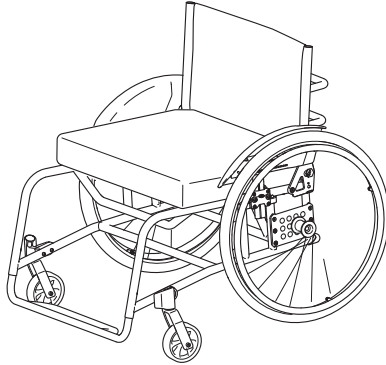
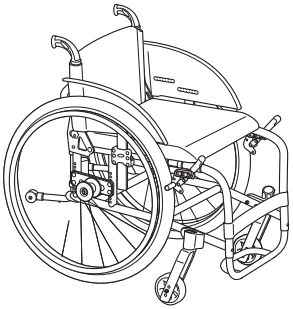
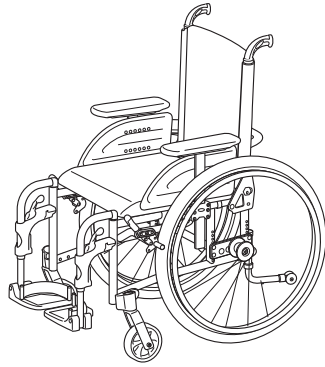
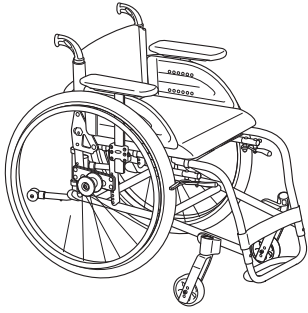


Invacare® XLT®

Active / Dynamic / Swing / Max

en Active wheelchair
User Manual



This manual MUST be given to the user of the product.
BEFORE using this product, this manual MUST be read and saved
for future reference.



Yes, you can.®

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1 General

1.1 Introduction

This user manual contains important information about the handling of the product. To ensure safety when using the product, read the user manual carefully and follow the safety instructions.

Note that there may be sections in this document, which are not relevant to your product, since this document applies to all available models (on the date of printing). If not otherwise stated, each section in this document refers to all models of the product.

The models and configurations available in your country can be found in the country-specific sales documents.

Invacare reserves the right to alter product specifications without further notice.

Before reading this document, make sure you have the latest version. You find the latest version as a PDF on the Invacare website.

If you find that the font size in the printed document is difficult to read, you can download the PDF version from the website. The PDF can then be scaled on screen to a font size that is more comfortable for you.

For more information about the product, for example product safety notices and product recalls, contact your Invacare distributor. See addresses at the end of this document.

In case of a serious incident with the product, you should inform the manufacturer and the competent authority in your country.

1.2 Symbols in this Document

Symbols and signal words are used in this document and apply to hazards or unsafe practices which could result in personal injury or property damage. See the information below for definitions of the signal words.



WARNING

Indicates a hazardous situation that could result in serious injury or death if it is not avoided.



CAUTION

Indicates a hazardous situation that could result in minor or slight injury if it is not avoided.



IMPORTANT

Indicates a hazardous situation that could result in damage to property if it is not avoided.



Tips and Recommendations

Gives useful tips, recommendations and information for efficient, trouble-free use.

1.3 Warranty Information

We provide a manufacturer's warranty for the product in accordance with our General Terms and Conditions of Business in the respective countries.

Warranty claims can only be made through the provider from whom the product was obtained.

1.4 Limitation of Liability

Invacare accepts no liability for damage arising from:

- Non-compliance with the user manual
- Incorrect use
- Natural wear and tear
- Incorrect assembly or set-up by the purchaser or a third party
- Technical modifications
- Unauthorised modifications and/or use of unsuitable spare parts

1.5 Compliance

Quality is fundamental to the company's operation, working within the disciplines of ISO 13485.

This product features the CE mark, in compliance with the Medical Device Regulation 2017/745 Class I. The launch date of this product is stated in the CE declaration of conformity.

We are continuously working towards ensuring that the company's impact on the environment, locally and globally, is reduced to a minimum.

We only use REACH compliant materials and components.

1.5.1 Product-specific standards

The wheelchair has been tested in accordance with EN 12183. It includes testing for flammability.

For further information about local standards and regulations, contact your local Invacare representative. See addresses at the end of this document.

1.6 Service Life

The expected service life of this product is five years when used daily and in accordance with the safety instructions, maintenance intervals and correct use, stated in this manual. The effective service life can vary according to frequency and intensity of use.

2 Safety

2.1 Safety information

This section contains important safety information for the protection of the wheelchair user and assistant and for safe, trouble-free use of the wheelchair.



WARNING!

Risk of death or serious injury

In case of fire or smoke, wheelchair occupants are at particular risk of death or serious injury, when they are not able to move away from the source of fire or smoke. Lighted matches, lighter and cigarettes can cause an open flame in the wheelchair surroundings or on clothes.

- Avoid using or storing the wheelchair near open flames or combustible products.
- Do not smoke while using the wheelchair.



WARNING!

Risk of accidents and serious injury

Accidents with resulting serious injury can occur if the wheelchair is wrongly adjusted.

- Adjustments at the wheelchair always must be carried out by a qualified technician.



WARNING!

Risk of overturning

The longitudinal position of the rear wheels axis of the wheelchair compared to the backrest position can affect its stability.

- A forwards position makes the wheelchair less stable and increase the risk of tipping backwards, but improves its maneuverability by a better grip position of the handrim and a short turning radius.
- Conversely, by moving the rear wheels axis backwards, the wheelchair is more stable and tilts less easily, but its maneuverability is reduced.
- Depending on the user's abilities and its particular safety limits, the decrease in stability can be compensated for by installing an anti-tipper device.



WARNING!

Risk of tilting

The position of the rear wheel axle and the angle of your wheelchair's backrest are two of the key adjustments that can affect your stability whilst sitting in the wheelchair.

- These changes, any front wheels position and/or angle fork adjustments to the set-up of your wheelchair must only be performed at the direction of a qualified technician who has fully risk assessed the implication of any changes to the wheelchair configuration. Therefore, consult with your authorized provider.



WARNING!

Risk due to driving style being unsuitable for the conditions

There is a risk of skidding on wet ground, gravel or uneven terrain.

- Always adjust your speed and driving style to the conditions (weather, surface, individual ability, etc.).



WARNING!

Risk of injury

In a collision you could sustain injury to parts of your body that extend beyond the wheelchair (e.g. feet or hands).

- Avoid an unbraked collision.
- Never drive into an object head-on.
- Drive carefully through narrow passages.



WARNING!

Risk due to wheelchair being out of control

At high speed you could lose control of your wheelchair and overturn.

- Never exceed a speed of 7 km/h.
- Avoid collisions in general.



CAUTION!

Risk of burning

The wheelchair components can heat up when exposed to external sources of heat.

- Do not expose the wheelchair to strong sunlight before use.
- Before usage, check all components that come into contact with your skin for their temperature.



CAUTION!

Risk of getting fingers caught

There is always a risk of getting, e.g. fingers or arms, caught in the moving parts of the wheelchair.

- Make sure when activating the folding or insertion mechanisms of moving parts, such as the removable axle of the rear wheel, folding backrest or anti-tipper, that nothing becomes caught.



CAUTION!

Risk of tipping

The hanging of additional load (back pack or similar items) onto your chair backposts can affect the rearward stability of your wheelchair, especially when used in combination with angle adjustable backrests.

- Invacare strongly recommend the use of anti-tipper (available as an option) when using your backposts with additional load.



CAUTION!

Risk of injury

– In case of pressure sore or injured skin, protect your injure to avoid a direct contact with the fabrics of the device. Refer to a healthcare professional for medical advices.



CAUTION!
Risk of injury

When combining the wheelchair with another device, the restrictions of both devices apply for the combination. E.g. the maximum user weight of the device may be lower.

- Only use combinations with other devices which are allowed by Invacare. Contact your authorized provider for more information.
- Before use, read the user manual of each device and check the restrictions.

2.2 Safety Devices



WARNING!
Risk of accidents

Safety devices that are incorrectly set or no longer working (brakes, anti-tipper) can cause accidents.

- Always check that the safety devices are working before you use the wheelchair and have them checked regularly by a qualified technician or your authorized provider.



CAUTION!
Risk of Injury

Non-original or wrong parts may affect the function and safety of the product.

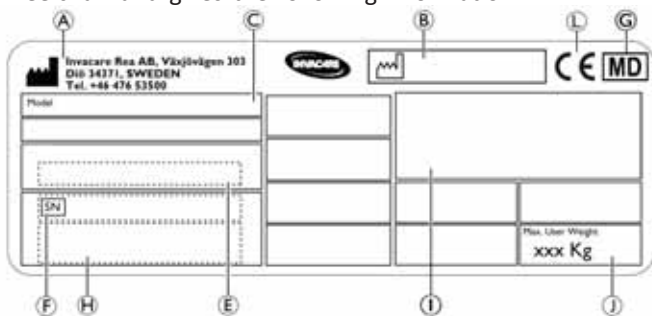
- Only use original parts for the product in use.
- Due to regional differences, refer to your local Invacare catalog or website for available options or contact your Invacare distributor. See addresses at the end of this document.

The functions of the safety devices are described in chapter 3 *Product Overview*, page 7.

2.3 Labels and symbols on the product

Identification label

The identification label is attached to the frame of your wheelchair and gives the following information:



- Ⓐ Manufacturer's address
- Ⓑ Date of manufacture
- Ⓒ Product description
- Ⓓ Seat width
- Ⓔ Reference number
- Ⓕ Serial number
- Ⓖ Medical device
- Ⓗ Serial number barcode
- Ⓘ EAN/HMI barcode
- Ⓢ Maximum user weight
- Ⓛ European conformity

	Read user manual
	Indicates a hazardous situation that could result in serious injury or death if it is not avoided.

Posture belt information label

	The posture belt has the good length, when there's just sufficient space for a flat hand between body and belt.
--	---

Snap hook symbols

Depending on the configuration, some wheelchairs may be used as a seat in a motor vehicle, some may not.

	Tie-down positions where the restraint system straps must be placed in case of transporting the occupied wheelchair in a motor vehicle. This symbol is only attached to the wheelchair when it is ordered with the transportation kit option.
--	---

	WARNING Symbol This wheelchair is not configured for passenger transport in a motor vehicle. This symbol is attached to the frame close to the identification label.
--	--

3 Product Overview

3.1 Product Description

The Invacare XLT range is active wheelchairs with rigid frame, equipped with fold down backrest and fixed or swing-away leg rests.

! **IMPORTANT!**

The wheelchair is manufactured and configured individually to the specifications in the order. The specification must be performed by a healthcare professional according to the user's requirements and health condition.

- Consult a healthcare professional if you intend to adapt the wheelchair configuration.
- Any adaptation must be performed by a qualified technician.

3.2 Intended Use

The wheelchair is intended to provide mobility to persons limited to a sitting position, who are propelling the wheelchair themselves most of the time.

The intended user is the wheelchair occupant and/or an assistant. The user should physically and mentally be able to use the wheelchair safely (e.g. to propel, steer, brake).

The wheelchair is intended for persons, ages 12 and up (adolescents and adults). The weight of the wheelchair occupant should not exceed the maximum user weight as stated in the Technical Data section and on the identification label.

The wheelchair is not intended for abusive or excessive activities, such as sports, that are not part of the intended (daily) use.

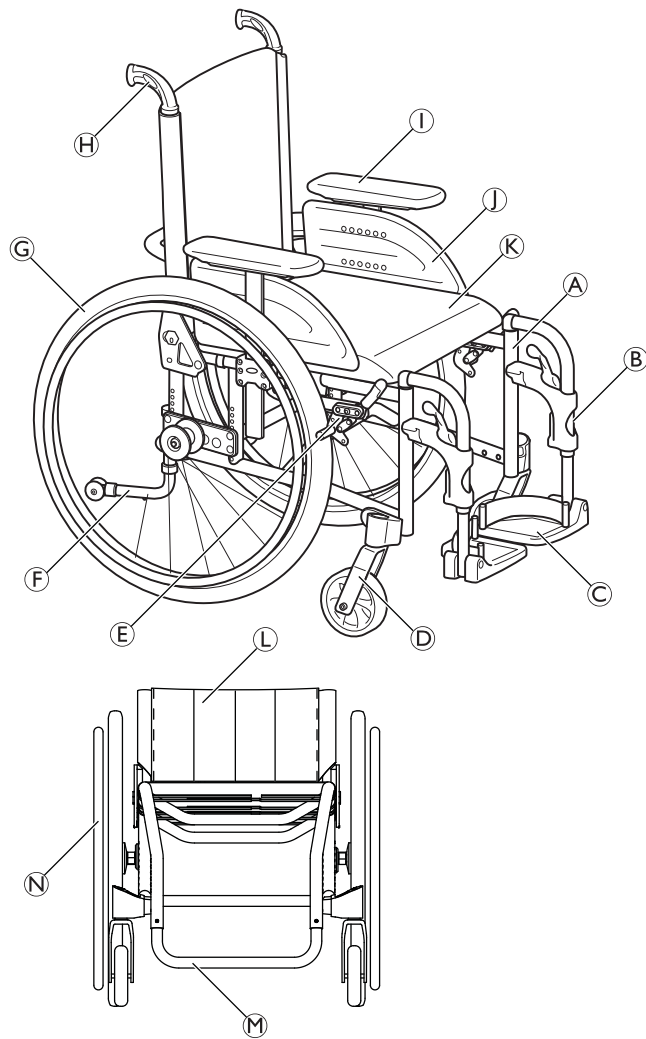
The wheelchair may be used indoors and outdoors on level ground and accessible terrain.

Indications

- Considerable to complete impairment of mobility due to structural and/or functional damage to the lower extremities.
- Sufficient strength and gripping function of arms and hands to propel the wheelchair.

There are no contraindications known, when using the wheelchair as intended.

3.3 Main Parts of the Wheelchair

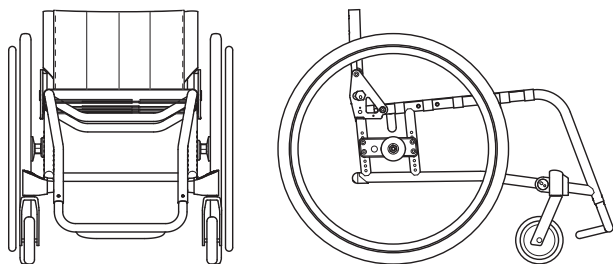


- Ⓐ Frame
- Ⓑ Leg rest
- Ⓒ Footplate
- Ⓓ Castor fork with castor
- Ⓔ Parking brake
- Ⓕ Anti-tipper
- Ⓖ Rear wheel
- Ⓗ Push handle
- Ⓘ Armrest
- Ⓙ Clothes-guard
- Ⓚ Seat / Cushion
- Ⓛ Backrest
- Ⓜ Footrest tube
- Ⓝ Handrim

i The equipment of your wheelchair may differ from the diagram as each wheelchair is manufactured individually to the specifications in the order.

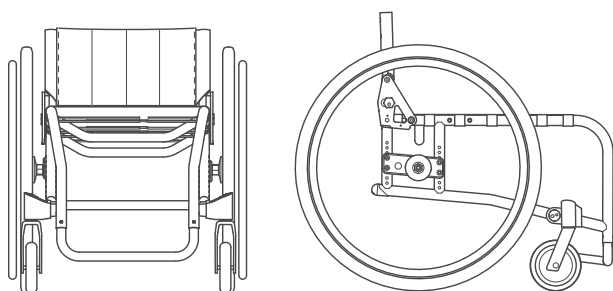
The following XLT models are available:

XLT Active (75° knee angle)



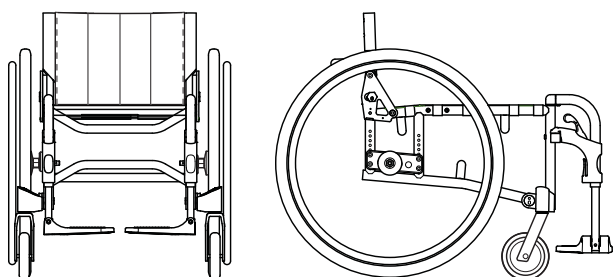
The XLT Active front is designed to hold your feet and lower parts of your leg steady. The footrest tube is standard.

XLT Dynamic (90° knee angle)



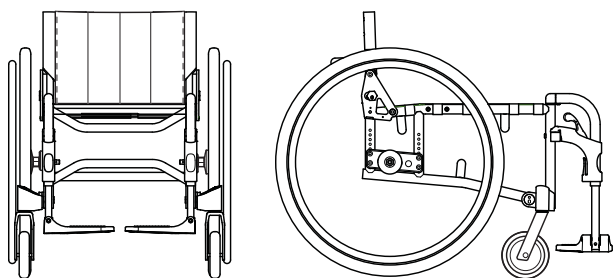
The XLT Dynamic is designed to hold your feet steady. The total length of the wheelchair is very compact. The footbow is standard.

XLT Swing (80°, 90° and angle adjustable legrests)



The XLT Swing is designed with a front offering more space for the feet and lower parts of the legs. The standard delivery includes collapsible footrests.

XLT Max (75° knee angle)



The XLT Max is designed for larger users and has a user weight capacity of 180 kg.

3.4 Parking Brakes

The parking brakes are used to immobilise the wheelchair when it is stationary to prevent it from rolling away.



WARNING!

Risk of overturning if you brake sharply

If you apply the parking brakes while you are moving, the direction of movement can become uncontrollable and the wheelchair may stop suddenly, which can lead to a collision or to you falling out.

- Never apply the parking brakes while you are moving.



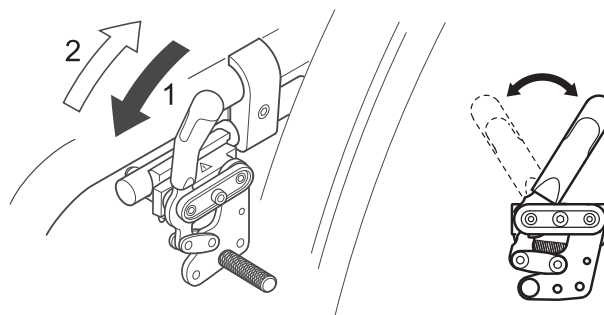
WARNING!

Risk of overturning

The parking brakes will not operate correctly unless there is sufficient air in the tyres.

- Ensure the correct tyre pressure, *11.3 Tyres*, page 35.

Standard brake

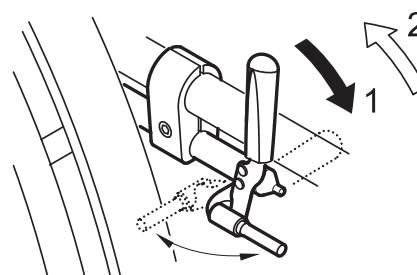


1. To engage the brake, push the brake lever forwards with the palm as far as possible.
2. To disengage the brake, pull the brake lever backwards with the low fingers.



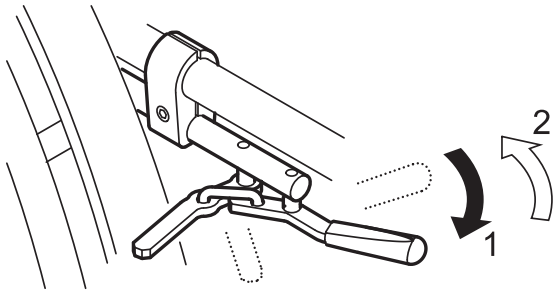
The lever of the standard brake can be folded back to facilitate transfers. To do so, pull up the lever and fold it backwards.

Performance brake



1. To engage the brake, push the brake lever forwards with the palm as far as possible.
2. To disengage the brake, pull the brake lever backwards with the low fingers.

Active brake



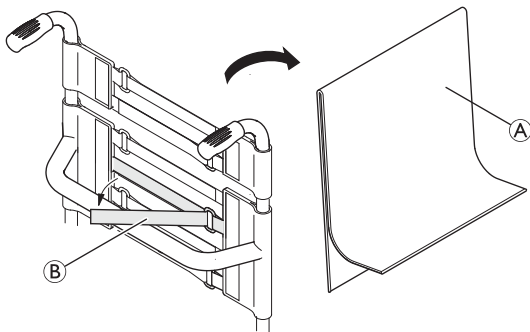
1. To engage the brake, pull the brake lever forwards beside or between your knees as far as possible.
2. To disengage the brake, push the brake lever backwards beside or between your knees.

3.5 Backrest

Backrest cover

You can adjust the tension of the backrest cover as required.

Adjusting the backrest cover



1. Remove the backrest cushion A.
2. Loosen the hook-and-loop straps B on the rear of the backrest cover by simply pulling on them.
3. Tighten or loosen the bands as required then reattach them.



WARNING! **Risk of tipping**

If the bands are set very loose, the tipping point of your wheelchair is changed for the worse.
– Ensure that the bands are set correctly.

Backrest height



WARNING! **Risk of tipping**

The hanging of additional load (back pack or similar items) onto your wheelchair back posts can affect the rearward stability of your wheelchair. This can cause the chair to tip backwards causing injury.
– Therefore, Invacare strongly recommend the use of anti-tippers (available as an option) when using your back posts with additional load (back pack or similar items).

The height of the backrest can be adjusted. The adjustment must be carried out by a qualified technician.

Backrest angle



CAUTION!

Risk of uncomfortable posture

An angle less than 90° between the seat and the backrest is uncomfortable for certain users.

- This adjustment must be performed by a qualified technician upon agreement by a prescribing physician. Please consult with your provider.

The angle of the backrest can be adjusted. The adjustment must be carried out by a qualified technician.

Backrest bar



WARNING!

Risk of accidents

The backrest bar is not suited for lifting or carrying the wheelchair with the user sitting in it as it can break.

- The backrest bar may not be used to lift or carry the wheelchair while the user is sitting in it.

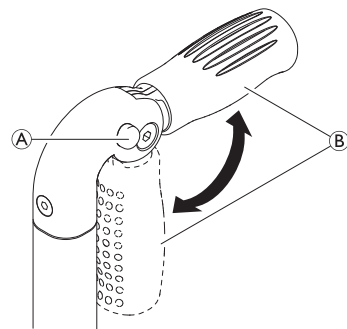
3.6 Push handles



IMPORTANT!

- Always check the push handles before using the wheelchair, as to whether the hand grips are secure, cannot be turned and cannot be pulled off.

Foldable push handles



1. Fully depress button A and fold up respectively fold down the push handle B until it audibly engages.



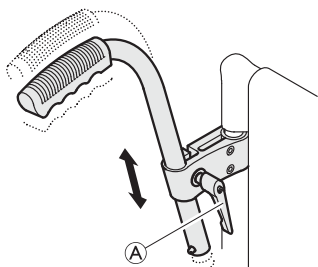
CAUTION!

If not correctly engaged, the push handle could accidentally fold down while pushing the wheelchair.

- Make sure that the push handle is correctly engaged.

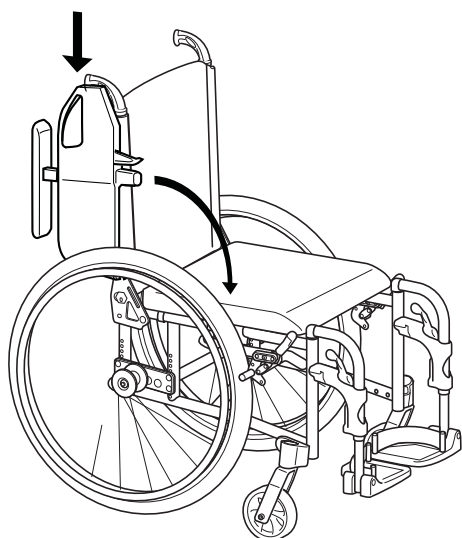
Height adjustable, angled push handles

The infinitely height adjustable push handles allow any assistant to adjust the handles to a comfortable level.



1. To set the height of the push handles, loosen the bolt (A), push the handle to the desired position and tighten the bolt again.

3.7 Flip-up armrest



CAUTION! Risk of pinching

- Keep your fingers away from movable parts during removing, fitting or adjusting the armrest.

Folding

1. Grip the siderest by the cushion or by the front curve and fold it back.

Removing

1. Fold the siderest back and pull it up out of the holder on the back.

Fitting

1. Insert the siderest from above into the holder on the back.
2. Fold it downwards.

Adjusting the height

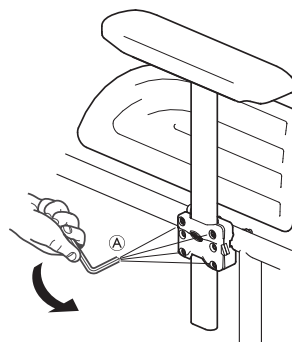
1. Tip the lever (A) on the front of the support and move the armrest upwards or downwards until you reach the desired height.
2. Engage the lever.
3. Perform the setting on both sides.



CAUTION!

- This siderest does not engage into the wheelchair.
– Therefore do not hold it in order to lift the wheelchair.

3.8 Detachable armrest / mudguard



WARNING! Risk of injury

- The armrests are not locked and can be easily pulled out upwards.
- Do not lift or transfer the wheelchair using the armrests.
 - Do not use the armrests for transportation when carrying the wheelchair up- or downstairs.

Removing

1. Pull the armrests by the arm cushion out of the holder.
2. To adjust how easy or difficult it is to pull the armrests out of the holder, change the degree to which the screws (A) are tightened.

Fitting

1. Push the armrests into the holder.



The mudguard has to be removed and fitted in the same way.

3.9 Leg rests



WARNING! Risk of injury

- Never lift the wheelchair by the footrest supports or leg rests.



CAUTION! Risk of pinching or crushing fingers

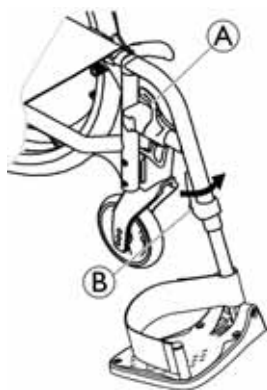
- There are swing mechanisms where you could trap your fingers.
- Be careful when using, swinging, disassembling or adjusting these mechanisms.



IMPORTANT!

- Risk of damage to the leg rest mechanism
- Do not place anything heavy, or let children sit on the leg rest.

3.9.1 Swing away leg rests



Swinging outwards

1. Activate the release lever **A** and swing the leg rests to the outside.

Swinging forwards

1. Swing the leg rest forwards until it engages.

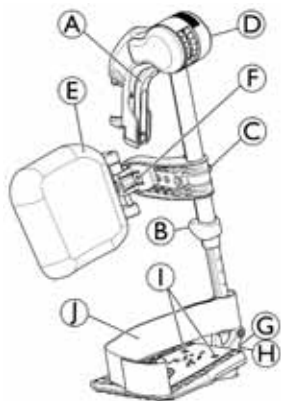
Unhinging

1. Activate the release lever **A**.
2. Pull the leg rest upwards.

Hinging

1. Hinge the leg rest on the front of the frame and swing it forwards until it engages.

3.9.2 Swing away, angle adjustable leg rests



Swinging outwards

1. Activate the release lever **A** and swing the leg rests outwards.

Swinging forwards

1. Swing the leg rest forwards until it engages.

Unhinging

1. Activate the release lever **A**, swing the leg rest outwards.
2. Pull the leg rest upwards.

Hinging

1. Push the leg rest down into its receiver and swing it forwards until it engages.

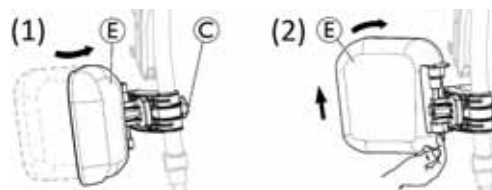
Adjusting angle



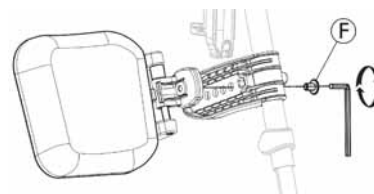
There are six preset positions available for angle adjustment.

1. Rotate the knob **D** with one hand while supporting the leg rest with your other hand.
2. When a suitable angle is obtained, let go off the knob and the leg rest will lock into the desired position.

Swinging calf pad and adjustments



- Swinging calf pad forwards (1) or backwards (2) :
 1. Swing calf pad **E** forwards (1).
 2. Pull up the calf pad **E** and swing it backwards (2).
- Adjusting height of calf pad:
 1. Loosen knob **C**.
 2. Adjust to the desired height and firmly tighten the knob.
- Adjusting depth of calf pad



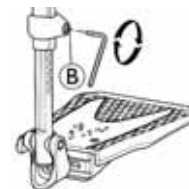
The calf pad has four depth adjustment options:

1. Remove the fixing screw **F** with 5 mm Allen key.
2. Adjust to one of the four positions and firmly tighten the fixing screw **F** (3–5 Nm).


Adjusting foot plate

There are three different fold-up foot plates available.

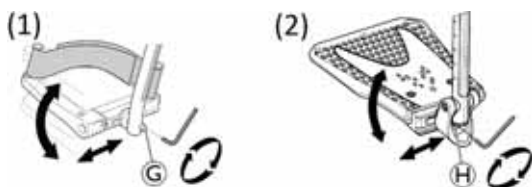
- Standard height-adjustable foot plates:



1. Loose the fixing screw **B** with 5 mm Allen key.
2. Adjust the height and let the screw catch one of the recesses on the foot plate tube.
3. Tighten the fixing screw **B** (3–5 Nm) in the desired position.

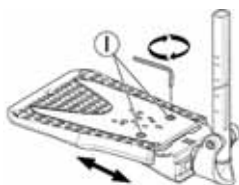
 The distance between the lowest part of the footrest and the ground must be at least 50 mm.

- Depth-, Angle- (1) and Width- (2) adjustable foot plates:



1. Loosen the fixing screw G or H with 5 mm Allen key.
2. Adjust the depth and angle positions and firmly tighten the fixing screw G (12 Nm) or H (8–9 Nm) in the desired position.

- Width-adjustable foot plates (2):

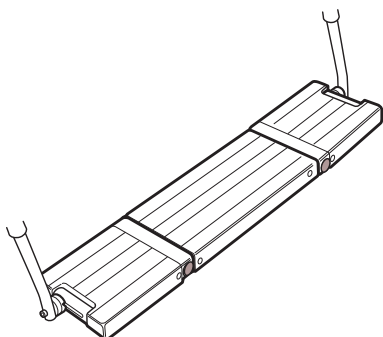


1. Loosen the two fixing screws I with 5 mm Allen key.
2. Adjust the width position and firmly tighten the two fixing screws I (3–5 Nm) in the desired position.

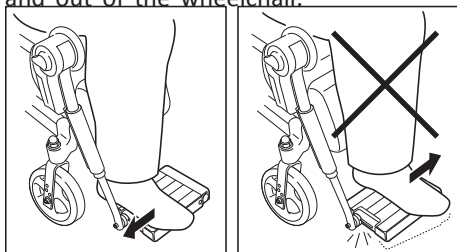
Invacare recommends that foot plate adjustment is carried out by a qualified technician.

i To ensure a good position of the feet, two types of straps can be provided; the heel strap I (serial) and the calf strap (optional) attached to the leg rest support. Both adjustable by hook and loop fasteners.

3.10 Footboard converter XLT Max

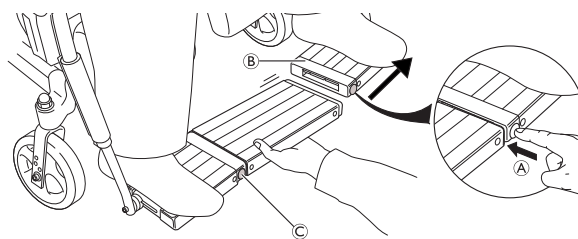


The footboard converter is a sturdy construction in three parts that is easily disassembled to allow for transfers into and out of the wheelchair.



! **IMPORTANT!**
– Make sure that the feet are placed as far out as possible before the middle part is installed or removed. Otherwise the pressure on the footplates might cause the footboard to break.

Removing

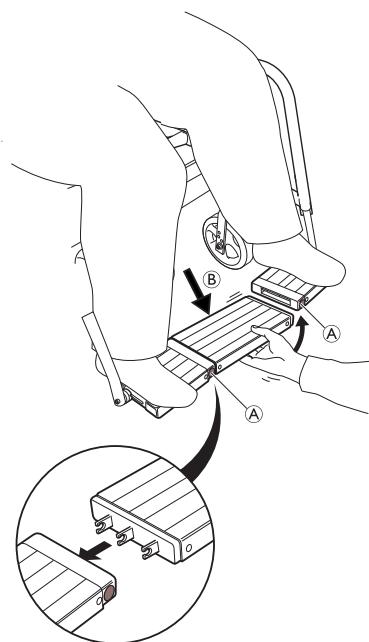


! **CAUTION!**
Risk of pinching
When handling the footboard there is a risk of pinching your fingers.
– Make sure that no pressure is on the footboard when it is being handled and adjusted.

! **IMPORTANT!**
– Make sure that the feet are placed as far out as possible.

1. Press button A.
2. Slide the right-hand side footplate B sideways.
3. Press button C and remove the middle part.

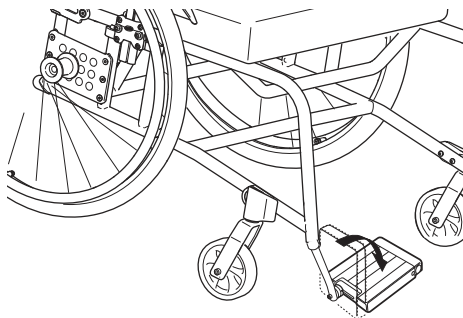
Installing



! **WARNING!**
Risk of injury
If the middle part is not installed correctly it will fall out and the user can get hurt.
– The buttons A must pop out when the middle part is installed correctly and turned the right way.

1. Install the middle part of the footboard converter by inserting the fasteners into one of the footplates and then on the other side.

i A small marking (hole) on the part should be facing backwards B (towards the wheelchair) when the footboard is assembled correctly.



i The footplates can be flipped up to further facilitate transfers.



CAUTION!
Risk of breakage

The footboard is not designed for lifting the chair.
– Do not take hold on the footboard if you need to lift the chair.

3.11 Anti-tipper

An anti-tipper prevents the wheelchair from tipping backwards.



WARNING!
Risk of overturning

Anti-tippers that are incorrectly set or no longer working can lead to overturning.
– Always check that the anti-tipper is working before using the wheelchair and have it set or readjusted by a qualified technician when required.



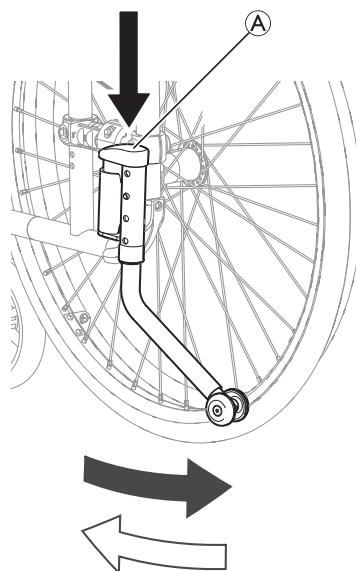
WARNING!
Risk of overturning

On uneven or soft ground, the anti-tipper can sink into potholes or directly into the ground, thereby curtailing or eliminating its safety function.
– Only use the anti-tipper when travelling on even and firm ground.



IMPORTANT!
Risk of damage

– Never step on the anti-tipper or use it as a tipping aid.



Activating the anti-tipper

1. Swing the anti-tipper completely backwards until it locks into position.

Deactivating the anti-tipper

1. Press the cap **A** of the anti-tipper completely downwards and then sideways.



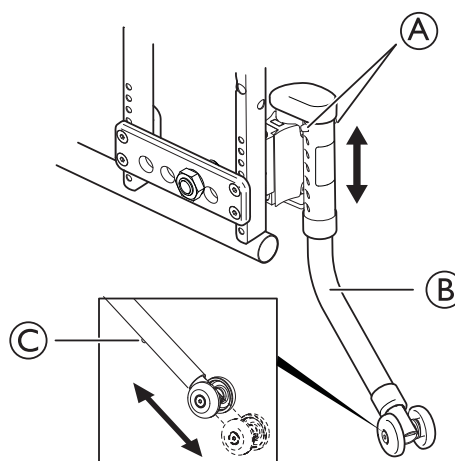
A red warning sticker can now be seen.

2. Swivel the anti-tipper backwards until it engages.



WARNING!
Risk of tipping

An activated anti-tipper can catch when negotiating a step or an edge.
– Always deactivate the anti-tipper before driving over a step or kerb.




Adjusting the height


1. Press the two knobs **A** on each side of the housing and pull the tube **B** to desired set of holes. The knobs will lock the tube into position.

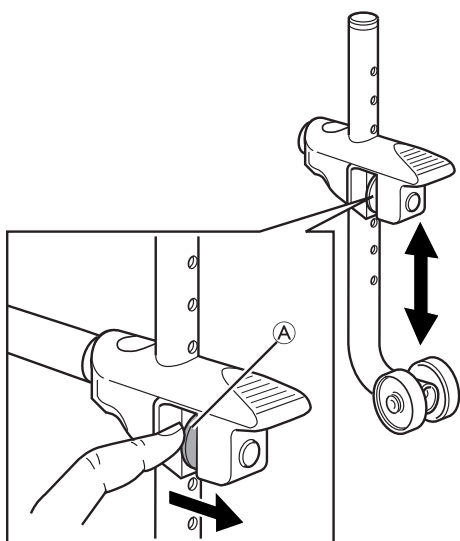
Attaching the depth

1. Press knob **C** and pull the wheel tube in or out to the desired depth. The knob will lock the tube into position.

 If further adjustments of height and/or position are necessary, refer to a qualified technician.

Extended anti-tipper

 Use extended anti-tip devices when an extended rear wheel attachment is used.



1. Lift the spring loaded button and select the required height. Ensure that the anti-tip device locks into its new position.

3.12 Seat cushion

A suitable cushion is needed to provide an even pressure distribution on the seat.



CAUTION!

Risk of instability

Adding a cushion to the seat will raise your height above the ground and can affect your stability in all directions. If a cushion is changed it may also change the user's stability.

– If the thickness of the cushion is changed, a complete set up of the wheelchair need to be done by a qualified technician.



Use a seat cushion with anti-slip underlay or hook fastening tapes to avoid slipping of the seat cushion. A loop fastening tape is pre-attached to the seat cover.

4 Options

4.1 Posture belt

The wheelchair can be equipped with a posture belt. It prevents the user from sliding downward in the wheelchair or from falling out of the wheelchair. The posture belt is not a positioning device.

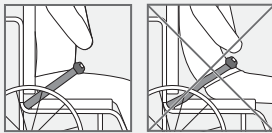


WARNING!

Risk of serious injury / strangulation

A loose belt can allow the user to slip down and create a risk of strangulation.

- The posture belt should be mounted by a qualified technician and fitted by the responsible prescriber.
- Always make sure that the posture belt is tightly fitted across the lower pelvis.
- Each time the posture belt is used, check if it fits properly. Changing the seat and/or backrest angle, the cushion and even your clothes influence the fit of the belt.



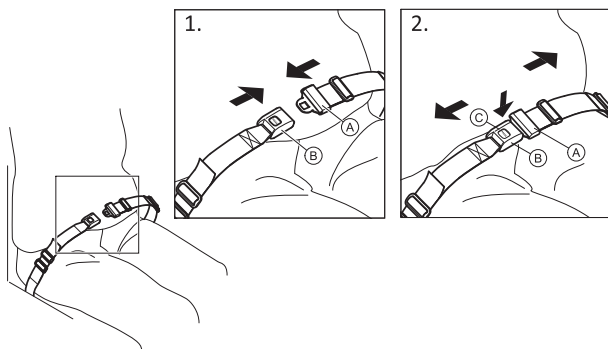
WARNING!

Risk of serious injury during transport

In a vehicle, a user in his wheelchair must be secured by a safety belt (3-point belt). A posture belt only is not sufficient as a personal restraint device.

- Use the posture belt as a complement, but not as a substitute to the 3-point safety belt, when transporting the wheelchair user in a vehicle.

Closing and opening the posture belt



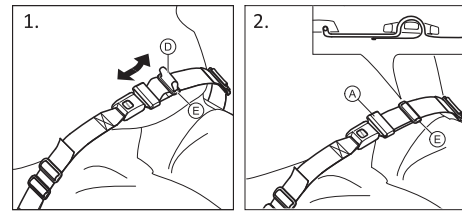
Ensure that you are sitting fully back in the seat and that the pelvis is as upright and symmetrical as possible.

1. To close, push the catch **A** into the buckle clasp **B**.
2. To open, push the PRESS button **C** and pull the catch **A** out of the buckle clasp **B**.

Adjusting the length



The posture belt has the good length, when there's just sufficient space for a flat hand between body and belt.



1. Shorten or extend the loop **D** as required.
2. Thread loop **D** through catch **A** and plastic buckle **E** until the loop is flat.

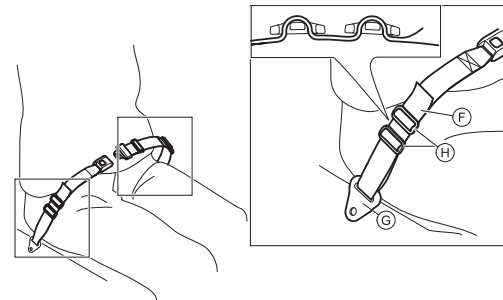
If this adjustment is not sufficient, it might be required to re-fit the posture belt at the fixations.

Fitting the posture belt at the fixations



CAUTION!

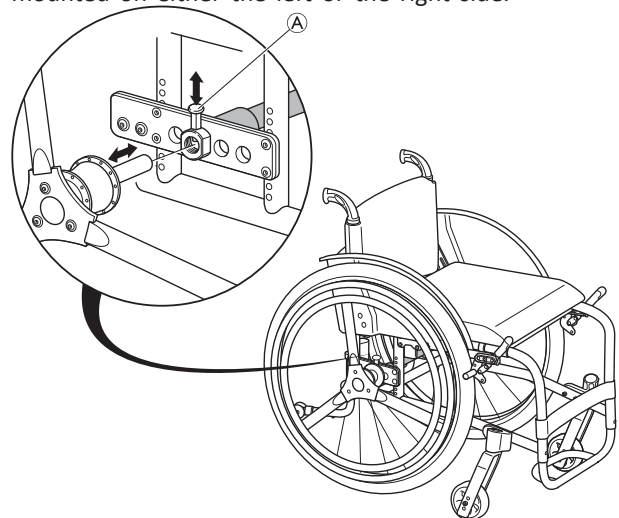
- Thread the belt loop through both plastic buckles to avoid the belt from loosening.
- Do the adjustments on both sides equally, so that the buckle clasp remains in a central position.
- Make sure that the belts do not get caught in the spokes of a rear wheel.



1. Thread the loop **F** through the fixation on the chair **G** and then through BOTH plastic buckles **H**.

4.2 One arm drive

The quick release one-arm drive allows the user to propel the wheelchair with one hand. Two hand rims are mounted on the same rear wheel. The one-arm drive wheel can be mounted on either the left or the right side.



Detaching the rear wheel

1. Pull the knob **A** and remove the rear wheel from the hub.

Attaching the rear wheel

1. Pull the knob (A) and push the rear wheel back onto the hub.



WARNING! Risk of injury

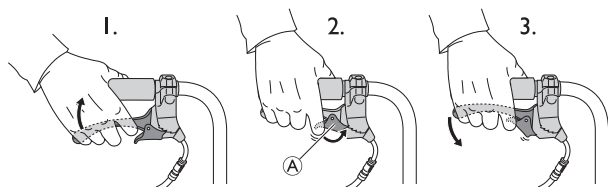
- After attaching the rear wheels, always check that the locking pin has actually locked the rear wheel into position when the knob has been released.
- Take hold of the wheels and try to detach them. This should not be possible.



CAUTION! Risk of pinching your fingers

- Take care not to trap your fingers between the spokes and the three bars of the outer hand rim.

4.3 Assistant operated drum brakes



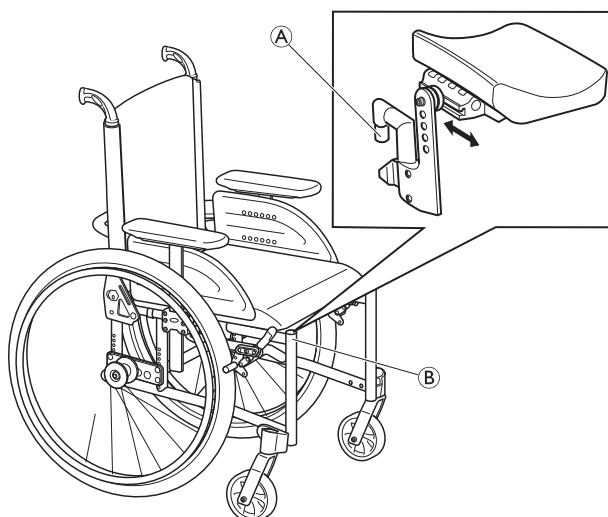
1. **Applying the brakes when moving**
Pull both brake handles upwards (squeeze the handles) and the brake will be applied.
2. **Locking the brakes**
Pull the brake handle upwards and move the lock catch (A) upwards. Then release the handle.
3. **Releasing the brakes**
Pull the handle upwards and the lock catch will release automatically.



WARNING! Risk of accidents

- Incorrect adjustments or use of the brakes can reduce their performance.

4.4 Amputee legrests



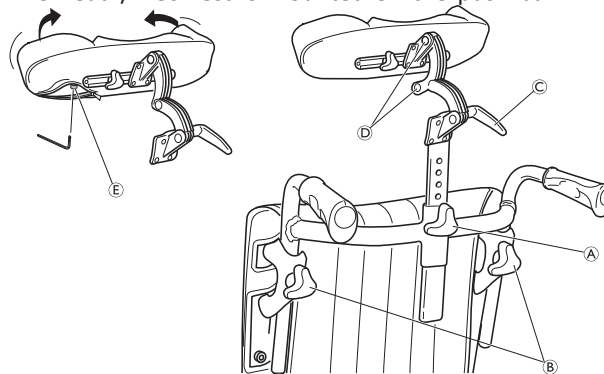
1. Attach the legrests by pushing the tube at the upper part (A) of the legrests down into the tubes (B) on the wheelchair. You must angle the legrests outwards when inserting them.
2. Lock the legrests by turning them inwards.



The legrests are automatically locked so there is no risk of them coming off the wheelchair.

4.5 Head-/ neckrest

The head-/ neckrest is mounted on the push bar.



Adjusting the height

1. Loosen the knobs (A and/or B) and adjust to desired height.
2. Retighten the knobs again.

Adjusting the angle

1. Loosen the handle (C) and/or the screws (D) and set the desired angle.
2. Retighten the handle and the screws again.

Adjusting the angle of the sides of the headrest

1. Unzip the zip at the bottom of the headrest.
2. Loosen the screw (E).
3. Set the required angle of the headrest sides.
4. Retighten the screw and close the zip.



WARNING! Risk of tipping

A head and neckrest may affect the balance of the wheelchair when mounted behind the backrest.
– Check the balance of the wheelchair and adjust the rear wheels backwards for increased stability if necessary.

4.6 Air pump

The air pump is fitted with a universal valve connection.

1. Remove the dust cap from the valve connection.
2. Push the valve connection onto the open valve on the wheel and pump the wheel up.

4.7 Passive illumination

You can attach reflectors to the rear wheels.

5 Setup

5.1 Safety information



CAUTION!

Risk of injury

- Before using the wheelchair, check its general condition and its main functions, *8.2 Maintenance Schedule, page 28.*

Your provider will supply your wheelchair ready for use. Your provider will explain the main functions and ensure that the wheelchair meets your needs and requirements.

Adjustments of the axle position and the castor supporters must be carried out by a qualified technician.

6 Using the wheelchair

6.1 Safety information



WARNING!

Risk of accidents

Uneven tyre pressure can have a huge effect on handling.
– Check the tyre pressure before each journey.



WARNING!

Risk of falling out of the wheelchair

When using too small front wheels the wheelchair could get stuck at curbs or in floor grooves.
– Make sure that the front wheels are suitable for the surface you're driving on.



CAUTION!

Risk of crushing

There may be a very small gap between the rear wheel and the mudguard or armpad with the risk that you could trap your fingers.
– Ensure that you always propel your wheelchair using the handrims only.



CAUTION!

Risk of crushing

There may be a very small gap between the rear wheel and the parking brake with the risk that you could trap your fingers.
– Ensure that you always propel your wheelchair using the handrims only.

6.2 Braking During Use

Whilst you are moving, you brake by transferring force to the handrim with your hands.



WARNING!

Risk of overturning

If you apply the parking brakes while you are moving, the direction of movement can become uncontrollable and the wheelchair may stop suddenly, which can lead to a collision or to you falling out.
– Never apply the parking brakes while you are moving.



WARNING!

Risk of falling out of the wheelchair

If the wheelchair is rapidly decelerated by an assistant pulling at the push handles, the user may fall out of the wheelchair.
– Always apply the posture belt if present.
– Make sure your assistant is qualified in transferring occupied wheelchairs.



CAUTION!

Risk of burning your hands

If you brake for a long time, a lot of frictional heat is produced at the handrims.
– Wear suitable gloves.

1. Hold the handrims and press evenly with both hands until the wheelchair stops.

6.3 Getting in and out of the wheelchair



WARNING!

Risk of overturning

There is a high risk of overturning during the transfer.
– Only get in and out without assistance if you are physically able to do so.
– When transferring, position yourself as far back as possible in the seat. This will prevent damaged upholstery and the possibility of the wheelchair tipping forward.
– Make sure that both castors are facing straight to the front.



WARNING!

Risk of overturning

The wheelchair could tip forwards if you stand on the footrest.
– Never stand on the footrest when getting in and out.



CAUTION!

If you release or damage the brakes the wheelchair could roll away out of control.
– Do not support yourself on the brakes when getting in and out.



IMPORTANT!

The mudguards and armrests could become damaged.
– Never sit on the mudguards or armrests when getting in and out.

1. Propel the wheelchair as near as possible to the seat that you want to move to.
2. Apply the parking brakes.
3. Remove the armrests or move them upwards out of the way.
4. Place your feet on the ground.
5. Hold the wheelchair and, if necessary, also hold a fixed object in the vicinity.
6. Move slowly to chair.

6.4 Driving and Steering the Wheelchair

You drive and steer the wheelchair using the handrims. Before driving without an assistant you must find your wheelchair's tipping point.



WARNING!

Risk of Tipping

The wheelchair can tip backwards if it is not fitted with an antitipper. When finding the tipping point, an assistant must stand immediately behind the wheelchair to catch it if it tips over.
– To prevent tipping, install an antitipper device.



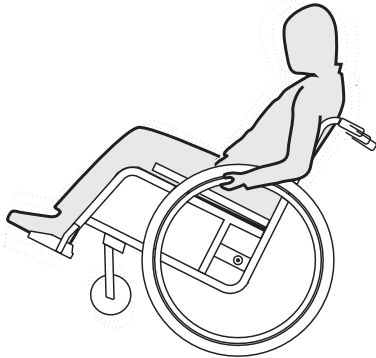
WARNING!

Risk of Tipping

The wheelchair can tip forwards.
– When setting up your wheelchair, test its behavior in terms of tipping forward and adjust your driving style accordingly.

**CAUTION!**

A heavy load hanging on the backrest can affect the wheelchair's centre of gravity.
– Change your driving style accordingly.

Finding the Tipping Point

1. Release the brake.
2. Roll backwards a short distance, grasp both handrims firmly and push forwards with a slight kick.
3. The shift in weight and steering in opposite directions with the handrims will enable you to identify the tipping point.

6.5 Negotiating steps and kerbs**WARNING!****Risk of overturning**

When negotiating steps you could lose your balance and tip the wheelchair over.

- Always approach steps and kerbs slowly and carefully.
- Do not go up or down steps that are higher than 25 cm.

**CAUTION!**

An activated anti-tipper prevents the wheelchair from tipping backwards.

- Deactivate the anti-tipper before going up or down steps or kerbs.

**WARNING!****Risk of injury to the assistant and damage to the wheelchair**

Tilting the chair with a heavy user can hurt the assistant's back and damage the chair.

- Make sure to be able to safely control the wheelchair with a heavy user before performing a tilting maneuver.

Going down a step with an assistant

1. Move the wheelchair right up to the kerb and hold the handrims.
2. The assistant should hold both push handles, place one foot on the tipper aid (if installed) and tilt the wheelchair backwards so that the front wheels lift off the ground.
3. The assistant should then hold the wheelchair in this position, push it carefully down the step and then tilt it forwards until the front wheels are back on the ground.

Going up a step with an assistant

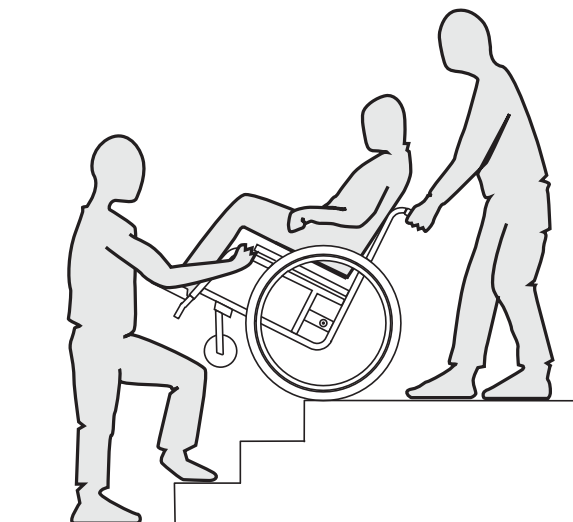


WARNING! **Risk of serious injuries**

Going up steps and kerbs frequently can result in earlier than expected fatigue break of the wheelchair backrest. The user might fall out of the wheelchair.

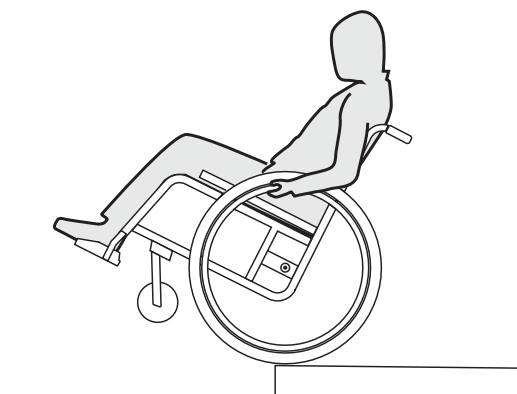
- Always use a tipper aid when going up steps or kerbs.

1. Move the wheelchair backwards until the rear wheels touch the kerb.
2. The assistant should tilt the wheelchair using both push handles so that the front wheels lift off the ground, then pull the rear wheels over the kerb until the front wheels can be placed back on the ground.



1. You can go up and down stairs by taking them one step at a time, as described above. The first assistant should stand behind the wheelchair holding the push handles. The second assistant should hold a solid part of the front frame to steady the wheelchair from the front.

Going down a step without an assistant



WARNING! **Risk of tipping**

When going down a step without an assistant you could tip over backwards if you cannot control your wheelchair.

- First learn how to go down a step with an assistant.
- Learn how to balance on the rear wheels, 6.4 *Driving and Steering the Wheelchair, page 19.*

1. Move the wheelchair right to the kerb, lift the front wheels and keep the wheelchair balanced.
2. Now slowly roll both rear wheels over the kerb. While doing this, hold the handrims firmly with both hands until the front wheels are back on the ground.

6.6 Going up and down stairs



WARNING! **Risk of overturning**

When negotiating stairs you could lose your balance and overturn your wheelchair.

- Always use two assistants when negotiating stairs with more than one step.

6.7 Negotiating ramps and slopes



WARNING! **Risk due to wheelchair being out of control**

When negotiating slopes or gradients your wheelchair could tip backwards, forwards or sideways.

- Always have an assistant behind the wheelchair when approaching long slopes.
- Avoid lateral slopes.
- Avoid slopes of more than 7°.
- Avoid jerking when changing direction on a slope.



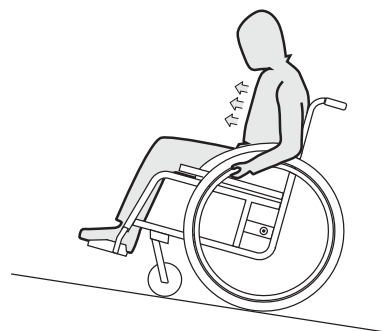
CAUTION!

Your wheelchair could run away even on slightly sloping ground if you do not control it using the handrims.

- Use the parking brakes if your wheelchair is stationary on sloping ground.

Going up slopes

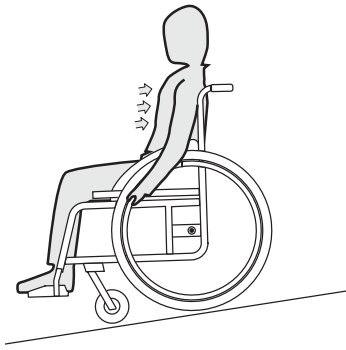
To go up a slope, you must create some momentum, keep up the momentum and control the direction at the same time.



1. Bend your upper body forwards and propel the wheelchair with quick, powerful strokes on both handrims.

Going down slopes

When going down slopes, it is important to control your direction and particularly your speed.



1. Lean back and carefully allow the handrims to run through your hands. You should be able to stop the wheelchair at any time by gripping the handrims.

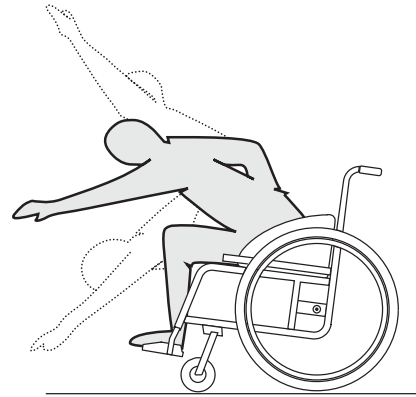


CAUTION!

Risk of burning your hands.

If you brake for a long time, a lot of frictional heat is produced at the handrims.

- Wear suitable gloves.



1. Point the front wheels forwards. (To do this, move your wheelchair forwards slightly then back again.)
2. Apply both parking brakes.
3. When leaning forwards your upper body must remain over the front wheels.

Reaching backwards



WARNING!

Risk of falling out

If you lean too far backwards you could tip your wheelchair over.

- Do not lean out over the backrest.
- Use an antitipper device.

6.8 Stability and balance when seated

Some everyday activities and actions require you to lean forwards, sideways or backwards out of the wheelchair. This has a major effect on the wheelchair's stability. To keep your balance at all times, proceed as follows:

Leaning forwards

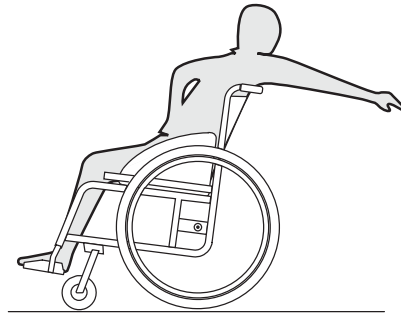


WARNING!

Risk of falling out

If you lean forwards out of the wheelchair you could fall out of it.

- Never bend too far forwards and do not shift forwards in your seat to reach an object.
- Do not bend forwards between your knees to pick up something off the floor.



1. Point the front wheels forwards. (To do this, move your wheelchair forwards slightly then back again.)
2. Do not apply the parking brakes.
3. When reaching backwards do not reach so far that you have to change your sitting position.

7 Transport

7.1 Safety information



WARNING!

Risk of injury if the wheelchair is not properly secured

In the event of an accident, braking manoeuvre, etc. you may suffer serious injuries from flying wheelchair parts.

- Always remove the rear wheels when transporting the wheelchair.
- Firmly secure all wheelchair components in the means of transport to prevent them from coming loose during the journey.



IMPORTANT!

Excessive wear and abrasion could affect the strength of load-bearing parts.

- Do not pull your wheelchair across abrasive surfaces without the wheels fitted (e.g. pulling the frame over tarmac).

7.2 Disassemble the wheelchair for transport

The XLT is easy to transport. Many parts are removable to make the wheelchair smaller and lighter.

1. Remove the armrests/mudguards, see chapter 3.7 *Flip-up armrest, page 11* resp. 3.8 *Detachable armrest / mudguard, page 11*.
2. Remove the leg rests, see chapter 3.9 *Leg rests, page 11*.
3. Remove the rear wheels, see chapter 7.5 *Removing and fitting the rear wheels, page 23*.
4. Fold down the backrest, see chapter 7.3 *Folding and unfolding the wheelchair, page 23*.



CAUTION!

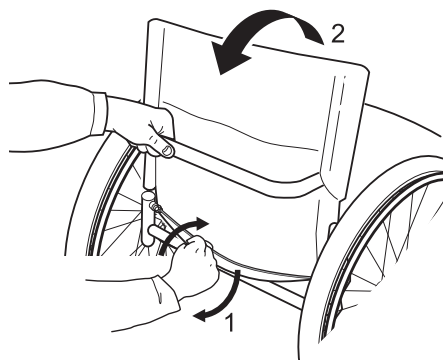
Risk of getting hurt

The backrest does not have a locking mechanism when folded down.

- Do not lift the wheelchair by grabbing the backrest bar, it may flip up and hurt you.

7.3 Folding and unfolding the wheelchair

The wheelchair has a rigid frame. Nevertheless, the backrest can be folded forwards and fixed there.



Folding the wheelchair

1. Remove the seat cushion, if present.
2. Fold the clothes-guard, if present, inwards against the backrest on both sides.
3. Twist the cord on the back of the wheelchair (1) and fold the backrest forward (2) until it engages.
4. The wheelchair can now be lifted using the backrest brace.

Unfolding the wheelchair



IMPORTANT!

- When unfolding the wheelchair, do not pull the backrest brace without previously releasing the backrest using the cord.
- Check that the backrest is completely engaged on the frame, before you use the wheelchair again.

1. Pull the cord on the backrest of the wheelchair (1).
2. Pull the backrest backwards (2) using the backrest brace, until the backrest tube engages on both sides of the frame.
3. Fold the clothes-guard back into position on both sides.



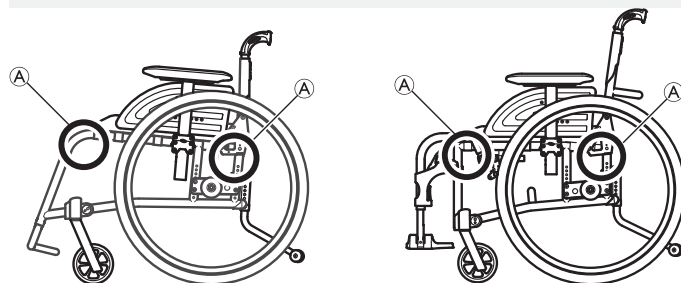
The model XLT Max does not have a locking function. Just pull the backrest upwards and check that it is fixed in place.

7.4 Lifting the wheelchair



IMPORTANT!

- Never lift the wheelchair by removable parts (armrests, footrests).
- Ensure the backrest posts are securely in place.



1. Fold the wheelchair, see chapter 7.3 *Folding and unfolding the wheelchair, page 23*.
2. Always lift the wheelchair by gripping the frame at points A.

7.5 Removing and fitting the rear wheels

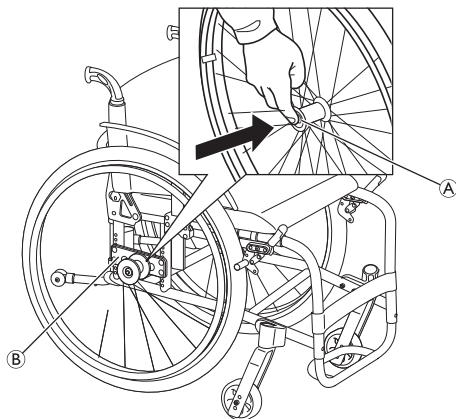


WARNING!

Risk of overturning

If the removable axle of a rear wheel is not fully engaged, the wheel can become loose during use. This can lead to overturning.

- Always ensure that the removable axles are fully engaged whenever you fit a wheel.



Removing the rear wheels

1. Release the brakes.
2. With one hand, hold the wheelchair upright.
3. With the other, hold the wheel through the external spoke rim around the wheel hub.
4. Using your thumb, press the removable axle button (A). Keep it pressed and pull the wheel out of the adapter sleeve (B).

Fitting the rear wheels

1. Release the brakes.
2. With one hand, hold the wheelchair upright.
3. With the other, hold the wheel through the external spoke rim around the wheel hub.
4. Using your thumb, press the removable axle button and hold it down.
5. Push the axle into the adapter sleeve (B) up to the stop.
6. Release the removable axle button and make sure that the wheel is secure.

7.6 Transporting the Mobility Device without Occupant



CAUTION!

Risk of injury

- If you are unable to fasten your mobility device securely in a transport vehicle, Invacare recommends that you do not transport it.

Your mobility device may be transported without restrictions, whether by road, rail or by air. Individual transport companies have, however, guidelines which can possibly restrict or forbid certain transport procedures. Please ask the transport company regarding each individual case.

- Invacare strongly recommends securing the mobility device to the floor of the transporting vehicle.

7.7 Transporting the Occupied Wheelchair in a Vehicle

Even when the wheelchair is properly secured and the following rules are met, injuries to passengers may occur in a collision or sudden stop. Therefore Invacare strongly recommends transferring the wheelchair user to the vehicle seat. Do not make alterations or substitutions to points of the wheelchair (structure, frame or parts) without the written consent of Invacare. The wheelchair has been successfully tested according to the requirements of ISO 7176-19 (Frontal impact).



WARNING!

Risk of serious injury or death

To use the wheelchair as a seat in a vehicle the backrest height must be at least 400 mm.

To transport the wheelchair with user in a vehicle, a restraint system must be installed in the vehicle. Wheelchair tie-downs and occupant restraint systems must be approved according to ISO 10542-2. Contact your local Invacare authorized provider for more information on getting and installing an approved and compatible restraint system.



WARNING!

If, for some reason, it is impossible to transfer the wheelchair user to a vehicle seat, the wheelchair can be used as a seat in a vehicle if the following procedures and regulations are followed. A transportation kit (optional) has to be fitted on the wheelchair for such a purpose.

- The wheelchair must be secured in the vehicle with a 4-point wheelchair restraint system.
- The user must wear a 3-point passenger restraint system secured to the vehicle.
- The user must be additionally secured with a posture belt in the wheelchair.



WARNING!

Safety restraint devices must only be used when the wheelchair user's weight is 22 kg or more (ISO-7176-19).

- Do not use the wheelchair as a seat in a vehicle when the user weight is lower than 22 kg.



WARNING!

- Before journey contact transporter and request information about the capability for the below required equipment.
- Make sure there is sufficient free space around the wheelchair and user to avoid the user making contact with other vehicle occupants, unpadded parts of the vehicle, wheelchair options or anchor points of the restraint system.



WARNING!

- Make sure the tie-down points at the wheelchair are not damaged and that the parking brakes are fully functional.
- It's recommended to use puncture-proof tyres during transport to avoid brake problems due to reduced tyre pressure.

**WARNING!**

Injury or damage may occur from wheelchair components or options loosened during a collision or sudden stop.

- Ensure all removable or detachable components and options are removed from the wheelchair and securely stored in the vehicle.
- It is essential to have your wheelchair checked by a qualified technician after an accident, collision etc.

Ramps and Slopes:**WARNING!****Risk of injury**

The wheelchair can move forward / backward uncontrollably by mistake.

- Never leave the user unattended when transporting the wheelchair up or down ramps or slopes.



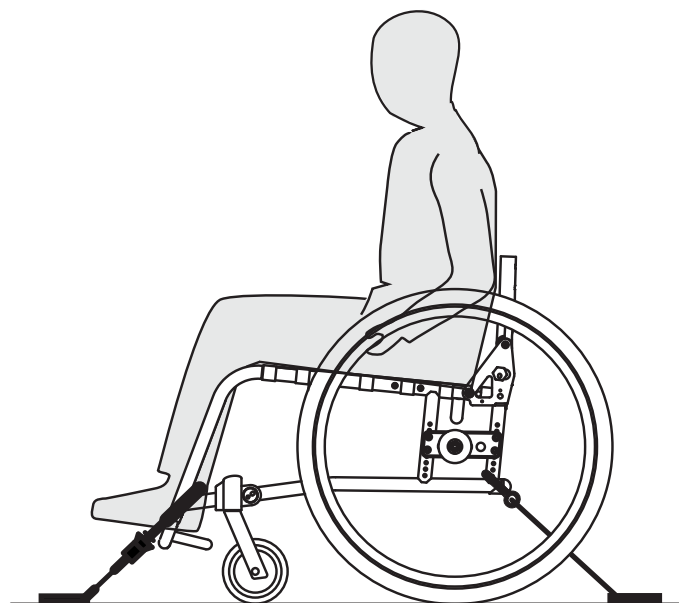
Therefore Invacare strongly recommends transferring the wheelchair user to the vehicle with the posture belt on.

**IMPORTANT!**

- Refer to the user manuals supplied with the restraint systems.
- The following illustrations may differ depending on the restraint system supplier.



The choice of wheelchair configuration (seat width and depth, wheelbase) influences maneuverability and access to motor vehicles.

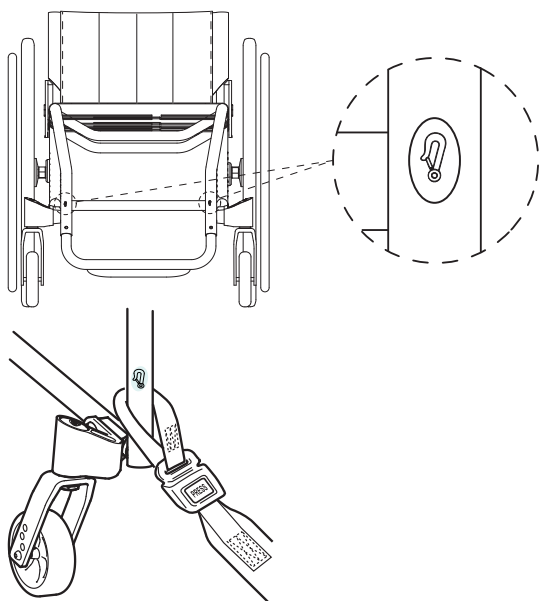
Securing the wheelchair with a 4-point restraint system**WARNING!**

- Place the wheelchair with the user forward-facing in direction of vehicle travel.
- Engage the wheelchair parking brakes.
- Activate anti-tipper (if installed).

The wheelchair tie-down positions where the restraint system straps must be placed are marked with snap hook symbols (see following figures and section 2.3 *Labels and symbols on the product, page 6*).

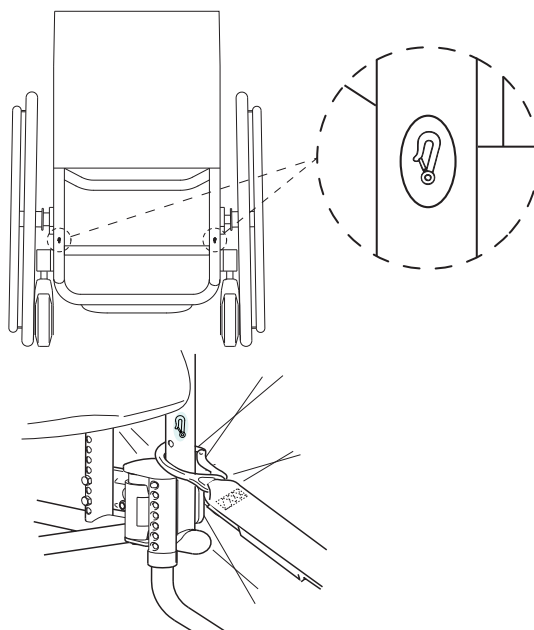
1. Using the front and rear straps of the 4-point restraint system, secure the wheelchair to the vehicle mounted rails. Refer to the user manual supplied with 4-point restraint system.

Front side tie-down positions for belt straps:



1. Attach the front straps above the castor supporters as shown in the two figures above (see location of the attachment labels).
2. Attach front straps to the rail system referring to best practice recommended instructions from the safety belt manufacturer.
3. Disengage parking brakes and apply tension front straps by pulling the wheelchair backwards from the rear.
4. Re-engage parking brakes.

Rear side tie-down positions for snap hooks:



1. Attach the snap hooks to the rear frame right above the adapter plate as shown in the two figures above (see location of the attachment labels).
2. Attach rear straps to the rail system referring to best practice recommended instructions from the safety belt manufacturer.
3. Tighten the straps.

! **IMPORTANT!**

- Make sure that the snap hooks are covered with slip resistant material to avoid laterally slipping on the axle.

! **IMPORTANT!**

- Check the plungers are fully engaged on both sides and located in the same position of the cut-out section of the rail.
- Make sure that the angle between the rails and the straps lies between 40° and 45°.

Fit posture belt



WARNING!

The posture belt can be used in addition to but never as a substitute for an approved passenger restraint system (3-point belt).

1. Adjust posture belt to fit the wheelchair occupant, see section 4.1 *Posture belt*, page 16.

Fastening the 3-point passenger restraint system



1. Attach the 3-point passenger restraint system referring to the user manual supplied with your 3-point restraint system.



IMPORTANT!

- Apply the pelvic belt of the 3-point belt restraint system low across the pelvis so that the angle of the pelvic belt is within the preferred zone (A) of 30° to 75° to the horizontal. A steeper angle is preferred, but never exceeding 75°.



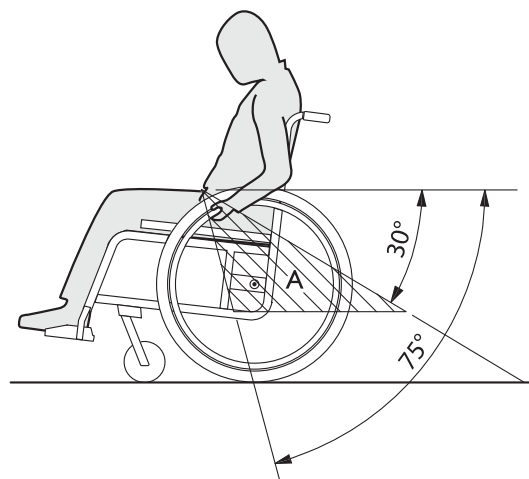
IMPORTANT!

The illustration above may differ depending on the restraint system supplier.



WARNING!

- Ensure the 3-point passenger restraint system fits as tightly across the user's body as possible without discomfort and no part is twisted.
- Ensure the 3-point passenger restraint system is not held away from the user's body by parts of the wheelchair such as armrests or wheels etc.
- Ensure the user restraint has a clear path from the user to the anchor point without interference by any part of the vehicle, wheelchair, seating or accessory.
- Ensure the lap belt fits snugly over the occupant's pelvis and is not allowed to ride up into the abdominal area.
- Ensure the user is able to reach the release mechanism unaided.



8 Maintenance

8.1 Safety information



WARNING!

Some materials deteriorate naturally over time. This could result in damage to wheelchair components.

- Your wheelchair should be checked by a qualified technician at least once a year or if it has not been used for a long period.



Packaging for return

The wheelchair shall be sent to the authorized provider in an appropriate packaging to avoid damage during the shipment.

8.2 Maintenance Schedule

To ensure safe and reliable operation, carry out the following visual checks and maintenance regularly or have it carried out by another person.

	weekly	monthly	annually
Check the tyre pressure	x		
Check that rear wheels are seated correctly	x		
Check posture belt	x		
Check the folding mechanism		x	
Check the castors		x	
Check bolts		x	
Check spokes		x	
Check parking brakes		x	
Have wheelchair checked by a qualified technician			x

General visual check

1. Examine your wheelchair for loose parts, cracks or other defects.
2. If you find anything, stop using your wheelchair immediately and contact an authorized provider.

Check the tyre pressure

1. Check the tyre pressure, see section “Tyres” for more information.
2. Inflate the tyres to the required pressure.
3. Check the tyre tread at the same time.
4. If necessary, change the tyres.

Check that rear wheels are seated correctly

1. Pull on the rear wheel to check that the removable axle is seated correctly. The wheel should not come off.
2. If the rear wheels are not engaged properly, remove any dirt or deposits. If the problem persists, have the removable axles re-fitted by a qualified technician.

Check posture belt

1. Check that the posture belt is adjusted correctly.



IMPORTANT!

- Loose posture belts must be adjusted by an authorized provider.
- Damaged posture belts must be replaced by a qualified technician.

Check the folding mechanism

1. Check that the folding mechanism is easy operating.

Check the castors

1. Check that the castors turn freely.
2. Remove any dirt or hair from the castor bearings.
3. Faulty or worn out castors must be replaced by a qualified technician.

Check the bolts

Bolts can work loose through constant use.

1. Check that the bolts are tight securely and without free play (on the footrest, castor, castor housing, seat cover, sides, backrest, frame, seat module).
2. Tighten any loose bolts with the suitable torque. Therefore refer to the Service Manual, available on the internet at www.invacare.eu.com.



IMPORTANT!

- Self-locking screws/nuts or thread-locking adhesive are used for several connections. If these are loosened, they must be replaced by new self-locking screws/nuts or they must be secured using new thread-locking adhesive.
- Self-locking screws/nuts must be replaced by a qualified technician.

Check the spoke tension

The spokes should not be loose or distorted.

1. Loose spokes must be tightened by a qualified technician.
2. Broken spokes must be replaced by a qualified technician.

Check the parking brakes

1. Check that the parking brakes are positioned correctly. The brake is set correctly if the brake shoe depresses the tyre by a few millimeters when the brake is engaged.
2. If you find that the setting is not correct, have the brakes correctly adjusted by a qualified technician.



IMPORTANT!

- The parking brakes must be reset after replacing the rear wheels or changing their position.

Checking after a heavy collision or blow




IMPORTANT!

- The wheelchair can sustain visibly undetectable damage as a result of a heavy collision or hard blow.
- It is essential to have your wheelchair checked by a qualified technician after a heavy collision or hard blow.

Repairing or changing an inner tube

1. Remove the rear wheel and release any air from the inner tube.
2. Lift one tyre wall away from the rim using a bicycle tyre lever. Do not use sharp objects such as a screwdriver which could damage the inner tube.
3. Pull the inner tube out of the tyre.
4. Repair the inner tube using a bicycle repair kit or, if necessary, replace the tube.
5. Inflate the tube slightly until it becomes round.
6. Insert the valve into the valve hole on the rim and place the tube inside the tyre (the tube should lie right round the tyre with no creases).
7. Lift the tyre wall over the edge of the rim. Start close to the valve and use a bicycle tyre lever. When doing this, check all the way round to ensure that the inner tube is not trapped between the tyre and the rim.
8. Inflate the tyre to the maximum operating pressure. Check that no air is escaping from the tyre.

Spare parts

-  All spare parts may be obtained from an Invacare authorized provider.

8.3 Cleaning and Disinfection

8.3.1 General Safety Information



CAUTION!
Risk of Contamination

- Take precautions for yourself and use appropriate protective equipment.



IMPORTANT!

- Wrong fluids or methods can harm or damage the product.
- All cleaning agents and disinfectants used must be effective, compatible with one another and must protect the materials they are used to clean.
 - Never use corrosive fluids (alkalines, acid etc.) or abrasive cleaning agents. We recommend an ordinary household cleaning agent such as dishwashing liquid, if not specified otherwise in the cleaning instructions.
 - Never use a solvent (cellulose thinner, acetone etc.) that changes the structure of the plastic or dissolves the attached labels.
 - Always make sure that the product is completely dried before taking it into use again.



- For cleaning and disinfection in clinical or long-term care environments, follow your in-house procedures.

8.3.2 Cleaning Intervals



IMPORTANT!

- Regular cleaning and disinfection enhances smooth operation, increases the service life and prevents contamination.
- Clean and disinfect the product
- regularly while it is in use,
 - before and after any service procedure,
 - when it has been in contact with any body fluids,
 - before using it for a new user.

8.3.3 Cleaning



IMPORTANT!

- The product does not tolerate cleaning in automatic washing plants, with high-pressure cleaning equipment or steam.



IMPORTANT!

- Dirt, sand and seawater can damage the bearings and steel parts can rust if the surface is damaged.
- Only expose the wheelchair to sand and seawater for short periods and clean it after every trip to the beach.
 - If the wheelchair is dirty, wipe off the dirt as soon as possible with a damp cloth and dry it carefully.

1. Remove any installed optional equipment (only optional equipment which does not require tools).
2. Wipe down the individual parts using a cloth or soft brush, ordinary household cleaning agents (pH = 6 - 8) and warm water.
3. Rinse the parts with warm water.
4. Thoroughly dry the parts with a dry cloth.



- Car polish and soft wax can be used on painted metal surfaces to remove abrasions and restore gloss.

Cleaning upholstery

For cleaning upholstery refer to the instructions on the labels of the seat, cushion and backrest cover.



- If possible, always overlap hook and loop strips (the self-gripping parts) when washing, to minimize lint and thread build-up on hook strips and prevent damage to upholstery fabric by these.

8.3.4 Disinfection

The wheelchair may be disinfected by spraying or wiping with tested, approved disinfectants.



- Spray a soft cleaning and disinfecting product (bactericidal and fungicide meeting the EN1040 / EN1276 / EN1650 standards) and follow the instructions given by the manufacturer.

1. Wipe down all generally accessible surfaces with a soft cloth and ordinary household disinfectant.
2. Allow the product to air-dry.

9 After Use

9.1 Storage

- !** **IMPORTANT!**
- Risk of damage to the product
 - Do not store the product near heat sources.
 - Never store other items on top of the wheelchair.
 - Store the wheelchair indoors in a dry environment.
 - Refer to temperature limitation in chapter 11 *Technical Data*, page 33.

After long-term storage (more than four months) the wheelchair must be inspected in accordance to chapter 8 *Maintenance*, page 28.

9.2 Reconditioning

This product is suitable for reuse. To recondition the product for a new user, carry out the following actions:

- Inspection
- Cleaning and disinfection
- Adaptation to the new user

For detailed information, see 8 *Maintenance*, page 28 and the service manual for this product.

Make sure that the user manual is handed over with the product.

If any damage or malfunction is detected, do not reuse the product.

9.3 Disposal

Be environmentally responsible and recycle this product through your recycling facility at its end of life.

Disassemble the product and its components, so the different materials can be separated and recycled individually.

The disposal and recycling of used products and packaging must comply with the laws and regulations for waste handling in each country. Contact your local waste management company for information.

10 Troubleshooting

10.1 Safety information

Faults may arise as a result of daily use, adjustments or changing demands on the wheelchair. The table below shows how to identify and repair faults.

Some of the actions listed must be carried out by a qualified technician. These are indicated. We recommend that *all* adjustments are carried out by a qualified technician.

**CAUTION!**

- If you notice a fault with your wheelchair, e.g. a significant change in handling, stop using your wheelchair immediately and contact your provider.

10.2 Identifying and Repairing Faults

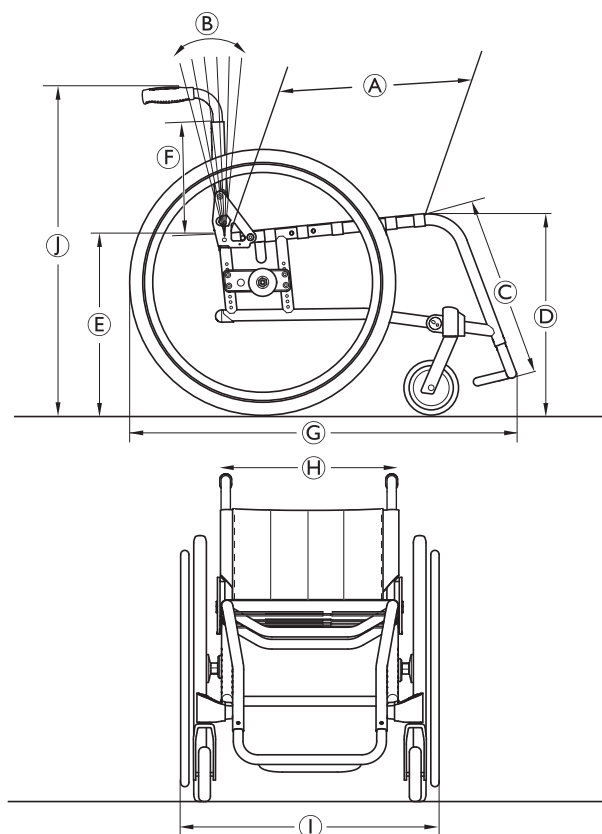
Fault	Possible cause	Action
The wheelchair does not travel in a straight line	Incorrect tyre pressure on one rear wheel	Correct tyre pressure, → 11.3 Tyres, page 35
	One or more spokes broken	Replace faulty spoke(s), → qualified technician
	Spokes tightened unevenly	Tighten loose spokes, → qualified technician
	Front wheel bearings are dirty or damaged	Clean or replace the bearings, → qualified technician
The wheelchair tips backwards too easily	Rear wheels are mounted too far forwards	Mount the rear wheels further back, → qualified technician
	Back angle too large	Reduce the backrest angle, → qualified technician
The brakes are gripping poorly or asymmetrically	Incorrect tyre pressure in one or both rear tires	Correct tyre pressure, → 11.3 Tyres, page 35
	Brake setting incorrect	Correct the brake setting, → qualified technician
Rolling resistance is very high	Tyre pressure in rear tyres is too low	Correct tyre pressure, → 11.3 Tyres, page 35
	Rear wheels not parallel	Ensure the rear wheels are parallel, → qualified technician
The front wheels wobble when moving fast	Too little tension in front wheel bearing block	Tighten the nut on the bearing block axle slightly, → qualified technician
	Front wheel has worn smooth	Change front wheel, → qualified technician
The front wheel is stiff or stuck	Bearings are dirty or faulty	Clean or replace the bearings, → qualified technician

11 Technical Data

11.1 Dimensions and Weight

All dimension and weight specifications refer to a wide range of the wheelchair in a standard configuration. Dimension and weight (based on ISO 7176-1/5/7) may alter according to different configurations.

- !** **IMPORTANT!**
- In some configurations, the overall dimensions of the wheelchair when it is ready for use exceeds the authorised limits and the access to emergency escape routes is not possible.
 - In some configurations, the wheelchair exceeds the size recommended for travelling by train in the EU.



		XLT Active	XLT Dynamic	XLT Swing	XLT Max
Ⓐ	Seat depth	360 – 500 mm, in increments of 20 mm	360 – 500 mm, in increments of 20 mm	360 – 500 mm, in increments of 20 mm	500/550/600 mm, in increments of 20 mm
Ⓑ	Backrest angle	90° ± 10°	90° ± 10°	90° ± 10°	90° ± 10°
	Seat plane angle	0° – 14°	0° – 14°	0° – 14°	0° – 14°
Ⓒ	Knee-to-heel length	380 – 505 mm, in increments of 10 mm	355 – 485	280 – 510	380 – 480 mm, in increments of 10 mm
	Leg to seat surface angle	105° – 105°	90° – 90°	90° – 200°	90° – 200°
Ⓓ	Seat height front	400 – 520 mm, in increments of 10 mm	400 – 500 mm, in increments of 10 mm	390 – 520 mm, in increments of 10 mm	440 – 520 mm, in increments of 10 mm
Ⓔ	Seat height rear	380 – 500 mm, in increments of 10 mm	380 – 480 mm, in increments of 10 mm	370 – 500 mm, in increments of 10 mm	420 – 500 mm, in increments of 10 mm
Ⓕ	Backrest height	200 – 350 / 300 – 490 mm, in increments of 15 mm	200 – 350 / 300 – 490 mm, in increments of 15 mm	200 – 350 / 300 – 490 mm, in increments of 15 mm	400 – 490 mm, in increments of 15 mm
Ⓖ	Overall length with leg rests	830 – 1030 mm	830 – 1030 mm	830 – 1030 mm	930 – 1080 mm
Ⓗ	Effective seat width	355 – 480 mm, in increments of 25 mm	355 – 480 mm, in increments of 25 mm	330 – 505 mm, in increments of 25 mm	505/555/605 mm, in increments of 25 mm
①	Overall width *	555 – 680 mm	555 – 680 mm	530 – 705 mm	715/765/815 mm
①	Overall height	610 – 1050 mm	610 – 1050 mm	610 – 1050 mm	790 – 1100 mm
	Armrest to seat height	210 – 310 mm	210 – 310 mm	210 – 310 mm	210 – 310 mm
	Front location of armrest structure	330 – 430 mm	330 – 430 mm	330 – 430 mm	330 – 430 mm
	Hand rim diameter	445 – 585 mm	445 – 585 mm	445 – 585 mm	445 – 585 mm
	Horizontal location of axle (3 positions, also depending on seat angle)	+90 – (–65) mm	+90 – (–65) mm	+90 – (–65) mm	+90 – (–65) mm
	Total weight	9.8 kg	9.8 kg	11.3 kg	21 kg
	Transport weight (without rear wheels)	6 kg	6 kg	6 kg	13.3 kg
	Weight of the heaviest part	6 kg	6 kg	6 kg	13.3 kg
	Maximum user weight	135 kg	135 kg	135 kg	180 kg
	Minimum turning radius	550 – 700 mm	450 – 550 mm	540 – 900 mm	710 mm
	Maximum slope angle brake	7°	7°	7°	7°
	Static stability downhill	n/a	n/a	n/a	11° – 20°
	Static stability uphill	1° – 15°	1° – 15°	1° – 15°	7° – 10°
	Static stability sideways	n/a	n/a	n/a	19°

11.2 Maximum Weight of Removable Parts

Maximum weight of removable parts	
Part:	Maximum weight:
Leg rest angle adjustable with calf pad and footrest	3,2 kg
Armrest	2,0 kg
Rear wheel 600 mm (24") solid with handrim and spoke guard	2,5 kg
Headrest / Neckrest / Cheek support	1,4 kg
Trunk support	0,8 kg
Backrest cushion	2,0 kg
Seat cushion	1,9 kg
Table tray	3,9 kg


11.3 Tyres


The ideal tyre pressure depends on the tyre type.

The table below is an indication. In case the tyre differs from the list below, check the side of the tyre, the maximum pressure is often listed there.

11.4 Materials

Frame tubes / Backrest tubes	Aluminium / Titanium
Seat cover / Backrest cover	PA / PE / PVC
Push handle	Steel / Aluminium / TPE
Clothes guard / Mudguard	Plastic
Supporting parts / Attachments	Steel / Aluminium / Titanium
Screws and bolts	Steel


 All materials used are protected against corrosion. We use only REACH compliant materials and components.


 Theft and metal detection systems: in seldom cases the materials used in the wheelchair may activate theft and metal detection systems.


11.5 Environmental conditions

	Storage and transportation	Operation
Temperature	-20 °C to 40 °C	-5 °C to 40 °C
Relative humidity	20 % to 90 % at 30 °C, not condensing	
Atmospheric pressure	800 hPa to 1060 hPa	

Tyre	Diameter	Max. pressure		
		7 bar	700 kPa	101 psi
Profile tyre	610 mm (24")			
Other tyres	610 mm (24"); 635 mm (25"); 660 mm (26")	10 bar	1000 kPa	145 psi

 The compatibility of the tyres listed above depends on the configuration and/or model of your wheelchair.


 In case of a tyre puncture consult a suitable workshop (e.g. bike repair shop, bicycle dealer ...) to have the tube replaced by a skilled person.

 The size of the tyre is mentioned on the sidewall of the tyre. The change of appropriate tyres must be carried out by a qualified technician.



CAUTION!

– The tyres pressure needs to be equal in both wheels to avoid decreased driving comfort, to keep the parking brakes working properly and to ease propelling of the wheelchair.

 Be aware that when a wheelchair has been stored under low temperatures, it must be adjusted to chapter 8 *Maintenance*, page 28 before use.

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