which can lead to serious injury.		Seat width
	Please refer to the user manual for more information	<b>Mod:</b>	Art. no. on chassis
	Manufacturer		Article number and revision on the label
	Date of manufacture	<b>R<sub>2</sub> Only</b>	Applies only to the American market ( <b>USA</b> ), where the product must be prescribed by an occupational therapist or physiotherapist.
	Serial number		Medical device
	Model name		CE marking
	Max. user weight		Not intended to be used as a seat in a vehicle during transport

## DESCRIPTION (Fig. 1, 2 and 3)

The Panthera X3 is an active wheelchair that has been developed to help you live as active a life as possible, with great attention to detail.

Panthera X3 is made of Advanced Carbon Fiber Reinforced Plastics, CFRP, which can be molded into almost any shape.

It may sound easy, but it's actually a minor technical miracle. Carbon fiber is a fantastic material. But it's a material that works best in softly curved shapes that distribute large forces better. Finding the perfect combination of soft, strong shapes and ergonomic, practical design was a challenge for designers that required years of development, experimentation and testing.

The result is one of the strongest and lightest wheelchairs ever built.

The low weight combined with the stable fixed frame and the castors with their unique tread profile make the wheelchair very easy to drive.

The seat angle of the chassis, together with the adjustable back and seat upholstery and the angle-adjustable backrest, means that you can achieve very good seating comfort.

The fabric for the back upholstery has also been carefully selected to provide an ergonomic and comfortable seat. The wheelchair's balance mode is adjustable to help you find the point of balance where you feel comfortable.

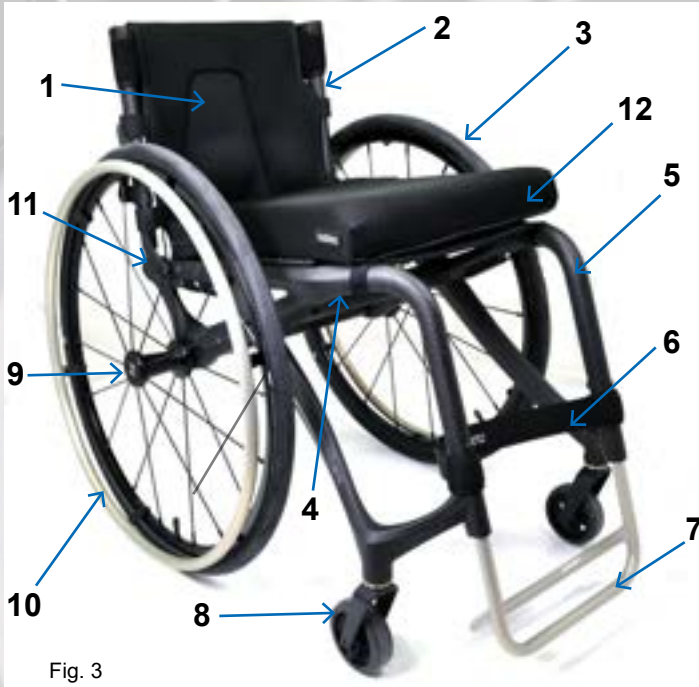


Fig. 1



Fig. 2

## OVERVIEW (Fig. 3)



1. Back upholstery
2. Back support
3. Drive wheels/tires
4. Brake location
5. Chassis
6. Calf strap
7. Footrest
8. Castors
9. Quick-release hub, QR
10. Pushrim
11. Back fastening
12. Seat/Cushion

# SAFETY INSTRUCTIONS

## Latest information

The latest information on safety and product updates can be found on Panthera's website:

[www.permobil.com](http://www.permobil.com)

## Contraindications

The Panthera X3 is intended for people with previous wheelchair experience and the physical and mental ability to handle an easy-to-maneuver wheelchair. Panthera X3 normally has no anti-tipper and is therefore not suitable for inexperienced wheelchair users or users who cannot handle an easy-to-maneuver wheelchair, as there is an increased risk of tipping.

## Check that you have received a chair according to your order:

- Measure the seat width
- Measure back height
- Check that you have received the accessories you ordered.

## Carry out a technical inspection of the chair. Check for the following:

- that the quick-release coupling of the drive wheels easily engages and disengages from its brackets.
- that the drive wheels are securely fastened after assembly.
- that the quick-release button extends completely when it is in the locked position.
- that all four castors are in contact with the floor.
- that the fork for the castor wheels can be turned easily.
- that the back can be folded down easily.
- that the brake is fully functional.



## Balance and tip sensitivity

The position of the drive wheels in relation to the center of gravity of the body, the angle of the backrest and the adjustment of the back upholstery are the most important factors influencing the wheelchair's balance and tip sensitivity. After adjusting it, make sure you feel **confident with the balance of the seat**. Tip sensitivity is also affected by hanging a bag on the backrest, leaning or stretching backwards, worn tires, poorly inflated tires or an unforeseen change in the surface.



## Anti-Tipper

As the user group is advanced users in need of as low a weight as possible, Panthera does not supply standard anti-tipper, as it increases the weight of the wheelchair and the user group is expected to have good control over a wheelchair with a lot of weight over the drive wheels and that can easily tip backwards. The chair was type tested with anti-tipper to meet the tip testing requirements. Panthera X3 is designed for the advanced user who is aware that the chair can easily tip backwards and adapts their driving style and use accordingly. Persons who may need anti-tipper are therefore not recommended to use this wheelchair, as this could result in serious injury. Anti-tipper is available as an option and is primarily intended as a supplement if criteria for using the chair change in the future.

# SAFETY INSTRUCTIONS

## Wheelchair technology

It is important that you carry out a **proper trial of the chair and take the time to practice your wheelchair technique**. If you have any questions about wheelchair technology, please contact your prescriber or therapist. You are also very welcome to contact us at Panthera AB.

## Brakes

Your wheelchair is equipped with a **one-hand brake**. When using the one-hand brake, lock the brake with one hand grip instead of two. The brake is designed as a parking brake. It must **not be used when in motion**.

**NOTE!** For the brake to work, the tires must have the **correct air pressure**. See Technical data.

The brake function is impaired if the tires have poor air pressure or are worn. When changing the tire type, always check the brake, as the dimensions may vary.

When using the one-hand brake and being able to stand up, be careful not to accidentally release the brake with the back of your legs.

## Driving

Before using your wheelchair outdoors, you must practice your driving technique properly in a safe indoor environment, on a level surface.

Always let someone walk behind you when practicing. Only when you feel confident with your wheelchair can you try out outdoor driving.

If the distance between the lowest part of the footrest and the ground is small (less than 40 mm), the footrest may catch on bumps in the ground **and cause a forward fall**.



Shopping can be hung on the backrest in a bag or backpack, but the **risk of tipping backwards increases dramatically**.

At speeds above 8 km/h, there is an increased risk of losing control of the wheelchair.

Watch out for obstacles such as thresholds and gutters, where the small castors can get stuck **and cause a forward fall**.

Driving on uneven or inclined surfaces increases the risk **of falling both forwards and backwards**.

Pay attention to **the surface** under the wheelchair when transferring to/from the wheelchair. If the surface is slippery or sloping, it **can cause a fall** when moving.

## SAFETY INSTRUCTIONS

### Wheelchair technology – Ramps and sloping surfaces, kerbs and stairs

#### Negotiating ramps and inclines (Fig. 49)

When going up a ramp, accelerate slightly, keep your speed and control the direction at the same time. Bend your upper body forward and move with quick, powerful pulls on both pushrims.

#### Negotiating declines (Fig. 50)

When driving down slopes and declines, it is important that you have control over the direction and speed. Lean back and let the pushrims run slowly through your hands. You should be able to stop the wheelchair at any time by grasping the pushrims.

#### Driving down a kerb (Fig. 51, 52)

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

Position the wheelchair close to the kerb, lift the castors and keep the wheelchair balanced. Then roll the two drive wheels slowly over the kerb. Meanwhile, hold the pushrims firmly with both hands until the castors are back on the ground.



Fig. 49



Fig. 50



Fig. 52



## SAFETY INSTRUCTIONS

### Wheelchair technology – Ramps and sloping surfaces, kerbs and stairs

Driving up and down stairs (Fig. 53)

You can move on stairs by taking one step at a time according to the instructions here; One assistant should stand behind the wheelchair and hold on to the back arch. The second assistant should hold one of the solid parts of the front frame to support the wheelchair from the front. It is important that the wheelchair's drive wheels are supported against the ground. Lifting a wheelchair with a user seated in it is not permitted.



Fig. 53

# SAFETY INSTRUCTIONS

## Transfer to chair

The transfer technique must be properly taught using trained personnel. The method described below is for advisory purposes only.

### Lateral transfer to the chair (Fig. 4)

1. Position the wheelchair as close to you as possible.
2. Apply the brakes.
3. Place one hand on the far corner of the wheelchair chassis and the other on the surface you are moving from.
4. Raise yourself to the wheelchair with care and good balance.

To give the wheelchair maximum stability, you can reverse the wheelchair 5–10 cm before stopping, to make sure that the castor wheels are pointing forward.

### Lift with the user in the wheelchair (Fig. 5)

If the wheelchair is to be lifted with a user in it, always lift by the wheelchair chassis, see arrows in Fig. 5.

**Do not** lift by the backrest, push handles, leg supports, wheels or other moving parts.



Fig. 4



Fig. 5

# SAFETY INSTRUCTIONS

## Hot or cold surfaces

If the wheelchair is exposed to sunlight or heat for a long period of time, the wheelchair's surfaces can become very hot. The wheelchair can also become very cold if it is stored or used in cold conditions.



### Crushing hazard

Be aware that there is a risk of getting fingers caught between the drive wheel and the brake and between the drive wheel and the side guard when driving. When driving, make sure that fingers or loose objects do not get caught in the spokes of the drive wheels. Pay special attention to children so that they do not put their hands into the spokes.

## Friction burns

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

## Any incident with the product

Any serious incident associated with our products must be reported to Panthera AB and the Swedish Medical Products Agency, or the responsible authority in the country in which you are located.

# SETTINGS

When adjusting the wheelchair to suit your seating position and to achieve the desired driving characteristics, it is important that you do so in the right order.

First adjust the seat to achieve a correct sitting position. Only then should you adjust the balance of the seat to achieve the desired driving characteristics. This sequence is necessary because changing your seating position also affects the balance of the chair. Remember that the minor work involved with adjusting the chair will be sufficient for a long time to come.

Try different settings over the course of a day and feel for it so that you really get the right sitting position and balance on the chair. You should adjust the wheelchair settings in the following order:

- 1) Seat upholstery tension
- 2) Footrest height
- 3) Calf strap stretch
- 4) Backrest angle
- 5) Back upholstery tension
- 6) Wheelchair balancing
- 7) Brake adjustment

## SETTINGS

### 1) Seat upholstery tension (Fig. 6)

You can tighten or slacken the back of the seat upholstery using the Velcro straps on the underside of the seat. This allows you to vary your seat height approximately 2 cm up and down.

### 2) Footrest height (Fig. 7)

You can adjust the footrests up and down.

You should have the footrest at such a height that you have support for the underside of your thighs against the seat, at the same time as you have support for your feet against the footrest.

#### **Footrest height adjustment:**

- 1) Use a 3 mm Allen key to loosen the two screws on the front of the frame holding the footrest, counterhold with a 4 mm Allen key on the back.
- 2) Move the footrests up or down to fit in one of the fixed positions.
- 3) Fasten the two screws while holding on the back.

### 3) Calf strap tension (Fig. 8)

The stretch of the calf straps affects how far forward you place your feet on the arch. The right stretch depends largely on how long or short your legs are.

#### **Calf strap tension adjustment,**

- 1) Release the calf strap.
- 2) Place your feet on the footrest.
- 3) Adjust the calf strap tension using the strap velcro.



Fig. 6



Fig. 7

# SETTINGS

## 4) Backrest tilt (Fig. 9)

The backrest has stepless angle adjustment. Adjust the angle by first loosening the lock nuts (1), see fig. 6, with a 17 mm block spanner, and then screwing the adjustment screws in or out (2) with a 4 mm Allen key. Turn counterclockwise to tilt the backrest forward and clockwise to tilt it backward. It is important to adjust both sides equally so that the back stand is not warped. Check by folding up the backrest and checking that both adjustment screws are in contact with the frame. Try out a suitable back angle and then tighten the lock nuts again.

## 5) Back upholstery tension (Fig. 10)

With the help of straps located under the tab on the back of the backrest, you can adjust the back upholstery to your back shape, so that you get good support for your lower back. The back upholstery also has a lower flap that is attached with Velcro on top of the seat upholstery, under the seat cushion. You can move this tab backwards or forwards to achieve the appropriate tension on the lower part of the back upholstery (the so-called seat cushion).



Fig. 8

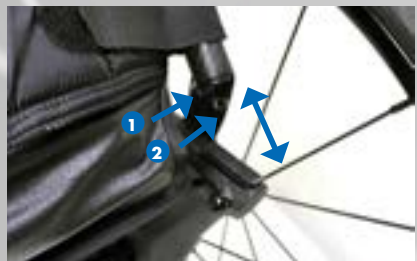


Fig. 9

# SETTINGS

## Adjusting the back upholstery tension:

The tension of the back upholstery can be adjusted by loosening the Velcro straps at the rear of the back (1). By adjusting these, you can shape the back upholstery to your back shape and to give good support to your lower back. The back upholstery also has a tab that is attached with Velcro under the seat upholstery (2). This can be moved backwards or forwards to achieve a suitable tension on the lower part of the back upholstery (seat cushion). Start by slackening the straps and sit as far back in the chair as possible. Then tighten the straps to give good support. If you do not feel that you can get far enough back in the seat, it may be because the lower tab (2) of the back upholstery is attached too far forward under the seat. Release tab (2) and move backwards.

### 6) Wheelchair balancing (Fig. 11)

Panthera X3 has a fixed rear axle, which when ordered can be selected in 4 different positions, giving the wheelchair different balance positions. 2 positions that can make the wheelchair **easier** to tip over and 2 positions that make the wheelchair **less** easy to tip. This selection cannot be changed after ordering.

Further balancing takes place by moving the body position relative to the rear axle. This is done by moving the backrest, which can be set in 4 different positions. The further back you place the backrest, the more “backward balanced” the chair becomes. This makes the chair lighter to move forward, and you get more of the weight over the drive wheels. The chair is easier to maneuver and also easier to “lift up on the rear wheels” when you need to get over kerbs, thresholds, etc. However, the chair must not be too backward-balanced to avoid the risk of tipping backwards.

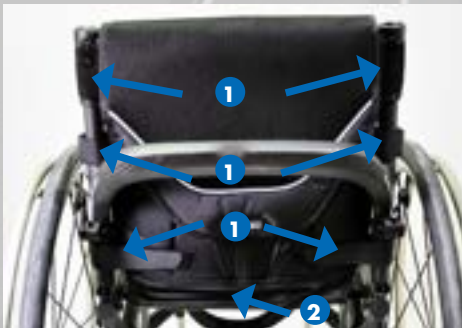


Fig. 10



Fig. 11

# SETTINGS

## 7) Brake adjustment

**NOTE!** A drop in air pressure can accelerate tire wear and when the tire type is changed, the braking effect changes. Therefore, you should check the setting of the brake regularly.

### Adjustment of one-hand brake X3 (Fig. 13)

- 1) Use a 12 mm spanner to loosen the one-hand brake attachment on the underside of the frame (1) on both sides.
- 2) You can now slide the brake forward and backward along the brake rail. Adjust the brake so that in locked position it sinks approx. 4 mm into the tire.
- 3) Check that the brake is positioned equally at the front on both sides of the chair.
- 4) Use a 12 mm spanner to tighten the fixing (1).



Fig. 13

## ACCESSORIES

The accessories approved for use on the Panthera X3 are listed on the website.  
[www.permobil.com](http://www.permobil.com)

### Side guards (Fig. 14)

The side guards prevent clothes and loose objects from getting caught in the spokes of the wheels and dirt from the wheels from getting on your clothes.

To remove the side guard, for example for transport, pull straight up at the front edge (1) so that it releases in the front bracket and then pull it forward (2) so that it releases from its rear bracket.

### Lap belt (Fig. 15)

The lap belt (positioning belt) can be fitted with the CE marking retained. The belt can be mounted around the frame tubes anywhere at the marked positions as per Fig. 15.




Fig. 14



Fig. 15



## TRANSPORT (Fig. 19)

 The Panthera X3 **is not crash tested** and **not approved for use as a seat in a vehicle**. When **transporting in a vehicle**, always carry out a transfer from the wheelchair to a **standard seat with a belt**.

An exception is if the transport vehicle is equipped with a device designed in accordance with Bus Directive 2001/85/EC, Annex VII, point 3.8.3. The user can then travel without a restraint with the wheelchair facing backwards in the direction of travel.



Fig. 19

# TRANSPORT

## Dismantling/Assembling the wheelchair (Fig. 20 and 21)

When transporting the wheelchair, for example in a car, you can fold the backrest forward and remove the drive wheels.

### Folding down the backrest, (Fig. 20)

- 1) Remove any side guards.
- 2) Remove any seat cushion.
- 3) Fold the backrest forward.

### Removing the drive wheel, (Fig. 21)

- 1) Press the quick release button (1).
- 2) Pull the wheel straight out.

### Mounting the drive wheel, (Fig. 21)

- 1) Press the quick release button (1).
- 2) Insert the wheel onto the rear axle and then push the wheel all the way in.
- 3) Check that the button (1) has popped out, which means that the quick release is in the locked position.
- 4) Pull the wheel outwards (2) **to check that it is secure.**



Fig. 20



Fig. 21

## MAINTENANCE – CARBON FIBER

### **Carbon fiber care and service**

CFRP – Carbon fiber reinforced plastic is stronger, lighter and more durable than metal, but behaves differently when damage occurs. Metal bends and deforms in the event of damage. When the CFRP structure breaks, it loses its strength and stability, but without the warning signals that metal shows, such as bending and kinking.

CFRP is sensitive to damage caused by sharp edges, heavy impacts and unusual point loads. If you suspect that your wheelchair has been damaged, examine the entire chassis carefully or have it checked by a specialist.

### **Important**

CFRP – Carbon fiber reinforced plastic is a very strong and light material, but also very sensitive to strong impacts and sharp objects. Cracks and other damage to the carbon fiber structure caused by e.g. a fall backwards onto hard ground can lead to sudden breakage of the chassis.

### **Avoid:**

- Lowering the chassis on hard ground
- Scratching or cracking the carbon structure

## **INSPECT YOUR WHEELCHAIR REGULARLY**


Press areas that you suspect have been damaged.  
- look for abnormal failure or cracks in the material.

Move your hand over the chassis and check for cracks or loose fibers. Make gentle, slow movements to avoid getting splinters in your hand.

If you notice any signs of damage, contact Panthera AB. **DO NOT** attempt to repair the damage yourself.

# MAINTENANCE

Your Panthera is designed to withstand the rigors of daily use for many years. Some parts need to be checked regularly.

 If you use the wheelchair in more extreme environments, such as sand or salt water, you must overhaul and clean the wheelchair more often than specified below.

## Storage

If the wheelchair is to be stored for longer than three months, it must be stored in a dry and heated area. After storage, check the tire pressure and the condition of the upholstery.

## Regular maintenance

For regular maintenance, you will need the following materials:

- car shampoo or washing-up liquid
- degreaser (for heavy soiling)
- universal oil, e.g. CRC 5–56

## Monthly maintenance:

- Wipe the chassis with car shampoo or detergent and a damp cloth. Degreasing agents can be used for heavy soiling. After washing, lubricate all moving parts with oil.
- Clean at the castor wheel attachment in the fork (between wheel and fork). Hair and dust etc. often accumulate here, which can damage the bearings of the castors. .
- Lubricate drive wheel quick release. Remove the drive wheels by pushing in the quick release button and pulling the wheels straight out. Spread a few drops of oil over the quick couplings in the rear axle hub. If you are driving in rain, sand, salt and slush or rarely remove the drive wheels, you should lubricate the quick release more often.
- Inflate the tires. Unscrew the cap from the tire valve. Use a suitable valve adapter and inflate the tires to the correct air pressure, see Technical data.
- Check all screws and nuts. Tighten where necessary.
- Check that the chair has not been damaged. If damage has occurred, contact your local supplier or Panthera AB immediately.

## Twice annually:

- Lubricate moving parts of the brake with a few drops of oil.
- Lubricate the bushing at the backrest pivot point.
- Wash the upholstery if necessary. Machine wash the seat upholstery, back upholstery and seat cushion cover at 60 degrees. Attach the hook and loop fasteners to prevent the upholstery from being caught on the hook and loop fasteners during washing.

## Disinfection instructions

To clean the wheelchair for disinfection purposes, proceed as follows:

- Wipe down the entire wheelchair with an alcohol-based surfactant disinfectant.
- Wash the back upholstery and seat according to instructions

## Service and repair assistance

For assistance with service and repair, contact your local supplier (Assistive Device Center) in the first instance. You can also contact us at Panthera AB.

Instructions for reconditioning can be downloaded from [www.permobil.com](http://www.permobil.com)

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

Wear parts such as tires, inner tubes and castors can be ordered from Panthera and the work can be done at home for those who have the opportunity. Otherwise, contact your Assistive Device Center or Panthera. [www.permobil.com](http://www.permobil.com)

To replace these yourself, proceed as follows:

### Tire and tube replacement: (Fig. 25)

There are different types of tires that can be used, e.g. high-pressure tires, puncture-resistant and rugged terrain tyres.

- 1) Order parts in the correct dimensions from Panthera.
- 2) Remove the drive wheel by pushing in the quick release button and pulling the wheel straight out.
- 3) Remove the tire and tube using suitable tools. The method is the same as for changing the tire and tube on a bicycle wheel.
- 4) Fit the tube and tire carefully to avoid puncturing the tube. Inflate the tire.
- 5) Refit the wheel to the wheelchair, making sure that the button for the quick-release hub pops out so that the wheel locks into the hub. Pull the wheel outwards to check that it is firmly seated. Spin the wheel and make sure the tire is mounted correctly and that the wheel is completely round.

### Replacing castors: (Fig. 26)

- 1) Order parts in the correct dimensions from Panthera.
  - 2) Loosen the castor wheel with two 4 mm Allen keys for 3" X castor wheel, loosen the screw from both sides. Pull out the bolt and remove the castor wheel. Clean the spacers between the wheel and fork and wipe the wheel bearings on the outside with a cloth. Put one drop of oil in each bearing. If S3 castors are fitted, use a 4 mm Allen key for the screw
  - 3) Fit a new castor wheel.
- When refitting castors after cleaning or servicing, always check that the bolt has thread-locker (blue, red or green color) remaining on the thread, indicating sufficient threadlocker. If thread locker is missing, a new bolt must be ordered or light thread locker applied.
- 4) Tighten with a 4 mm Allen key (1). Check that it revolves easily.




Fig. 25



Fig. 26

## WARRANTY AND LIFETIME

 **Lifetime:** depends on how hard your Panthera is subjected to wear and how careful you are with the maintenance of the chair. It is important to carry out maintenance in accordance with the instructions. When the wheelchair has reached the end of its service life, return it to your Assistive Device Center or Panthera AB for recycling.

### Warranty

Panthera AB provides a 5-year factory warranty on the wheelchair's chassis and a 12-month warranty on other parts, excluding wear parts.

- The warranty covers defects in the product due to defects in design, materials or workmanship.
- The warranty does NOT apply to defects caused by normal wear and tear, inadequate maintenance, operating errors, incorrect storage, incorrect assembly by the buyer, modifications and use of products from another supplier without the written consent of Panthera AB, or deterioration caused by repairs carried out by the buyer.

### Reuse

Panthera X3 is suitable for reuse. Before reusing the wheelchair, it must be cleaned and disinfected and sent to an authorized dealer for inspection.

## LABELING (Fig. 27 and 28 )

The wheelchair's labels are located on the front underside of the chassis. See page 3 for explanation of symbols.



Fig. 27



Fig. 28

## TECHNICAL DATA

### PANTHERA X3

Seat width (cm)	33	36	39	42	45
Total width	55	58	61	64	67
Total length (Pos 1)	83	83	83	83	83
Total length (Pos 2)	84.5	84.5	84.5	84.5	84.5
Total height (Pos A)	66.5–80	66.5–80	66.5–80	66.5–80	66.5–80 9
Total height (Pos B)	65–78.35	65–78.35	65–78.35	65–78.35	65–78.35
Seat angle	7°	7°	7°	7°	7°
Seat height rear (Pos A)	43	43	43	43	43
Seat height rear (Pos B)	41.5	41.5	41.5	41.5	41.5
Seat height front (Pos A)	47	47	47	47	47
Seat height front (Pos B)	45.5	45.5	45.5	45.5	45.5
Seat depth	35–47	35–47	35–47	35–47	35–47
Backrest angle back-forward	14°- (-4.5°)	14°- (-4.5°)	14°- (-4.5°)	14°- (-4.5°)	14°- (-4.5°)
Drive wheel diameter	24", 25", 26"	24", 25", 26"	24", 25", 26"	24", 25", 26"	24", 25", 26"
Pushrim diameter (mm)	555,580,605	555,580,605	555,580,605	555,580,605	555,580,605
Drive wheel camber angle	2.2°	2.2°	2.2°	2.2°	2.2°
Castor diameter (mm)	90	90	90	90	90
Footrest to seat – dimensions	36–44	36–44	36–44	36–44	36–44
Transport dimensions					
Width	42	45	48	51	54
Length	75	75	75	75	75
Height	39	39	39	39	39
Weight					
Max. incline with brake	5°	5°	5°	5°	5°
Total (g) *	4950	5000	5050	5100	5150
Transport	2577	2627	2677	2727	2777
User weight (kg)	125	125	125	125	125
Min. turning space (cm)	90	90	90	90	90
Tire pressure (bar/kPa)	8/800	8/800	8/800	8/800	8/800
Material: chassis/back	Carbon fiber				
Material: upholstery	Polyurethane coated polyester				
Upholstery and cushion are fire tested according to:	ISO 7176–16				
Wheelchair class	B: indoor/outdoor				

\* Weights are measured with brake installed.





