

Invacare® Alu Lite

en Low 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 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 swing away leg rest or folding backrest, 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 folding backrest.

**CAUTION!****Risk of injury**

– In case of pressure sore or injured skin, protect your injury 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.

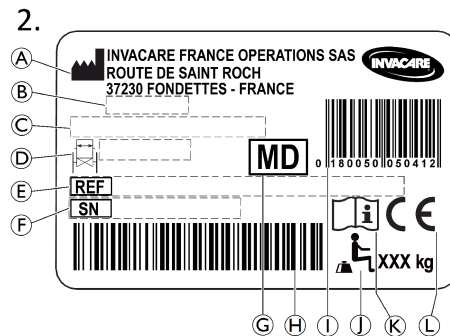
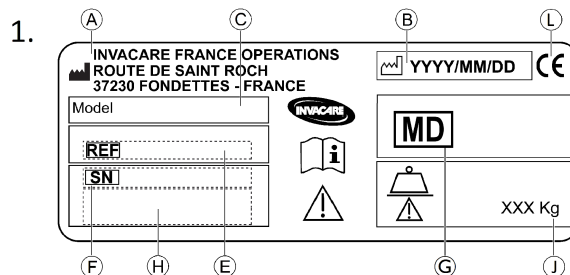
- Only use original parts for the product in use.
- Due to regional differences, refer to your local Invacare catalog or website for available options or contact your Invacare distributor. See addresses at the end of this document.

The functions of the safety devices are described in chapter 3 *Product Overview*, page 10.



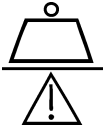
2.3 Labels and symbols on the product

Identification label


The identification label (1. or 2.) 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
- Ⓚ Read user manual
- Ⓛ European conformity

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

Snap hook symbols

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

3 Product Overview

3.1 Product Description

This is a low active wheelchair with crossbar folding mechanism and 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 should be performed by a qualified technician.

3.2 Intended use

The low active wheelchair is intended to provide mobility to persons limited to a sitting position and should only be used for assisted transport of a disabled person with mobility difficulties.

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

The intended user is the wheelchair occupant and/or an assistant.

An assistant should physically and mentally be able to use the wheelchair safely for himself and the occupant (e.g. to propel, steer, brake).

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.

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

3.3 Main parts of the wheelchair



- Ⓐ Push handle
- Ⓑ Backrest
- Ⓒ Rear wheel
- Ⓓ Parking brake
- Ⓔ Front fork with castor
- Ⓕ Leg rests, swiveling
- Ⓖ Footrest
- Ⓗ Frame
- Ⓘ Seat
- ⓵ Armrest



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

3.4 Manual brakes for assistant only

The manual brakes are used to slow down and to immobilize the wheelchair when it is stationary to prevent it from rolling away.



WARNING!

Risk of falling out of the wheelchair

If the wheelchair is rapidly decelerated by the 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.
- Operate the two brakes simultaneously and do not take slopes exceeding 7° to ensure perfect control of the wheelchair steering.
- Always use the manual brakes to secure the wheelchair during short or long stops.



WARNING!

Risk of overturning if the assistant brake sharply

If the assistant engage the manual brakes while he is moving you, the direction of movement can become uncontrollable and the wheelchair may stop suddenly, which can lead to a collision or to you falling out.

- Assistant haven't to engage the brakes in the parking position while he is moving you.



WARNING!

Risk due to wheelchair being out of control

- The manual brakes must be operated simultaneously to slow down the wheelchair.
- Do not engage the manual brakes to the parking position while the wheelchair is moving.



CAUTION!

Risk of pinching or crushing

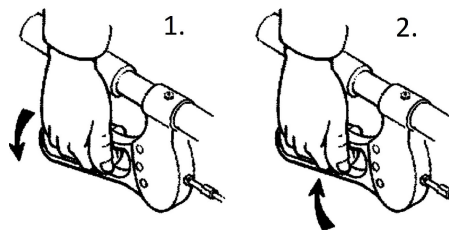
There may be a very small gap between the push handle and the upper part of the brake lever with the risk that you could trap your fingers.

- Keep your fingers away from movable parts when disengage the brake, always keep your fingers into the brake lever area.



The distance between the brake shoe and the tire can be adjusted. The adjustment must be carried out by a qualified technician.

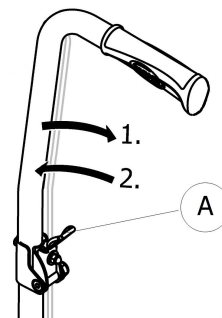
Assistant brake



1. To slow down the wheelchair, gradually push the brake lever downwards.
To engage the brake in parking position, push the brake lever downwards as far as possible until an audible click is heard.
2. To disengage the brake, firmly pull the brake lever upwards with all your fingers.

3.5 Folding backrest

To save space for transporting the wheelchair, the backrest can be folded. Folding backrest do not require adjustment.



Folding and unfolding the backrest

1. Operate lever Ⓐ by pulling it and fold the top of the backrest.
2. To return to the initial position, bring the top in the vertical position; it locks automatically.

3.5.1 Standard Backrest Cover



A standard backrest cover is available for all backrest types. These covers are not adjustable.



WARNING! **Risk of tipping**

If the standard backrest cover become slack, the tipping point of your wheelchair is changed for the worse.

- Slack standard backrest cover must be replaced by a qualified technician.



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.



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 chair, especially when used in combination with folding backrests.

- Invacare strongly recommend to remove additional load when moving your backposts upwards or downwards.

3.6 Leg rests



WARNING!

Risk of injury

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



CAUTION!

Risk of pinching or crushing fingers

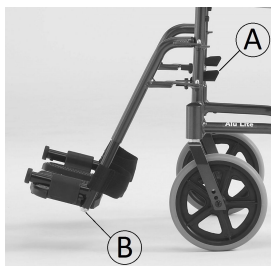
- There are swing mechanisms where you could trap your fingers.
- Be careful when using, swinging, disassembling or adjusting these mechanisms.



IMPORTANT!

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

3.6.1 Swing away leg rests



Swing outwards

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

Swing forwards

1. Swing the leg rest forwards until it engages.

Unhinging

1. Activate the release lever Ⓐ.
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.

Foot plate height adjustment

1. Loosening the fixing bolt Ⓑ with 13 mm spanner.
2. Adjust and tighten the fixing bolt (10 Nm) Ⓑ into the desired position.

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



To ensure a good position of the feet the heel strap is attached to the leg rest support and adjustable by hook and loop fasteners.

3.7 Seat cushion

A suitable cushion is recommended 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.
- We recommend to use an Invacare or Matrix cushion with anti-slip base cover in order to prevent sliding.

4 Options

4.1 Posture belt

The wheelchair can be equipped with a posture belt with plastic buckle. 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.

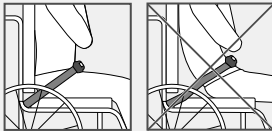


WARNING!

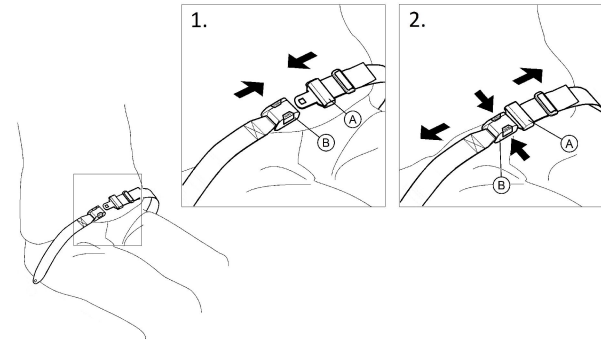
Risk of serious injury / strangulation

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.



Closing and opening the posture belt



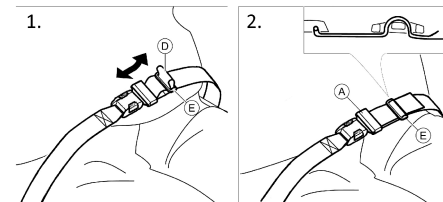
Ensure that you are sitting fully back in the seat and that the pelvis is as upright and symmetrical as possible.

1. To close, push the catch (A) into the buckle clasp (B).
2. To open, press hook on both sides 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 ④ as required.
2. Thread loop ④ through catch ① and plastic buckle ⑤ until the loop is flat.

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 authorized 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.

If you receive your wheelchair folded, please read section 7.2 *Folding and unfolding the wheelchair, page 25.*

6 Using the wheelchair

6.1 Safety information



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 pinching or crushing

There may be a very small gap between the push handle and the upper part of the brake lever with the risk that you could trap your fingers.

- Keep your fingers away from movable parts when release the brake, always keep your fingers into the brake lever area.

6.2 Move to/from 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.



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. Detach the legrests or swing them outwards.
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.

6.3 Driving and steering the wheelchair

The assistant drive and steer the wheelchair using the push handles.



WARNING!

Risk of tipping

The wheelchair can tip forwards or backwards.

- When setting up your wheelchair, test its behavior in terms of tipping forward or backward 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.

6.4 Negotiating steps and kerbs with an assistant only



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.



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.

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.

6.5 Going up and down stairs

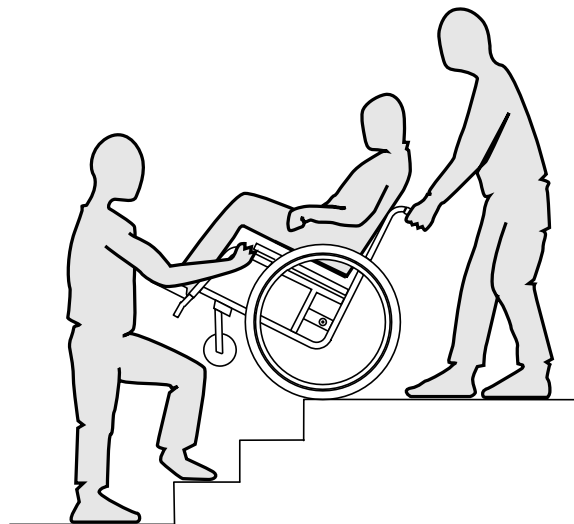


WARNING!

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.



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.

6.6 Negotiating ramps and slopes with an assistant only



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°.



CAUTION!

Your wheelchair could run away even on slightly sloping ground if the assistant do not control his walking speed.

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

Going up slopes

To go up a slope, the assistant propels and controls the direction at the same time.

1. Bend your upper body forwards, the assistant propels the wheelchair with a quick and powerful push.

Going down slopes

When going down slopes, the assistant controls the direction and particularly the speed of the wheelchair.

1. Lean back, the assistant should be able to stop the wheelchair at any time by controlling his walk speed.

6.7 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

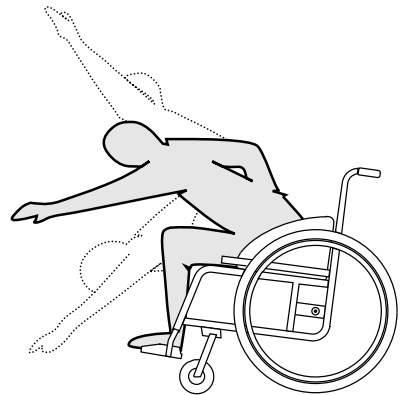


WARNING!

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. The assistant apply both parking brakes.
2. When leaning forwards your upper body must remain over the front wheels.

Reaching backwards

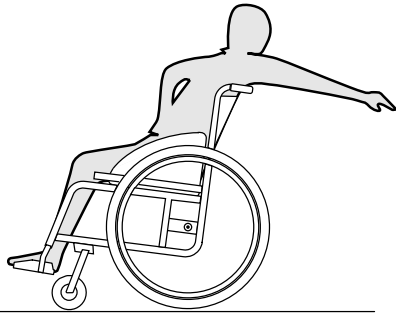


WARNING!

Risk of falling out

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

- Do not lean out over the backrest.



1. The assistant apply the parking brakes.
2. 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 during transport

The wheelchair is not approved to be transported in vehicles, using the ordinary attachment points.



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.

- Firmly secure all wheelchair components in the means of transport to prevent them from coming loose during the journey.



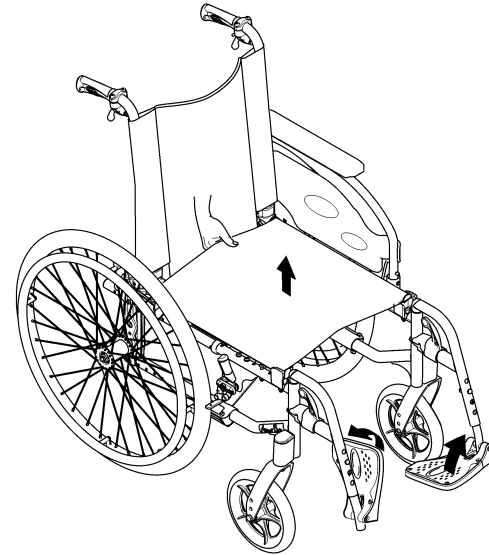
IMPORTANT!

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).

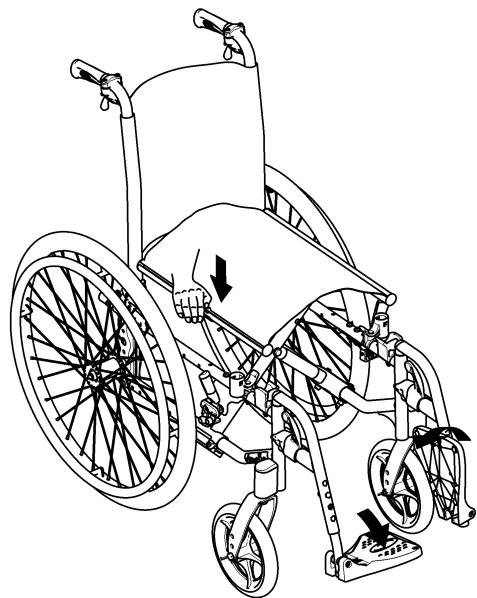
7.2 Folding and unfolding the wheelchair

Folding the wheelchair



1. Remove the seat cushion, if present.
2. Fold the backbrace, if present.
3. Fold the foot plates upwards.
4. Pull the seat cover upwards.

Unfolding the wheelchair



CAUTION!

Risk of getting fingers caught

There is a risk of getting your fingers caught between the seat edge and the frame.
– Never clasp the seat edge with your fingers.

1. Position the wheelchair next to you.
2. Tilt the wheelchair, if possible, gently towards you.
3. With your hand flat, press the seat edge closest to you, so that the seat surface flattens out.

4. Put the wheelchair back completely on the floor and check that the seat edges on both sides are in the guide components.
5. Fold the foot plates down.
6. Unfolding the backbrace, if present.

7.3 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 7.2 *Folding and unfolding the wheelchair*, page 25.
2. Always lift the wheelchair by gripping the frame at points A.

7.4 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.

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 that rear wheels are seated correctly	x		
Check posture belt	x		
Check the folding mechanism		x	

	weekly	monthly	annually
Check the castors		x	
Check bolts		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 that rear wheel axles are fitted correctly

1. Pull on the rear wheel to check that the fixed axle is fitted correctly. The wheel should not have free play.
2. If the problem persists, have the fixed axles checked 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 (on the footrest, 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 parking brakes

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



IMPORTANT!

The parking brakes must be reset after replacing the rear wheels.

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.

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!**


- 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 options fitted (only options which do 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 Troubleshooting

9.1 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.

9.2 Identifying and repairing faults

Fault	Possible cause	Action
The wheelchair does not travel in a straight line	Castor bearings are dirty or damaged	Clean the bearings or replace the castor, → qualified technician
The brakes are gripping poorly or asymmetrically	Brake setting incorrect	Correct the brake setting, → qualified technician
Rolling resistance is very high	Rear wheels not parallel	Ensure the rear wheels are parallel, → qualified technician
The castors wobble when moving fast	Too little tension in castor bearing block	Tighten the nut on the bearing block axle slightly, → qualified technician
	Castor has worn smooth	Change castor, → qualified technician
The castor is stiff or stuck	Bearings are dirty or faulty	Clean the bearings or replace the castor, → qualified technician

10 After Use

10.1 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 35.*

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

10.2 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.

10.3 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.

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.

Dimensions of unloaded wheelchair in brackets.

! 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.

	Maximum user weight	100 kg
	Overall length with leg rests	985 – 1030 mm
	Overall width	520 – 570 mm
	Folded length	985 – 1030 mm
	Folded width	290 (270) mm
	Folded height	760 mm
	Total mass	from 11 kg
	Mass of the heaviest part	10 – 10.5 kg
	Static stability downhill	0° – 20.5°
	Static stability uphill	0° – 7°
	Static stability sideways	0° – 16.5°
	Seat plane angle	7° 3°
	Effective seat depth	460 (430) mm
	Effective seat width	390 – 440 (410 – 460) mm, in increment of 50 mm
	Seat surface height at front edge	490 mm
	Seat surface height at rear edge	434 (440) mm
	Backrest angle (fixed)	7° (0 / 7°)
	Backrest height	460 (450) mm

Footrest to seat distance	345 – 465 (340 – 460) mm, stepless
Leg to seat surface angle	60°
Armrest to seat height	280 (230) mm
Front location of armrest structure	500 mm
Horizontal location of axle	+ 80 mm
Minimum turning radius	880 mm
Stowage width	290 mm
Stowage height	760 mm
Stowage length	690 mm
Overall length without leg rests	760 mm
Overall height	955 mm
Pivot width	1220 mm
Maximum slope angle brake	7°

11.2 Maximum Weight of Removable Parts

Maximum weight of removable parts	
Part:	Maximum weight:
Swing away leg rest	0,73 kg

11.3 Materials

Frame/backrest tubes	Aluminum, Steel
Upholstery (seat and backrest)	Foam PUR, Fabric Nylon and Polyester
Push handles	PVC
Plastic parts like brake handles, clothes guards, foot plates, armpads and parts of most options	Thermoplastic (e.g. PA, PP, ABS and PUR) according to marking on the parts
Folding mechanism / vertical brace / clamping parts / castor forks	Aluminum, Steel
Screws, washers and nuts	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.

11.4 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	



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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