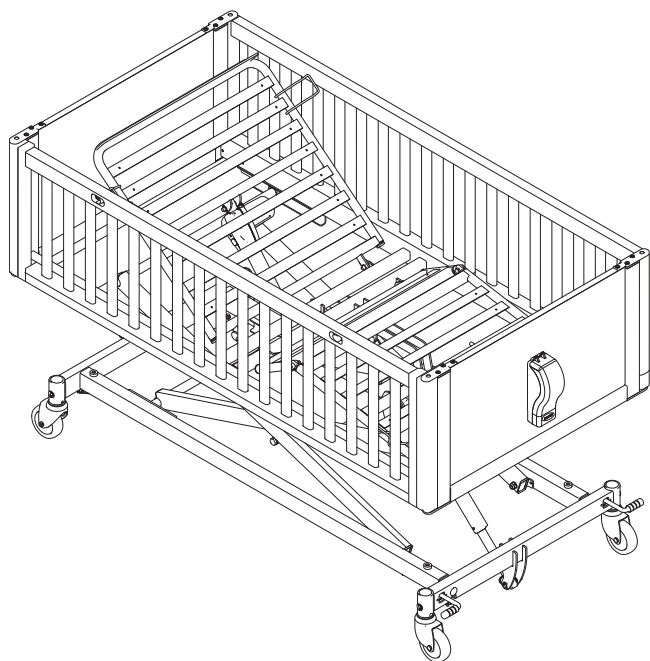


Invacare® NordBed™ Kid

en Children's Bed
Service Manual



PROVIDER: Keep this manual.
The procedures in this manual **MUST** be performed by a
qualified technician.



Yes, you can.®

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1 General

1.1 Introduction

This document contains important information about assembly, adjustment and advanced maintenance of the product. To ensure safety when handling the product, read this document and the user manual carefully and follow the safety instructions.

Find the user manual on Invacare's website or contact your Invacare representative. See addresses at the end of this document.

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.

Previous product versions may not be described in this manual's current revision. If you require assistance, please contact Invacare.

For pre-sale and user information, see the user manual.

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

1.2 Symbols in this Document

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



WARNING!

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



CAUTION!

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



NOTICE!

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



Tips and Recommendations

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

Other Symbols

(Not applicable for all manuals)



UK Responsible

Person Indicates if a product is not manufactured in the UK.



Triman

Indicates recycling and sorting rules (only relevant for France).

1.3 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
- Unauthorised modification, combinations and/or use of unsuitable spare parts

2 Safety

2.1 General Safety Information


WARNING!
Risk of injury or damage to property

- The procedures in this manual must only be performed by a qualified technician.
- Use only original accessories and spare parts.
- Do not handle this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as user manuals, installation manuals or instruction sheets supplied with this product or optional equipment.
- After each assembly, check that all fittings are properly tightened and that all parts have the correct function.


WARNING!
Risk of contamination

- Clean and disinfect the product before servicing.


NOTICE!

Assembly of accessories might not be described in this service manual. Refer to the manual, delivered with the accessory.

- Additional manuals can be ordered from Invacare. See addresses at the end of this document.
- Due to regional differences, refer to your local Invacare catalog or website for available accessories or contact your local Invacare representative. See addresses at the end of this document.


NOTICE!

Some replacement parts are only available as a kit. Always use the complete new kit when replacing a part.

- Spare parts can be ordered from Invacare. Refer to your local Invacare website to access the electronic spare parts catalogue (ESPC).


NOTICE!

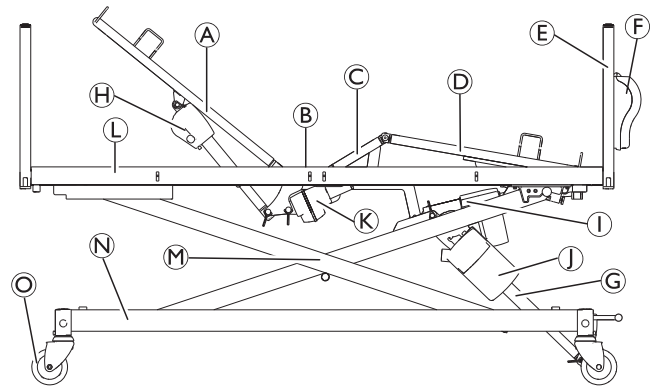
Refer to the user manual of this product for information on

- Technical data
- Product components
- Labels
- Additional safety instructions



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

2.2 Main Parts of the Bed



Parts of standard bed:

- Ⓐ Back section
- Ⓑ Seat section
- Ⓒ Thigh section
- Ⓓ Leg section
- Ⓔ Bed end
- Ⓕ Hand Control Box
- Ⓖ Height adjustment actuator
- Ⓗ Back section actuator
- Ⓘ Leg section actuator
- Ⓢ Control unit
- Ⓚ Thigh section actuator
- Ⓛ Mattress support platform
- Ⓜ Lifting mechanism
- Ⓝ Base frame
- Ⓞ Castor

Hand Control (not shown)

Side rails (not shown)

3 Setup

3.1 General safety information


WARNING!
Risk of injury or damage

Damaged parts may affect the safety of the product.

- Check all parts for shipping damage before use.
- In case of damage, do not use the product and contact your Invacare provider for further instructions.

3.2 Installing Bed Ends



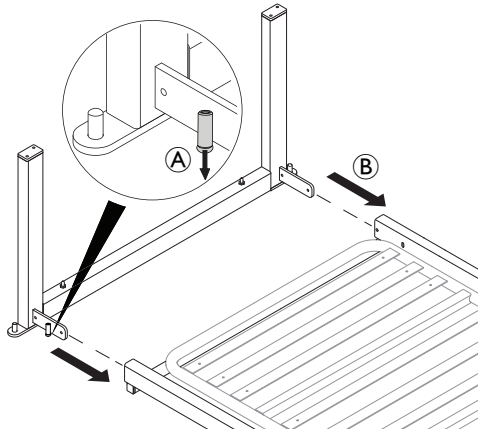
Allen key (3 mm, 4 mm), Torx key (T30 or X30)

1.


NOTICE!
Only applicable for M and L beds

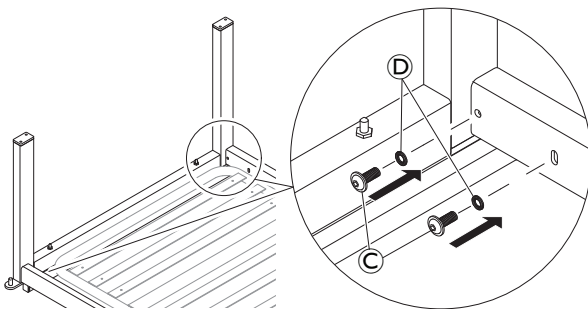
Before installing the bed ends

- Remove the angle adjustment screw from the bushing (A).



Insert the connectors of the bed end frame into the lateral square tubes of the mattress support platform (B).

2.

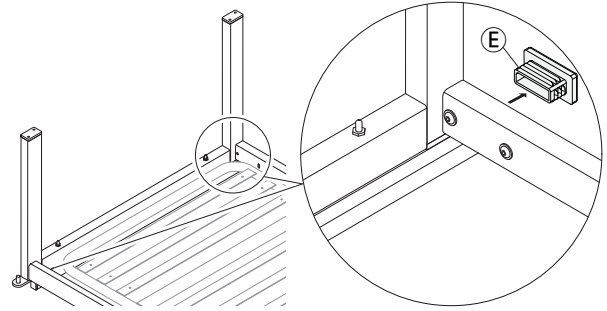


On both sides of the bed insert the screws (C) with their washers (D) and tighten them until the bed end frame is stable but still slightly adjustable in angle.



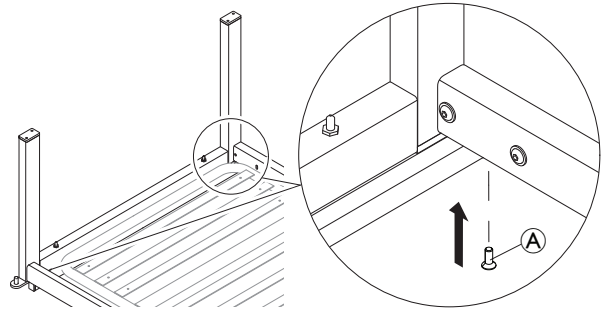
Do not completely tighten screws (C) in this step. See step 4.

3.



Remove the tube cap (E).

4.



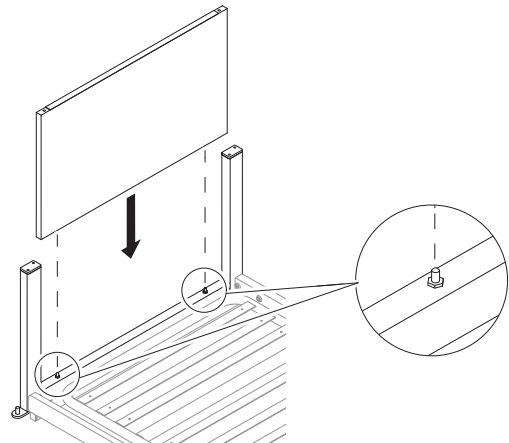
Position the bed end frame at an 90° angle to the mattress support platform and on both sides of the bed insert the adjustment screw (A) until feeling a resistance.



The adjustment screw (A) are used to adjust the angle between the bed end frame and the mattress support platform for proper fitting and function of the side rails. See 3.4 *Adjusting Bed Ends*, page 9.

5. Tighten the screws (C) on both sides of the bed.

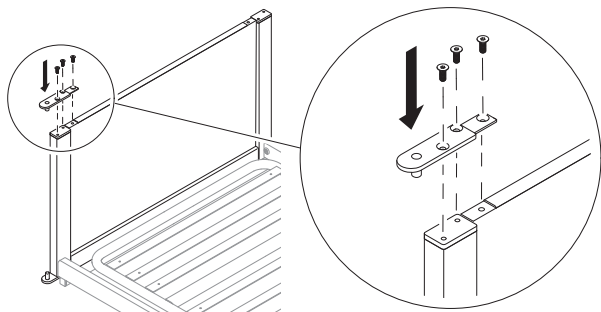
6.


NOTICE!

The bed end board with the hand control box attached must be placed at the foot end of the bed with the hand control box facing to the outside.

Insert the bed end board into the bed end frame onto the 2 pins.

7.



On one side of the bed temporarily install the plate to fix the bed end board to the bed end frame until a side rail has been mounted in the other side of the bed.



This is a temporary solution to hold the bed end board in place. As soon as side rail has been installed on the other side of the bed this plate can be removed again for the installation of the second side rail.

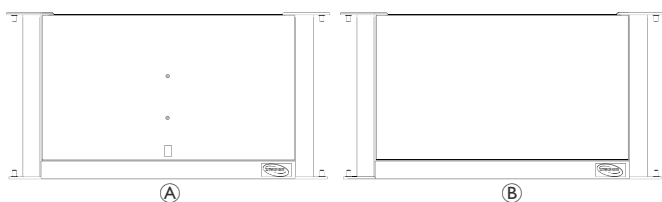
8. Repeat steps 1 to 4 on the other end of the bed.

3.2.1 Install Hand Control Box on Foot Side Bend End



Phillips head screwdriver

1. Select the correct bed end (A).



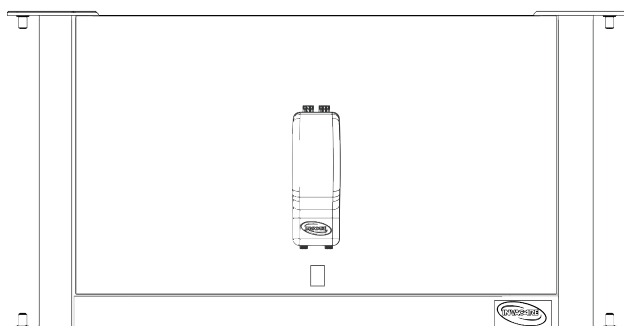
(A) Foot Side

(B) Head side



The foot side bed end features holes and a label on the wooden panel.

2.

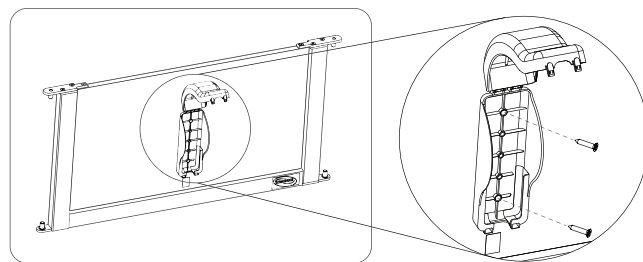


NOTICE!

Pay attention to the correct orientation of the hand control box.

- It must open towards the top.
- The logo on the box must be correctly oriented, as it must be facing the existing logo on the bed end.

3.



Install the hand control box on the foot side bed end by tightening the screws.

Make sure that the hand control box is secure.

3.3 Installing side rails

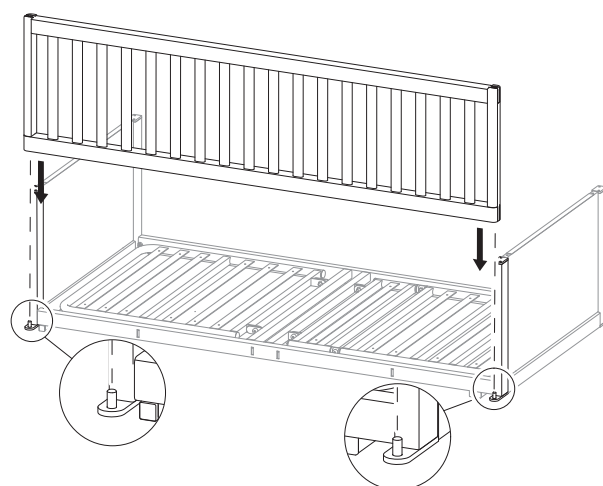
3.3.1 Installing the Fixed Side Rail



Torx key (T30 or X30)

Mounting

1.



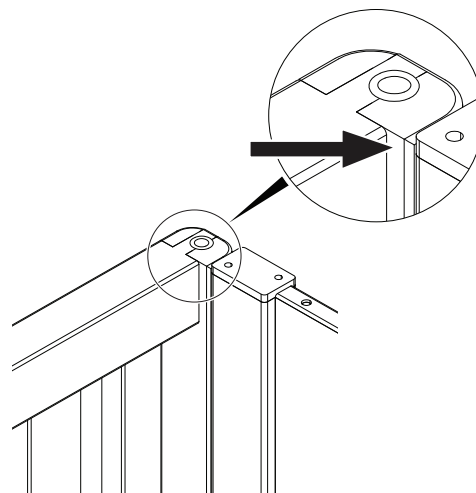
Place the side rail onto the pins on the bed end frames.



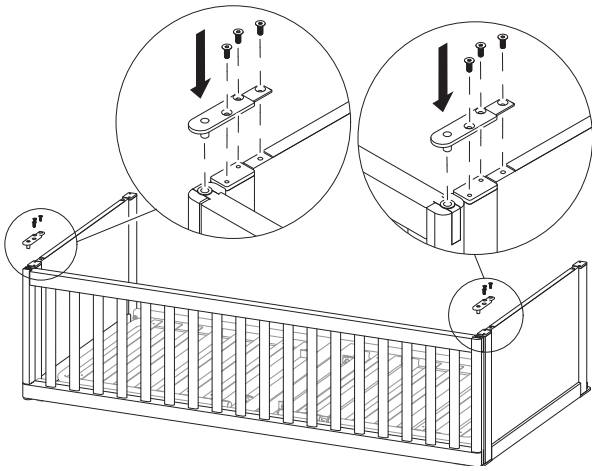
If the side rail does not fit onto the pins, an adjustment of the bed ends is required. See 3.4 *Adjusting Bed Ends*, page 9.



Ensure that the side rail is installed in the correct orientation as shown in the detail, with the narrower bar facing upward and the wooden step facing inward.



2.



On both ends of the bed, fix the side rail and bed end boards with the plate and the three screws.

3. Check the side rail for proper fitting and adjust the bed ends if required. See 3.4 *Adjusting Bed Ends*, page 9

Dismounting

Follow step 1 and 2 for mounting in reversed order.

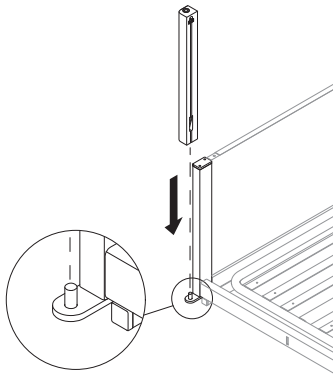
3.3.2 Installing the Lowering Side Rail



Torx key (T30 or X30)

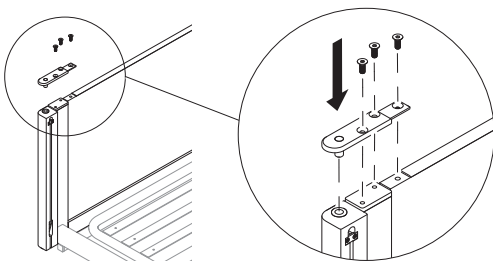
Mounting

1.



Place the pillar onto the pin on the bed end frames with the guideway facing towards the other end of the bed.

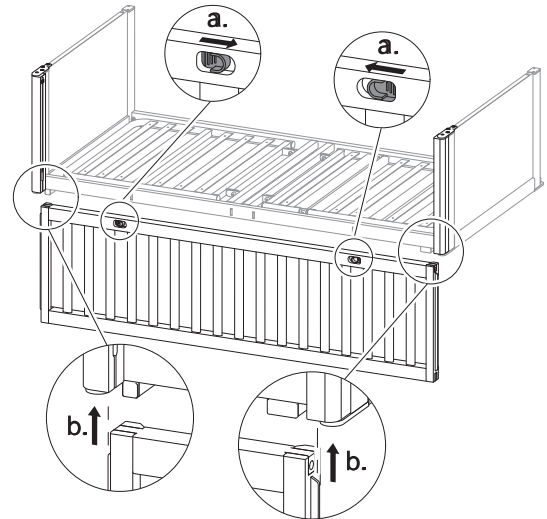
2.



Fix the pillar and bed end board with the plate and the three screws.

3. Repeat step 1 and 2 on the other end of the bed.
4. Raise the bed to the highest position.

5.



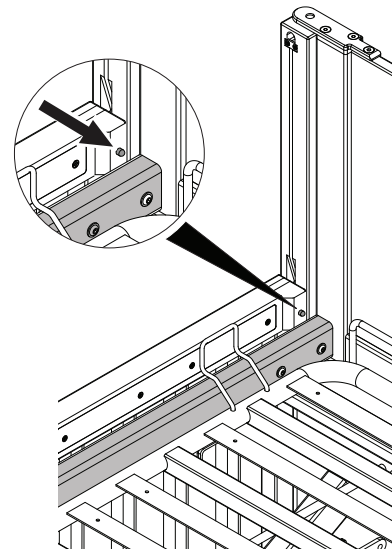
Push and hold the two latches towards each other and slide the side rail into the guideways of the pillars from below.

6. Check the side rail for proper fitting and function and adjust the bed ends if required. See 3.4 *Adjusting Bed Ends*, page 9

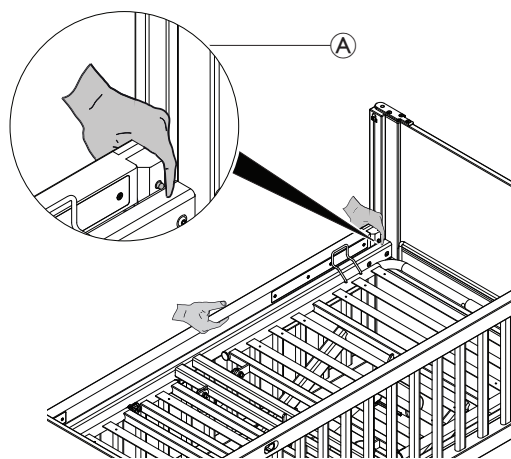
Dismounting

1. Raise the bed to its highest position and lower the side rail to its lowest position.
2. Proceed as follows according to the version of the lowering side rail:

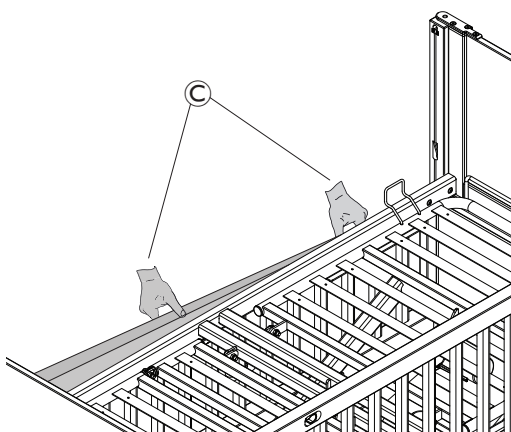
Version with visible plunger stopper



1) Push and hold the two latches and lower the side rail until the plunger stopper touches the mattress support platform.

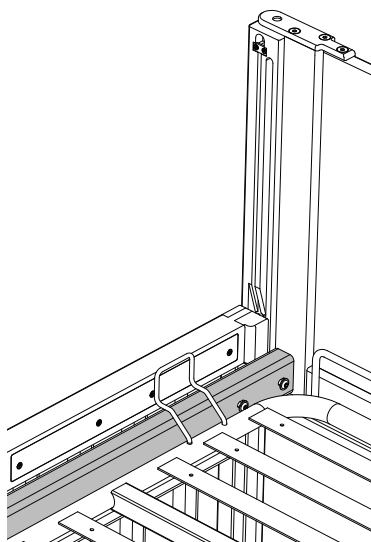


II) Hold the side rail with one hand and press the plunger stopper on one of the sides with the other hand (A).

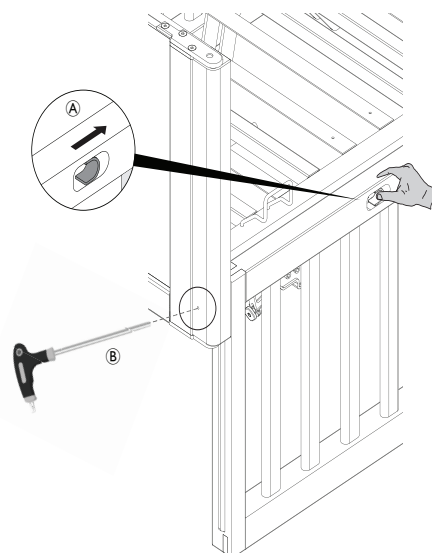


III) Remove the side rail (C).

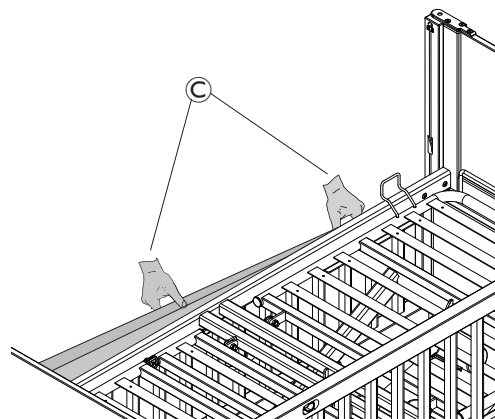
Version with hidden plunger stopper



Allen Key (3 mm)



I) Push one latch with one hand (A) and insert a 3 mm hex tool through the hole on the pillar with the other (B), to retract the plunger stopper.



II) Force the side rail down (C) and out of the pillars, first on one side, then the other.

3.3.3 Installing the Side Rail with Foldable Doors

Allen key (2.5 mm, 4 mm), Torx key (T30 or X30)

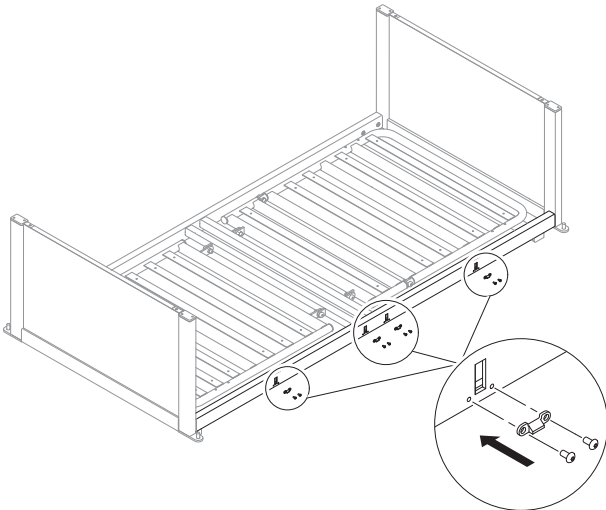


NOTICE!

- The side rail must be mounted and dismantled in its locked folded state.
- The four small wedges and the center wedge must always be mounted on the same side of the bed as the side rail with foldable doors.

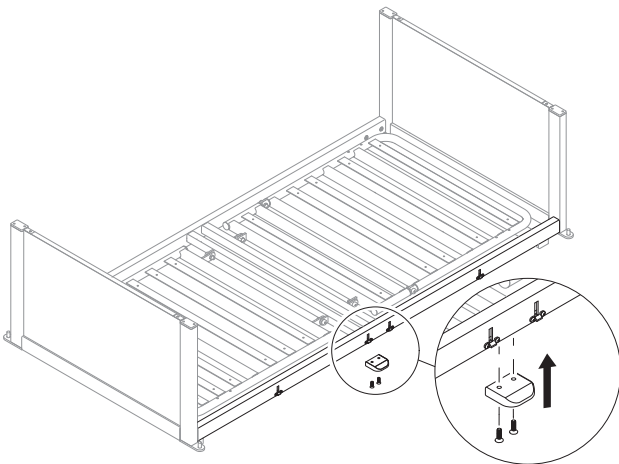
Mounting

1.



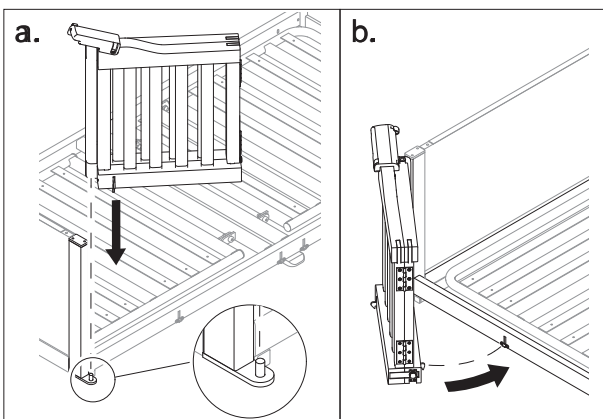
Fix a small wedge with two screws below each of the four slots on the lateral square tube of the mattress support platform.

2.



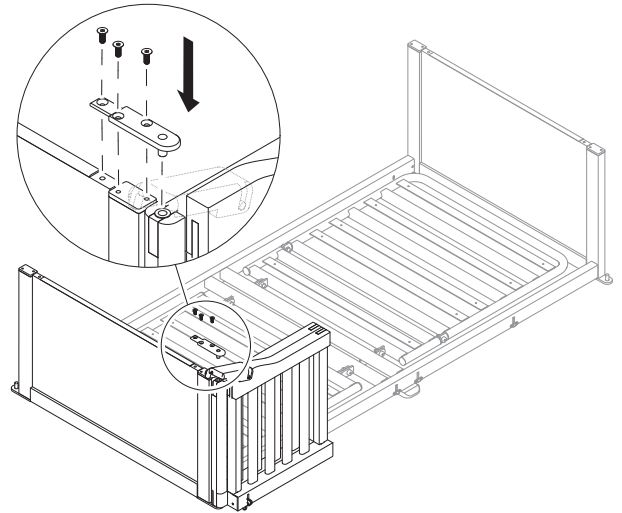
Fix the center wedge with two screws to the underside of lateral square tube of the mattress support platform.

3.



Place the side rail onto the pin on the bed end frame and close it, so it engages to the lateral square tube of the mattress support platform with an audible click.

4.



Fix the side rail and bed end boards with the plate and the three screws.

5. Repeat step 3 and 4 on the other end of the bed.

6. Check the side rail for proper fitting and function and adjust the bed ends if required. See [3.4 Adjusting Bed Ends](#), page 9

Dismounting

Follow step 1 to 4 for mounting in reversed order on both ends of the bed.

3.4 Adjusting Bed Ends



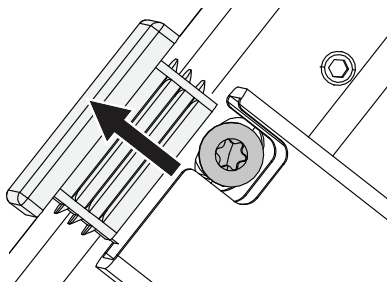
Allen key (3 mm, 4 mm), Torx key (T30 or X30)

During the installation of the side rails it might be required to adjust the angle between the bed end frame and the mattress support platform for proper fitting and function of the side rails.



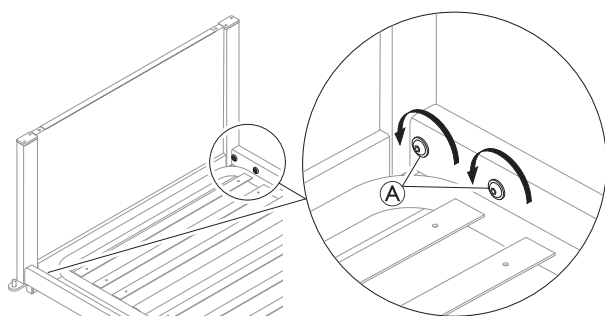
A tube cap must be removed from the foot end to access the angle adjustment screw **on size M beds**.

1.



Remove the tube cap to gain access to the screw bushing. Then insert the angle adjustment screw into the bed end.

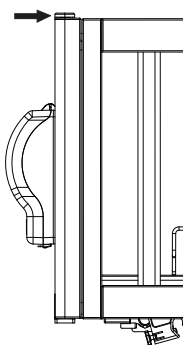
2.



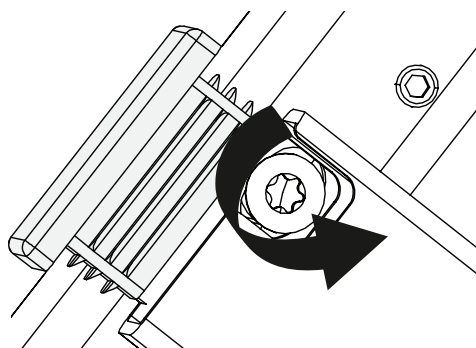
Slightly loosen screws A in each corner so the bed end frames are still stable but slightly adjustable in angle.

3. Proceed as follows according to the side rail type:

Fixed Side Rail

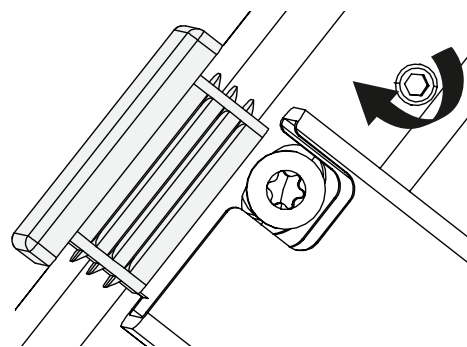


I) Push the bed end against the side rail to reduce any space between them.

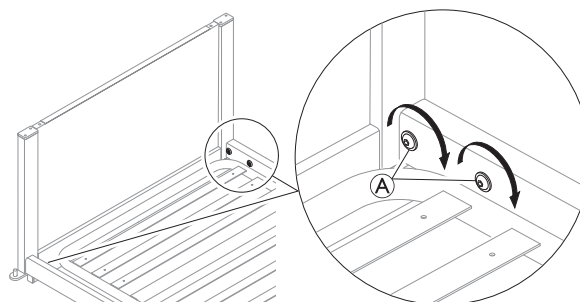


II) Turn the angle adjustment screw inside the top frame tube of the bed to change the angle.

 To close the angle between bed and bed end, the screw must be unthreaded. The opposite opens the angle.



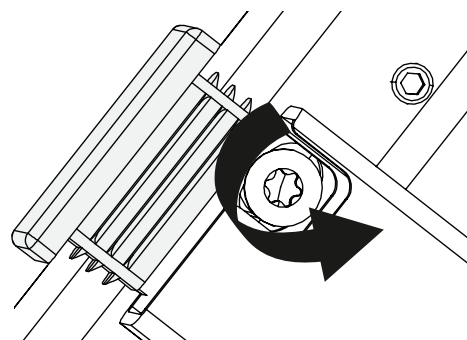
III) Tighten the grub screw until you feel resistance fully locking the angle.



IV) When the right angle is reached, fully tighten screws A in each corner of the bed.

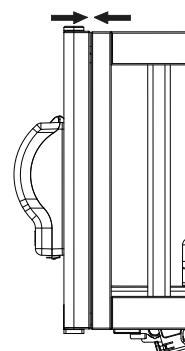
V) Put the tube cap back on.

Lowering Side Rail

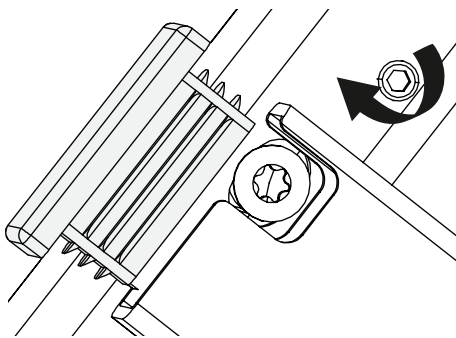


I) Turn the angle adjustment screw inside the top frame tube of the bed to adjust the gap between the bed end and the side rail.

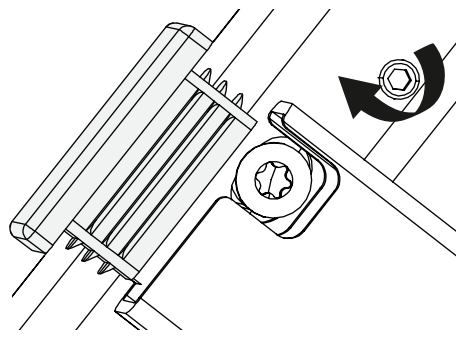
 To close the angle between bed and bed end, the screw must be unthreaded. The opposite opens the angle.



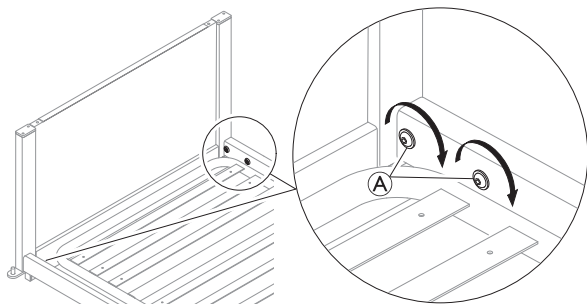
II) Raise and lower the side rail to find where it blocks and adjust the angle, if needed.



III) Tighten the grub screw until you feel resistance fully locking the angle.

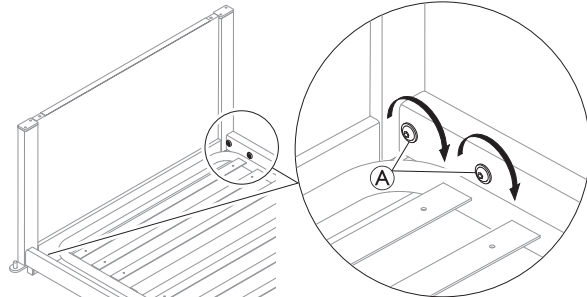


III) Tighten the grub screw until you feel resistance fully locking the angle.



IV) When the right angle is reached, fully tighten screws A in each corner of the bed.

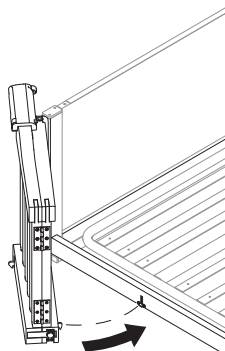
V) Put the tube cap back on.



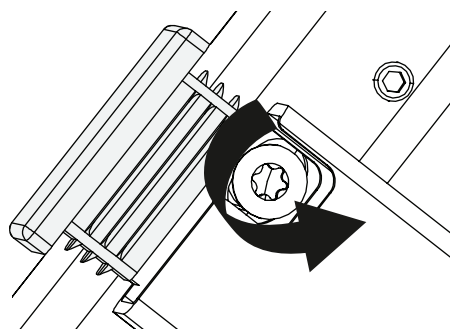
IV) When the right angle is reached, fully tighten screws A in each corner of the bed.

V) Put the tube cap back on.

Side Rail with Foldable Doors



I) Close both doors and adjust the angle so they do not hit the frame but still enter smoothly into the slots for the locks. This step may require a few attempts.



II) When the right angle is reached, turn the angle adjustment screw inside the top frame tube of the bed to adjust the gap between the bed end and the side rail.



To close the angle between bed and bed end, the screw must be unthreaded. The opposite opens the angle.

4 Transportation and Storage

4.1 Dismounting the Mattress Support Platform



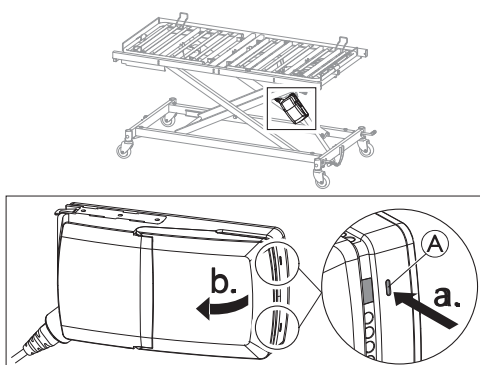
NOTICE!

Before dismounting:

- Ensure the brakes are engaged.
- At least two persons are needed to dismount the mattress support platform as it must be supported in both ends.

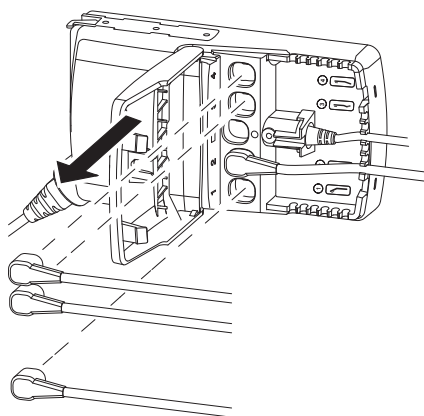
1. Raise the bed to its highest position and unplug the bed from the mains.

2.



Press in the two latches (A) on the control unit with a pointed object (e.g. screwdriver) and open the lid.

3.



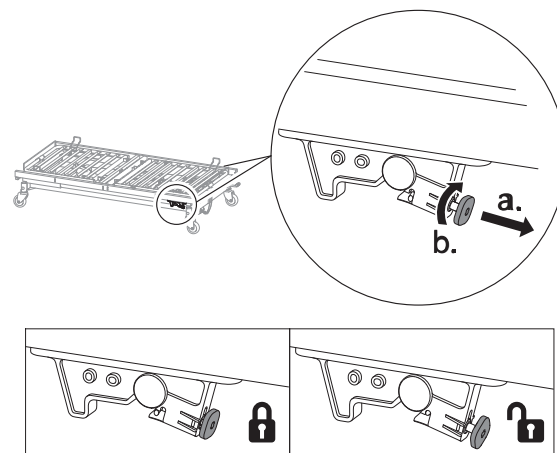
Unplug the cables of the mattress sections actuators from the control unit and close the lid of the control unit.



The number of actuator cables to unplug depends on the configuration of the bed. Do not unplug the cable of the height adjustment actuator and the hand control. See 5.4 Control Unit, page 16.

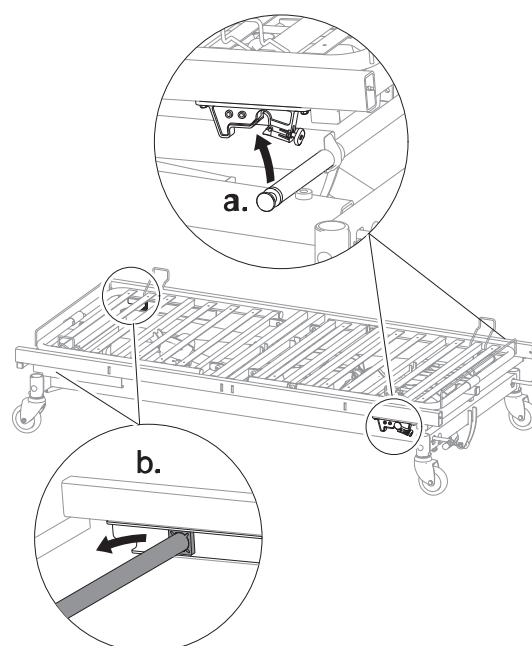
4. Connect the bed to the mains and lower it to its lowest position.

5.



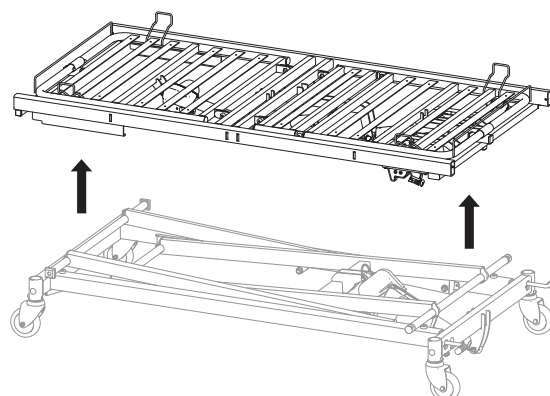
On both sides of the mattress support platform pull the red locking pin and turn it 45° clockwise to engage it in the unlocked position.

6.



- a. In the foot end, lift the mattress support platform off the lifting mechanism.
- b. In the head end, slide the lifting mechanism gliding blocks out of the guideways on the mattress support platform.

7.



Lift the mattress support platform off the base.

4.2 Mounting the Mattress Support Platform

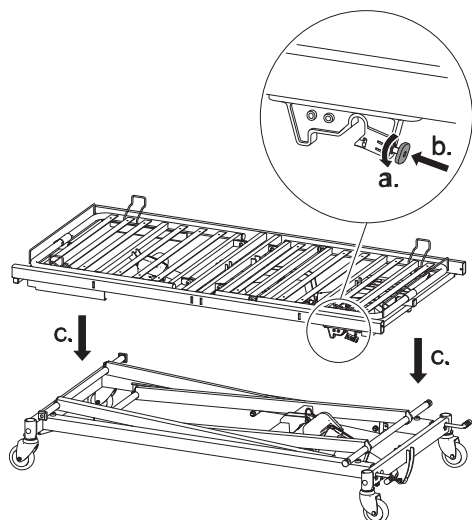


NOTICE!

Before mounting

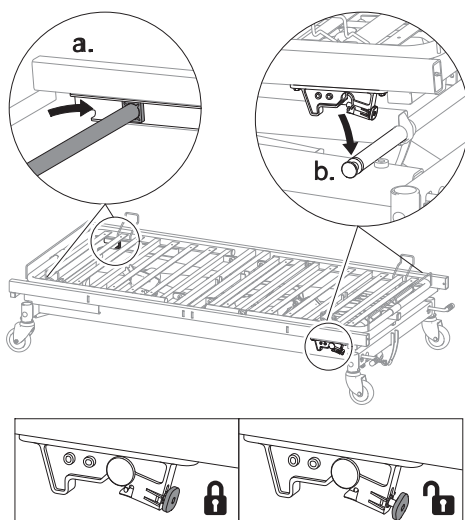
- Ensure the brakes are engaged.
- At least two persons are needed to mount the mattress support platform as it must be supported in both ends.

1.



On both sides of the mattress support platform turn the red locking pin by 45° counter-clockwise and let it engage in its locked position before lowering the mattress support platform onto the lifting mechanism.

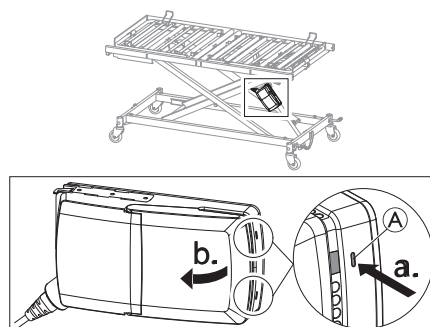
2.



In the head end, slide the lifting mechanism gliding blocks into the guideways on the mattress support platform and in the foot end lower the mattress support platform onto the lifting mechanism until it engages with an audible click.

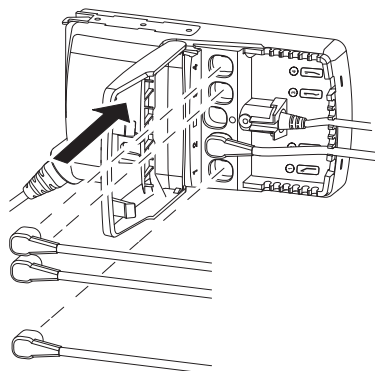
3. Connect the bed to the mains, raise it to the highest position and unplug the bed from the mains again.

4.



Press in the two latches **A** on the control unit with a pointed object (e.g. screwdriver) and open the lid.

5.



Plug in the cables of the mattress section actuators and close the lid of the control unit.



The number of actuator cables to plug in depends on the configuration of the bed. See 5.4 *Control Unit*, page 16.

5 Servicing

5.1 General servicing information

! NOTICE!

- The mattress support must be supported during service inspections, to prevent accidental lowering.
- Only personnel who have received the necessary instructions or training may perform service and maintenance of the bed.
- After reconditioning the bed, or if bed functions change, service must be carried out according to the check list.

A service contract can be made in the countries, where Invacare has its own sales company. In certain countries Invacare offers courses in service and maintenance of the bed. Spare parts lists and additional user manuals are available from Invacare.

Before Use

- Ensure that all manual and electrical parts functions correctly and are in a secure state.
- Check, by raising and lowering the bed, that the shear arms run smoothly in the guideways.

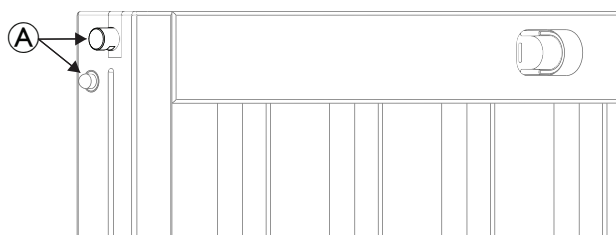
After three months

- Ensure that all manual and electrical parts are functioning, and tighten bolts, screws, nuts, etc.

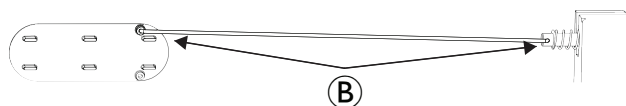
Every year

- We recommend a safety test comprising the actuators' performance and mechanical state.
- On the lowering side rail:

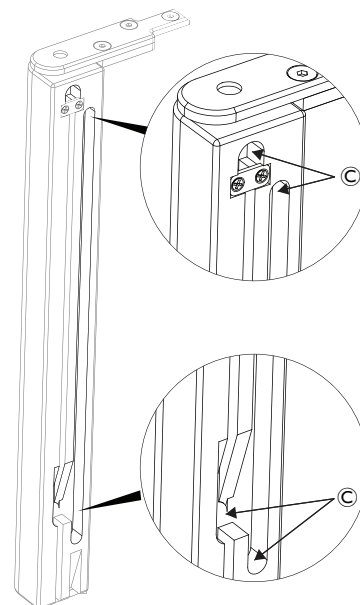
1. Check the locking pin and the plunger stopper ①.



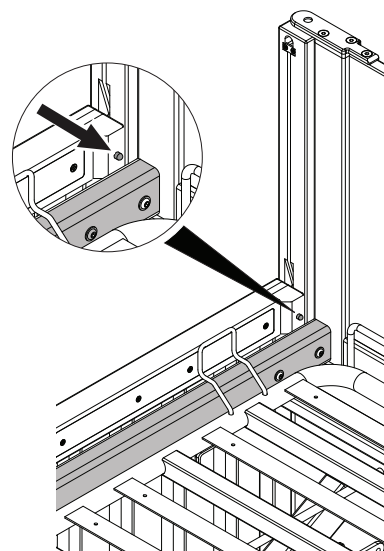
2. Check side rail release handles and its connection with the metal rod ②.



3. Check side rail stoppers (on the wooden pillars) ③.



4. In case the side rail features visible plunger stoppers, check if they are working properly.



Every second year

- We strongly recommend a service according to the below checklist after two years of normal use and then every second year.



Actuators, hand control and control unit are serviced by exchanging the faulty part.

5.1.1 Checklist - Maintenance

Checkpoints

- ☐ Circlips, cotter pins and plastic fixing ring - properly locked and intact.
- ☐ Screws - tightened.
- ☐ Weldings - intact.
- ☐ Check the guideways - no bending.
- ☐ Side rail locking and moving system - properly locking and running smoothly.
- ☐ Castor fittings - tightened.
- ☐ Castor brakes - locking properly.
- ☐ Height adjustment actuators - running properly.
- ☐ Mattress support section actuators - running properly.
- ☐ Cables - correctly wired and undamaged.

- ☐ Electric plugs - undamaged.
- ☐ Cable insulation and actuator housings – no cracks or damages.
- ☐ Damaged coating - repaired.
- ☐ Accessories - correctly assembled and correct function.

5.2 Inspection after relocation - Prepare for new user

- ! NOTICE!**
When the bed has been relocated; before given to a new user it has to be thoroughly inspected.
- Inspection must be done by a trained professional.
 - For regular maintenance see maintenance chart.

5.2.1 Checklist - After relocation

Checkpoints

- ☐ Check that the lifting mechanism is properly engaged in the lower pivoting points and guideways on the base.
- ☐ Check that the latches, locking the mattress support on the shear arms, are properly engaged (red button on the mattress support).
- ☐ Check the locking of the actuators (pipe pins correctly mounted).
- ☐ Check the electronic wiring for the actuators (cables not squeezed).
- ☐ Check that the enclosing of the actuators are intact (no cracks that enables fluids to pierce).
- ☐ Check that all cables are properly mounted on the control unit.
- ☐ Check the sections of the mattress support by using the hand control to activate all functions of the moving parts.
- ☐ Check the function of the brakes.
- ☐ Check that the bed end attachments are properly mounted (steady) and that the bed ends are securely attached.
- ☐ Check the locking function(s) of the side rails.

5.3 Cleaning and Disinfection

5.3.1 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.



NOTICE!

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.



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

5.3.2 Cleaning Intervals



NOTICE!

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

Clean and disinfect the product:

- regularly while 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.

5.3.3 Cleaning Instructions



NOTICE!

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

Cleaning by Hand

All components (excluding removable textiles)

- Cleaning agent: We recommend using a mild detergent with neutral or near neutral pH (5-9).
-  Commercially available consumer products like hand dishwashing liquid or all-purpose cleaners can be used. Read the instructions on the label of your cleaning agent and use it at the indicated concentration.

- Max. water temperature: 40 °C

1. Wipe surfaces thoroughly with a soft cloth slightly moistened with detergent solution until all visible soil is removed.
2. Remove all detergent residue with a clean damp cloth.
3. Wipe dry using a clean soft cloth.

Removable textiles (including upholstery and mattresses)

- See attached label on each product.

5.3.4 Disinfection Instruction

In Domestic Care

- Disinfectant: We recommend using an alcohol-based surface disinfectant (with 70-90% alcohol).

 Read the instructions on the label of your disinfectant. It provides information on the activity spectrum (bacteria, fungi and/or viruses), material compatibility and the correct exposure time.

- Ensure the surfaces are cleaned before disinfection.
- Moisten a soft cloth and wipe-disinfect all accessible surfaces and keep them moistened for the exposure time stated on the label of the disinfectant.
- Allow the product to air-dry.

In Institutional Care

Follow your in-house disinfection procedures and only use the disinfectants and methods specified therein.

5.3.5 Lubrication

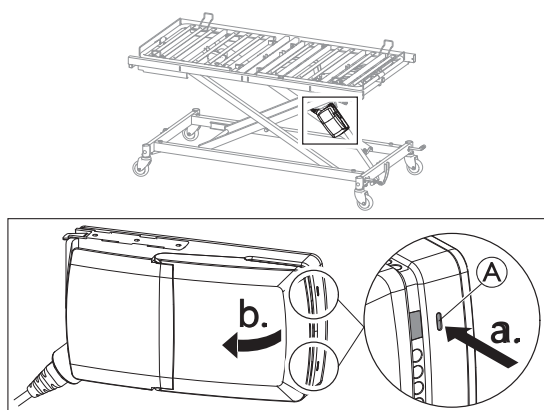
We recommend lubricating the bed according to the following table:

Part of bed	Lubrication method
Bearings for lifting- and shear arms	Oil (medically clean)
Motor suspension	Oil (medically clean)
Gliders and guideways	Grease
Axles and rolls for shear arm (axle must be dismantled)	Grease

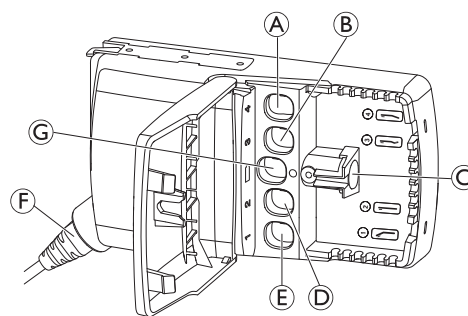
 For ordering of correct oil and grease, please contact your Invacare dealer.

5.4 Control Unit

The control unit is attached to the height adjustment actuator and is most conveniently accessed with the bed in its highest position.



To open the control unit: Press in the two latches **A** on the control unit with a pointed object (e.g. screwdriver) and open the lid.



The actuator sockets inside the control unit are labeled with symbols and colors, indicating where to connect the respective plugs.

- A** Leg section actuator
- B** Tight section actuator
- C** Hand control
- D** Height adjustment actuator
- E** Back section actuator
- F** Mains power cable
- G** not used

5.4.1 Resetting the control unit

 In case of fatal error on control unit, the orange light turns on and a buzzing sound is heard on the control unit when a button is pressed, and the bed does not move. To clear this error, the bed must be reset.

- To reset the bed, press Hi-Lo up and Hi-Lo down (second line of the hand control) simultaneously for 5 seconds.
After that, the orange light changes to green.



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Yes, you can.