

Invacare® Action 2 NG

en Medium active wheelchair User Manual





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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 price lists.

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 representative. See addresses at the end of this document.

1.2 Symbols in this manual

In this User Manual warnings are indicated by symbols. The warning symbols are accompanied by a heading that indicates the severity of the danger.



WARNING!

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



CAUTIONI

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.



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



This product complies with Directive 93/42/EEC concerning medical devices. The launch date of this product is stated in the CE declaration of conformity.



Manufacturer

1.3 Warranty

Invacare guarantees that their wheelchairs are free from defects and are fully functional. The warranty covers all faults and defects which are verifiably attributable to faulty construction, substandard materials or poor workmanship. Warranty claims against the manufacturer may only be made by the distributor and not by the user of the product.

The warranty does not cover normal wear and tear, the consequences of improper handling or damage, poor maintenance and incorrect assembly or commissioning by the purchaser or a third person or faults which are attributable to circumstances beyond our control. Wearing parts are not covered by the guarantee. The warranty is voided if modifications are made to the product which were not authorized and not performed by the specialist dealer or if inappropriate accessories or spare parts are used. The warranty does not cover consequential costs arising from the rectification of defects such as freight and travel expenses, labor costs, fees etc.

The term of the warranty is 24 months.

Furthermore, the terms and conditions are part of the general terms and conditions particular to the individual countries in which the product is sold.

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
- The usage of unapproved 3rd party accessories instead of a tested and approved Invacare accessories
- Unauthorized modifications and/or use of unsuitable spare parts

A written authorisation of Invacare must be obtained before installing additional adaptations on an Invacare wheelchair. Otherwise no liability claims can be made.

1.5 Standards and Regulations

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

The wheelchair has been tested in accordance with EN 12183. It includes a test for flammability (EN 1021-2 or ISO 8191-2).

Invacare is continuously working towards ensuring that the company's impact on the environment, locally and globally, is reduced to a minimum. We use only REACH compliant materials and components.

1.6 Intended use

The medium active wheelchair is propelled manually and should only be used for independent or assisted transport of a disabled person with mobility difficulties. This manual wheelchair is intended to provide mobility to persons ages 15 and up (adolescents and adults) with a maximum weight capacity of 125 kg. The device is indicated to provide mobility to persons limited to sitting position. When used without an assistant, it should only be used by persons who

are physically and mentally able to use the wheelchair safely (e.g. to propel themselves, steer, brake). The wheelchair should only be used on level ground and accessible terrain, as well as indoors.



This medium active wheelchair needs to be subscribed and fit to your specific health condition.



WARNING!

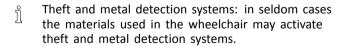
Any other or incorrect use could lead to hazardous situations.

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



CAUTION!

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



1.7 Service life

The expected service life is five years, presuming that the product is used daily and in accordance with safety instructions, maintenance instructions and intended use, stated in this manual.

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 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 an authorized dealer.



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.



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 competent person who has fully risk assessed the implication of any changes to the wheelchair configuration. Therefore, consult with your authorized dealer.



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.

2.2 Safety devices



WARNING! Risk of accidents

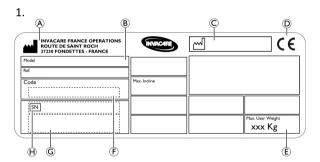
Safety devices that are incorrectly set or no longer working (brakes, antitipper) can cause accidents.

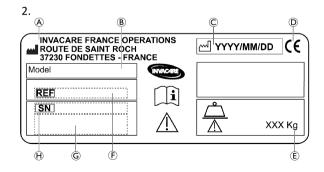
 Always check that the safety devices are working before you use the wheelchair and have them checked regularly by the authorized dealer. The functions of the safety devices are described in chapter 3 Components and their functions, page 11.

2.3 Labels and symbols on the product

Identification label

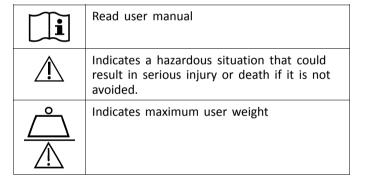
The identification label (1. or 2.) is attached to the frame of your wheelchair and gives the following information:





Invacare® Action 2 NG

A	Manufacturer's address
B	Product description
©	Date of manufacture
D	CE mark
E	Maximum user weight
Ē	Part number
G	Serial number barcode
Θ	Serial number



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 using the wheelchair as a seat in a motor vehicle, see section 7.5 Transporting the occupied wheelchair in a vehicle, page 41.

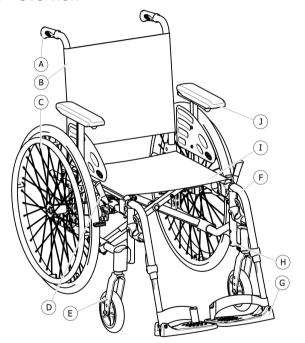


WARNING Symbol

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 Components and their functions

3.1 Overview



A	Push handle
B	Back
©	Rear wheel with handrim
D	Parking brake
(E)	Front wheel fork with front wheel
F	Leg rests, swiveling
G	Footrest
Θ	Frame
1	Seat
①	Armrest

Short description

This is a medium active wheelchair with crossbar folding mechanism and swiveling leg rests.

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

3.2 Parking brakes

The parking brakes are used to immobilize 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 due to wheelchair being out of control

- The parking brakes must be operated simultaneously.
- Do not apply the parking brakes to slow down the wheelchair.
- Do not lean on the parking brakes for support or transfer.



WARNING! Risk of overturning

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

- Ensure the correct tire pressure, 3.9 Tires, page 21.



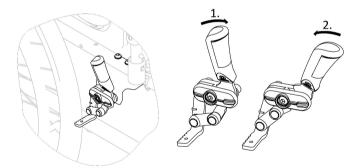
CAUTION!

Risk of pinching or crushing

There may be a very small gap between the rear wheel or the armrest front socket and the parking brake with the risk that you could trap your fingers.

- Keep your fingers away from movable parts when using the brake, always keep your hand on the brake lever.
- The distance between the brake shoe and the tire can be adjusted. The adjustment must be carried out by an authorized dealer.

Standard brake



- 1. To apply the brake, push the brake lever forwards with the palm as far as possible.
- 2. To release the brake, pull the brake lever backwards with the low fingers.

- The lever of the push handle can be folded back to facilitate transfers. To do so, pull up the lever and fold it backwards.
- An assistant's brake (drum brake) is available as an option, the assistant can brake the wheelchair while it is moving, please read section 6.2 Braking during use, page 31.

3.3 Backrest

There are three types of backrest (Fixed, Folding and Reclining) available.

3.3.1 Backrest cover height

The backrest cover height can be adjusted for all three types of backrest.



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.

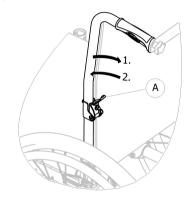
- Therefore, Invacare strongly recommend the use of anti-tippers (available as an option) when using your back posts with additional load (back pack or similar items).
- The height of the backrest cover can be adjusted on the back posts. The adjustment must be carried out by an authorized dealer.

3.3.2 Fixed backrest

Fixed backrest of 0° and 7°: these two backrests do not require adjustments.

3.3.3 Folding backrest

To save space for transporting the wheelchair, the backrest can be folded.

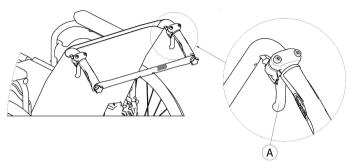


Folding and unfolding the backrest

- 2. To return to the initial position, bring the top in the vertical position; it locks automatically.

3.3.4 Reclining backrest

To achieve a more comfort position for the user, the backrest can be reclined.





WARNING! Risk of tipping

Do not move the wheelchair when the backrest is in reclined position.

 Invacare strongly recommend the use of anti-tippers (available as an option) when the backrest is in reclined position.

Backrest angle

The angle of the backrest can be adjusted in four steps (0° to 30°) with the mechanical version, and stepless with the gas struts version.



WARNING! Risk of injury

- Always make these adjustments before the user settles down in the wheelchair to prevent injuries.
- Invacare strongly recommends the use of anti-tippers (available as an option) in combination with all rear wheel positions when you use your backrest with an angle of 12° and more

IMPORTANT!

- Push on the backrest canes before operating the levers, this is to release the auto-locked security system.
- Release the auto-locked system by pushing on the backrest canes.
- 2. Simultaneously pull the levers ${\bf \triangle}$ to provides the same angle on both sides.
- 3. Release the levers when you reach the desired angle.

3.4 Backbrace for the backrest

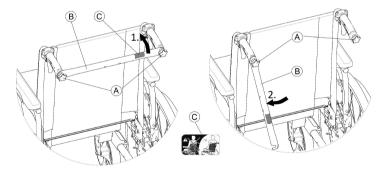
The backbrace links the two push handles, provides tension to the backrest upholstery and must always be in position on recliner versions.



CAUTION!

- Do not use the backbrace to push the wheelchair. The backbrace is not a push bar!
- Do not attempt to lift the wheelchair using the backbrace; it may come loose and it could break.
- Keep your fingers away from movable parts and sharp edges to prevent injuries.

Folding the backbrace



- Slightly loosen the two hand screws

 A , pull up the backbrace
 B and swivel it downwards along the backrest.
- 2. Fold the backbrace (B) until it is in vertical position.

Unfolding the backbrace

- 1. Fold the backbrace ® upwards.
- 2. Align the backbrace ® with the push handle and push it down on the hand screw A.
- 3. Firmly tighten the hand screw (A) and makes sure that the TWO hand screws (A) are properly tighten .
 - It is important to ensure that the backbrace is correctly fitted and engaged at all times when the chair is in use. It should not be left hanging loose (see label © on the backbrace).



3.5 Push handles

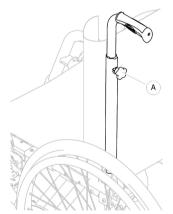


IMPORTANT!

 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.

Height adjustable, integrated push handles (optional)

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



To set the height of the push handles, loosen the knob
 A, push the handle to the desired position and tighten the knob again.



CAUTION!

If the knob is not correctly tightened, the push handle could accidentally come off the backrest tube while pushing it upwards.

- Make sure that the knob is firmly tightened.

3.6 Armrests



WARNING!

The armrest does not engage into the wheelchair.

 Therefore do not hold it in order to lift the wheelchair.

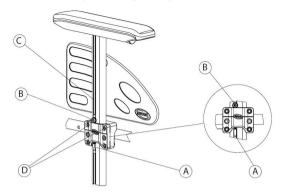


CAUTION!

Risk of pinching

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

3.6.1 Armrest, stepless height adjustable, removable



Removing

- 1. Apply the parking brake on both sides.
- 2. Previously press on the locking mechanism (A) located at the bottom of the armrest vertical bracket.
- 3. Pull the armrest by the arm cushion out of the holder.

Fitting

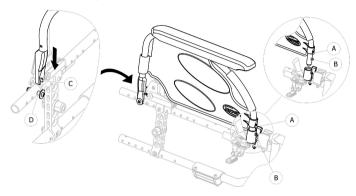
1. Push the armrest into the holder.

Adjusting the height

- 2. Move the armrest upwards or downwards until you reach the desired height, while keeping screw (a) in place (at the top edge of the holder).

- 3. Tighten the screw ® (5–6 Nm).
- 4. Perform the setting on both sides.

3.6.2 Armrest, foldable and removable



Folding

1. Grip the armrest by the armpad or by the front curve and fold it back.

Front removing

- Remove armrest from armrest socket by pulling straight up and fold it back.

Front fitting

- 1. Push the armrest down and until the front release button (B) snaps into its armrest socket hole.
- 2. Ensure button protrudes fully through socket hole.

Rear removing

1. Remove armrest from armrest bracket © by pulling straight up on the armrest.

Rear fitting

- 1. Position armrest support © over rear armrest bracket ©.
- 2. Push the armrest down until a clear "click" is heard when it's locked into the armrest bracket ©.

3.7 Leg rests



WARNING! Risk of injury

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



CAUTION!

Risk of pinching

 Keep your fingers away from movable parts during folding, disassembling or adjustment.

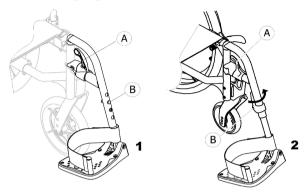


IMPORTANT!

Risk of damage to the leg rest mechanism

 Do not place anything heavy, or let children sit on the leg rest.

3.7.1 Swiveling leg rests



Swiveling

1. Activate the release lever (A) and swivel the leg rests to the outside.

Swiveling forwards

1. Swivel the leg rest forwards until it engages.

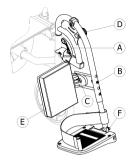
Unhinging

- 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 swivel it forwards until it engages.

3.7.2 Swiveling, elevating leg rests



Swiveling

1. Activate the release lever (A) and swivel the leg rests to the outside.

Swiveling forwards

1. Swivel the leg rest forwards until it engages.

Unhinging

- 1. Activate the release lever (A).
- Pull the leg rest upwards.

Hinging

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

Angle adjustment

There are nine preset positions available for angle adjustment.

- 1. Loosening the knob ① and pull it up with one hand while supporting the leg rest with your other hand.
- 2. Adjust into one of nine preset positions, downwards the knob (1) into the desired position and firmly tighten the knob.

Calf pad adjustment

The calf pad $\widehat{\mathbb{E}}$ swings away during transfers and has three depth adjustment options.

Depth adjustment:

1. After loosening the fixing screw © adjust to the desired depth and firmly tighten the fixing screw.

Invacare® recommends that depth adjustment is carried out by an authorized dealer.

Foot plate adjustment

There are three different foot plates available.

- Height adjustable foot plates, version 1
 - 1. Loosening the fixing bolt ® with 10 mm spanner.
 - 2. Adjust into one of four preset positions and tighten the fixing bolt (5 Nm) ® into the desired position.
- Height adjustable foot plates, version 2
 - 1. Loosening the fixing screw ® with 5 mm Allen key.
 - 2. Adjust into one of four preset positions and tighten the fixing screw (5 Nm) ® into the desired position.
- Height, depth and angle adjustable foot plates
 - 1. Loosening the screw (F) with 5 mm Allen key.
 - Adjust into the depth and angle positions and firmly tighten the screw (12 Nm) (F) into the desired position.

Invacare® recommends that footplate adjustment is carried out by an authorized dealer.



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

3.8 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 an authorized dealer when required.
- In some configurations, the static stability of the wheelchair may be lower than 10°; Invacare® strongly recommends the use of anti-tipper (available as an option).

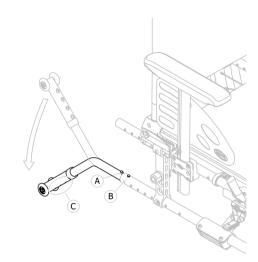


WARNING!

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.



Activating the anti-tipper

- Release the spring button (A) and swivel the anti-tipper downwards until it engages and the front release button (B) snaps into the frame hole.
- 2. Ensure front release button ® protrudes fully through frame hole.



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.

20 1608216-В

Deactivating the anti-tipper

1. Release the spring button (A) and swivel the anti-tipper upwards until it engages and the front release button (B) snaps into the frame hole.



WARNING! Risk of overturning

 Always advise the user if you deactivate the anti-tippers.

Setting the height



WARNING!

Risk of overturning

- The adjustments of the anti-

- The adjustments of the anti-tipper must be carried out by an authorized dealer.
- This adjustment is required with reference to the position and diameter of the rear wheel as well as the user conditions and his particular safety limits.
- Make sure that the anti-tipper device is fitted correctly on each side (if applicable), the spring button (a) and fixation (b) must be locked into position.

3.9 Tires

The ideal pressure depends on the tire type:

Tire	Max. pressure		
Solid tire: 610 mm (24")	-	-	-
Pneumatic tire: 610 mm (24")	4 bar	400 kPa	58 psi
Solid tire: 150 mm (6"); 200 mm (8")	-	-	-
Pneumatic tire: 150 mm (6"); 200 mm (8")	2.5 bar	250 kPa	36 psi

- The compatibility of the tires listed above depends on the configuration and/or model of your wheelchair.
- The size of the tire is mentioned on the sidewall of the tire. The change of appropriate tires must be carried out by an authorized dealer.



CAUTION!

 The tires pressure have to be equal in both wheels to avoid a less driving comfort, to keep the brakes efficiency and an easy propelling of the wheelchair.

3.10 Seat cushion

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



CAUTION!

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 an authorized dealer.

 We recommend to use an Invacare or Matrx cushion with anti-slip base cover in order to prevent sliding.

4 Accessories

4.1 Transit version

The transit version is designed to be driven only by the attendant. To facilitate sideways transfers and save space, the wheelchair is equipped with rear wheels of 12" (305 mm).



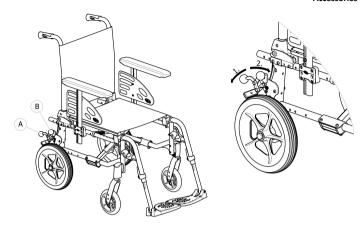
WARNING!

Risk of accident

The manual brakes will not operate correctly unless there is sufficient air in the pneumatic tires.

- Ensure the correct tire pressure, 3.9 Tires, page 21.
- The distance between the brake shoe and the tire can be adjusted. The adjustment must be carried out by an authorized dealer.

The manual brakes (optional drum brake) are only accessible to the attendant; operate the handles $(\widehat{\mathbb{A}})$ to lock or (\mathbb{B}) to unlock the wheelchair in parking position.



- 1. To apply the brake, push the brake lever (A) downwards as far as possible.
- 2. To release the brake, pull or push the brake lever ® upwards.

For manual brake, please read section 3.2 Parking brakes, page 12.

For drum brake, please read section 6.2 Braking during use, page 31.

Transit version equipped with a reclining backrest is always fitted with anti-tippers.

4.2 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.







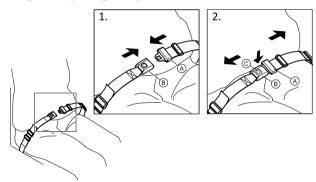
WARNING!

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

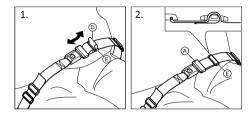


Ensure that you are sitting fully back in the seat and that the pelvis is as upright and symmetrical as possible.

- 1. To close, push the catch (A) into the buckle clasp (B).
- To open, push the PRESS button © and pull the catch
 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.



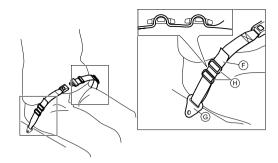
If this adjustment is not sufficient, it might be required to re-fit the posture belt at the fixations.

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.

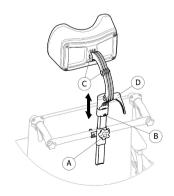


1. Thread the loop ${\mathbb F}$ through the fixation on the chair ${\mathbb G}$ and then through BOTH plastic buckles ${\mathbb H}$.

4.3 Headrest

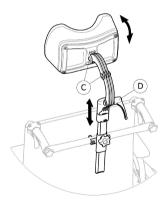
The height and the removal are operated by the handwheel. The bar is equipped with an adjustable stop block.

Height adjustment



- 1. Loosen the screw in the stop block B.
- 2. Loosen the handwheel A.
- 3. Adjust the headrest to the desired position.
- 4. Re-tighten the handwheel (A) down to the top of the headrest attachment.
- 5. Slide the stop block B.
- 6. Re-tighten the screw.
 - It is now possible to remove the headrest and reinsert it in the desired position without further adjustments.

Depth / angle adjustment

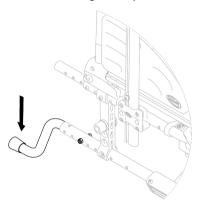


- Loosen the handle

 .
- 2. Loosen the screws ©.
- 3. Adjust the depth and angle of the headrest.
- 4. Re-tighten the handle and the screws.

4.4 Tipper aid

With the tipper aid, an assistant can tip the wheelchair more easily, in order to navigate steps for example.





WARNING!

Risk of overturning

- Ensure that the tipper aid does not project beyond the external diameter of the rear wheel.
- 1. Hold the wheelchair by the push handles.
- Press the tipper aid with your foot and hold the wheelchair in the tipped position until you have overcome the obstacle.

4.5 Table tray



WARNING!

Risk of tipping / injury

- Max load on the table: 8 kg

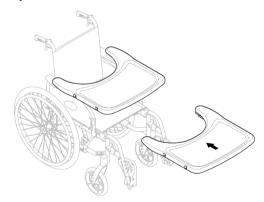


CAUTION!

Risk of discomfort / minor bruises

 Make sure that the elbows of the user are placed on the table when pushing the wheelchair. If the elbows protrudes from the table while pushing the wheelchair, there is a risk of discomfort or minor bruises.

Depth adjustment



Slide the table tray forwards or backwards to adjust to the required depth.



CAUTION!

Risk of discomfort

 When adjusting the depth of the table, make sure not to squeeze the stomach of the user.

4.6 Drip stand



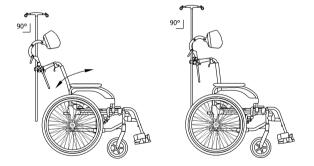
WARNING!

Risk of tipping / injury

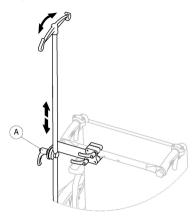
- Max load on the drip stand: 5 kg (2 x 2,5 kg)



The rod of the drip stand must always be placed in a vertical position, i.e in a 90 degree angle to the ground, no matter the position of the backrest or the wheelchair.



Height/Angle adjustment



- 1. Loosen the lever A.
- 2. Adjust the drip stand to the desired height or/and angle.
- 3. Firmly tighten the lever A.

4.7 Air pump

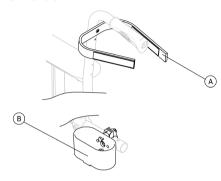
The air pump is fitted with a universal valve connection.

- 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.

4.8 Passive illumination

You can attach reflectors to the rear wheels.

4.9 Cane holder





WARNING!

Risk of overturning

- Ensure that the cane holder does not project beyond the external diameter of the rear wheel.
- Place the cane in the holder B.
- 2. Fix the top of the cane to the backrest A.

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 48.

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

Adjustments of the axle position and the front wheel supporters must be carried out by an authorized dealer.

If you receive your wheelchair folded, please read section 7.2 Folding and unfolding the wheelchair, page 39.

6 Using the wheelchair

6.1 Safety information



WARNING!

Risk of accidents

Uneven tire pressure can have a huge effect on handling.

- Check the tire 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/ 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 has been trained individually 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 parking brakes to secure the wheelchair during short or long stops.



CAUTION!

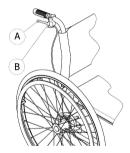
Risk of burning your hands

If you brake for a long time, a lot of frictional heat is produced at the handrims (especially anti slip handrims).

- Wear suitable gloves.
- Hold the handrims and press evenly with both hands until the wheelchair stops.

Braking with an assistant

With an assistant's brake (drum brake) an assistant can brake the wheelchair while it is moving. The assistant's brake can also be used as a parking brake.



- 1. To brake, pull the brake lever (A) on the push handle.
- To park, pull the brake lever firmly until the safety lever
 engages.
- 3. To release, pull the brake lever and release the safety lever underneath the brake lever.

6.3 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.



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.
- Remove the armrests or move them upwards out of the way.
- 4. Detach the legrests or swing them outwards.
- 5. Place your feet on the ground.
- Hold the wheelchair and, if necessary, also hold a fixed object in the vicinity.

7. 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.

Going down a step with an assistant



- 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



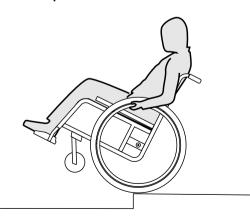
WARNING!

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.
- Move the wheelchair backwards until the rear wheels touch the kerb.
- 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.

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 33.
- 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.



 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.

6.7 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.



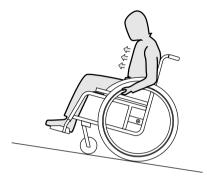
CAUTION!

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.



 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 (especially anti slip handrims).

- Wear suitable gloves.

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:

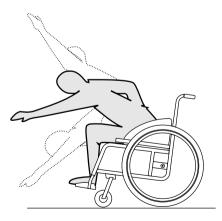
Leaning forwards



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. Apply both parking brakes.
- 3. When leaning forwards your upper body must remain over the front wheels.

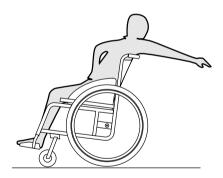
Reaching backwards



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.



- 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.

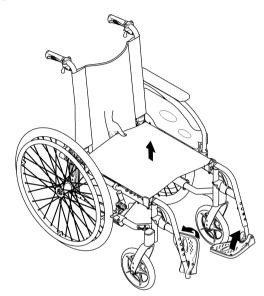
IMPORTANT!

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).

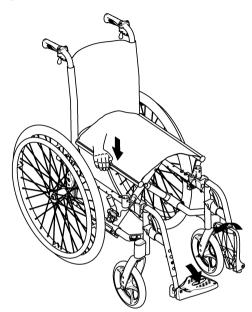
7.2 Folding and unfolding the wheelchair

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.

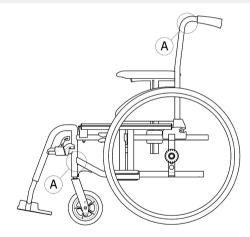
- Never clasp the seat edge with your fingers.
- 1. Position the wheelchair next to you.
- 2. Tilt the wheelchair, if possible, gently towards you.
- 3. With your hand flat, press the seat edge closest to you, so that the seat surface flattens out.

- 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 39.
- 2. Always lift the wheelchair by gripping the frame at points **(A)**.

7.4 Removing and fitting the rear wheels

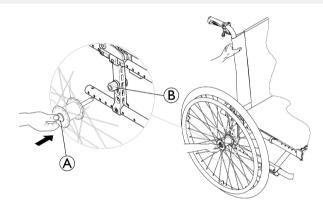


WARNING!

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.
- With the other, hold the wheel through the external spoke rim around the wheel hub.
- 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 ® up to the stop.
- 6. Release the removable axle button and make sure that the wheel is secure.

7.5 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 with the seatbelt on. Do not make alterations or substitutions to points of the wheelchair (structure, frame or parts) without the written consent of Invacare Corporation. 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 minimum 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 dealer 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) have to be fitted on the chair 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 could 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 accessories 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 tires during transport to avoid brake problems due to reduced tire pressure.



WARNING!

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

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

IMPORTANT!

It is recommended that training be given on the proper use of a restraint system product.

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

Securing the wheelchair with a 4-point restraint system





WARNING!

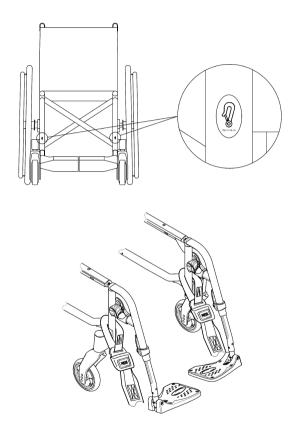
- Place the wheelchair with the user forward-facing in direction of vehicle travel.
- Apply the wheelchair parking brakes.
- Activate anti-tipper (if installed).

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 9).

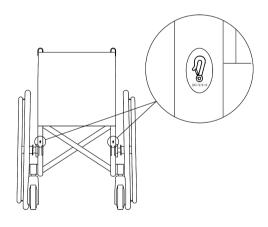
 Using the front and rear straps of the 4-point restraint system, secure the wheelchair to the vehicle mounted rails. Refer to the user manual supplied with 4-point restraint system.

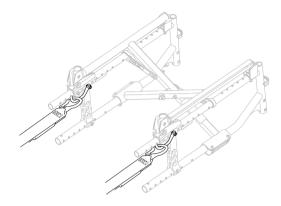
Front side tie-down positions for belt straps:



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

Rear side tie-down positions for snap hooks:





- 1. Attach the snap hooks to the orange rings as shown in the two figures above (see location of the attachment labels).
- 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 must 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 4.2 Posture belt, page 24.

Fastening the 3-point passenger restraint system



IMPORTANT!

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



WARNING!

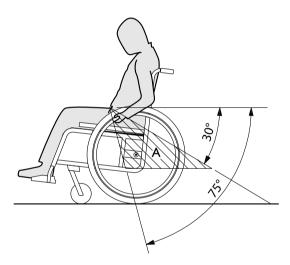
- Ensure the 3-point passenger restraint system fits as tightly across the user's body as possible without discomfort and no part is twisted.
- Ensure the 3-point passenger restraint system is not held away from the user's body by parts of the wheelchair such as armrests or wheels etc.
- Ensure the user 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.



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

IMPORTANT!

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



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 authorized dealer at least once a year or if it has not been used for a long period.
- Your Invacare authorized dealer can provide help in carrying out regular maintenance. To find an authorized dealer near you, contact the Invacare distributor for your country (end of this document).
- Packaging for return
 The wheelchair shall be sent to the authorized dealer in an appropriate packaging to avoid damage during the shipment.

8.2 Maintenance Schedule

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

	weekly	monthly	annually
Check the tire pressure	х		
Check that rear wheels are seated correctly	х		
Check posture belt	х		
Visual check		х	
Check the folding mechanism		х	
Clean the front wheels		х	
Check bolts		х	
Check spokes		х	
Check parking brakes		х	
Have wheelchair checked by an authorized dealer			х

Check the tire pressure

- 1. Check the tire pressure, 3.9 Tires, page 21.
- 2. Inflate the tires to the required pressure.

- 3. Check the tire tread at the same time.
- 4. If necessary, change the tires.

Check that rear wheels are seated correctly

- 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 an authorized dealer.

Check posture belt

1. Check that the posture belt is adjusted correctly.

IMPORTANT!

- Loose posture belts must be adjusted by an authorized dealer.
- Damaged posture belts must be replaced by an authorized dealer.

Visual check

- Examine your wheelchair for loose parts, cracks or other defects.
- 2. If you find anything, have your wheelchair checked immediately by an authorized dealer.

Check the folding mechanism

1. Check that the folding mechanism is easy operating.

Clean the front wheels

- 1. Check that the front wheels turn freely.
- 2. Remove any dirt or hair from the front wheel bearings.

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).
- Tighten any loose bolts with the suitable torque.
 Therefore refer to the Service Manual, available on the internet at www.invacare.eu.com.

IMPORTANT!

Safety nuts and bolts lose their effectiveness as a result of repeated loosening and tightening.

 Safety nuts and bolts must be replaced by an authorized dealer.

Check the spoke tension

The spokes should not be loose or distorted.

- 1. Loose spokes must be tightened by an authorized dealer.
- 2. Broken spokes must be replaced by an authorized dealer.

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 applied.
- 2. If you find that the setting is not correct, have the brakes correctly set by an authorized dealer.

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

damage as a result of a heavy collision or hard blow.

 It is essential to have your wheelchair checked by an authorized dealer after a heavy collision or hard blow.

Repairing or changing an inner tube

- Remove the rear wheel and release any air from the inner tube.
- Lift one tire wall away from the rim using a bicycle tire lever. Do not use sharp objects such as a screwdriver which could damage the inner tube.
- 3. Pull the inner tube out of the tire.
- 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 tire (the tube should lie right round the tire with no creases).
- 7. Lift the tire wall over the edge of the rim. Start close to the valve and use a bicycle tire lever. When doing this, check all the way round to ensure that the inner tube is not trapped between the tire and the rim.
- 8. Inflate the tire to the maximum operating pressure. Check that no air is escaping from the tire.

Spare parts

All spare parts may be obtained from an Invacare® authorized dealer. A current list of spare parts is available on the internet at www.invacare.eu.com.

8.3 Cleaning

Your wheelchair will serve you well for many years if you clean it regularly.

IMPORTANT!

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.

IMPORTANT!

- Do not use coarse abrasives, aggressive cleaning products or high-pressure cleaners. Never use acids, alkalines or solvents such as acetone or cellulose thinner.
- Always use ordinary household cleaning agents.
- Clean the cushions and metal parts with a soft, damp cloth.
- 2. Dry the wheelchair carefully with a cloth after using it in the rain.
- 3. If the wheelchair is dirty, wipe off the dirt as soon as possible with a damp cloth and dry it carefully.

Regular cleaning will reveal loose or worn parts and enhance the smooth operation of your wheelchair. To operate properly and safely, your wheelchair must be cared for just like any other vehicle. For upholstery that is severely stained or surface finish that is badly damaged, contact an authorized dealer for further information.

Cleaning upholstery

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

If possible, always overlap Velcro 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.

Cleaning metal surfaces

Hot water and mild detergent on soft cloth should be use to cleaning metal surfaces.

- 1. Wipe down with damp cloth.
- 2. Dry surface by wiping down with dry cloth.

Car polish and soft wax can be used to remove abrasions and restore gloss.

Cleaning plastic surfaces

Plastic surfaces must be cleaned with soft cloth, mild detergent and hot water.



IMPORTANT!

 Do not use solvents or kitchen cleaners to clean plastic surfaces.

- 1. Rinse surface with clean water.
- 2. Dry surface by wiping down with dry cloth.

8.4 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.

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.



CAUTION!

 Contact your authorized dealer immediately if you notice a fault with your wheelchair, e.g. a significant change in handling.



IMPORTANT!

 Some of the actions listed must be carried out by an authorized dealer. These are indicated.
 We recommend that *all* adjustments are carried out by an authorized dealer.

9.2 Identifying and repairing faults

Fault	Possible cause	Action
The wheelchair does not travel in a straight line	Incorrect tire pressure on one rear wheel	Correct tire pressure, \rightarrow 3.9 Tires, page 21
	One or more spokes broken	Replace faulty spoke(s), \rightarrow authorized dealer
	Spokes tightened unevenly	Tighten loose spokes, → authorized dealer
	Front wheel bearings are dirty or damaged	Clean or replace the bearings, → authorized dealer
The wheelchair tips backwards too easily	Rear wheels are mounted too far forwards	Mount the rear wheels further back, \rightarrow authorized dealer
	Back angle too large	Reduce the backrest angle, $ ightarrow$ authorized dealer
	Seat angle too large	Mount the front wheel upper on the front fork, → authorized dealer
		Select a smaller front fork, $ ightarrow$ authorized dealer
The brakes are gripping poorly or asymmetrically	Incorrect tire pressure in one or both rear tires	Correct tire pressure, \rightarrow 3.9 Tires, page 21
	Brake setting incorrect	Correct the brake setting, $ ightarrow$ authorized dealer
Rolling resistance is very	Tire pressure in rear tires is too low	Correct tire pressure, \rightarrow 3.9 Tires, page 21
high	Rear wheels not parallel	Ensure the rear wheels are parallel, \rightarrow authorized dealer
The front wheels wobble when moving fast	Too little tension in front wheel bearing block	Tighten the nut on the bearing block axle slightly, → authorized dealer
	Front wheel has worn smooth	Change front wheel, → authorized dealer
The front wheel is stiff or stuck	Bearings are dirty or faulty	Clean or replace the bearings, → authorized dealer

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 11.3 Environmental conditions, page 56.

After long-term storage (more than four months) the wheelchair must be inspected in accordance to chapter 8 Maintenance, page 48.

10.2 Re-use

The wheelchair is suitable for re-use. The following actions should be taken:

- Cleaning and disinfection, 8.3 Cleaning, page 50 and 8.4 Disinfection, page 51 in this manual.
- Inspection, 8.2 Maintenance Schedule, page 48 in this manual.
- The wheelchair should be adapted for the new user in accordance with the service documentation (available from the Invacare distributor in your country).

10.3 Disposal

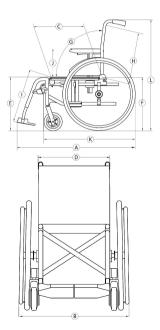
Be environmentally aware and dispose of your wheelchair properly. Disposal is subject to national and local regulations.

For correct disposal, contact your specialist dealer or ask your town or district council about local waste management companies.

11 Technical Data

11.1 Dimensions and weight

All dimension an 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. In some configurations, the wheelchair exceed the recommended dimensions for a wheelchair.



A	Overall length with leg rests	870 – 1140 mm
B	Overall width	540 – 710 mm
	Folded length	870 – 1140 mm
	Folded width	255 – 355 mm
	Folded height	935 mm
	Total mass	from 15 – 17 kg
	Mass of the heaviest part	10 – 12 kg
	Static stability	Downhill: 0° – 7° Uphill: 0° – 15° Sideways: 0° – 17°
	Seat plane angle	0° – 8°
©	Effective seat depth	435 – 460 mm
© ©	Effective seat depth Effective seat width	435 – 460 mm 370 – 505 mm, in increments of 25 mm
		370 – 505 mm,
(D)	Effective seat width Seat surface height at	370 – 505 mm, in increments of 25 mm 480 mm,
(D)	Effective seat width Seat surface height at front edge Seat surface height at	370 – 505 mm, in increments of 25 mm 480 mm, in increments of 25 mm 425 mm,

1	Footrest to seat distance	330 – 460 mm, in increments of 10 mm
	Leg to seat surface angle	0° - 80°
①	Armrest to seat height	Range: 210 – 315 mm N°1: 210 – 315 mm N°2: 240 mm
	Front location of armrest structure	190 – 350 mm
	Hand rim diameter	535 mm
	Horizontal location of axle	-55 / +42,5 mm
	Minimum turning radius	790 mm
	Stowage width	250 – 320 mm
	Stowage height	250 – 710 mm
	Stowage length	from 920 – 990 mm
K	Overall length without leg rests	655 – 925 mm
(L)	Overall height	935 mm
	Maximum user weight	125 kg
	Pivot width	1140 – 1505 mm
	Maximum slope angle brake	7°

11.2 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 accessories	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.

11.3 Environmental conditions

Temperature limitation	– 20° C to + 40° C
Relative humidity	20% to 75%
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 48 before use.

Notes

Notes

Notes

Invacare distributors

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