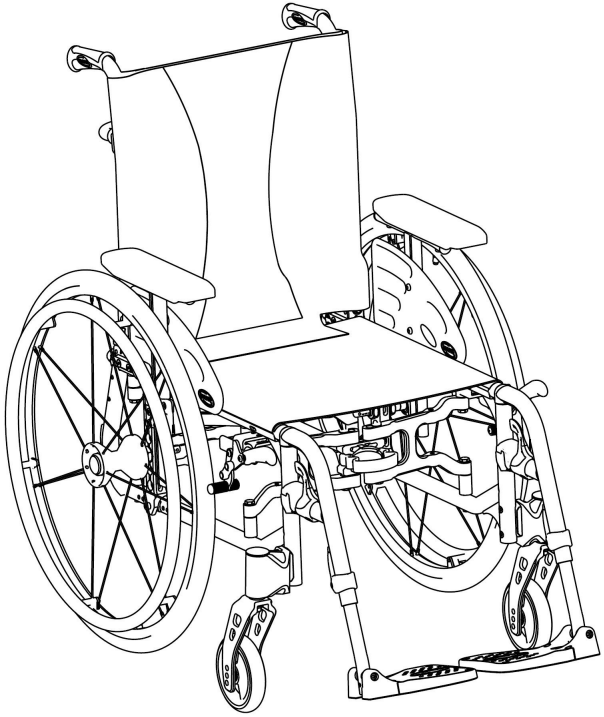


# *Invacare® Action 5*

en **Medium active wheelchair**
User Manual

CE

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

INVACARE

*Yes, you can.*

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# 1 General

## 1.1 Information about the User Manual

Thank you for choosing an Invacare® wheelchair.

This User Manual contains important information about using the wheelchair. In order to ensure safety when using your wheelchair, read the User Manual carefully and follow the safety information.

The information contained in this manual is subject to change without notice.

If your vision is impaired, you can view the user manual as a PDF file on the Internet at www.invacare.com and enlarge it on-screen as required. If you cannot enlarge the texts and graphics sufficiently, please contact the Invacare® distributor for your country; ® addresses on the reverse of this document. If necessary, we will provide you with a high resolution PDF file of the user manual. Moreover, you can have the PDF file read out to you with the aid of suitable programs using special language functions on your computer (e.g. in Adobe® Reader® X: Shift+Ctrl+Y).

The equipment of your wheelchair may differ from the descriptions and diagrams given here due to the wide range of models available.

For latest important product information (eg.: product safety notices, product recalls, ...), please refer to our website at www.invacare.eu.com, your local specialized dealer or contact Invacare® in your country (for addresses, see back page of this manual).

## 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.

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.

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 Standards and Regulations

Quality is fundamental to the company's operation, working within the disciplines of ISO 9001 and ISO 13485.

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

## 1.5 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. 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.

**CAUTION!**
– In some configurations, the overall width or overall length of the wheelchair when it is ready for use exceed the authorized limits, the access to emergency escape routes is not possible.

## 1.6 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 distributor.

**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 antitipper, that nothing becomes caught.

## 2.2 Safety devices

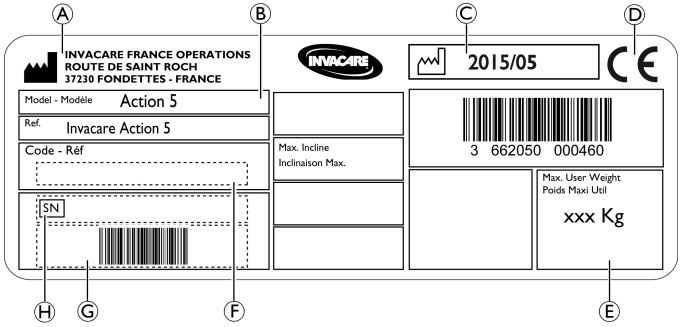
**WARNING!**
**Risk of accidents**
Safety devices that are incorrectly set or no longer working (brakes, antitipper) can cause accidents.
– Always check that the safety devices are working before you use the wheelchair and have them checked regularly by the authorized dealer.

The functions of the safety devices are described in chapter 3 Components and their functions, page 10.

## 2.3 Labels and symbols on the product

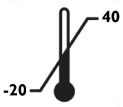
### Identification label

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




| | |
|---|---|
| Ⓐ | Manufacturer's address |
| Ⓑ | Product description |
| Ⓒ | Date of manufacture |
| Ⓓ | CE mark |
| Ⓔ | Maximum user weight |
| Ⓕ | Part number |
| Ⓖ | Serial number barcode |
| Ⓗ | Serial number |

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

| | |
|---|---|
|   | **Temperature limitation**<br>Do not expose the wheelchair to temperatures below -20 °C or above 40 °C. |

## Snap hook symbols

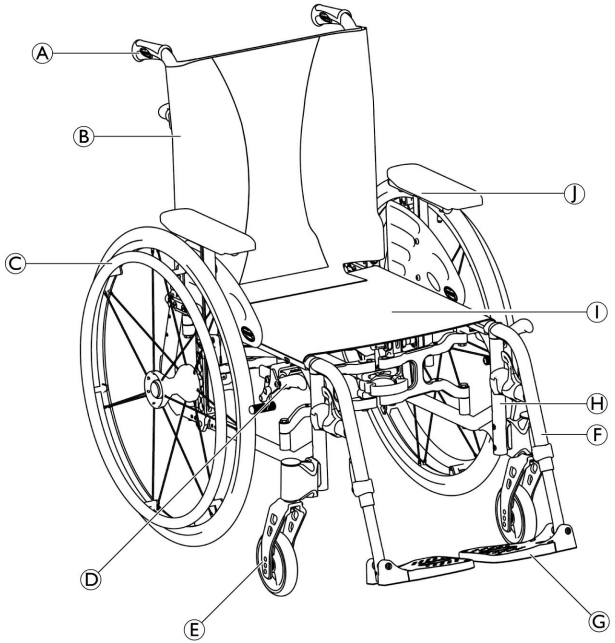
Depending on the configuration, some wheelchairs may be used as a seat in a motor vehicle, some may not.

| | |
|---|---|
|   | 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 38. |

| | |
|---|---|
|  | **WARNING Symbol**<br>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




| | |
|---|---|
| Ⓐ | Push handle |
| Ⓑ | Back |
| Ⓒ | Rear wheel with handrim |
| Ⓓ | Parking brake |
| Ⓔ | Front wheel fork with front wheel |
| Ⓕ | Leg rests, swiveling |
| Ⓖ | Footrest |
| Ⓗ | Frame |
| Ⓘ | Seat |
| Ⓙ | Armrest |

### Short description

This is a medium active wheelchair with horizontal 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.

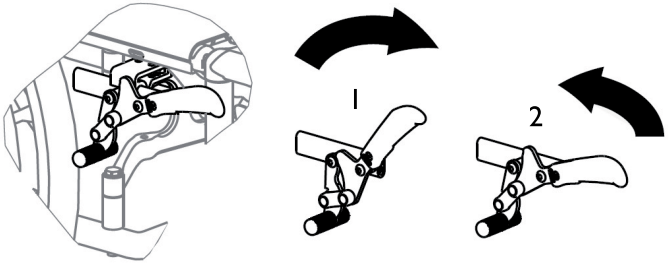
**WARNING!**
**Risk due to wheelchair being out of control**
– The parking brakes must be operated simultaneously.
– Do not apply the parking brakes to slow down the wheelchair.
– Do not lean on the parking brakes for support or transfer.

**WARNING!**
**Risk of overturning**
The parking brakes will not operate correctly unless there is sufficient air in the tires.
– Ensure the correct tire pressure, 3.10 Tires, page 20.

**CAUTION!**
**Risk of pinching or 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.
– Keep your fingers away from movable parts when using the brake, always keep your hand on the brake lever.

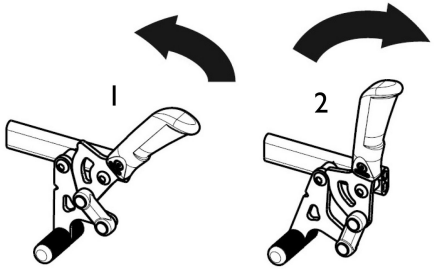
The distance between the brake shoe and the tire can be adjusted. The adjustment must be carried out by an authorized dealer.

### Standard brake




1. To apply the brake, push the brake lever forwards as far as possible.
2. To release the brake, pull the brake lever backwards.

### Pull brake




1. To apply the brake, pull the brake lever backwards as far as possible.
2. To release the brake, push the brake lever forwards.

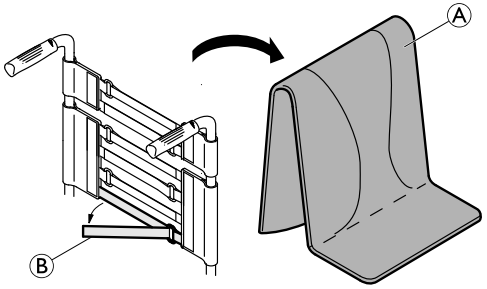
The lever of the push handle can be folded back to facilitate transfers. To do so, pull up the lever and fold it backwards.

## 3.3 Backrest

### Backrest cover

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

### Adjusting the backrest cover




1. Remove the backrest cushion Ⓐ.
2. Loosen the Velcro® tapes Ⓑ on the rear of the backrest cover by simply pulling on them.
3. Tighten or loosen the tapes as required then reattach them.

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

**IMPORTANT!**
– Do not overtighten the bands; this is to ensure that the geometry of the wheelchair is not changed.

**IMPORTANT!**
– Only ever tighten the bands when the wheelchair is unfolded.

## Backrest height

The height of the backrest can be adjusted. The adjustment must be carried out by an authorized dealer.

**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).

## Backrest angle (optional)

The angle of the backrest can be adjusted. The adjustment must be carried out by an authorized dealer.

**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

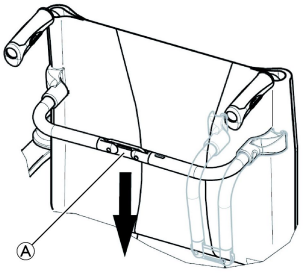
**CAUTION!**
**Risk of uncomfortable posture**
An angle less than 90° between the seat and the backrest is uncomfortable for certain users.
– This adjustment must be performed by a professional technician upon agreement by a prescribing physician. Please consult with your dealer.

## 3.4 Stabilizing bar for the back (optional)

An optional stabilizing bar is available to increase the rigidity of the backrest on wheelchairs with large back heights or widths.

**CAUTION!**
– Do not use the stabilizing bar to lift or push the wheelchair. It could break.

### Folding the stabilizing bar




1. Unlock the stabilizing bar by pushing the joint Ⓐ slightly downwards.
2. Fold the stabilizing bar downwards.

The stabilizing bar will automatically release when the chair is folded.

### Unfolding the stabilizing bar

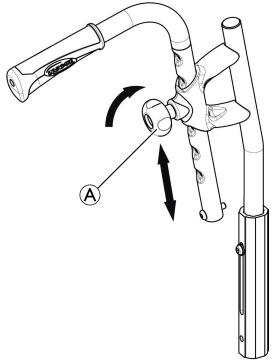
1. Fold the stabilizing bar upwards.
2. Lock the stabilizing bar by pulling the joint Ⓐ slightly upwards.

## 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, rear set push handles (optional)

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

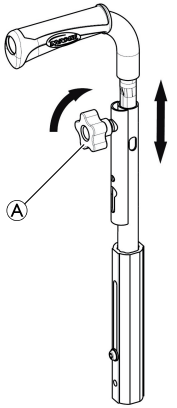



1. To set the height of the push handles, loosen the knob Ⓐ, push the handle to the desired position and tighten the knob again.

**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.

### Height adjustable, integrated push handles (optional)

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

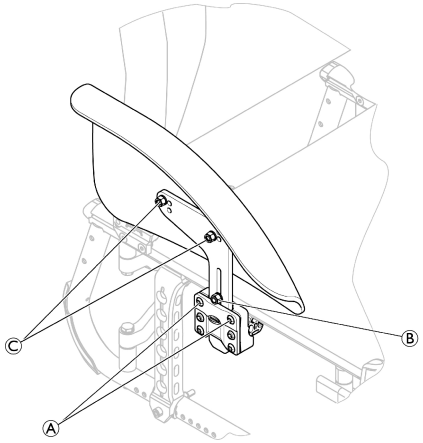



1. To set the height of the push handles, loosen the knob Ⓐ, push the handle to the desired position and tighten the knob again.

**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 Mudguard

In order to prevent dirt from the wheels spraying upwards, a removable mudguard can be fitted. The position of the mudguard can be adjusted. The adjustment must be carried out by an authorized dealer.




### Removing

1. Pull the mudguard upwards out of the holder.
2. To adjust how easy or difficult it is to pull the mudguard out of the holder, change the degree to which the screws Ⓐ are tightened.

### Fitting

1. Push the mudguard into the holder.

### Adjusting the height

1. Unscrew screw Ⓑ, place it in the desired hole and re-tighten the screws.

### Adjusting the depth, fine adjusting the height

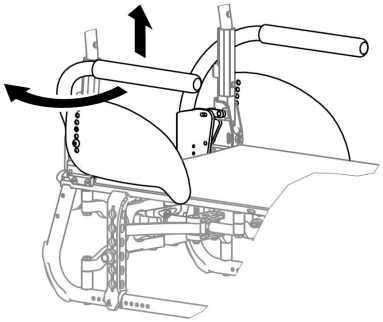
1. Unscrew screws Ⓒ, reposition the mudguard and re-tighten the screws.

## 3.7 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.

### 3.7.1 Tubular armrest, height-adjustable, swiveling



### Removing

1. Raise the armrest and pull it upwards out of the holder.

### Fitting

1. Push the armrest into the holder.

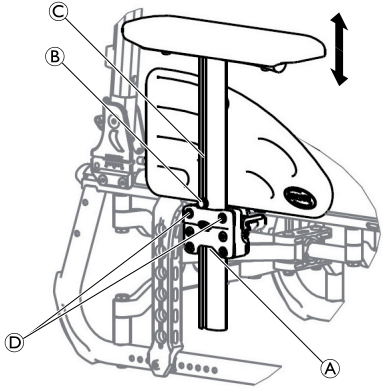
### Adjusting the height

1. Pull the armrest out of the holder.
2. Loosen the screw on the tube of the armrest and screw it back in at the desired height.
3. Push the armrest back into the holder.
4. Perform the setting on both sides.

### Swiveling

1. Raise the armrest a little and swivel it outwards.

### 3.7.2 Armrest, stepless height adjustable, removable




### Removing

1. Previously press on the locking mechanism Ⓐ located at the bottom of the armrest vertical bracket.
2. Pull the armrest by the arm cushion out of the holder.
3. To adjust how easy or difficult it is to pull the armrest out of the holder, change the degree to which the screws Ⓓ are tightened.

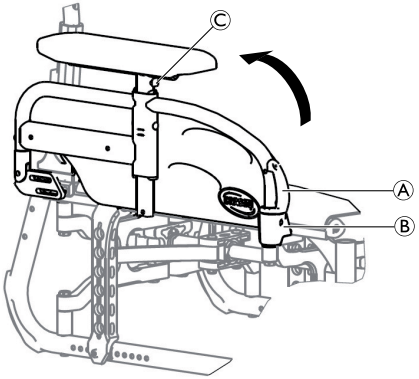
### Fitting

1. Push the armrest into the holder.

### Adjusting the height

1. Loosen the screw Ⓑ in the groove Ⓒ of the armrest tube.
2. Move the armrest upwards or downwards until you reach the desired height, while keeping screw Ⓑ in place (at the top edge of the holder).
3. Tighten the screw Ⓑ.
4. Perform the setting on both sides.

## 3.7.3 Armrest, height adjustable, foldable




### Folding

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

### Removing

1. Press and hold the armrest release bracket Ⓐ at the front.
2. Remove armrest from armrest socket by pulling straight up and fold it back.

### Fitting

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

### Adjusting the height

1. Press the button Ⓒ on the front or rear of the support and move the armrest upwards or downwards until you reach the desired height.
2. Let the button engage in the desired hole.
3. Perform the setting on both sides.

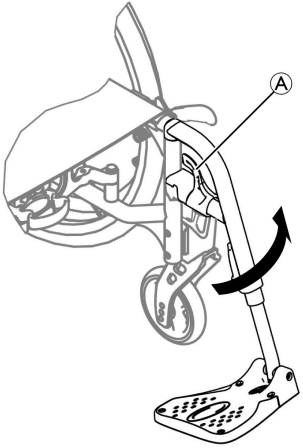
## 3.8 Leg rests

**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.

### 3.8.1 Swiveling leg rests




#### Swiveling

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

#### Swiveling forwards

1. Swivel the leg rest forwards until it engages.

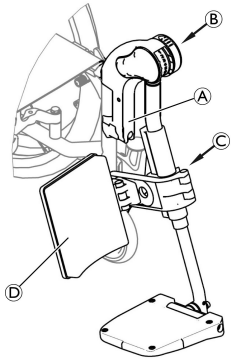
#### Unhinging

1. Activate the release lever Ⓐ.
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.

### 3.8.2 Swiveling, elevating leg rests




#### Swiveling

1. Activate the release lever Ⓐ 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 Ⓐ.
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.

#### Angle adjustment

There are seven preset positions available for angle adjustment.

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

### Calf pad adjustment

The calf pad Ⓓ swings away during transfers and has three height adjustment options.

Height adjustment:

1. After loosening the fixing screw Ⓒ adjust to the desired height and firmly tighten the fixing screw.

The calf pad has two depth adjustment options.

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

### Foot plate adjustment

There are two different foot plates available.

- Height adjustable foot plates
- Height, depth and angle adjustable foot plates

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

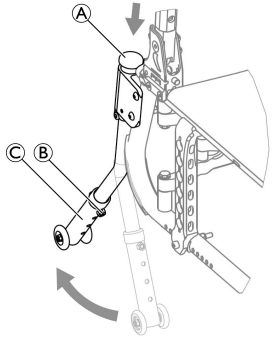
To ensure a good position of the feet, two types of straps can be provided; the heel strap and the calf strap attached to the leg rest support. Both adjustable by Velcro® fasteners.

## 3.9 Antitipper

An antitipper prevents the wheelchair from tipping backwards.

**WARNING!**
**Risk of overturning**
Antitippers that are incorrectly set or no longer working can lead to overturning.
– Always check that the antitipper is working before using the wheelchair and have it set or readjusted by an authorized dealer when required.
– Always use two antitipper devices.

**WARNING!**
**Risk of overturning**
On uneven or soft ground, the antitipper can sink into potholes or directly into the ground, thereby curtailing or eliminating its safety function.
– Only use the antitipper when travelling on even and firm ground.



### Activating the antitipper

1. Push the antitipper downwards Ⓐ and swivel it backwards until it engages.

**WARNING!**
**Risk of tipping**
An activated antitipper can catch when negotiating a step or an edge.
– Always deactivate the antitipper before driving over a step or kerb.

### Deactivating the antitipper

1. Push the antitipper downwards Ⓐ and swivel it forwards until it engages.

**WARNING!**
**Risk of overturning**
– Always advise the user if you deactivate the antitippers.

There is a red label on the housing of the antitipper, this label shows when the antitipper is inactivated. When the antitipper is correctly activated, the red label will be concealed.

### Setting the height

1. To adjust the height, remove the bolt Ⓑ from the housing.
2. Adjust the antitipper device tube Ⓒ to the desired height.
3. Ensure that the antitipper has a 40 to 50mm (1½ to 2–inch) ground clearance, when activated.

This adjustment is required with reference to the position and diameter of the rear wheel. The distance between the antitipper device and the drive wheel should be 50 mm (2 inch).

Make sure that the antitipper device is fitted correctly on each side, the bolt Ⓑ must lock into position. The adjustment must be carried out by an authorized dealer.

## 3.10 Tires

The ideal pressure depends on the tire type:

| Tire | Max. pressure | | |
|---|---|---|---|
| Pneumatic tire, grey:<br>560 mm (22”); 610 mm (24”) | 4 bar | 400 kPa | 58 psi |
| Non marking pneumatic tire:<br>560 mm (22”); 610 mm (24”);<br>635 mm (25”) | 7 bar | 700 kPa | 101 psi |
| Schwalbe® Marathon Plus Evolution tire:<br>610 mm (24”); 635 mm (25”) | 10 bar | 1000 kPa | 145 psi |
| Solid tire, grey:<br>560 mm (22”); 610 mm (24”) | - | - | - |
| Solid tire, black/clear:<br>100 mm (4”); 125 mm (5”);<br>150 mm (6”); 180 mm (7”) | - | - | - |
| Pneumatic tire, grey:<br>150 mm (6”) | 2.5 bar | 250 kPa | 36 psi |

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

**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.

## 3.11 Seat cushion

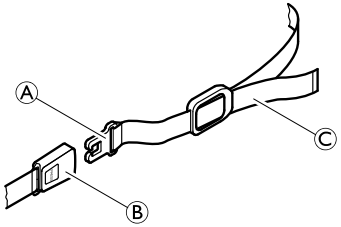
A suitable cushion is recommended to provide an even pressure distribution on the seat.

**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.
– Always use an Invacare® or Matrx® cushion with anti-slip base cover in order to prevent sliding.

# 4 Accessories

## 4.1 Posture belt

Your wheelchair can be fitted with a posture belt which will prevent you from sliding forward in the wheelchair or from falling out of the wheelchair.




**WARNING!**
**Risk of serious injuries through strangulation.**
- Ensure that you are sitting fully back in the seat and that the pelvis is as upright and symmetrical as possible - not forward on one side or tilted back.
- Position the posture belt so that the hip bones can be felt above the belt.
- Adjust the length using the buckles so that there is just sufficient room for your hand to slide between your body and the belt. It is recommended that the clasp is kept in a central position, i.e. make side adjustment.
- Make sure that the belt cannot slide and the clasp does not dissolve. Refit the posture belt if necessary, ® specialist dealer.
- Check and possibly change these adjustments each time the belt is used.

The posture belt should be fitted by the responsible prescriber and be mounted by an experienced technician. However, when transporting the wheelchair in a vehicle, Invacare's original posture belt must be used as a complement but never as a substitute to the safety belt (3-point belt) in the vehicle!

### Opening the posture belt

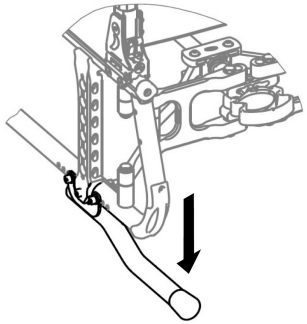
1. Push in the PRESS button and pull the catch Ⓐ out of the buckle Ⓑ. The posture belt opens.

### Closing the posture belt

1. Push the catch Ⓐ into the buckle Ⓑ.
2. Pull the belt Ⓒ until you are held securely in the wheelchair.

## 4.2 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.
2. Press the tipper aid with your foot and hold the wheelchair in the tipped position until you have overcome the obstacle.

## 4.3 Air pump

The air pump is fitted with a universal valve connection. Using the correct valve connection depends of the inner tube valve type.

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.

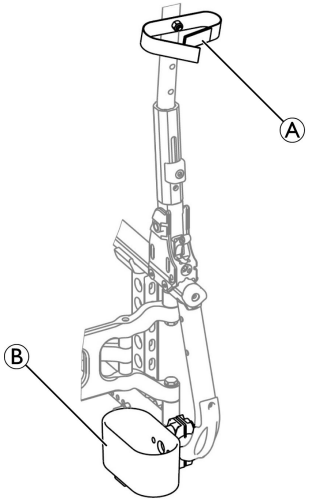
There are two types of pumps available:
- Low pressure <6 bars
- High pressure >6 bars

Instruction for use printed on the packaging.

## 4.4 Passive illumination

You can attach reflectors to the rear wheels.

## 4.5 Cane holder



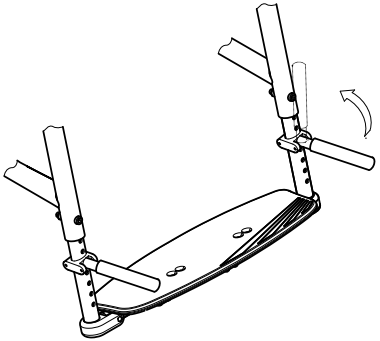

**WARNING!**
**Risk of overturning**
– Ensure that the cane holder does not project beyond the external diameter of the rear wheel.

1. Place the cane in the holder Ⓑ.
2. Fix the top of the cane to the backrest Ⓐ.

## 4.6 Luggage carrier

Your wheelchair can be fitted with a luggage carrier. When not in use, the luggage carrier can be folded up.

**WARNING!**
**Risk of tipping**
Weight on the carrier changes the tipping behavior of the wheelchair. The wheelchair can tip forwards more easily when the luggage carrier is loaded.
– Use the luggage carrier only for transporting small and lightweight luggage.
– Avoid driving the wheelchair to fast when carrying luggage.
– Avoid driving ramps and slopes when carrying luggage.
– Do not stand on the luggage carrier.



# 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 43.

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 35.

# 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.

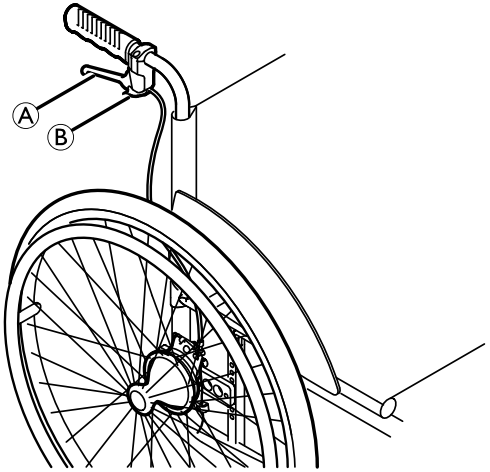
**WARNING!**
**Risk of falling out of the wheelchair**
If the wheelchair is rapidly decelerated by an assistant pulling at the push handles, the user may fall out of the wheelchair.
– Always apply the posture belt if present.
– Make sure your assistant has been trained individually in transferring occupied wheelchairs.
– Operate the two brakes simultaneously and do not take slopes exceeding 5° 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.

1. 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 Ⓐ on the push handle.
2. 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.

**WARNING!**
**Risk of overturning**
The wheelchair could tip forwards if you stand on the footrest.
– Never stand on the footrest when getting in and out.

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

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



1. Propel the wheelchair as near as possible to the seat that you want to move to.
2. Apply the parking brakes.
3. Remove the armrests or move them upwards out of the way.
4. Detach the legrests or swing them outwards.
5. Place your feet on the ground.
6. 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

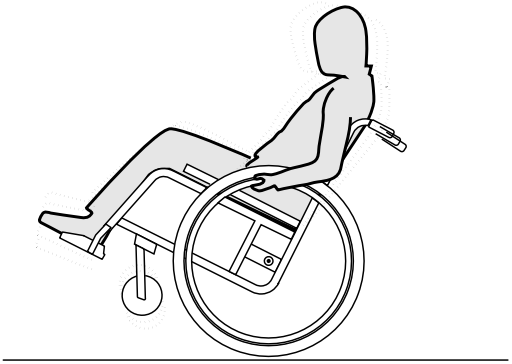
You drive and steer the wheelchair using the handrims.
Before driving without an assistant you must find your wheelchair's tipping point.

**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 behaviour 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 forwards a short distance, grasp both handrims firmly and pull backwards 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 antitipper prevents the wheelchair from tipping backwards.
– Deactivate the antitipper before going up or down steps or kerbs.

## Going down a step with an assistant



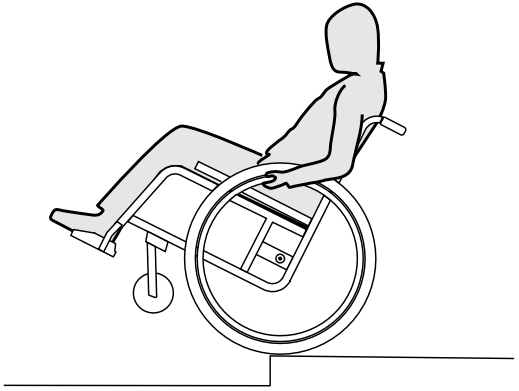
1. Move the wheelchair right up to the kerb and hold the handrims.
2. The assistant should hold both push handles, place one foot on the tipper aid (if installed) and tilt the wheelchair backwards so that the front wheels lift off the ground.
3. The assistant should then hold the wheelchair in this position,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

## Going up a step with an assistant

**WARNING!**
**Risk of serious injuries**
Going up steps and kerbs frequently can result in earlier than expected fatigue break of the wheelchair backrest. The user might fall out of the wheelchair.
– Always use a tipper aid when going up steps or kerbs.

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

## Going down a step without an assistant

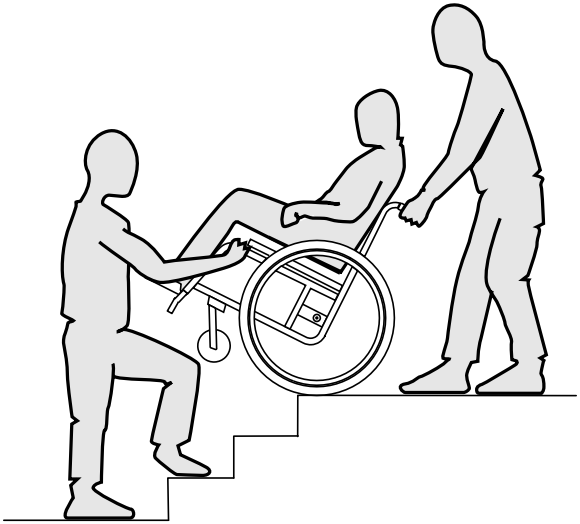


**WARNING!**
**Risk of tipping**
When going down a step without an assistant you could tip over backwards if you cannot control your wheelchair.
– First learn how to go down a step with an assistant.
– Learn how to balance on the rear wheels, 6.4 Driving and steering the wheelchair, page 28.

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.



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.

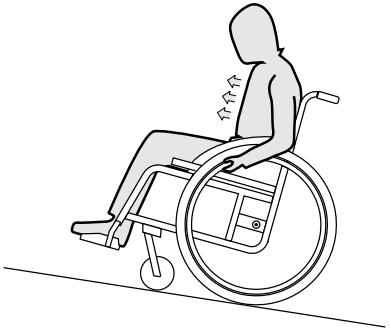
## 6.7 Negotiating ramps and slopes

**WARNING!**
**Risk due to wheelchair being out of control**
When negotiating slopes or gradients your wheelchair could tip backwards, forwards or sideways.
– Always have an assistant behind the wheelchair when approaching long slopes.
– Avoid lateral slopes.
– Avoid slopes of more than 7°.
– Avoid jerking when changing direction on a slope.

**CAUTION!**
Your wheelchair could run away even on slightly sloping ground if you do not control it using the handrims.
– Use the parking brakes if your wheelchair is stationary on sloping ground.

### Going up slopes

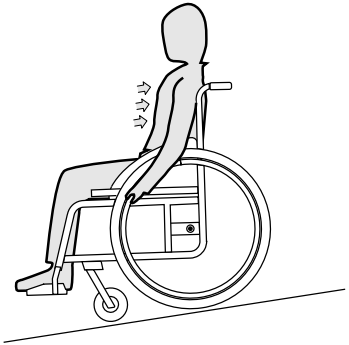
To go up a slope, you must create some momentum, keep up the momentum and control the direction at the same time.



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

### Going down slopes

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



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

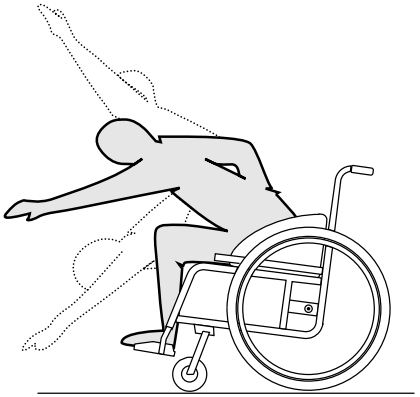
**CAUTION!**
**Risk of burning your hands.**
If you brake for a long time, a lot of frictional heat is produced at the handrims (especially anti slip handrims).
– Wear suitable gloves.

## 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

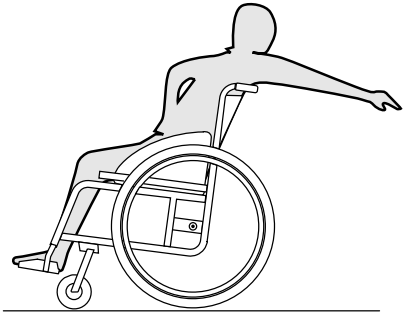
**WARNING!**
**Risk of falling out**
If you lean forwards out of the wheelchair you could fall out of it.
– Never bend too far forwards and do not shift forwards in your seat to reach an object.
– Do not bend forwards between your knees to pick up something off the floor.



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

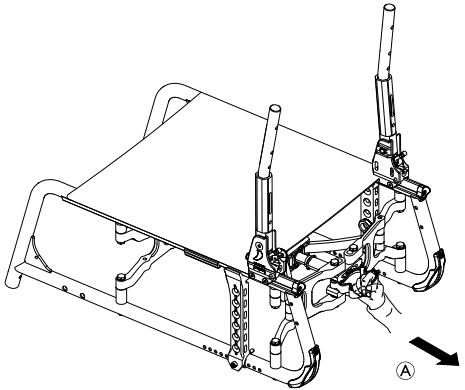
**CAUTION!**
**Risk of pinching**
– Keep your second hand away from movable parts of the folding mechanism during folding or unfolding the wheelchair.

**IMPORTANT!**
– Do not fold and unfold the wheelchair when the back is hinged down.

### Folding the wheelchair

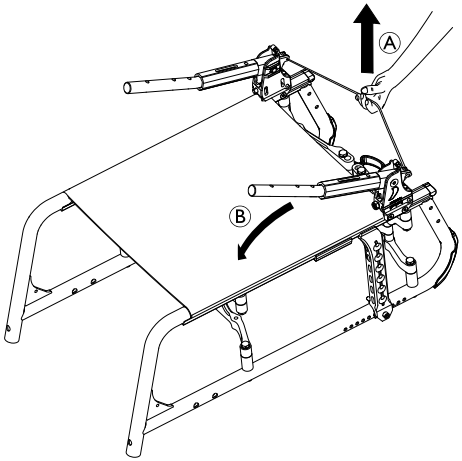
**IMPORTANT!**
– Release the stabilizing bar, if present, before folding the wheelchair.

1. Remove the seat cushion, if present.
2. Fold the footrests upwards.



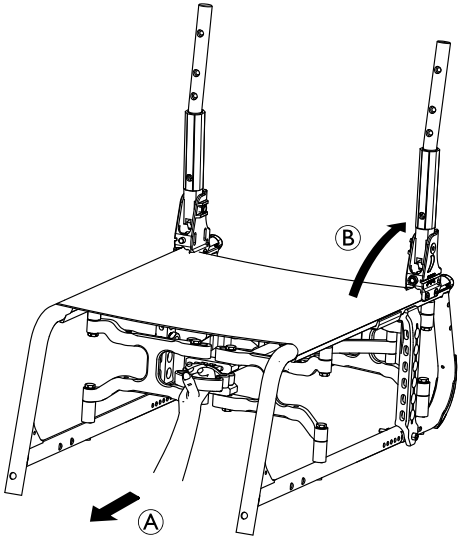

3. Push on the black plastic handle on the front or pull the black plastic handle Ⓐ on the rear of the wheelchair.
4. Pull the seat cover upwards.

5. Now you can fold the backrest down, if your wheelchair is fitted with a folding back.




6. Pull the pull-cord upwards at the back of the wheelchair Ⓐ. The backrest folds forwards Ⓑ.
7. With both hands, pull the seat cover and the backrest cover upwards. The wheelchair folds up completely.

## Unfolding the wheelchair



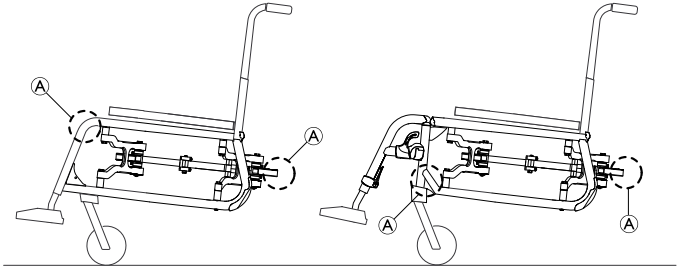

**CAUTION!**
**Risk of getting fingers caught**
There is a risk of getting your fingers caught between the parts of the folding mechanism.
– Therefore never clasp the folding mechanism with your fingers.

1. Position the wheelchair next to you.
2. Maintain the wheelchair by the front frame with your second hand.
3. Pull the black plastic handle Ⓐ on the front or push on the black plastic handle on the rear of the wheelchair.

4. An audible “click” must be heard. The wheelchair unfolds completely.
5. Pull up the backrest at the push-handles until the ratchet bolts engage in the lateral supports Ⓑ.
6. Fold the footrests down.
7. If fitted, replace the backrest stabilization bar by swinging it upwards.

## 7.3 Lifting the wheelchair

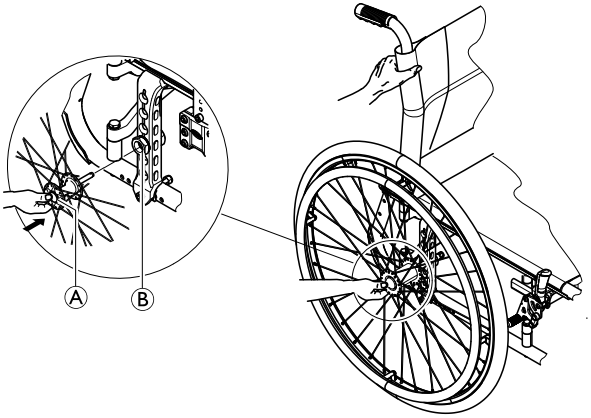
**IMPORTANT!**
– Never lift the wheelchair by removable parts (armrests, footrests).
– Ensure the backrest posts are securely in place.




1. Fold the wheelchair, see chapter 7.2 Folding and unfolding the wheelchair, page 35.
2. Always lift the wheelchair by gripping the frame at points Ⓐ.

## 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.
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 Ⓐ. Keep it pressed and pull the wheel out of the adapter sleeve Ⓑ.

### 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.

**WARNING!**
**Risk of serious injury or death**
To use the wheelchair as a seat in a vehicle the backrest height must be at least 400 mm.

To transport the wheelchair with user in a vehicle, a restraint system must be installed in the vehicle. Wheelchair tie-downs and occupant restraint systems must be approved according to ISO 10542-1. Contact your local Invacare® representative or specialist 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 must be additionally secured with a posture belt in the wheelchair.

**WARNING!**
Safety restraint devices must only be used when the wheelchair user's weight is 22 kg or more (ISO-7176-19).
– Do not use the wheelchair as a seat in a vehicle when the user weight is lower than 22 kg.

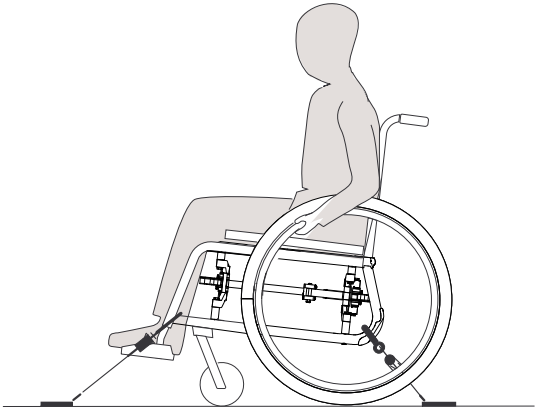
**WARNING!**
– Before journey contact transporter and request information about the capability for the below required equipment.
– Make sure there is sufficient free space around the wheelchair and user to avoid the user making contact with other vehicle occupants, unpadded parts of the vehicle, wheelchair 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 a specialist 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

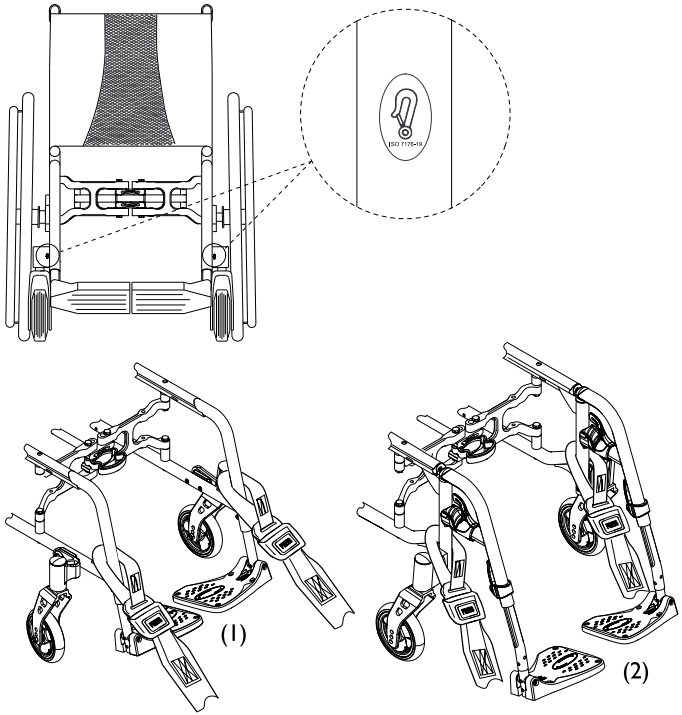


**WARNING!**
– Place the wheelchair with the user forward-facing in direction of vehicle travel.
– Apply the wheelchair parking brakes.
– Activate antitipper (if installed).

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 8 ).

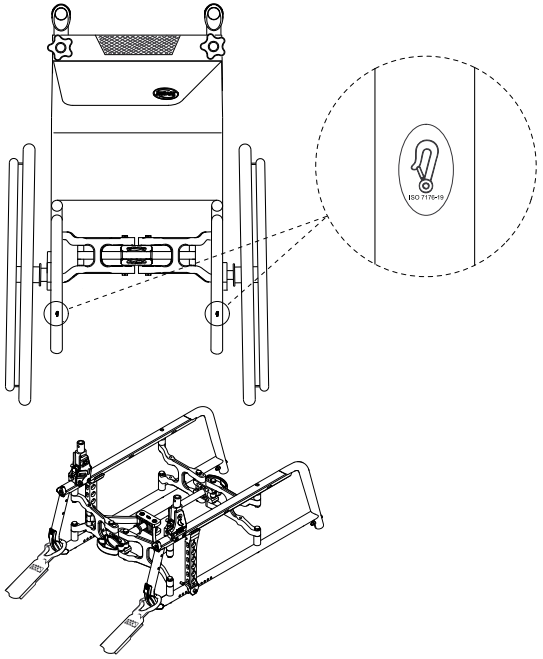
1. Using the front and rear straps of the 4-point restraint system, secure the wheelchair to the vehicle mounted rails. Refer to the user manual supplied with 4-point restraint system.

Front side tie-down positions for belt straps:




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

**IMPORTANT!**
– Make sure that the snap hooks are covered with slip resistant material to avoid laterally slipping on the axle.

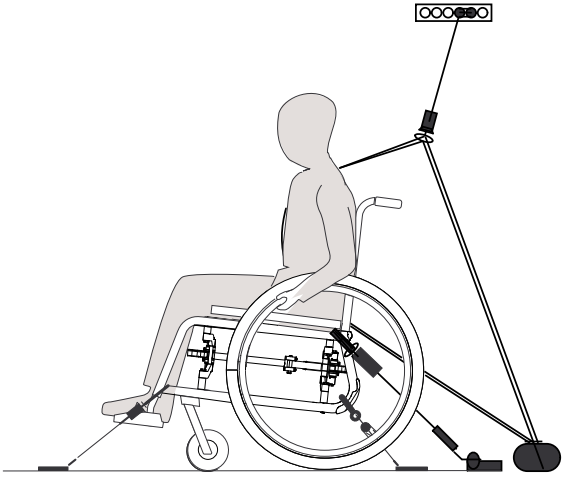
**IMPORTANT!**
– Check the plungers are fully engaged on both sides and located in the same position of the cut-out section of the rail.
– Make sure that the angle between the rails and the straps lies between 40° and 45°.

## Fit posture belt

**WARNING!**
The posture belt 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 4.1 Posture belt, page 22.

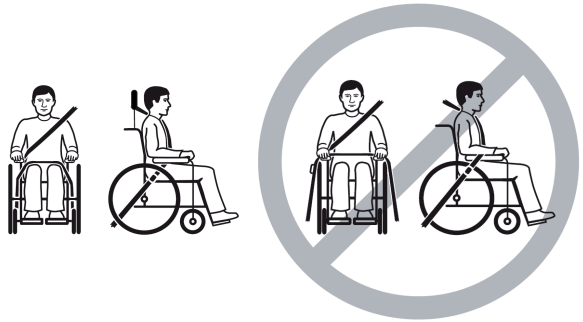
## Fastening the 3-point passenger restraint system



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

**WARNING!**

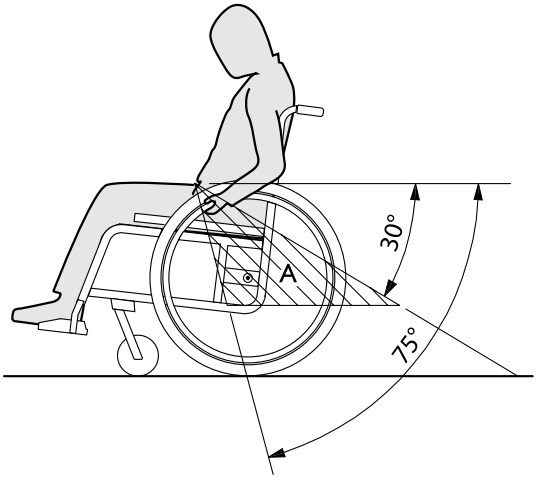
– Ensure the 3-point passenger restraint system fits as tightly across the user's body as possible without discomfort and no part is twisted.
– Ensure the 3-point passenger restraint system is not held away from the user's body by parts of the wheelchair such as armrests or wheels etc.
– Ensure the user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



1. Attach the 3-point passenger restraint system refering 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).

## 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 | x | | |
| Check that rear wheels are seated correctly | x | | |
| Check posture belt | x | | |
| Visual check | | x | |
| Check the folding mechanism | | x | |
| Clean the front wheels | | x | |
| Check bolts | | x | |
| Check spokes | | x | |
| Check parking brakes | | x | |
| Have wheelchair checked by an authorized dealer | | | x |

### Check the tire pressure

1. Check the tire pressure, 3.10 Tires, page 20.
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

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

1. 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).
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!**
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 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

1. Remove the rear wheel and release any air from the inner tube.
2. 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.
4. Repair the inner tube using a bicycle repair kit or, if necessary, replace the tube.
5. Inflate the tube slightly until it becomes round.
6. Insert the valve into the valve hole on the rim and place the tube inside the 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.

1. 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 or in the shower.
3. If the wheelchair is dirty, wipe off the dirt as soon as possible with a damp cloth and dry it carefully.

## 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) alike CITRUS ND (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, ® 3.10 Tires, page 20 |
| | One or more spokes broken | Replace faulty spoke(s), ® 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, ® authorized dealer |
| | Back angle too large | Reduce the backrest angle, ® authorized dealer |
| | Seat angle too large | Mount the adapter plate lower on the side profile, ® authorized dealer<br>Select a smaller front fork, ® authorized dealer |
| The brakes are gripping poorly or asymmetrically | Incorrect tire pressure in one or both rear tires | Correct tire pressure, ® 3.10 Tires, page 20 |
| | Brake setting incorrect | Correct the brake setting, ® authorized dealer |
| Rolling resistance is very high | Tire pressure in rear tires is too low | Correct tire pressure, ® 3.10 Tires, page 20 |
| | Rear wheels not parallel | Ensure the rear wheels are parallel, ® 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 |
| The wheelchair is very difficult to unfold | Backrest cover is too tight | Loosen the Velcro bands of the backrest cover a little, ® 3.3 Backrest, page 12 |

# 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 2.3 Labels and symbols on the product, page 8 .

After long-term storage (more than four months) the wheelchair must be inspected in accordance to chapter 8 Maintenance, page 43.

## 10.2 Re-use

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

- Cleaning and disinfection, 8.3 Cleaning, page 45 and 8.4 Disinfection, page 45 in this manual.
- Inspection, 8.2 Maintenance Schedule, page 43 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

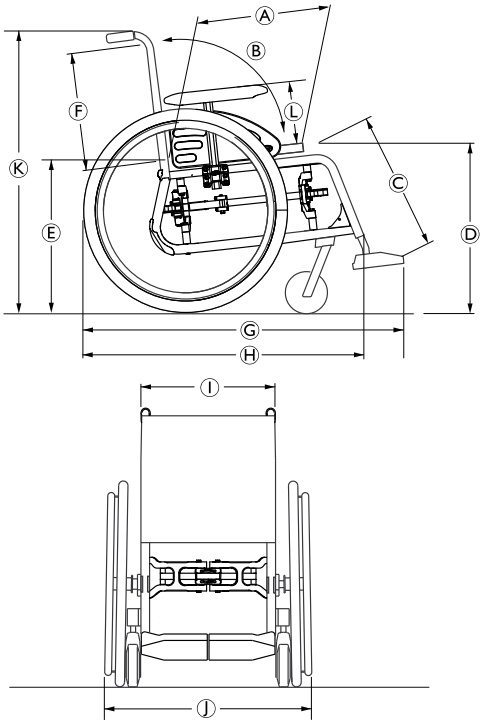
Be environmentally aware and dispose of your wheelchair properly. Disposal is subject to national and local regulations.

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 may alter according to different configurations.




| | | |
|---|---|---|
| Ⓐ | Seat depth | 350 – 500 mm, in increments of 25 mm |
| Ⓑ | Backrest angle (fixed) | 90° |
| | Backrest angle (adjustable) | 90° (–15°/+15°, stepless) |
| Ⓒ | Knee-to-heel length | 200 – 400 mm/ 330 – 460 mm/ 440 – 510 mm<br>in increments of 10 mm |
| Ⓓ | Seat height front | 360 – 535 mm, in increments of 25 mm |
| Ⓔ | Seat height rear | 360 – 510 mm, in increments of 25 mm |
| Ⓕ | Backrest height (fixed) | 300 – 500 mm, in increments of 25 mm |
| | Backrest height (adjustable) | 360 – 400 mm / 410 – 490 mm, stepless |
| Ⓖ | Total length | 845 – 1205 mm |
| Ⓗ | Total length without leg rests | 670 – 860 mm |
| Ⓘ | Seat width | 305 – 530 mm, in increments of 25 mm |
| Ⓙ | Total width* | Seat width + 160 – 250 mm |
| | Total width, folded | 320 – 380 mm |
| Ⓚ | Total height | 701 – 1108 mm |
| Ⓛ | Armrest height (adjustable) | N°1: 186 – 266 mm<br>N°3: 205 – 280 mm |
| | Total weight | from 12,3 kg |

| | | |
|---|---|---|
| | Transport weight (without rear wheels & armrests) | from 8,3 kg |
| | Maximum user weight | Seat width 305 – 355: 100 kg<br>Seat width 380 – 530: 130 kg |
| | Pivot width | 625 - 765 mm |
| | Max. safe slope | 7° |

* Depends on camber

## 11.2 Materials

| | |
|---|---|
| Frame/backrest tubes | Aluminum, Steel |
| Seat cover | PA / PVC |
| Backrest cover | PA |
| Push handles | PVC |
| Side parts (Clothes guards, mudguards, armrests) | Plastic |
| Folding mechanism / vertical brace / clamping parts / castor forks | Aluminum |

All materials used are corrosion-resistant.

Notes

Invacare® distributors

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