

Invacare[®] Fox[™]

en Power Wheelchair User Manual



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

CE

Yes, you can:

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1 General

1.1 Introduction

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

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

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

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

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

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

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

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

1.2 Symbols in This Manual

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



WARNING

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



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CAUTION

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

IMPORTANT

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

Tips

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

Tools

Identifies required tools, components and items which are needed to carry out certain work.

1.3 Compliance

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

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

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

We only use REACH compliant materials and components.

We comply with the current environmental legislations WEEE and RoHS.

1.3.1 Product-Specific Standards

The product has been tested and conforms to DIN EN 12184 (Electrically powered wheelchairs, scooters and their chargers) and all related standards.

When equipped with an appropriate lighting system, the product is suitable for use on public roads.

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

1.4 Usability

Only use a mobility device when it is in perfect working order. Otherwise, you might put yourself and others at risk.

The following list does not claim to be exhaustive. It is only intended to show some of the situations that could affect the usability of your mobility device.

In certain situations, you should immediately stop using your mobility device. Other situations allow you to use the mobility device to get to your provider. You should immediately stop using your mobility device if its usability is restricted due to:

- Unexpected driving behaviour
- brake failure

You should immediately contact an authorised Invacare provider if the usability of your mobility device is restricted due to:

- the lighting system (if fitted) failing or being defective
- reflectors falling off
- worn thread or insufficient tire pressure
- damage to the armrests (e.g. torn armrest padding)
- damage to the legrest hangers (e.g. missing or torn heel straps)
- damage to the postural belt
- damage to the joystick (joystick cannot be moved into the neutral position)
- cables that are damaged, kinked, pinched or have come loose from the fixation
- the mobility device drifting when braking
- the mobility device pulling to one side when moving
- unusual sounds developing or occurring

Or if you have the feeling that something is wrong with your mobility device.

1.5 Warranty Information

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

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

Invacare[®] Fox™

1.6 Service Life

We estimate a service life of five years for this product, provided it is used in strict accordance with the intended use as set out in this document and all maintenance and service requirements are met. The estimated service life can be exceeded if the product is carefully used and properly maintained, and provided technical and scientific advances do not result in technical limitations. The service life can also be considerably reduced by extreme or incorrect usage. The fact that we estimate a service life for this product does not constitute an additional warranty.

1.7 Limitation of Liability

Invacare accepts no liability for damage arising from:

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

2 Safety

2.1 General Safety Notes



DANGER!

Risk of Death, Serious Injury, or Damage Lighted cigarettes dropped onto an upholstered seating system can cause a fire resulting in death, serious injury, or damage. Mobility device occupants are at particular risk of death or serious injury from these fires and resulting fumes because they may not have the ability to move away from the mobility device.

- DO NOT smoke while using this mobility device.

WARNING!

Risk of Injury, Damage or Death

Improper monitoring or maintenance may cause injury, damage or death due to ingestion or choking on parts or materials.

- Closely supervise children, pets, or people with physical/mental disabilities.



WARNING!

Risk of Death, Serious Injury or Damage

Improper routing of cables may cause a tripping entanglement or strangulation hazard that may result in death, serious injury or damage.

- Ensure all cables are routed and secured properly.
- Ensure there are no loops of excess cable extending away from the wheelchair.

WARNING!

Risk of Serious Injury or Damage

Improper use of this product may cause injury or damage.

- If you are unable to understand the warnings, cautions or instructions, contact a health care professional or provider before attempting to use this equipment.
- Do not use this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as user manual, service manual or instruction sheet supplied with this product or optional equipment.

WARNING!

Risk of injury if the mobility device is driven when ability to operate a vehicle is impaired by medication or alcohol

 Never drive the mobility device under the influence of medication or alcohol. If necessary, the mobility device must be operated by an attendant who is physically and mentally able.

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WARNING!

Risk of damage or injury if mobility device is accidentally set into motion

- Switch the mobility device off before you get in, get out or handle unwieldy objects.
- When the drive is disengaged, the brake inside the drive is deactivated. For this reason, pushing the mobility device by an attendant is only recommended on flat surfaces, never on gradients. Never leave your mobility device on a gradient with its motors disengaged. Always re-engage the motors immediately after pushing the mobility device (refer to Pushing the mobility device in freewheel mode).



WARNING!

Risk of injury if the mobility device is switched off while driving, for example by pressing the On/Off Button or disconnecting a cable, due to it coming to an abrupt, sharp stop

 If you have to brake in an emergency, simply release the joystick which will bring you to a halt (refer to the remote user manual for more information).

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WARNING!

- Risk of injury when transferring mobility device to a vehicle for transport with the occupant seated in it
- It is always better to transfer the mobility device to a vehicle without the occupant seated in it.
- If the mobility device needs to be loaded up a ramp together with its driver, ensure that the ramp does not exceed the rated slope (refer to *12 Technical Data, page 87*).
- If the mobility device does need to be loaded using a ramp which exceeds the rated slope (refer to 12 Technical Data, page 87), then you must use a winch. An attendant can safely monitor and assist the loading process.
- As an alternative you can use a platform lift.
 Ensure that the total weight of the mobility device including the user does not exceed the maximum permissible weight for the platform lift or winch if you are using.



WARNING!

Risk of falling out of the mobility device

- Do not slide forward on the seat, do not lean forward between your knees, do not lean backwards out over the top of the backrest, for example to reach an object.
- If a posture belt is installed, it should be correctly adjusted and used each time you use the mobility device.
- When transferring to a different seat, position the mobility device as close as possible to the new seat.



WARNING!

Risk of Serious Injury or Damage

Storing or using the mobility device near open flame or combustible products can result in serious injury or damage.

 Avoid storing or using the mobility device near open flame or combustible products.

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CAUTION!

Risk of injury if maximum permissible load is exceeded

- Do not exceed the maximum permissible load (refer to 12 Technical Data, page 87).
- The mobility device is only designed for use by a single occupant whose maximum weight does not exceed the maximum permissible load of the device. Never use the mobility device to transport more than one person.



CAUTION!

Risk of injury due to wrong lifting or dropping of heavy components

 When maintaining, servicing or lifting any part of your mobility device, take into account the weight of the individual components especially the batteries. Be sure at all times to adopt the correct lifting posture and ask for assistance if necessary.

CAUTION!

Risk of injury by moving parts

 Make sure that no injury is incurred by moving parts of the mobility device, like wheels or one of the lifter modules (if fitted), especially when children are around.



CAUTION!

Risk of injury from hot surfaces

 Do not leave the mobility device in direct sunlight for prolonged periods. Metal parts and surfaces such as the seat and armrests can become very hot.

CAUTION!

Risk of fire or breaking down due to electric devices being connected

 Do not connect any electric devices to your mobility device that are not expressly certified by Invacare for this purpose. Have all electrical installations done by your authorized Invacare provider.

2.2 Safety Information on the Electrical System

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WARNING! Risk of death, serious injury or damage

Misuse of the mobility device may cause the mobility device to start smoking, sparking, or burning. Death, serious injury, or damage may occur due to fire.

- DO NOT use the mobility device other than its intended purpose.
- If the mobility device starts smoking, sparking, or burning, discontinue using the mobility device and seek service IMMEDIATELY.

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WARNING! Risk of fire

Switched on lamps produce heat. If you cover the lamps with fabrics such as clothes, there is a risk that the fabric may catch fire.

- NEVER cover the light system with fabric.



WARNING!

Risk of death, serious injury or damage when carrying along oxygen systems

Textiles and other materials that normally would not burn are easily ignited and burn with great intensity in oxygen enriched air.

 Check the oxygen tubing daily, from the cylinder to the delivery site, for leaks and hold away from electrical sparks and any source of ignition.



WARNING!

Risk of injury or damage due to electrical shorts Connector pins on cables connected to the power module can still be live even when the system is off.

- Cables with live pins should be connected, restrained or covered (with non-conductive materials) so that they are not exposed to human contact or materials that could cause electrical shorts.
- When cables with live pins have to be disconnected, for example, when removing the bus cable from the remote for safety reasons, make sure to restrain or cover the pins (with non-conductive materials).

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WARNING! Risk of death. serious injury. or damage

Corroded electrical components due to water or liquid exposure can result in death, serious injury, or damage.

- Minimize exposure of electrical components to water and/or liquids.
- Electrical components damaged by corrosion MUST be replaced immediately.
- Mobility devices that are frequently exposed to water/liquids may require replacement of electrical components more frequently.



WARNING!

Risk of death or serious injury

Failure to observe these warnings can cause an electrical short resulting in death, serious injury, or damage to the electrical system.

- The POSITIVE (+) RED battery cable MUST connect to the POSITIVE (+) battery terminal(s)/post(s). The NEGATIVE (-) BLACK battery cable MUST connect to the NEGATIVE (-) battery terminal(s)/post(s).
- NEVER allow any of your tools and/or battery cable(s) to contact BOTH battery post(s) at the same time. An electrical short may occur and serious injury or damage may occur.
- Install protective caps on positive and negative battery terminals.
- Replace cable(s) immediately if cable(s) insulation becomes damaged.
- DO NOT remove fuse or mounting hardware from POSITIVE (+) red battery cable mounting screw.



WARNING!

Risk of death or serious injury

Electric shock can cause death or serious injury

 To avoid electric shock, inspect plug and cord for cuts and/or frayed wires. Replace cut cords or frayed wires immediately. ļ

Risk of damage to the mobility device

- A failure in the electric system can lead to unusual behavior such as continuous light, no light, or noises from the magnetic brakes.
 - If a failure exists, switch off the remote and switch it on again.
 - If a failure still exists, then disconnect or remove the power source. Depending on the mobility device model, you can either remove the battery packs or disconnect the batteries from the power module. If in doubt which cable to disconnect, contact your provider.
 - In any case, contact your provider.

2.3 Safety Information on Electromagnetic Interference

This powered mobility device was successfully tested in accordance with International standards as to its compliance with Electromagnetic Interference (EMI) regulations. However, electromagnetic fields, such as those generated by radio and television transmitters, and cellular phones can influence the functions of powered mobility devices. Also, the electronics used in our mobility devices can generate a low level of electromagnetic interference, which however will remain within the tolerance permitted by law. For these reasons we ask you to please observe the following precautions:



WARNING!

Risk of malfunction due to electromagnetic interference

- Do not switch on or operate portable transceivers or communication devices (such as radio transceivers or cellular phones) when the mobility device is switched on.
- Avoid getting near strong radio and television transmitters.
- In case the mobility device should be set in motion unintentionally or the brakes are released, switch it off immediately.
- Adding electrical accessories and other components or modifying the mobility device in any way can make it susceptible to electromagnetic interference. Keep in mind that there is no sure way to determine the effect such modifications will have on the overall immunity of the electronic system.
- Report all occurrences of unintentional movement of the mobility device, or release of the electric brakes to the manufacturer.

2.4 Safety Information on Driving and Freewheel Mode



DANGER!

- **Risk of death, serious injury, or damage** Malfunctioning joystick could cause unintended/erratic movement resulting in death, serious injury, or damage
- If unintended/erratic movement occurs, stop using the wheelchair immediately and contact a qualified technician.

WARNING!

Risk of injury if the mobility device tips over

- Inclines and declines can only be travelled up to the maximum safe slope (refer to 12 *Technical Data, page 87*).
- Always return the backrest of your seat or the seat tilt to an upright position before ascending slopes. We recommend that you position the seat backrest and the seat tilt (if fitted) slightly to the rear before descending slopes.
- Only ever drive downhill at a maximum of 2/3 of the top speed. Avoid abrupt braking or accelerating on gradients.
- If at all possible, avoid driving on wet, slippery, icy, or oily surfaces (such as snow, gravel, ice etc.) where there is a risk of you losing control over the vehicle, especially on a gradient. This may include certain painted or otherwise treated wood surfaces. If driving on such a surface is inevitable, then always drive slowly and with the utmost caution.
- Never attempt to overcome an obstacle when on an uphill or downhill gradient.
- Never attempt to drive up or down a flight of steps with your mobility device.
- When overcoming obstacles, always observe the maximum obstacle height (refer to 12 *Technical Data, page 87* and information about overcoming obstacles in 6.5 Taking Obstacles, page 60).
- Avoid shifting your centre of gravity as well as abrupt joystick movements and changes of direction when the mobility device is in motion.



WARNING!

Risk of injury if the mobility device tips over (continued)

- Never use the mobility device to transport more than one person.
- Do not exceed the overall maximum permissible load or the maximum load per axle (refer to 12 *Technical Data, page 87*).
- Note that the mobility device will brake or accelerate if you change the driving mode whilst the mobility device is in motion.

WARNING!

Risk of serious injury or damage

Improper positioning while leaning or bending could cause the wheelchair to tip forward resulting in serious injury or damage

- To assure stability and proper operation of your mobility device, you must at all times maintain proper balance. Your power wheelchair has been designed to remain upright and stable during normal daily activities as long as you DO NOT move beyond the centre of gravity.
- DO NOT lean forward out of the mobility device any further than the length of the armrests.
- DO NOT attempt to reach objects if you have to move forward in the seat or pick them up from the floor by reaching down between your knees.

WARNING! Risk of breaking down in adverse weather conditions, i.e. extreme cold, in an isolated area

- If you are a user with severely limited mobility. we advise that in the case of adverse weather conditions DO NOT attempt a journey without an accompanying attendant.



WARNING!

- Risk of injury if your foot slides off the footrest and gets caught underneath the mobility device when it is in motion
- Make sure each time before you drive the mobility device that your feet are squarely and securely in place on the footplates, and that both legrests are properly locked into place.

WARNING!

Risk of injury if you collide with an obstacle when driving through narrow passages such as doorways and entrances

- Drive through narrow passages in the lowest driving mode and with due caution.



WARNING!

Risk of iniurv

If your mobility device has been fitted with elevating legrests, there is a risk of personal injury and damage to the mobility device if you drive the mobility device with the legrests raised.

 To avoid unwanted displacement of the mobility device centre of gravity to the front (especially when travelling downhill) and in order to avoid damage to the mobility device, elevating legrests must always be lowered during normal travelling.

WARNING!

Tipping hazard if antitippers are removed.

- damaged or changed to a position different to the factory settings
- Antitippers should only ever be removed for dismantling the mobility device for transport in a vehicle or for storage.
- The antitippers must always be fitted if the mobility device is being used.



WARNING!

Risk of tipping Antitippers (stabilizers)

Antitippers (stabilizers) are only effective on firm ground. They sink in on soft ground such as grass, snow or mud if the mobility device rests itself on them. They lose their effect and the mobility device can tip over.

 Only drive with extreme care on soft ground, especially during uphill and downhill journeys. In the process pay increased attention to the tip stability of the mobility device.

2.5 Safety Information With Regard to Care and Maintenance



WARNING!

Risk of death, serious injury, or damage Incorrect repair and/or servicing of this mobility device performed by users/caregivers or unqualified technicians can result in death, serious injury, or damage.

 DO NOT attempt to carry out maintenance work that is not described in this user manual.
 Such repair and/or service MUST be performed by a qualified technician. Contact a provider or Invacare technician.



CAUTION!

Risk of accident and loss of warranty if maintenance is insufficient

- For reasons of safety and in order to avoid accidents which result from unnoticed wear, it is important that this mobility device undergoes an inspection once every year under normal operating conditions (see inspection plan contained in service instructions).
- Under difficult operating conditions such as daily travel on steep slopes, or in the case of use in medical care cases with frequently changing mobility device users, it would be expedient to carry out intermediate checks on the brakes, accessories and running gear.
- If the mobility device is to be operated on public roads, the vehicle driver is responsible for ensuring that it is in an operationally reliable condition. Inadequate or neglected care and maintenance of the mobility device will result in a limitation of the manufacturer's liability.

2.6 Safety Information Regarding Changes and Modifications to the Mobility Device



WARNING!

Risk of serious injury or damage

Use of incorrect or improper replacement (service) parts may cause injury or damage

- Replacement parts MUST match original Invacare parts.
- Always provide the wheelchair serial number to assist in ordering the correct replacement parts.



CAUTION!

Risk of injuries and damage to mobility device due to unapproved components and accessory parts

Seating systems, additions and accessory parts which have not been approved by Invacare for use with this mobility device can affect the tipping stability and increase tipping hazards.

- Only ever use seating systems, additions and accessory parts which have been approved by Invacare for this mobility device.

Seating systems which are not approved by Invacare for use with this mobility device do not, under certain circumstances, comply with the valid standards and could increase the flammability and the risk of skin irritation.

- Only use seating systems that have been approved by Invacare for this mobility device.

Electrical and electronic components which have not been approved by Invacare for use with this mobility device can cause fire hazards and lead to electromagnetic damage.

- Only ever use electrical and electronic components which have been approved by Invacare for this mobility device.

Batteries which have not been approved by Invacare for use with this mobility device can cause chemical burns.

- Only ever use batteries which have been approved by Invacare for this mobility device. ĵ

CAUTION!

Risk of injuries, and damage to the mobility device, if unapproved backrests are used A retrofitted backrest which is not approved by Invacare for use with this mobility device may overload the backrest tube and thus increase the risk of injuries and of damage to the mobility device.

 Please contact your Invacare specialist provider who will perform risk analyses, calculations, stability checks etc. to ensure that the backrest can be used safely.

CE marking of the mobility device

- The conformity assessment/CE marking was carried out according to the respective valid regulations and only applies to the complete product.
- The CE marking is invalidated if components or accessories are replaced or added that have not been approved for this product by Invacare.
- In this case, the company that adds or replaces the components or accessories is responsible for the conformity assessment/CE marking or for registering the mobility device as a special design and for the relevant documentation.

Important information about maintenance work tools

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- Some maintenance work which is described in this manual and can be carried out by the user without problems require the correct tools for proper work. If you do not have the correct tool available we do not recommend that you try to carry out the relevant work. In this case, we urgently recommend that you contact an authorized specialist workshop.

3 Product Overview

3.1 Intended Use

This mobility device was designed for persons whose ability to walk is impaired, but who are still in terms of their eyesight and physically and mentally able to operate an electric mobility device.

3.2 Indications

The use of this power wheelchair is recommended for the following indications:

- The inability or a greatly restricted ability to walk within the scope of the basic requirement to be able to move within one's own four walls.
- The need to leave the dwelling place in order to get some fresh air during a short walk or to reach those places generally to be found at close distance to the dwelling and where everyday business is carried out.

Provision of power wheelchairs for interior and exterior areas is advisable if the use of hand-operated wheelchairs is no longer possible on account of the disability, yet proper operation of an electromotive drive unit is still practicable.

Contraindications

There are no contraindications known.

3.3 Type Classification

The mobility device with a maximum speed of 3 km/h has been classified according to EN 12184 as a **class A** mobility product (for indoor areas only). This means it is a compact, 1577074-1

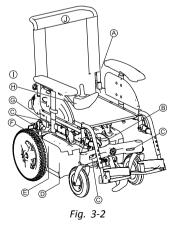
maneuverable vehicle mainly for internal use and not necessarily capable of negotiating outdoor obstacles.



The class A product can be identified by a 3 km/h label on the remote.

The mobility device with a maximum speed higher than 3 km/h has been classified according to EN 12184 as a **class B** mobility product (for indoor and outdoor areas). It is therefore compact and agile enough for indoor areas, but also able to overcome many obstacles in outdoor areas.

3.4 Labels on Product



| ۸ | | If the mobility device is fitted with a table, it is imperative that it is removed and safely stowed when transporting the mobility device in a vehicle. |
|---|---|---|
| B | 0' 2' 4' 6' 0' 8' 2' 4' 6' 8' | Scale for setting the seat angle |
| C | Identification of the tie-dow back: | n points at the front and |
| | JSO 7176-19 | If the symbol appears on a bright yellow sticker, the tie-down point is suitable for fixation of the mobility device in a vehicle for use as a vehicle seat. |
| D | Manual Manua Manual Manual Manua | Battery wiring diagram under the battery box cover |

| Ē | | Identification label sticker on the rear post. For details see below. |
|---|-------------|--|
| | | Warning that the mobility device may not be used as a vehicle seat |
| | ISO 7176-19 | This mobility device does not satisfy the requirements of ISO 7176-19. |
| Ē | | Identification of the position of the coupling lever for driving and push operation (not visible in the picture). |
| | <u>×</u> | For details see below. |
| G | | If the label appears, the mobility device is a class A product. It is intended mainly for internal use and not necessarily capable of negotiating outdoor obstacles. |

| H | 3 km/h | Maximum speed label on the remote. The maximum speed is reduced to 3 km/h. |
|---|-------------|---|
| 1 | | Indication of pinch points that could occur on the mobility device |
| 1 | kg max. 6kg | Indication not to strain one bag hook with more than 3 kg. |

Explanation of Symbols on Labels

| | Manufacturer |
|----|---------------------|
| M | Date of manufacture |
| CE | European Conformity |
| MD | Medical device |
| SN | Serial number |
| | WEEE conform |

Read the user manual. This symbol appears on the identification label.



Read the user manual. This symbol appears on different labels and positions.



This symbol indicates the "Drive" position of the coupling lever. In this position the motor is engaged and the motor brakes are operational. You can drive the mobility device.

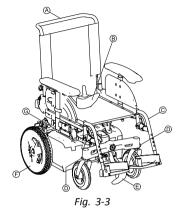
• Note that for driving purposes both motors must always be engaged.



This symbol indicates the "Push" position of the coupling lever. In this position the motor is disengaged and the motor brakes are not operational. The mobility device can be pushed by an attendant and the wheels turn freely.

- Note that the remote must be switched off.
- Also note the information provided in section 6.8 Pushing Mobility Device in Freewheel Mode, page 63.

3.5 Main Parts of Wheelchair



- A Push bar
- (B) Remote
- © Legrests
- D Caster locks
- (E) Curb climber
- (F) Drive wheel
- © Levers for disengaging motors at the rear (not visible in the picture)

3.6 User Inputs

Your mobility device may be fitted with one of several different user inputs. For information on the different

functions and how to operate a particular user input, refer to its corresponding user manual (enclosed).

4 Accessories

4.1 Posture Belts

A posture belt is an option which can either be fixed to the mobility device ex-works or can be retrofitted by your specialist provider. If your mobility device is fitted with a posture belt, your specialist provider will have informed you about fitting and usage.

The posture belt is used to help the mobility device user keep an optimum seating position. Correct use of the belt assists the user in sitting securely, comfortably and well-positioned in the mobility device, especially for such users who do not have such a good sense of balance while sitting.

 $\underbrace{\overset{\circ}{\mathbb{I}}}_{} \qquad \text{We recommend using the posture belt whenever the mobility device is used.}$

4.1.1 Types of Posture Belts

Your mobility device can be fitted with the following posture belt types ex-works. If your mobility device has been fitted with a different belt to those mentioned below, please ensure that you have received the manufacturer's documentation with regard to correct fitting and use.

Belt with Metal Buckle, Adjustable both Sides



Belt can be adjusted on both sides. This means that the buckle can be centrally positioned.

Belt with Plastic Buckle, Adjustable both Sides





Belt can be adjusted on both sides. This means that the buckle can be centrally positioned.

4.1.2 Adjusting Posture Belt Correctly

- $\underbrace{\mathring{l}}_{\underline{l}} \quad \text{The belt should be tight enough to ensure that you are sitting comfortably and that your body is in the correct sitting position.}$
- 1. Ensure that you are sitting correctly, which means that you are sitting right at back of seat, your pelvis is positioned erect and as symmetrically as possible, not to front, to side or at one edge of seat.
- 2. Position posture belt so that your hipbones can be easily felt above belt.
- 3. Adjust belt length using one of adjustment aids described above. The belt should be adjusted so that you can fit a flat hand between belt and your body.

- 4. Buckle should be positioned as centrally as possible. In doing so, carry out adjustments on both sides as much as possible.
- 5. Check your belt every week to ensure that it is still in good working condition, to ensure it has no damage or wear, and that it is fixed properly to mobility device. If belt is only fastened with a bolted connection, ensure that connection has not loosened or come undone. You can find more information about maintenance work on belts in the service manual, which is available from Invacare.

4.2 Using Cane Holder

If your mobility device is fitted with a cane holder, it can be used for the safe transport of a walking cane, underarm or forearm crutches. The cane holder consists of a plastic container (bottom) and a hook-and-loop fastener (top).



CAUTION!

Risk of Injury

A walking cane or crutches that are not secured during transport (on the user's lap, for example) can cause injury to the user or other persons.
During transport, walking canes or crutches should always be secured using a cane holder.

- 1. Open upper hook-and-loop fastener.
- 2. Place lower end of the walking cane or crutches in container at bottom.
- 3. Walking cane or crutches can be secured at upper end using hook-and-loop fastener.

4.3 Using KLICKfix Adapter

Your mobility device can be fitted with the mini-adapter from the Rixen + Kaul KLICKfix system. To this you can attach various accessories such as the cellphone case supplied by Invacare, which you can use to transport your cellphone, sports glasses etc.

Risk posed by unsecured accessories

- Accessories can fall off and get lost if they are not properly secured.
 - Check that the accessory is correctly locked in and seated securely every time you use the mobility device.

Risk of breakage due to excessive load

- The KLICKfix adapter can break if too great a load is applied.
 - The maximum permitted load on the KLICKfix adapter is 1 kg.



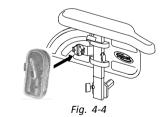


Fig. 4-3

Securing Accessory

1. Push accessory into KLICKfix adapter. Accessory locks in securely.

Removing Accessory

1. Press red button and remove accessory.

The adapter can turn in 90° steps, allowing you to attach an accessory from any of four different directions. Please refer to the installation instructions which are available from your Invacare provider or directly from Invacare.

More information on the KLICKfix system is available at http://www.klickfix.com.

5 Setup

5.1 General Setup Information



WARNING!

Risk of Death, Serious Injury or Damage Continued use of the mobility device that is not set to the correct specifications may cause erratic behaviour of the mobility device resulting in death, serious injury, or damage.

- Performance adjustments should only be made by professionals of the healthcare field or persons fully conversant with this process and the driver's capabilities.
- After the mobility device has been set-up/adjusted, check to make sure that the mobility device performs to the specifications entered during the set-up procedure. If the mobility device does not perform to specifications, IMMEDIATELY turn the mobility device Off and re-enter set-up specifications. Contact Invacare, if mobility device still does not perform to correct specifications.



WARNING!

Risk of Death, Serious Injury or Damage Attaching hardware that is loosely secured or missing could cause instability resulting in death, serious personal injury, or property damage.

 After ANY adjustments, repair or service and before use, make sure that all attaching hardware is present and tightened securely.



WARNING!

Risk of Injury or Damage

Incorrect set up of this mobility device performed by users/caregivers or unqualified technicians can result in injury or damage.

- DO NOT attempt to set up this mobility device. Initial set up of this mobility device MUST be performed by a qualified technician.
- Adjustment by the user is only recommended after they have been given appropriate guidance by the healthcare professional.
- DO NOT attempt to carry out the work if you do not have the listed tools available.

CAUTION!

Damage to Mobility Device and Accident Hazard

It is possible that collisions can occur between mobility device components due to various combinations of adjustment options and their individual settings.

 The mobility device is fitted with an individual, multiply adjustable seating system including adjustable legrests, armrests, a headrest or other options. These adjustment options are described in the following chapters. They are used to adapt the seat to the physical requirements and the condition of the user. When adapting the seating system and the seat functions to the user, ensure that no mobility device components collide.

IMPORTANT!

- The mobility device is manufactured and configured individually to the specifications of the order. The assessment must be performed by a healthcare professional according to the user's requirements and health conditions.
 - Consult a healthcare professional if you intend to adapt the mobility device configuration.
 - Any adaption should be performed by a qualified technican.
- Initial setup should always be done by a healthcare professional. Adjustment by the user is only recommended after they have been given appropriate guidance by the healthcare professional.

Electrical Adjustment Options

 $\underbrace{\mathring{l}}_{\underline{l}} \quad \text{Refer to the user manual for your remote for more information on operating electrical adjustment options.}$

Footplates

All footplates offered by Invacare can be folded upwards.

5.2 Adjustment Possibility for Remote

The following information is valid for all seating systems.



CAUTION!

Risk of the remote being pushed backwards during an accidental collision with an obstacle, such as a doorframe or table, and the joystick being jammed against the armpad if the position of the remote is adjusted and all screws are not completely tightened

This will cause the mobility device to drive forward uncontrollably and potentially injure the mobility device user and any person standing in the way.

- When adjusting the position of the remote, always make sure to tighten all screws securely.
- If this should accidentally happen, immediately switch the mobility device electronics OFF at the remote.



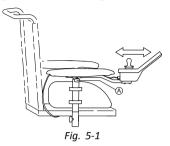
CAUTION!

Risk of Injury

When leaning on the remote, for example, when transferring into or out of the wheelchair, the remote holder may break and the user may fall out of the chair.

- Never lean on the remote as a support for, for example, transfer.

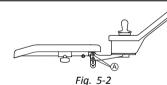
5.2.1 Adjusting Remote for Length of User's Arm



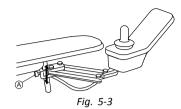
- 1. Loosen wing screw A.
- 2. Adjust component to desired position.
- 3. Tighten wing screw.

5.2.2 Adjusting Remote Height

3 mm Allen key



- 1. Loosen screws (A).
- 2. Adjust component to desired position.
- 3. Tighten screws.
- 5.2.3 Adjusting Remote Height (only for Swing-Away Remote Supports)
 - 6 mm Allen key

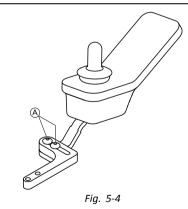


- 1. Loosen screw A.
- 2. Adjust component to desired position.
- 3. Tighten screw.

5.2.4 Adjusting Remote Offset

The remote can be adjusted by 20 mm sidewise.

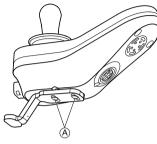
• 3 mm Allen key



- 1. Loosen screws (A).
- 2. Adjust component to desired position.
- 3. Tighten screws.

5.2.5 Adjusting Remote Position

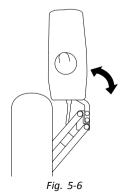
3 mm Allen key





- 1. Loosen screws (A).
- 2. Adjust component to desired position.
- 3. Tighten screws.

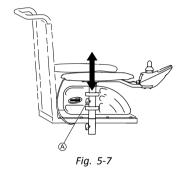
5.2.6 Swivelling Remote to Side



If your mobility device is fitted with a swing-away remote holder, then the remote can be moved away to the side, for example, to drive up close to a table.

5.3 Adjusting Armrest

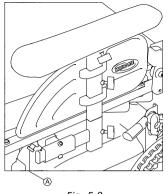
5.3.1 Adjusting Armrest Height



- 1. Loosen wing screw A.
- 2. Adjust component to desired position.
- 3. Tighten wing screw.

5.3.2 Adjusting Armrest Width

8 mm Allen key





- 1. Loosen screw A.
- 2. Adjust component to desired position.
- 3. Tighten screw.

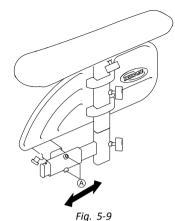
5.3.3 Adjusting Armrest Depth



WARNING!

Serious risk of injury if an armrest falls out of its bracket because it was pulled too far forward.

- The armrest may be pulled forward out of the bracket as far as the point where the end of the inserted tube is flush with the rear of the bracket, but no further.
- 3 mm Allen key



- 1. Loosen screws (A).
- 2. Adjust component to desired position.
- 3. Tighten screws.

5.4 Adjusting Seat Angle



CAUTION!

Adjusting the seat tilt or the backrest angle changes the geometry of the mobility device and directly influences its dynamic stability!

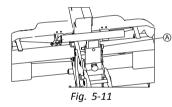
- For details regarding dynamic stability, negotiating gradients and obstacles and the correct adjustment of seat tilt or backrest angle, refer to 6.5 Taking Obstacles, page 60 and 6.6 Driving up and down Gradients, page 62.
- 10 mm wrench
- 5 mm Allen key



The possible seat angles are marked on a scale on the centre post. Depending on the rear seat height, you need to use the bottom or top scale respectively:

- Upper seat height: use bottom scale
- Lower seat height: use top scale

1.



Loosen and remove screw and nut \overline{A} .

- 2. Adjust centre post to desired position.
- 3. Insert and tighten screw and nut.

5.5 Adjusting Backrest



CAUTION!

Adjusting the seat tilt or the backrest angle changes the geometry of the mobility device and directly influences its dynamic stability!

- For details regarding dynamic stability, negotiating gradients and obstacles and the correct adjustment of seat tilt or backrest angle. refer to 6.5 Taking Obstacles, page 60 and 6.6 Driving up and down Gradients, page 62.

5.5.1 Adjusting Backrest Angle

CAUTION!



Adjusting the seat tilt or the backrest angle changes the geometry of the mobility device and directly influences its dynamic stability!

- For details regarding dynamic stability, negotiating gradients and obstacles and the correct adjustment of seat tilt or backrest angle, refer to 6.5 Taking Obstacles, page 60 and 6.6 Driving up and down Gradients, page 62.

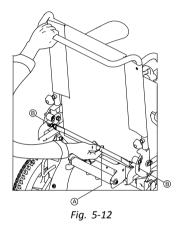
CAUTION!

Risk of tipping if the backrest angle is set too far backwards for a seat on the rear seat position and with a seat depth larger than 460 mm

- When your seat with a seat depth larger than 460 mm is positioned on the rear seat position, adjust the backrest angle to maximum 105°.

ĵ

The backrest is fitted with a stopper allowing you to easily reset the backrest to your preferred backrest angle. Adjusting the backrest is only possible between this angle and smaller angles. If you want to use a larger backrest angle, you need to adjust the stopper. Refer to 5.5.2 Adjusting Backrest Stopper, page 34.



- 1. Pull belt (A) to rear. Locking pins (B) are pulled out of locking plates. Backrest can now be moved.
- 2. Adjust component to desired position.
- 3. Release belt again. Locking pins engage automatically.

5.5.2 Adjusting Backrest Stopper

CAUTION!

Adjusting the seat tilt or the backrest angle changes the geometry of the mobility device and directly influences its dynamic stability!

 For details regarding dynamic stability, negotiating gradients and obstacles and the correct adjustment of seat tilt or backrest angle, refer to 6.5 Taking Obstacles, page 60 and 6.6 Driving up and down Gradients, page 62.

CAUTION!

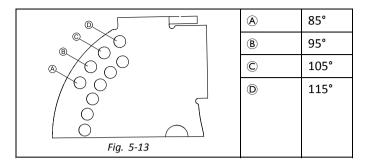
Risk of tipping if the backrest angle is set too far backwards for a seat on the rear seat position and with a seat depth larger than 460 mm

 When your seat with a seat depth larger than 460 mm is positioned on the rear seat position, adjust the backrest angle to maximum 105°.

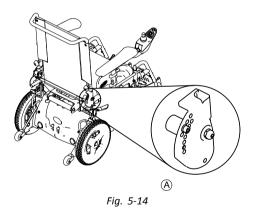
4 mm Allen key

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The backrest is fitted with a stopper allowing you to easily reset the backrest to your preferred backrest angle. Adjusting the backrest is only possible between this angle and smaller angles. If you want to use a larger backrest angle, you need to adjust the stopper.



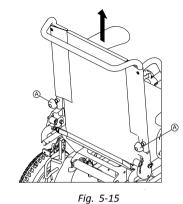
 $\hat{\underline{I}}$ By default, the stopper is set to a backrest angle of 105°.



- 1. Loosen and remove screw A.
- 2. Adjust component to desired position.
- 3. Insert and tighten screw.

5.5.3 Removing/Installing Backrest

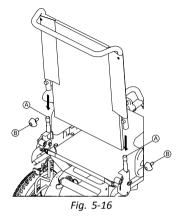
Removing Backrest



- Loosen and remove thumb screws A.
- 2. Lift backrest upwards.

1.

Installing Backrest



- 1. Set backrest tube onto mounting brackets A.
- 2. Insert and tighten thumb screws ^(B).

5.5.4 Adjusting Tension Adjustable Backrest Upholstery

1.



Remove backrest cushion (attached with hook–and–loop straps) by pulling it up and off to access adjustment straps.

2.



Fig. 5-18

Adjust tension of individual straps as desired.

3. Replace backrest cushion.

5.5.5 Adjusting Matrx Backrests

See corresponding manual.

5.6 Adjusting Headrest

$\underline{\wedge}$

WARNING!

Risk of injury if the mobility device is used as a vehicle seat without a headrest

This can cause the neck to be hyperextended during collisions.

- It is recommended to use a headrest during transport. The Invacare headrest for this mobility device (available as an option) is the perfect solution for use during transport.
- The headrest must be adjusted to the user's ear height.

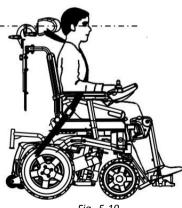


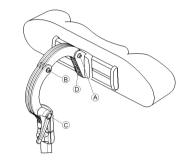
Fig. 5-19

5.6.1 Adjusting Position of Rea Headrest or Neckrest

The adjustment of the position is the same for all Rea headrests and neckrests.

• 5 mm Allen key

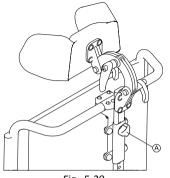
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- 1. Loosen the screws A , B or the clamping lever C.
- 2. Adjust the headrest or neckrest to the required position.
- 3. Retighten screws and clamping lever.
- 4. Loosen the Allen screw \mathbb{D} .
- 5. Slide the headrest left or right to the required position.
- 6. Retighten the Allen screw.

5.6.2 Adjusting Height of Rea Headrest or Neckrest

The adjustment of the height is the same for all Rea headrests and neckrests.





- 1. Loosen hand screw A.
- 2. Adjust component to desired position.
- 3. Tighten hand screw.

5.6.3 Adjusting Cheek Supports





1. Push components inwards or pull components out to desired position.

5.6.4 Adjusting Elan Headrest

The headrest clamp hardware is designed to install into existing mounting holes in the backrest pan.

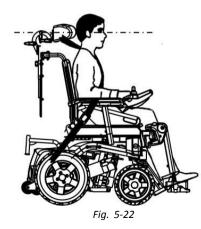


CAUTION!

Risk of injury during use of the mobility device as a vehicle seat if a headrest is wrongly adjusted or not installed

This can cause the neck to be hyperextended during collisions.

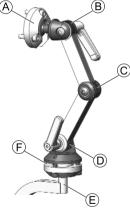
- A headrest must be installed. The headrest optionally supplied for this mobility device by Invacare is perfectly suitable for use during transport.
- The headrest must be adjusted to the user's ear height.



- It may be necessary to remove and modify the back cushion cover in order to access the headrest mounting holes on the back pan.
 - An optional shim plate is available. It may be installed between the clamp assembly and the back pan to provide additional spacing/clearance on Posture Back and Deep Back.

5.6.5 Adjusting Elan Headrest Hardware

Elan headrest hardware is highly adjustable. The illustration below shows the possible adjustment ranges of the joints.



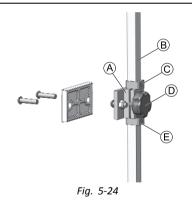


| ۸ | Upper multi-angle rotational pivot | • | 360° rotation 80° tilt |
|---|------------------------------------|---|---------------------------|
| B | Upper linkage | • | 180° rotation |

| © | Middle linkage | • | 100° rotation |
|---|------------------------------------|---|------------------------------------|
| D | Lower linkage | • | 180° rotation |
| E | Mounting post | • | 360° rotation in 90° increments |
| F | Lower multi-angle rotational pivot | • | 360° rotation 50° tilt |

Installing

- 2.5 mm Allen key
 - 4 mm Allen key
 - 5 mm Allen key



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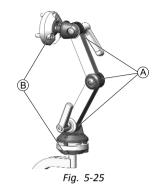
Invacare[®] Fox™

- 1. Using hardware provided, align and install headrest clamp assembly into existing mounting holes in backrest pan ^(A).
- 2. Install headrest pad (not shown) to headrest rod using mounting hardware provided.
 - $\underline{\hat{1}}$ The headrest pad can be adjusted to any desired angle via the pivot ball at the end of the headrest rod by loosening and tightening the mounting hardware.
- 3. Loosen and remove lower D-Ring (E) from hardware.
- 5. Adjust upper D-Ring © as required.
- Once final height position is set, adjust lower D-Ring E so that it rests flush with bottom of clamp assembly (to prevent slipping).

Adjusting Depth and Angle

The headrest can be further adjusted for depth and angle via the articulating hardware.

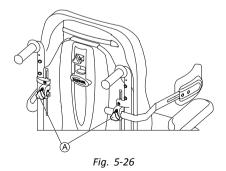
- **!**₽ 4 mm Allen key
 - 5 mm Allen key



- 2. Adjust component to desired position.
- 3. Tighten screws and clamping levers.

5.7 Adjusting Trunk Supports

5.7.1 Adjusting Width



- 1. Loosen knobs (A) that hold lateral supports.
- 2. Adjust component to desired position.
- 3. Tighten knobs.

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5.7.2 Adjusting Height

5 mm Allen key

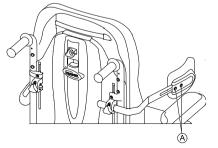




- 1. Loosen screws $\ensuremath{\check{\mathbb{A}}}$.
- 2. Adjust component to desired position.
- 3. Tighten screws.

5.7.3 Adjusting Depth

5 mm Allen key





- 1. Loosen screws (A).
- 2. Adjust component to desired position.
- 3. Tighten screws.

5.8 Adjusting/Removing Tray

CAUTION!



- Risk of injury or material damage if a mobility device which is fitted with a tray is transported in a vehicle
 - If a tray is fitted, always remove it before transporting the mobility device.



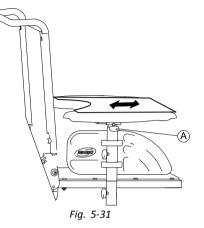


5.8.1 Adjusting Tray Laterally



- Fig. 5-30
- 1. Loosen wing screw (1).
- 2. Adjust component to desired position.
- 3. Tighten wing screw.

5.8.2 Adjusting Depth of Tray/Removing Tray



- 1. Loosen wing screw A.
- 2. Adjust component to desired position (or remove it entirely).
- 3. Tighten wing screw.

5.8.3 Swinging Tray Away to Side

The tray can be swivelled up and away to the side to allow the user to get in and out of the mobility device.



CAUTION!

Risk of injury! When the tray is raised it does not lock in place in this position!

- Do not tilt the tray up and leave it leaning in this position.
- Never attempt to drive with the tray tilted up.
- Always lower the tray in a controlled manner.

- 5.9 Adjusting Legrest
- 5.9.1 Swivelling and/or Removing Legrests (Standard 80° Legrest)



The small release lever is to be found in the upper part of the legrest (1). When the legrest is released it can be swivelled inward or outward to facilitate access and also be removed completely.



Fig. 5-33

- 1. Push release lever inward or outward.
- 2. Adjust component to desired position.
- 3. Pull upward to remove component .

5.9.2 Adjusting Length (Standard 80° Legrest)

• 5 mm Allen key

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- 1. Loosen screw (1).
 - Do not remove screw (1).
- 2. Adjust component to desired position.
- 3. Tighten screw.

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5.9.3 Swivelling and/or Removing Legrests (Manually Height Adjustable)

The unlocking knob is located on the top section of the legrests. When the legrest is unlocked, it can be swivelled 1577074-1

to the inside or outside to facilitate getting in, or can be completely removed.



- Fig. 5-35
- 1. Press unlocking knob (1) and remove legrests upwards.

5.9.4 Adjusting Legrest Angle (Manually Height Adjustable)



CAUTION!

- **Risk of crushing**
- Do not reach inside the swivelling range of the legrest.



CAUTION!

Risk of injury due to incorrect adjustment of the footrests and legrests

 Before and during every journey it is imperative to ensure that the legrests contact neither the castor wheels nor the ground.



Fia. 5-36

- Press unlocking lever (1) down. 1.
- Adjust component to desired position. 2.
- 3. Release unlocking lever. Legrest engages.
- 5.9.5 Adjusting Legrest Length (Manually Height Adjustable)



CAUTION!

Risk of injury due to incorrect adjustment of the footrests and legrests

- Before and during every journey it is imperative to ensure that the legrests contact neither the castor wheels nor the ground.
- 5 mm Allen key

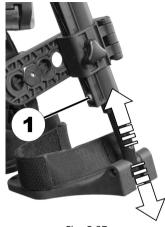


Fig. 5-37

- 1. Loosen screw (1).
- 2. Adjust component to desired position.
- Tighten screw. 3.

5.9.6 Adjusting Calf Pad Depth (Manually Height Adjustable)

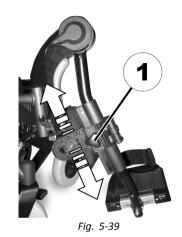
The calf pad has four depth settings.

4 mm Allen key



- Fig. 5-38
- 1. Swivel calf pad to front.
- 2. Loosen and remove screw (1).
- 3. Set nut on other side to desired depth.
- 4. Adjust calf pad to match depth of nut, put screw back in and tighten.

5.9.7 Adjusting Calf Pad Height (Manually Height Adjustable)



- 1. Loosen hand screw (1).
- 2. Adjust component to desired position.
- 3. Tighten hand screw.

Adjustment Options for Modulite Seat Unit 5.10

5.10.1 Adjusting Armrest Height

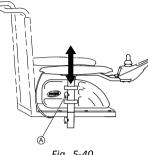


Fig. 5-40

- Loosen wing screw (A). 1.
- Adjust component to desired position. 2.
- 3. Tighten wing screw.

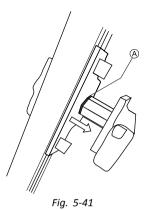
5.10.2 Adjusting Armrest Width



WARNING!

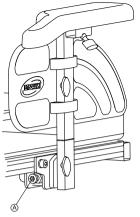
Serious injury hazard if one of the armrests falls out of its bracket because they have been adjusted to a width which exceeds the permissible value

- The width adjustment is fitted with red markings (A) and the word "STOP". The armrests must never be pulled out further than the point at which the word "STOP" is completely legible.
- Always tighten the fixing screws properly once adjustments have been completed.



Depending on the side, the screw is accessible from the front or the rear.

8 mm Allen key

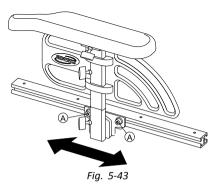




- 1. Loosen screw (A).
- 2. Adjust component to desired position.
- 3. Tighten screw.

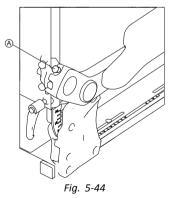
5.10.3 Adjusting Armrest Depth

6 mm Allen key



- 1. Loosen screws A .
- 2. Adjust component to desired position.
- 3. Tighten screws.

5.10.4 Adjusting Armrest Height (Flip-Up Armrest)



- 1. Loosen thumb screw A.
- 2. Adjust component to desired position.
- 3. Tighten thumb screw.

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5.10.5 Adjusting Armrest Height (Following Armrest)

Tools:

- 5 mm Allen key
 - 13 mm wrench

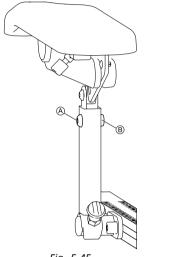


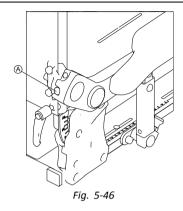
Fig. 5-45

- 1. Loosen and remove screw $\textcircled{\sc B}$ and nut $\textcircled{\sc B}$.
- 2. Adjust component to desired position.
- 3. Insert and tighten screw and nut.

5.10.6 Changing Resistance (Flip-Up/Following Armrest)

The movement of the flip-up and following armrests can be set to have greater or less resistance.

- Tools:
 - 5 mm Allen key



- 1. To make armrest easier to move, loosen screw A.
- 2. To make armrest more difficult to move, tighten screw A.

5.10.7 Adjusting Arm Pad Angle (Flip-Up/Following Armrest)

- Tools:
 - 5 mm Allen key

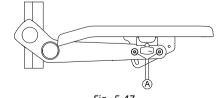


Fig. 5-47

1. Loosen screws (A).

 \hat{j} Do not remove screws \triangle .

- 2. Adjust component to desired position.
- 3. Tighten screws.

5.10.8 Adjusting Arm Pad Position (Flip-Up Armrest)

5 mm Allen key

1.



Put component in vertical position.

2. Loosen interior screws (1).





Adjust component to desired position.

4. Tighten screws. Make sure Nordlock washers used are re-inserted.

5.10.9 Adjusting Seat Width

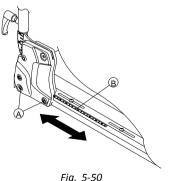
The telescopic seat support can be adjusted in four stages. The seat width can thus be adjusted together with the adjustable seat plate or the adjustable sling seat.

The description of how the width is adjusted is contained in the service manual for this mobility device. The service manual can be ordered from Invacare. However, they contain instructions for specially trained service technicians and describe operations that are not intended for the end user.

5.10.10 Adjusting Seat Depth

- The seat depth has a major influence on the selection ĵ of the centre of gravity of the seat. This impacts its dynamic stability. If you make a major change to the seat depth the centre of gravity of the seat must also be adjusted. See "Adjusting the centre of gravity of the seat" in the service manual for this mobility device. The service manual can be ordered from Invacare. However, they contain instructions for specially trained technicians and describe operations that are not intended for the end user.
- The numbers on the scale on the seat serve as a ຶ່ງໃ guide. They do not stipulate any dimensions such as seat depth in centimeters.

6 mm Allen key



1. Loosen bottom backrest screws (A) on both sides.

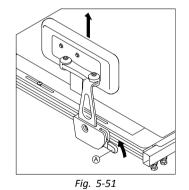
ñ Do not remove screws \triangle .

- 2. Adjust component to desired position. You can adjust seat depth steplessly. Use scale (B) on seat as a guide. Ensure that same seat depth is set on both sides.
- 3. Tighten screws.

5.10.11 Adjusting Hip Support

The hip support can be combined with the flip-up armrest only.

Removing Hip Support



- 1. Pull lever (A) upwards.
- Remove hip support from holder. 2.

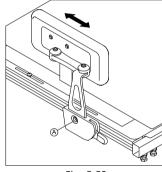
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Inserting Hip Support

- 1. Insert hip support in holder.
- Push lever
 A downwards.
 Ensure that hip support locks with an audible click.

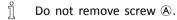
Adjusting Position of Hip Support

- Tools
 - 5 mm Allen key





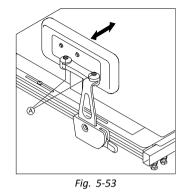
1. Loosen screw A.



- 2. Adjust component to desired position.
- 3. Tighten screw.

Adjusting Width of Hip Support

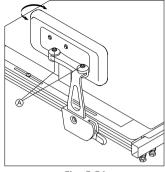
Tools • 2 x 5 mm Allen key



- 1. Loosen screws A.
- 2. Adjust component to desired position.
 - $\underline{\mathring{l}}$ You can adjust the width only smaller than the seat width but not wider.
- 3. Tighten screws.

Adjusting Angle of Hip Support

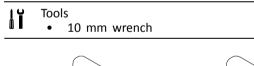
- Tools
 - 5 mm Allen key

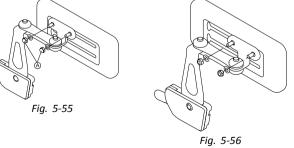




- 1. Loosen screws A.
- 2. Adjust component to desired position.
- 3. Tighten screws.

Adjusting Hip Pad Depth





- 1. Loosen screws A.
- 2. Adjust component to desired position.
- 3. Tighten screws.

Adjusting Hip Pad Height

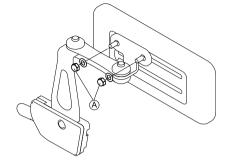
You can adjust the hip pad height in two ways:

- Via its mounting slots.
- Via its bracket.

Via Mounting Slots

Tools

10 mm wrench





Loosen screws (A).

1.

2.

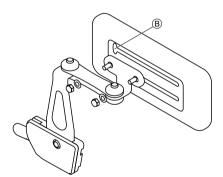
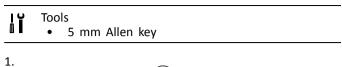


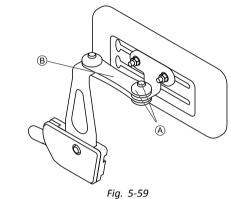
Fig. 5-58

Remove hip pad bracket from mounting slot via cut-out (\mathbb{B}) .

- 3. Insert hip pad bracket in other mounting slot.
- 4. Tighten screws.

Via Bracket





Remove upper screw and friction cap (A).Remove small friction link (B).



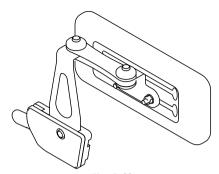


Fig. 5-60

Remove hip pad with bracket, turn upside down and reinstall.

4. Insert friction link, friction cap, screw and tighten.

5.10.12 Adjusting Backrest Height

The following section describes the procedures for adjusting the height of the backrest plate.

- $\overset{\circ}{\underline{\mathbb{I}}} \qquad \mbox{The sling back is only available in fixed heights of} \\ 48 \mbox{ and } 54 \mbox{ cm}.$
- 5 mm Allen key

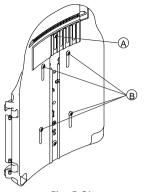


Fig. 5-61

1. Loosen screws A and B.

 $\mathring{]} \qquad \text{Do not remove screws (A) and (B)}.$

- 2. Adjust component to desired position.
- 3. Tighten screws.

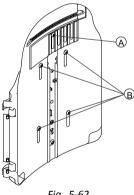
5.10.13 Adjusting Backrest Width

You can adjust the backrest plate width to a certain degree by adjusting the front plate, e.g. in order to adjust the backrest plate in line with the seat cushion. Fairly large adjustments must be made by a service technician to the rear plate and are outlined in the service manual for this mobility device. ຶ່ງໃ

The sling back is only available in two widths of 38-43 cm and 48-53 cm and, under certain circumstances, must be replaced for a width adjustment. For a replacement description, see the service manual for this mobility device. The service manual can be ordered from Invacare. However, they contain instructions for specially trained service technicians and describe operations that are not intended for the end user.

Note that if the sling back width is adjusted the backrest cushion must also be replaced.

5 mm Allen key





- 1. Loosen and remove screw A.
- 2. Loosen screws ^B.

j Do not remove screws B.

- 3. Adjust component to desired position.
- 4. Insert screw (A).
- 5. Tighten screws.

5.10.14 Adjusting Backrest Angle



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CAUTION!

- Every change to the seat angle and the backrest angle alters the geometry of the power wheelchair and affects its dynamic stability
- For more information on stability, overcoming obstacles correctly, driving along inclines and slopes and the correct position of the backrest and seat angles, see the section 6.5 Taking Obstacles, page 60 and 6.6 Driving up and down Gradients, page 62.

CAUTION!

Risk of falling out of the wheelchair

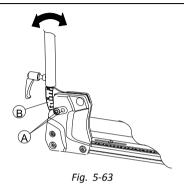
When adjusting the backrest, it might move backward unexpectedly and you might fall out of the wheelchair.

Do not rest against the backrest while adjusting it.

If the backrest is fitted with knobs instead of Allen screws, you do not need tools.

Width-Adjustable Backrest

6 mm Allen key

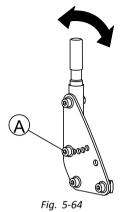


- 1. Loosen and remove upper backrest screw $\textcircled{\sc a}$ on both sides.
- Adjust desired backrest angle in 3.8° steps. Use scale
 [®] on backrest for this purpose. Ensure that you set same angle on both sides.
- 3. Insert and tighten screw.

Ensure you insert screw through one of holes of backrest bracket. Screw must be visible on inside of bracket and screw head must be flush with bracket.

Simple Backrest

6 mm Allen key



- 1. Loosen and remove middle backrest screw (A) on both sides.
- 2. Adjust desired backrest angle in 7.5° steps. Ensure that you set same angle on both sides.
- 3. Insert and tighten screw.

5.11 Adjusting Head Light

If your mobility device is fitted with optional light, refer to the user manual of the lights for information about usage.

- \int_{1}° The light must be used in bad visibility conditions
- like darkness or fog.

Before first usage you have to adjust the head light to prevent safety issues. Adjust the head light so that you are seen well but do not dazzle other traffic.

Adjusting Head Light Correctly

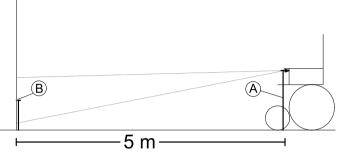


Fig. 5-65

- 1. Adjust head light straight ahead.
- 2. Measure distance between middle of head light and floor A.
- 3. Mark vertical surface, e.g. a wall, which corresponds to half of determined value (A).
- 4. Distance between marking (B) and head light must be five meters.
- 5. Adjust middle of light cone to marking B.

6 Usage

6.1 Driving

CAUTION! Risk of unexpected driving behaviour due to locked castors

If your mobility device is fitted with castor locks and these are locked, the castors cannot move freely and the mobility device might therefore not react to your steering as it should.

- Make sure the castor locks are unlocked before driving.
- Ensure that all inspections checks are successfully passed before using the mobility device. See 9.2 Inspection Checks, page 79.
 - The maximum load capacity that is stated in the technical data only states that the system is designed for this mass in total. However, this does not mean that one can sit a person with this body weight in the mobility device without restrictions. Attention must be paid to the body proportions, such as height, weight distribution, abdominal belt, leg and calf strap and seat depth. These factors have a strong influence on driving features such as tilt stability and traction. The permissible axle loads in particular must be adhered to (refer to *12 Technical Data, page 87*). It may possibly be necessary to carry out adaptations to the seat system.

6.2 Before Driving for First Time

Before you take your first trip, you should familiarise yourself well with the operation of the mobility device and with all operating elements. Take your time to test all functions and driving modes.

- $_{\text{II}}^{\circ}$ If installed, make sure to properly adjust and use the
- posture belt each time you use the mobility device.

Sitting comfortably = Driving safely

Before each trip, make sure that:

- You are within easy reach of all operating controls.
- The battery charge is sufficient for the distance you intend to travel.
- The posture belt (if installed) is in perfect order.
- The rear mirror (if installed) is adjusted so you can look behind at all times without having to bend forward or shift your seating position.

6.3 Parking and Stationary

When parking your mobility device or if your mobility device is stationary for a prolonged period:

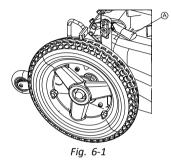
- 1. Switch the mobility device's power system off (ON-/OFF key).
- 2. Activate your anti-theft lock, if existing.

6.3.1 Engaging/Disengaging Parking Brakes

The motors of the mobility device are fitted with automatic brakes, preventing that the mobility device starts rolling out of control when the joystick box is switched off.

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Your mobility device can also be fitted with parking brakes in addition to the motor brakes. These prevent the mobility device from rocking during transport, for example, in the case of play in the transmission.



Engaging Parking Brake:

1. Pull lever A upwards.

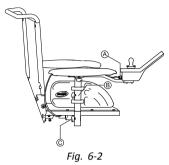
Disengaging Parking Brake:

1. Press lever A downwards.

6.4 Getting in and out of Mobility Device

- The armrest must be removed or swiveled
- up in order to get into or out of the mobility device from the side.

6.4.1 Removing Standard Armrest in Order to Side Transfer



- 1. Pull plug (A) of remote cable to disconnect remote.
- 2. Loosen wing nut ^B.
- 3. Remove armrest from holder.

6.4.2 Information About Getting in and out



Fig. 6-3

WARNING!

Risk of serious injury or damage

Improper transfer techniques may cause serious injury or damage

- Before attempting transfers, consult a healthcare professional to determine proper transfer techniques for the user and type of wheelchair.
- Follow the instructions below.
- If you do not have sufficient muscle strength, you should ask other persons for help. Use a sliding board, if possible.

Getting into Mobility Device:

- 1. Position your mobility device as close as possible to your seat. This might have to be done by an attendant.
- 2. Align casters parallel to drive wheels to improve stability during transfer.
- 3. Always switch your mobility device off.
- 4. Always engage both motor locks/clutches and free wheel hubs (if fitted) to prevent wheels from moving.
- 5. Depending on armrest type of your mobility device, detach armrest or swivel it up.
- 6. Now slide into mobility device.

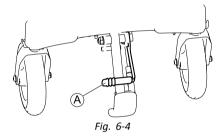
Getting out of Mobility Device:

- 1. Position your mobility device as close as possible to your seat.
- 2. Align casters parallel to drive wheels to improve stability during transfer.
- 3. Always switch your mobility device off.

- 4. Always engage both motor locks/clutches and free wheel hubs (if fitted) to prevent wheels from moving.
- 5. Depending on armrest type of your mobility device, detach armrest or swivel it up.
- 6. Now slide onto your new seat.

6.4.3 Folding Away/Releasing Curb Climber

The curb climber can be folded away to make it easier to front transfer. It can also be folded away when transporting the mobility device to reduce the size of the base.



Folding Away Curb Climber

1. Pull lever A on curb climber to fold it away.

Releasing Curb Climber

1. Push down lever of curb climber to release it.

6.5 Taking Obstacles

6.5.1 Maximum Obstacle Height

You can find information about maximum obstacle heights in the chapter entitled *12 Technical Data, page 87*.

6.5.2 Safety Information When Taking Obstacles



CAUTION!

Risk of tipping over

- Never approach obstacles at an angle but at 90 degrees as shown below.
- Approach obstacles followed by a gradient with caution. If unsure whether the gradient is too steep or not, move away from the obstacle and if possible try to find another location.
- Never approach obstacles on an uneven and/or loose ground.
- Never drive with too low tire pressure.
- Put your backrest into an upright position before ascending an obstacle.

Â

CAUTION!

Risk of falling out of the mobility device and damage to the mobility device such as broken casters

- Never approach obstacles that are higher than the maximum climbable obstacle height.
- Never let the footrest/legrest touch the ground when descending an obstacle.
- If unsure whether taking an obstacle is possible or not, move away from the obstacle and if possible find another location.

6.5.3 Correct Way to Take Obstacles

[°] The following instructions how to take obstacles also apply for attendants if the mobility device is fitted with an attendant control.





Fig. 6-5 Right

Fig. 6-6 Wrong

Ascending

- 1. Approach obstacle or curb slowly, head-on and at a right angle.
- 2. Depending on wheel drive type, stop in one of following positions:
 - a. In the case of centrally driven mobility devices: 5 - 10 cm before obstacle.
 - b. For all other drives: approx. 30 50 cm in front of obstacle.
- 3. Check position of front wheels. They must be in driving direction and at right angles to obstacle.
- 4. Approach slowly and keep at consistent speed until rear wheels have also passed over obstacle.

Ascending Obstacles With Curb Climber

- 1. Approach obstacle or curb slowly, head-on and at right angle.
- Stop in following position: 30 50 cm in front of obstacle.
- 3. Check position of front wheels. They must be in driving direction and at right angles to obstacle.
- 4. Approach with full speed until curb climber makes contact with obstacle. Impetus will lift both front wheels over obstacle.
- 5. Keep at consistent speed until rear wheels have also passed over obstacle.

Descending

The approach to descend an obstacle is the same as to ascend it with the difference that you need not to stop before descending.

- 1. Descend obstacle with medium speed.
 - When descending an obstacle too slowly it could happen that the antitippers get stuck and lift the drive wheels off the ground. Driving the mobility device is then no longer possible.

6.6 Driving up and down Gradients

For information concerning the maximum safe slope, refer to 12 Technical Data, page 87.



CAUTION!

Risk of tipping over

- Only ever drive downhill at a maximum of 2/3 of the top speed. Avoid sudden changes of direction or abrupt braking when driving on slopes.
- Always return the backrest of your seat or the seat tilt (if adjustable seat tilt is available) to an upright position before ascending slopes. We recommend that you position the seat backrest or the seat tilt slightly to the rear before descending slopes.
- Always lower the lifter (if fitted) to its lowest position before ascending or descending a slope.
- Never attempt to ascend or descend a slope on slippery surfaces or where there is a risk of skidding (such as wet pavement, ice etc).
- Avoid trying to get out of the mobility device on an incline or a gradient.
- Always drive straight in the direction the road or path you are on goes, rather than attempting to zigzag.
- Never attempt to turn around on an incline or a slope.

\triangle

CAUTION!

Braking distance is much longer on a downhill slope than on even terrain

- Never drive down a slope that exceeds the rated slope (refer to 12 Technical Data, page 87).

6.7 Use on Public Roads

If you wish to use your mobility device on public roads and lighting is required by national legislation, then your mobility device needs to be fitted with an appropriate lighting system.

Contact your Invacare provider if you have any questions.

6.8 Pushing Mobility Device in Freewheel Mode

The motors of the mobility device are fitted with automatic brakes, preventing that the mobility device starts rolling out of control when the joystick box is switched off. When pushing the mobility device manually whilst freewheeling, the magnetic brakes must be disengaged.

6.8.1 Disengaging Motors



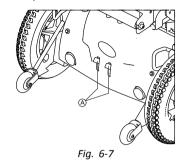
CAUTION!

Risk of the mobility device running away

 When the motors are disengaged (for push operation whilst freewheeling), the electromagnetic motor brakes are deactivated. When the mobility device is parked, the levers for engaging and disengaging the motors must without fail be locked firmly into the "DRIVE" position (electromagnetic motor brakes activated).

 $\frac{1}{2}$ The motors may only be disengaged by an attendant, not by the user.

This ensures that the motors are only disengaged if an attendant is available to secure the mobility device and prevent unintended rolling. The levers for disengaging the motors are located at the rear of the mobility device.



Disengaging Motor:

- 1. Switch off remote.
- 2. Pull engaging levers (A) upwards. Motor is disengaged.

Engaging Motor:

1. Push engaging levers down (A). Motor is engaged.

7 Controls System

7.1 Controls Protection System

The wheelchair controls system is fitted with an overload protection.

If the drive is severely overloaded over a long period of time (for example, when driving up a steep hill) and especially when the ambient temperature is high, the controls system could overheat. In this case, the wheelchair performance is gradually reduced until it comes to a halt. The status display shows a corresponding error code (refer to the user manual for your remote). By switching the power supply off and back on again, the error code is cleared and the controls system is switched back on. It can however take up to five minutes until the controls system has cooled down enough for the drive to restore full performance again.

If the drive is stalled by an insurmountable obstacle, for example, a curb or similar which is too high, and the driver attempts driving for more than 20 seconds against this obstacle, the controls system automatically switches off to prevent the motors from being damaged. The status display shows a corresponding error code (refer to the user manual of your remote). By switching off and back on again, the error code is cleared and the controls system is switched back on.

A defective main fuse may be replaced only after checking the entire controls system. A specialised Invacare provider must perform the replacement. You can find information on the fuse type in 12 Technical Data, page 87.

7.2 Batteries

Power is supplied by two 12 V batteries. The batteries are maintenance-free and only need regular charging.

In the following, you find information on how to charge, handle, transport, store, maintain, and use batteries.

7.2.1 General Information on Charging

New batteries should always be fully charged once before their first use. New batteries will be at their full capacity after having run through approx. 10 - 20 charging cycles (break-in period). This break-in period is necessary to fully activate the battery for maximum performance and longevity. Thus, range and running time of your mobility device could initially increase with use.

Gel/AGM lead acid batteries do not have a memory effect as NiCd batteries.

7.2.2 General Instructions on Charging

Follow the instructions listed below to ensure safe use and longevity of the batteries:

- Charge 18 hours prior to initial usage.
- We recommend charging the batteries daily after every discharge even after partly discharge, as well as each night over night. Depending on the level of discharge, it can take up to 12 hours until the batteries are fully charged again.
- When the battery indicator reached the red LED range, charge the batteries for 16 hours minimum, neglecting the charge complete display!
- Try to provide a 24 hour charge once a week to make sure that both batteries are fully charged.

- Do not cycle your batteries at a low state of charge without regularly recharging them fully.
- Do not charge your batteries under extreme temperatures. High temperatures above 30 °C are not recommended for charging as well as low temperatures below 10 °C.
- Use only charging devices in Class 2. This class of chargers may be left unattended during charging. All charging devices which are supplied by Invacare comply with these requirements.
- You cannot overcharge the batteries when using the charger supplied with your mobility device, or a charger that has been approved by Invacare.
- Protect your charger from sources of heat such as heaters and direct sunlight. If the battery charger overheats, charging current will be reduced and the charging process delayed.

7.2.3 Charging Batteries

Refer to the user manuals for your remote and battery charger for the position of the charging socket and further information about charging the batteries.



WARNING!

Risk of explosion and destruction of batteries if the wrong battery charger is used

 Only ever use the battery charger supplied with your mobility device, or a charger that has been approved by Invacare.



WARNING!

Risk of electric shock and damage to the battery charger if it gets wet

- Protect the battery charger from water.
- Always charge in a dry environment.



WARNING!

Risk of short circuit and electric shock if the battery charger has been damaged

 Do not use the battery charger if it has been dropped or damaged.

WARNING!

Risk of electric shock and damage to the batteries

 NEVER attempt to recharge the batteries by attaching cables directly to the battery terminals.

WARNING!

Risk of fire and electric shock if a damaged extension cable is used

 Only ever use an extension cable if it is absolutely necessary. In case you must use one, make sure it is in good condition.

WARNING!

Risk of injury if using the mobility device during charging

- DO NOT attempt to recharge the batteries and operate the mobility device at the same time.
- DO NOT sit in the mobility device while charging the batteries.
- 1. Switch off mobility device.
- 2. Connect battery charger to charger socket.
- 3. Connect battery charger to power supply.

7.2.4 Disconnecting Mobility Device After Charging

1. Once charging is complete, first disconnect battery charger from power supply, then disconnect plug from remote.

7.2.5 Storage and Maintenance

Follow the instructions listed below to ensure safe use and longevity of the batteries:

- Always store the batteries fully charged.
- Do not leave the batteries in a low state of charge for an extended length of time. Charge a discharged battery as soon as possible.
- In case your mobility device is not used for a longer period of time (that is more than two weeks), the batteries must be charged at least once a month to maintain a full charge and always be charged before use.
- Avoid hot and cold extremes when storing. We recommend to store batteries at a temperature of 15 °C.

• Gel and AGM batteries are maintenance-free. Any performance issues should be handled by a properly trained mobility device technician.

7.2.6 Instructions on Using Batteries



CAUTION!

Risk of damaging the batteries.

- Avoid ultra-deep discharges and never drain your batteries completely.
- Pay attention to the Battery Charge Indicator! Charge the batteries when the Battery Charge Indicator shows that battery charge is low.

How fast the batteries discharge depends on many circumstances, such as ambient temperature, condition of the surface of the road, tire pressure, weight of the driver, way of driving and utilisation of lighting, if fitted.

• Try to charge the batteries always before you reach the red LED range.

The last 3 LED (two red and one orange) mean a remaining capacity of about 15 %.

- Driving with flashing red LED's means an extreme stress for the battery and should be avoided under normal circumstances.
- When only one red LED is flashing, the Battery Safe feature is enabled. From this time, speed and acceleration is reduced drastically. It will allow you to move the mobility device slowly out of a dangerous situation before the electronic finally cuts off. This is deep discharging and should be avoided.

- Be aware that for temperatures below 20 °C, the ٠ nominal battery capacity starts to decline. For example, at -10 °C the capacity is reduced to about 50 % of the nominal battery capacity.
- To avoid damaging the batteries, never allow them to be fully discharged. Do not drive on heavily discharged batteries if it is not absolutely necessary, as this will strain the batteries unduly and shorten their life expectancy.
- The earlier you recharge the batteries, the longer they live.
- The depth of discharge affects the cycle life. The harder a battery has to work, the shorter is its life expectancy. Examples:
 - One deep discharge stresses the same as 6 normal cycles (green /orange display off).
 - The battery life is about 300 cycles at 80 % discharge (first 7 LED off), or about 3000 cycles at 10 % discharge (one LED off).
 - The number of LED can vary depending on ື່ງໃ
 - the remote type.
- Under normal operation, once a month the battery should be discharged until all green and orange LED are off. This should be done within one day. A 16 hour charge afterwards is necessary as reconditioning.

7.2.7 Transporting Batteries

The batteries supplied with your mobility device are not hazardous goods. This classification is based on the German GGVS Hazardous Goods Road Transport Ordinances, and the IATA/DGR Hazardous Goods Rail Transport / Air Transport Ordinances. Batteries may be transported without 1577074-I

restrictions, whether by road, rail or by air. Individual transport companies have, however, guidelines which can possibly restrict or forbid certain transport procedures. Please ask the transport company regarding each individual case.

7.2.8 General Instructions on Handling Batteries

- Never mix and match different battery manufactures or • technologies, or use batteries that do not have similar date codes.
- Never mix gel with AGM batteries.
- The batteries reach their end of life when the drive • range is significantly smaller than usual. Contact your provider or service technician for details.
- Always have your batteries installed by a properly trained mobility device technician or a person with adequate knowledge. They have the necessary training and tools to do the job safely and correctly.

7.2.9 Handling Damaged Batteries Correctly

CAUTION!

- Corrosion and burns from acid leakage if batteries are damaged
- Remove clothes that have been soiled by acid immediately.

After contact with skin:

- Immediately wash affected area with lots of water.

After contact with eyes:

- Immediately rinse eyes under running water for several minutes; consult a physician.

Invacare[®] Fox™

- Always wear safety goggles and appropriate safety clothing when handling damaged batteries.
- Place damaged batteries in an acid-resistant receptacle immediately after removing them.
- Only ever transport damaged batteries in an appropriate acid-resistant receptacle.
- Wash all objects that have come into contact with acid with lots of water.

Disposing of Dead or Damaged Batteries Correctly

Dead or damaged batteries can be given back to your provider or directly to Invacare.

8 Transport

8.1 General Information on Transport



WARNING!

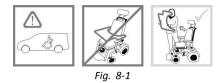
Risk of death or serious injury to the mobility device user and potentially any other nearby occupant of the vehicle, if a mobility device is secured using a 4-point tie-down system available from a third party supplier and the unladen weight of the mobility device exceeds the maximum weight for which the tie-down system is certified

- Make sure the weight of the mobility device does not exceed the weight for which the tie-down system is certified. Consult the tie-down manufacturer's documentation.
- If you are unsure how much your mobility device weighs, then you must have it weighed using calibrated scales.

CAUTION!

Risk of injury or material damage if a mobility device which is fitted with a tray is transported in a vehicle

 If a tray is fitted, always remove it before transporting the mobility device.



8.2 Transferring Mobility Device to Vehicle

Â

WARNING!

- Mobility device is at risk of tipping over if transferred to a vehicle while user is still seated in mobility device
 - Transfer mobility device without user whenever possible.
 - If mobility device with user must be transferred to vehicle using a ramp, ensure that ramp does not exceed rated slope.
 - If mobility device must be transferred to vehicle using a ramp that does exceed rated slope, a winch must then be used. An attendant can then safely monitor and assist transfer process.
 - Alternatively, a platform lift may be used.
 - Ensure that total weight of mobility device including user does not exceed maximum permitted total weight for ramp or platform lift.
 - Mobility device should always be transferred to vehicle with backrest in upright position, seat lifter lowered and tilt in upright position (refer to 6.6 Driving up and down Gradients, page 62).

WARNING!

Risk of injury and damage to mobility device and vehicle

Risk of tipping over or uncontrolled movements of mobility device if transferred to vehicle using a ramp that exceeds rated slope.

- Transfer mobility device to vehicle without user.
- An attendant must assist transfer process.
- Ensure that all carer fully understand manual of ramp and winch.
- Ensure that winch is suitable for your mobility device.
- Use only suitable tie-down points. Do not use removable or movable components of mobility device as tie-down points.

Â

WARNING!

Risk of injury and damage to mobility device
If mobility device must be transferred to vehicle
via a lift, when remote is turned on, there is a
risk that device may act erratically and fall off lift.
Before transferring mobility device via lift, turn off product and disconnect either bus cable from remote or batteries from system.

1. Drive or push your mobility device into transport vehicle using suitable ramp.

8.2.1 Locking/Unlocking Castor Locks



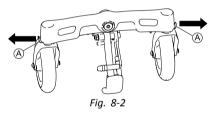
CAUTION!

Risk of unexpected driving behaviour due to locked castors

If your mobility device is fitted with castor locks and these are locked, the castors cannot move freely and the mobility device might therefore not react to your steering as it should.

Make sure the castor locks are unlocked before driving.

Your mobility device can be fitted with castor locks. These locks make loading and unloading the mobility device easier since they prevent the castors from turning and getting stuck in the transport vehicle.



Locking Castor Locks

- 1. Align castors in driving position.
- 2. Pull out levers of castor locks (A) to lock castors.

Unlocking Castor Locks

1. Push levers of castor locks inwards to unlock castors.

8.3 Using Mobility Device as Vehicle Seat

^o The following section does not apply to models or configurations which may not be used as a vehicle seat. These are identified by the following label on the mobility device:



WARNING!

Risk of injury

Safety restraint devices must only be used when the wheelchair user's weight is 22 kg or more.

- When the user weight is lower than 22 kg, do not use the wheelchair as a seat in a vehicle.



CAUTION!

Risk of injury if the mobility device is not properly secured during use as a vehicle seat.

- If possible, the user should always leave the mobility device to use a vehicle seat and the safety belts provided with the vehicle.
- The mobility device should always be anchored facing in the transport vehicle's intended direction of travel.
- The mobility device must always be secured in accordance with the mobility device and anchoring system manufacturers' user manual.
- Always remove and secure any accessory parts fixed to the mobility device such as chin controls or tables.
- If your mobility device is fitted with an angle adjustable backrest, then it must be placed in an upright position.
- Fully lower elevated legrests, if fitted.
- Fully lower the seat lifter, if fitted.

CAUTION!

- Risk of injury if a mobility device that is not fitted with leak-proof batteries is transported in a vehicle.
- Only ever use leak-proof batteries.

CAUTION!

Risk of injury or damage to the mobility device or to the transporting vehicle, if the legrests are in a raised position while the mobility device is used as a vehicle seat.

Always completely lower height-adjustable legrests, if fitted.

To use a mobility device as a motor vehicle seat, it needs to be fitted with tie-down points to enable anchoring in the motor vehicle. These accessories may be included in the standard scope of mobility device order and delivery in some countries (UK for example), but may also be obtained from Invacare as an option in other countries.

This mobility device complies with the requirements of ISO 7176-19 and may be used as a vehicle seat in connection with an anchoring system that has been checked and approved in accordance with ISO 10542. The transporting vehicle must be professionally converted to anchor the mobility device. Contact your vehicle's manufacturer for more information.

The mobility device has undergone a crash test in which it was anchored in the transporting vehicle's direction of travel. Other configurations were not tested. The crash test dummy was secured using pelvic and upper body safety belts. Both types of safety belt should be used in order to minimise the risk of injuries to head or upper body. Invacare tests with a 4-point tie-down system from BraunAbility[®] Safety Systems.

 Contact BraunAbility for more information on how to obtain such a system for your country and vehicle type. For information concerning the kerb weight, see 12 Technical Data, page 87.

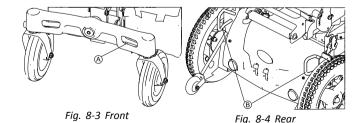
It is imperative that the mobility device is inspected by an authorised provider before being used again after being involved in a crash. Alterations to the mobility device anchoring points may not be carried out without the manufacturer's permission.

8.3.1 Anchoring Mobility Device Used as Vehicle Seat

The mobility device is fitted with four tie-down points. Snap hooks or belt loops can be used for fixation. If the wheelchair can be used as a vehicle seat, these tie-down points are labelled with the symbol shown on the right.

ຶ່ງ





- 1. Secure mobility device at front (A) and at rear (B) with tie-down system belts. Curb climber does not have to be removed.
- 2. Secure mobility device by tensioning belts in accordance with tie-down system manufacturer's user manual.

8.3.2 Securing User in Mobility Device

CAUTION!

There is a risk of injury if the user is not properly secured within the mobility device

- Even if the mobility device is fitted with a postural belt, this is no substitute for a proper safety belt which complies with ISO 10542 in the transport vehicle. Always use the safety belt installed in the transport vehicle.
- Safety belts must be in contact with the user's body. They must not be held at a distance from the user's body using parts of the mobility device such as armrests or wheels.
- Safety belts must be pulled as tightly as possible without causing the user discomfort.
- Safety belts must not be positioned while twisted.
- Ensure that the third seat belt anchorage point is not fixed directly to the vehicle floor, but to one of the vehicle uprights.



WARNING!

Risk of injury if the mobility device is used as a vehicle seat without a headrest

This can cause the neck to be hyperextended during collisions.

- It is recommended to use a headrest during transport. The Invacare headrest for this mobility device (available as an option) is the perfect solution for use during transport.
- The headrest must be adjusted to the user's ear height.

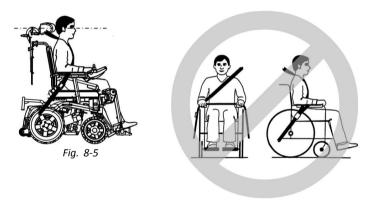


Fig. 8-6

Seat belts may not be held at a distance from the user's body using parts of the mobility device such as armrests or wheels.

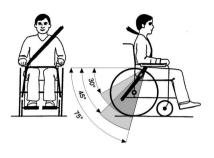
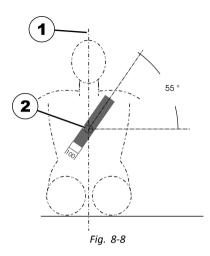


Fig. 8-7

The pelvic belt should be positioned in the area between the user's pelvis and thighs so that it is unobstructed and not too loose. The ideal angle of the pelvic belt to the horizontal is between 45° and 75°. The maximum permissible angle is between 30° and 75°. The angle should never be less than 30°!



The safety belt installed in the transporting vehicle should be applied as shown in the illustration above.

- 1) Centre line of the body
- 2) Centre of the sternum

8.4 Disassembling Mobility Device for Transport



CAUTION!

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

Your mobility device may be transported without restrictions, whether by road, rail or by air. Individual transport companies have, however, guidelines which can possibly

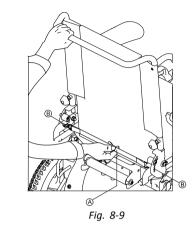
restrict or forbid certain transport procedures. Please ask the transport company regarding each individual case.

- Before transporting your mobility device, make sure motors are engaged and that remote is switched off. Invacare strongly recommends that you additionally disconnect or remove batteries. Refer to 8.4.4 Removing/Installing Battery Boxes, page 77.
- Invacare strongly recommends securing the mobility device to the floor of the transporting vehicle.

Proceed as follows to disassemble mobility device for transport:

- 1. Remove legrests. Refer to legrest chapters under 5 Setup, page 28.
- 2. Fold backrest forwards. Refer to *8.4.1 Folding Backrest Forwards, page 75.*
- 3. Disconnect remote. Refer to 8.4.2 Disconnecting Remote, page 76.
- 4. Remove seat if necessary. Refer to 8.4.3 *Removing/Installing Seat, page 76.*
 - \int_{1}° You can leave the seat on the mobility device
 - and move the mobility device like a trolley by tipping it on the antitippers.
- 5. Remove battery boxes. Refer to *8.4.4 Removing/Installing Battery Boxes, page* 77.
- 6. Fold up chassis. Refer to *8.4.5 Folding/Unfolding Chassis, page 78.*

- 8.4.1 Folding Backrest Forwards
- 1.



Pull belt B to rear. Locking pins B are pulled out of locking plates. Backrest can now be moved.

2.

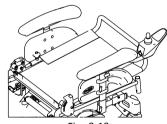


Fig. 8-10

Push backrest completely to front.

3. Locking pins engage automatically.

8.4.2 Disconnecting Remote

- Switch off remote. 1.
- 2.

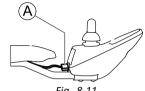


Fig. 8-11

Pull plug (A) of remote cable to disconnect remote.

8.4.3 Removing/Installing Seat



CAUTION!

Risk of strains from lifting heavy parts!

- Use proper lifting techniques.

Removing Seat

1.

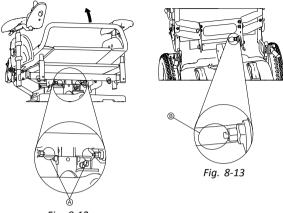
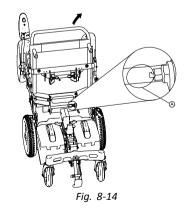


Fig. 8-12

On centre post, pull safety latches (A) and fold up seat until rear safety latch

B on rear post engages. Seat is now in service position.

2.



On rear post, pull safety latch (A) and remove seat.

Installing Seat

- 1. Put seat on bracket.
- 2. Fold seat forward.
- 3. Make sure safety latches on centre post engage.
- 8.4.4 Removing/Installing Battery Boxes



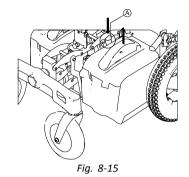
CAUTION!

Risk of strains from lifting heavy parts! – Use proper lifting techniques.

[°] Turn the front wheels at right angle to the driving direction to have more space when removing or installing the battery boxes.

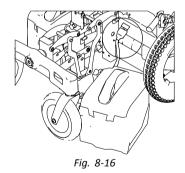
Removing Battery Boxes

1.



On battery box, press down safety latch $\textcircled{\sc A}$ and pull battery box up.

2.



Disconnect battery box.

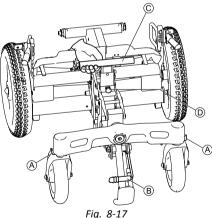
3. Repeat STEPS 1–2 for other battery box.

Installing Battery Boxes

Risk of pinching the battery cables

- Make sure you do not pinch the battery cables when installing the battery boxes.
- Installing the battery boxes is easier when you tilt ĵ the top of the boxes a bit to the inside.
- Connect battery box and install it. 1.
- Repeat STEP 1 for other battery box. 2.
- Make sure safety latches \triangle of battery boxes engage. 3.

8.4.5 Folding/Unfolding Chassis



Folding Chassis

- Align castors in driving position. 1.
- Lock castor locks (A), if available. 2.

- 3. Pull lever (B) on curb climber to bring it into park position.
- 4. Pull up centre post © until safety latch © engages.

Unfolding Chassis

- 1. Pull safety latch of centre post, then pull front of chassis forward
- 2. Push down lever of curb climber to release it.
- Open castor locks. 3.

8.5 **Reassembling Mobility Device**

Proceed as follows to reassemble mobility device:

- 1. Unfold chassis. Refer to 8.4.5 Folding/Unfolding Chassis, paae 78
- 2. Install battery boxes. Refer to 8.4.4 Removing/Installing Battery Boxes, page 77.
- 3. Install seat. Refer to 8.4.3 Removing/Installing Seat, page 76
- 4. Connect remote. Refer to 8.4.2 Disconnecting Remote, page 76.
- 5. Fold backrest upwards. Refer to 8.4.1 Folding Backrest Forwards, page 75.
- 6. Install legrests. Refer to legrest chapters under 5 Setup, page 28.

9 Maintenance

9.1 Maintenance Introduction

The term "Maintenance" means any task performed to ensure that a medical device is in good working order and ready for use as intended. Maintenance encompasses different areas, such as everyday care and cleaning, inspection checks, repair tasks and refurbishment.

^o Have your vehicle checked once a year by an authorised Invacare provider to maintain its driving safety and roadworthiness.

9.2 Inspection Checks

The following tables list inspection checks that should be performed by the user and their intervals. If the mobility device fails to pass one of the inspection checks, refer to the chapter indicated or contact your authorised Invacare provider. A more comprehensive list of inspection checks and instructions for maintenance work can be found in the service manual for this device, which can be obtained from Invacare. That manual, however, is intended to be used by trained and authorised service technicians, and describes tasks which are not intended to be performed by the user.

| Item | Inspection Check | If Inspection is not Passed | |
|---------------------|--|---|--|
| Screwed connections | Check all connections, such as backrests and wheels, for tight fit. | Contact your provider. | |
| Signal horn | Check for correct function. | Contact your provider. | |
| Batteries | Make sure batteries are charged. Refer to user manual provided with your remote for description of Battery Charge Indicator. | Charge batteries (refer to 7.2.3 Charging Batteries, page 65). | |

9.2.1 Before Each Use of Mobility Device

9.2.2 Weekly

| Item | Inspection Check | If Inspection is not Passed |
|------------------------|---|---|
| Armrests/side parts | Check that armrests are firmly attached in holders and do not wobble. | Tighten screw or clamping lever that holds armrest (refer to 5.2 Adjustment Possibility for Remote, page 29). |
| | | Contact your provider. |
| Tyres (puncture-proof) | Check that tyres are undamaged. | Contact your provider. |

9.2.3 Monthly

| Item | Inspection Check | If Inspection is not Passed |
|----------------------------|--|-----------------------------|
| All upholstered parts | Check for damage and wear. | Contact your provider. |
| Removable legrests | Check whether legrests can be fixed securely and whether loosening mechanism is properly operable. | Contact your provider. |
| | Check that all adjustment options function properly. | |
| Castors | Check that castors rotate and swivel freely. | Contact your provider. |
| Drive wheels | Check that drive wheels rotate without wobbling. It is easiest to have someone stand behind mobility device and observe drive wheels as you drive away from them to do this. | Contact your provider. |
| Electronics and connectors | Check all cables for damage and all connecting plugs for snug fit. | Contact your provider. |

9.3 Wheels and Tyres

Dealing With Wheel Damages

In case of having a damaged wheel, contact your provider. Because of safety reasons do not have the wheel repaired by yourself or by not authorised persons.

Dealing With Pneumatic Tyres

Risk of damage to tyre and rim

ļ Never drive with too low tyre pressure, this could result in damage to tyre.

If tyre pressure is exceeded rim could be damaged.

- Inflate tyres to recommended pressure.

ĭ Use tyre gauge to check pressure.

Check weekly that the tyres are inflated to the correct pressure, see chapter 9.2 Inspection Checks, page 79.

For recommended tyre pressure see inscription on tyre/rim or contact Invacare. Compare table below for conversion.

| psi | bar |
|-----|-----|
| 22 | 1.5 |
| 23 | 1.6 |
| 25 | 1.7 |
| 26 | 1.8 |
| 28 | 1.9 |
| 29 | 2.0 |
| 30 | 2.1 |
| 32 | 2.2 |
| 33 | 2.3 |
| 35 | 2.4 |

| psi | bar |
|-----|-----|
| 36 | 2.5 |
| 38 | 2.6 |
| 39 | 2.7 |
| 41 | 2.8 |
| 44 | 3.0 |

9.4 Short-Term Storage

In case a serious fault is detected, a number of safety mechanisms are built into your mobility device and will protect it. The power module prevents your mobility device from driving.

When the mobility device is in such a condition and while waiting for repair:

- 1. Switch off power.
- 2. Disconnect the batteries.

Depending on the mobility device model, you can either remove the battery packs or disconnect the batteries from the power module. Refer to the corresponding chapter about disconnecting the batteries.

3. Contact your provider.

9.5 Long-Term Storage

In case your mobility device is not used for a longer period of time, you need to prepare it for storage to ensure a longer life for your mobility device and batteries.

Storing Mobility Device and Batteries

- We recommend to store the mobility device at a temperature of 15 °C, avoid hot and cold extremes when storing to ensure a long service life of the product and batteries.
- The components are tested and approved for greater temperature ranges as detailed below:
 - Allowable temperature range to store the mobility device is -40° up to 65 °C.
 - Allowable temperature range to store batteries is -25° up to 65 °C.
- Even not being used, batteries discharge themselves. Best practice is to disconnect the battery supply from the power module if storing the mobility device longer than two weeks. Depending on the mobility device model, you can either remove the battery packs or disconnect the batteries from the power module. Refer to the corresponding chapter about disconnecting the batteries. If in doubt which cable to disconnect, contact your provider.
- Batteries should always be fully charged before storing.
- If storing the mobility device longer than four weeks, check the batteries once a month and recharge as needed (before gauge reads half full) to avoid damage.
- Store in a dry, well-ventilated environment protected from outer influences.
- Slightly overinflate pneumatic tyres.
- Position the mobility device on flooring that is not discoloured by contact with tyre rubber.

Preparing Mobility Device for Use

- Re-connect the battery supply to the power module.
- The batteries must be charged before use.

• Have the mobility device checked by an authorised Invacare provider.

9.6 Cleaning and Disinfection

9.6.1 General safety information



CAUTION!

Risk of contamination

 Take precautions for yourself and use appropriate protective equipment.

CAUTION!

Risk of electric shock and product damage

- Switch off the device and disconnect from mains, if applicable.
- When cleaning electronic components consider their protection class regarding water ingress.
- Make sure that no water splashes to the plug or the wall outlet.
- Do not touch the power socket with wet hands.

IMPORTANT!

Wrong fluids or methods can harm or damage the product.

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

 $\begin{tabular}{ll} \widehat{l} For cleaning and disinfection in clinical or long-term care environments, follow your in-house procedures. \end{tabular}$

9.6.2 Cleaning Intervals

IMPORTANT!

Regular cleaning and disinfection enhances smooth operation, increases the service life and prevents contamination.

Clean and disinfect the product

- regularly while it is in use,
- before and after any service procedure,
- when it has been in contact with any body fluids,
- before using it for a new user.

9.6.3 Cleaning

IMPORTANT!

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

IMPORTANT!

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

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

 $\begin{tabular}{ll} \widehat{l} & Car polish and soft wax can be used on painted metal surfaces to remove abrasions and restore gloss. \end{tabular}$

Cleaning upholstery

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

9.6.4 Disinfection

- information on recommended disinfectants and methods can be found on https://vahonline.de/en/for-users.
- 1. Wipe down all generally accessible surfaces with a soft cloth and ordinary household disinfectant.
- 2. Allow the product to air-dry.

10 After Use

10.1 Reconditioning

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

- Inspection according to service plan. See service manual, available from Invacare.
- Cleaning and disinfection. Refer to 9 Maintenance, page 79.
- Adaptation to the new user. Refer to 5 Setup, page 28.

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

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

10.2 Disposal



WARNING!

Environmental Hazard

Device contains batteries.

This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according to legislation.

- DO NOT dispose of batteries in normal household waste.
- Batteries MUST be taken to a proper disposal site. The return is required by law and free of charge.
- Do only dispose discharged batteries.
- Cover terminals of lithium batteries prior to disposal.
- For information on the battery type see battery label or chapter *12 Technical Data, page 87*.

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

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

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

11 Troubleshooting

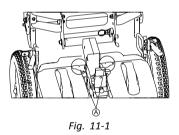
11.1 Resetting Circuit Breaker

WARNING!

- NEVER defeat or bypass the circuit breaker.
- ONLY replace with a circuit breaker of the same rating.

Resetting the circuit breaker may be needed if the mobility device does not turn on and the reset button has popped out about 6 mm.

- 1. Switch off remote.
- 2.



To reset, press circuit breaker button A located on rear of battery box.

12 Technical Data

12.1 Technical Specifications

The technical information provided hereafter applies to a standard configuration or represents maximum achievable values. These can change if accessories are added. The precise changes to these values are detailed in the sections for the respective accessories.



Note that in some cases the measured values may vary up to \pm 10 mm.

| Permissible Operating and Storage Conditions | | |
|---|---|--|
| Temperature range for operation according to ISO 7176-9:• -25° +50 °C | | |
| Recommended storage temperature: | • 15 °C | |
| Temperature range for storage according to ISO 7176-9: | -25° +65 °C with batteries -40° +65 °C without batteries | |

| Electrical System | |
|----------------------|--|
| Motors | • 2 x 200 W |
| Batteries | 2 x 12 V/50 Ah (C20) leakproof/AGM 2 x 12 V/45 Ah (C20) leakproof/AGM 2 x 12 V/40 Ah (C20) leakproof/gel 2 x 12 V/34 Ah (C20) leakproof/AGM |
| Main fuse | • 40 A resettable circuit breaker for each battery box |
| Degree of protection | IPX4 ¹ |

| Charging Device | | | | |
|-------------------------------------|--|---|--|--|
| Output current | | • 8 / | • 8 A ± 8 % | |
| Output voltage | | • 24 | V nominal (12 cells) | |
| Drive Wheel Tyres | | | | |
| Tyre type • 317 (12½ inch x | | nch x 2¼ inch) | puncture-proof, pneumatic | |
| Castor Tyres | | | | |
| Tyre type • 200x50 puncture | | ncture-proof | | |
| Driving Characteristics | | | | |
| • 6 | | 3 km/h 6 km/h 8 km/h | | |
| Min. braking distance | | 400 mm (3 km/h) 1000 mm (6 km/h) 1500 mm (8 km/h) | | |
| Rated slope ² • | | Class B (6 - | Class A (3 km/h): 3° (5.2 %) Class B (6 – 8 km/h): 6° (10.5 %) according to manufacturer's specifications with 127 kg payload, 4° seat angle, 15° backrest angle | |
| - | | • 60 mm (10 seat) | 60 mm (100 mm with kerb climber; 80 mm with kerb climber and Modulite seat) | |
| | | | short wheelbase) extended wheelbase) | |
| Pivot width • 1 | | • 1350 mm | | |

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| Driving Characteristics | | |
|--|--|--|
| Drive range in accordance with ISO 7176-4 ³ | 3 km/h / 6 km/h: | |
| | 40 km (45/50 Ah batteries) 32 km (40 Ah batteries) 27 km (34 Ah batteries) | |
| | 8 km/h: | |
| | 32 km (45/50 Ah batteries) 27 km (40 Ah batteries) | |

| Dimensions in Accordance with ISO | Seat Type | | |
|---|--|---|--|
| 7176–15 | Standard | Modulite | |
| Total height | 1010 mm (with 480 mm seat height and 490 mm backrest height) 1120 mm (with 510 mm seat height and 570 mm backrest height) | 990 — 1090 mm (telescopic seat frame, moving the backrest plate) | |
| Max. total width (component with widest point in parentheses) | 590 mm (drive wheels) 640 mm (measured from outer edge of armrest at seat width 50) | 590 mm (drive wheels) 640 mm (measured from outer edge of armrest at seat width 48) 690 mm (measured from outer edge of armrest at seat width 53) | |
| Total length (incl. standard legrests) | 937 mm (short wheelbase) 963 mm (extended wheelbase) | • 1120 mm | |
| Total length (without standard legrests) | 747 mm (short wheelbase) 773 mm (extended wheelbase) | | |
| Stowage length | • 775 mm | | |
| Stowage width | • 640 mm | | |

| Dimensions in Accordance with ISO | Seat Type | | |
|--|--|--|--|
| 7176–15 | Standard | Modulite | |
| Stowage height | • 700 mm | | |
| Ground clearance | • 65 mm | | |
| Seat height ⁴ | • 480/510 mm | 480/510 mm 510/540 mm (sling seat) | |
| Seat width (armrest adjustment range in parentheses) | 350 mm (350 - 390 mm) 400 mm (410 - 450 mm) 450 mm (460 - 500 mm) 500 mm (510 - 560 mm) | 380 mm (380 - 430 mm⁵) 430 mm (430 - 480 mm⁵) 480 mm (480 - 530 mm⁵) 530 mm (530 - 580 mm⁵) | |
| Seat depth | • 400/430/460/490 mm | • 410 - 510 mm | |
| Backrest height ⁴ | • 490 - 570 mm | 480/540 mm (sling back) 560 - 660 mm (telescopic seat frame, moving the backrest plate) | |
| Seat cushion thickness | • 50 mm | • 50/75/100 mm | |
| Backrest angle | • 85°, 95°, 105°, 115° | • 90° - 120° | |
| Armrest height | 230 - 280 mm (standard armrest) 205 - 255 mm (inrigged armest) | 245 - 310/295 - 360 mm (telescopic seat frame with T-armrest) 275 - 340/325 - 390 mm (one piece seat plate with T-armrest) | |
| Armrest depth ⁵ | • 375 mm (standard armrest) | • 325 mm | |
| Horizontal location of axle ⁶ | • 45 mm | • 140 mm | |
| Seat angle | • 0°, 2°, 4°, 6°, 8° | | |

| Footrests and Legrests | | Seat Type | Seat Type | | |
|------------------------|--------|----------------|----------------|--|--|
| Туре | | Standard | Modulite | | |
| Standard 80 | Length | • 350 - 450 mm | • 350 - 450 mm | | |
| | Angle | • 80° | • 80° | | |
| Manual elevating | Length | • 350 - 450 mm | | | |
| | Angle | • 0 - 70° | | | |

| Weight ⁷ | Seat Type | |
|---------------------|---------------|-----------------|
| | Standard | Modulite |
| Kerb weight | approx. 79 kg | • approx. 94 kg |

| Component Weights | | |
|--------------------|--|--|
| Seat unit | approx. 23 kg (Standard seat) approx. 28 kg (Modulite seat) | |
| Chassis | • approx. 39 kg | |
| 45/50 Ah batteries | approx. 14.3 kg per battery | |
| 40 Ah batteries | approx. 14.5 kg per battery | |
| 34 Ah batteries | approx. 11.1 kg per battery | |
| | | |

| Payload | |
|--------------|----------|
| Max. payload | • 127 kg |

| Axle Loads | |
|----------------------|----------|
| Max. front axle load | • 110 kg |
| Max. rear axle load | • 140 kg |

1 IPX4 classification means that the electrical system is protected against spray water.

2 Class A:

- Static stability according to ISO 7176-1 = 6° (10.5 %)
- Dynamic stability according to ISO 7176-2 = 3° (5.2 %)

Class B:

- Static stability according to ISO 7176-1 = 9° (15.8 %)
- Dynamic stability according to ISO 7176-2 = 6° (10.5 %)
- 3 Note: The drive range of a mobility device is strongly influenced by external factors, such as the speed setting of the wheelchair, the charging state of the batteries, surrounding temperature, local topography, road surface characteristics, tyre pressure, weight of user, drive style and use of batteries for lighting, servos etc.

The specified values are theoretical maximum achievable values measured according to ISO 7176-4.

- 4 Measured without seat cushion
- 5 Distance between backrest reference plane and most forward part of armrest assembly
- 6 Horizontal distance of wheel axle from intersection of loaded seat and backrest reference planes
- 7 The actual kerb weight depends on the fittings your mobility device has been supplied with. Every Invacare mobility device is weighed when leaving the works. Refer to the nameplate for the kerb weight (including batteries) measured.

Service

13 Service

13.1 Inspections Performed

It is confirmed by stamp and signature that all jobs listed in the inspection schedule of the service and repair instructions have been properly performed. The list of the inspection jobs to be performed can be found in the service manual which is available through Invacare.

| Delivery Inspection | 1st Annual Inspection |
|---|---|
| | |
| | |
| | |
| | |
| | |
| | |
| Stamp of outborized provider / Date / Signature | Stamp of authorized provider / Data / Signature |
| Stamp of authorised provider / Date / Signature | Stamp of authorised provider / Date / Signature |
| 2nd Annual Inspection | 3rd Annual Inspection |
| | |
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| | |

| Stamp of authorised provider / Date / Signature | Stamp of authorised provider / Date / Signature |
|---|---|
| 4th Annual Inspection | 5th Annual Inspection |
| | |
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| | |
| | |
| Stamp of outborized provider / Data / Signature | Stamp of outborized provider / Data / Signature |
| Stamp of authorised provider / Date / Signature | Stamp of authorised provider / Date / Signature |

Notes

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