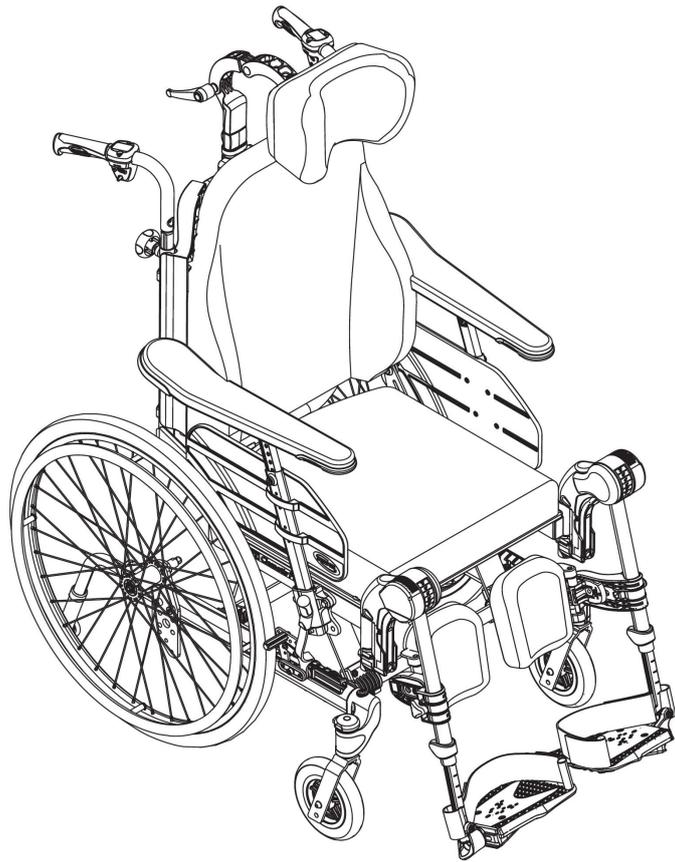


Rea® Clematis® Pro



en Manual wheelchair passive
Service Manual



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



Yes, you can.

©2020 Invacare Corporation

All rights reserved. Republication, duplication or modification in whole or in part is prohibited without prior written permission from Invacare. Trademarks are identified by [™]and [®]. All trademarks are owned by or licensed to Invacare Corporation or its subsidiaries unless otherwise noted.

Contents

1 General	4
1.1 Introduction	4
1.2 Delivery check	4
1.3 Symbols in This Manual	4
1.4 Limitation of Liability	4
2 Assembly	5
2.1 Placing the wires	5
2.1.1 Wires with backrest plate	5
2.2 Mounting the Drip stand	5
2.3 Mounting the attachment for table tray	6
2.4 Mounting the table tray	6
2.5 Mounting the half tray	6
2.6 Installing the Posture Belt for Positioning	6
2.7 Mounting anti-tipper	6
2.8 Assemble gas piston — Backrest and seat	7
2.8.1 Assembling the head of gas piston	7
2.8.2 Assembling gas piston to the chassis	7
2.8.3 Assembling wire for gas piston	7
2.9 Mounting the electrical system	8
2.9.1 Mounting the actuators	8
2.9.2 Mounting battery and control box	9
2.9.3 Electrical schedule	10
2.9.4 Charging the battery	10
3 Settings and Adjustments	12
3.1 Backrest plate	12
3.1.1 Adjusting the backrest plate height	12
3.1.2 Adjusting the tension of the adjustable soft backrest	12
3.1.3 Changing the backrest support	12
3.2 Positioning the headrest / neckrest to the front	12
3.3 Adjusting the rear wheel attachment	13
3.4 Castor attachment	13
3.4.1 Removing and Installing the Fixed Front Castors	13
3.4.2 Installing and Removing the Detachable Front Castors (if so equipped)	14
3.4.3 Adjusting the castor attachment	14
3.5 Mounting the trunk support	15
3.6 Adjusting the width of the table tray	16
3.7 Adjusting the seat depth	16
3.8 Adjusting the legrest width	16
3.9 Adjusting the leg rests	16
3.10 Brake attachment	16
3.11 Mounting the wire for the One arm brake	18
3.12 Mounting the One arm brake	18
3.13 Adjusting the brake effect	18
3.14 Mounting the drum brake	19
3.14.1 Drum brake for 600 mm (24") wheel	19
3.15 Drum brake — adjustments	20
4 Maintenance	21
4.1 Safety information	21
4.2 Maintenance Electrical Version	21
4.3 Cleaning and Disinfection	21
4.3.1 General Safety Information	21
4.3.2 Cleaning Intervals	21
4.3.3 Cleaning	21
4.3.4 Washing	22
4.3.5 Disinfection	22
4.4 Reconditioning	22
4.4.1 Checklist for reconditioning	25
5 After Use	26
5.1 Storage	26
5.2 Disposal	26
5.3 Reconditioning	26
6 Troubleshooting	27
6.1 Troubleshooting electrical system	27
7 Technical Data	28
7.1 Dimensions and Weight	28
7.2 Maximum weight of removable parts	29

7.3 Tyres	29
7.4 Materials	29
7.5 Environmental conditions	29
7.6 Electrical system — Models equipped with electric tilt and backrest	30
7.7 Seat height tables	30
7.7.1 Clematis Pro	30

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.

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 Delivery check

Any transport damage must be reported immediately to the transport company. Remember to keep the packaging until the transport company has checked the goods and a settlement has been reached.

1.3 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.



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.

1.4 Limitation of Liability

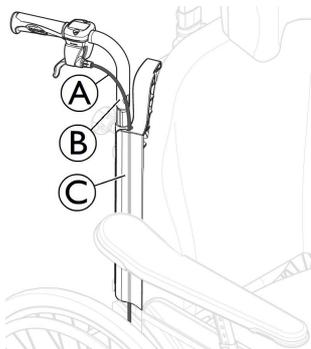
Invacare accepts no liability for damage arising from:

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

2 Assembly

2.1 Placing the wires

2.1.1 Wires with backrest plate



1. Thread the wires **A** on the outside of the backrest tubes **B**.
2. Place the wires in the backrest plate **C** in order to hold them in place.

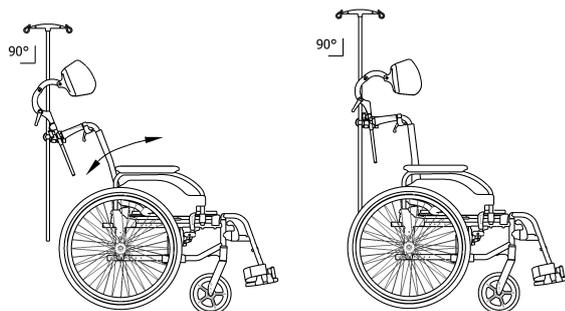
 Fold the slack of the wires **A** under the seat to get them out of the way.

2.2 Mounting the Drip stand

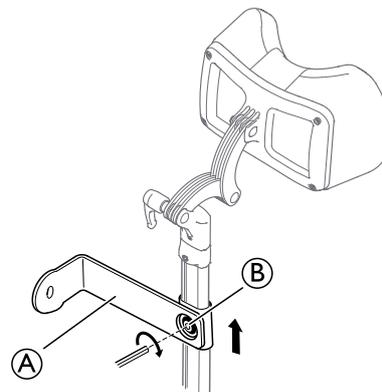


WARNING!
Risk of tipping / injury
 – Max load on the drip stand: 4 kg (2 x 2 kg).

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



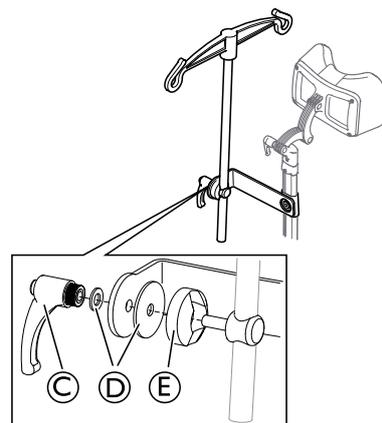
1.



Mount the holder for the drip stand **A** on the neckrest holder and tighten the screw **B**.

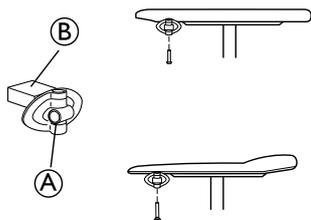
 5 mm Allen key

2.



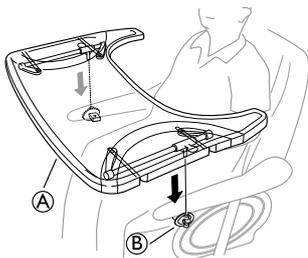
Mount the lever **C**, the washers **D** and the holder with the drip stand **E** in the attachment and tighten the lever.

2.3 Mounting the attachment for table tray



1. Mount the table attachment **A** with the attachment part facing outwards. The plain surface **B** of the attachment should be placed upwards when using the table on these armrests.

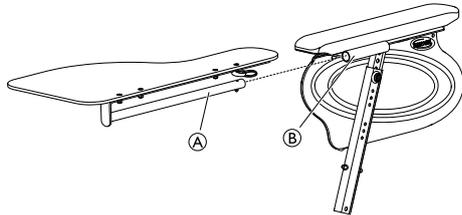
2.4 Mounting the table tray



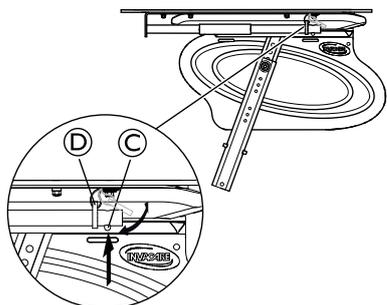
Mount the table tray **A** in the table tray attachments **B**.

2.5 Mounting the half tray

Mounting the half tray



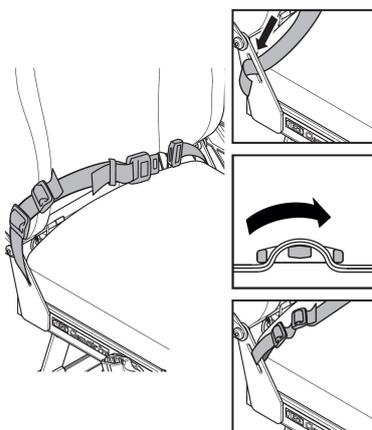
1. Insert the tube of the half tray **A** into the attachment **B** under the arm pad.



2. Push on the push pin **C** and insert the ring **D** on the tube **A**.
3. Release the push pin **C**.

2.6 Installing the Posture Belt for Positioning

- i** Belts/harnesses which are CE-marked for the purpose of using on wheelchairs, can be mounted on the chair with preserved CE-marking. The belt/harness should be fitted by the responsible prescriber and be mounted by a qualified technician. However, when transporting the wheelchair in a vehicle, Invacare's original posture belt must be used in addition to, but never as a substitute for an approved passenger restraint system (3-point belt)!
- i** The purpose of using the posture belt as a positioning help is to position the user and to give him / her a better posture.



2.7 Mounting anti-tipper



WARNING!

Risk of tipping

If the locking mechanism of the anti-tipper is not fully engaged, the anti-tipper can become loose during use. The wheelchair can tip backwards.

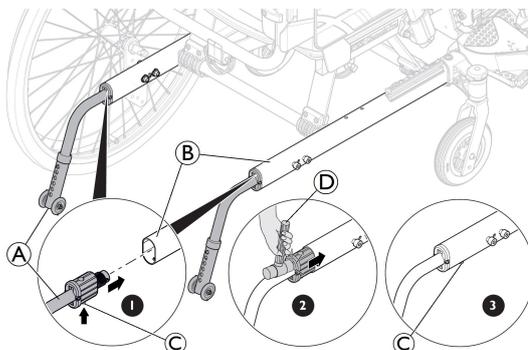
- Always ensure that the anti-tippers are fully engaged whenever you install an anti-tipper.



WARNING!

Risk of tipping

– Maximum height from floor to anti-tipper is 40 mm. Min. height from floor to anti-tipper is 15 mm.



1. Press the locking mechanism **C** under the anti-tipper bracket **A**.
2. Keep it pressed and push the anti-tipper **A** in the chassis frame **B**.

- Use a rubber mallet **D** to insert the anti-tipper **A** in the chassis frame **B**.



CAUTION!
Damage on the anti-tipper tube

- Do not use the rubber mallet on the anti-tipper tube, only on the top of the anti-tipper bracket.

- Ensure button of the locking mechanism **C** protrudes fully through chassis frame hole.
- Make sure there is an audible click, so the anti-tipper **A** is perfectly locked.

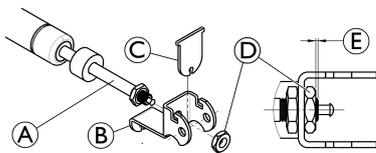
2.8 Assemble gas piston — Backrest and seat



WARNING!
Safety risk

- The wheelchair may collapse
- Be careful when removing the safety pins for the backrest or seat gas pistons.
 - Always reinsert and fasten the safety pins or the safety shackle when they have been removed.
 - Check that the safety pins or the lock shackle / loop is securely locked.

2.8.1 Assembling the head of gas piston



- Place the gas piston attachment **B** on the head of the gas piston **A**.
- Adjust the head distance **E** to 1 mm +/- 0.5 mm as shown on the picture.
- Tighten the low nut **D** with 16 Nm.
- Insert the wire level **C** to the gas piston attachment **B**.
- Assemble the gas piston to the front and rear attachment.
- Install the wire to the wire level **C** and the gas piston attachment **B**.

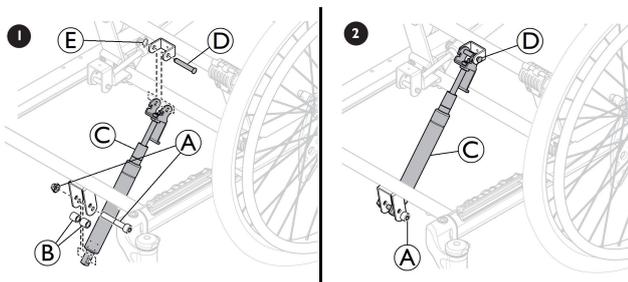
See section “Assembling the wire for gas piston” for more information.



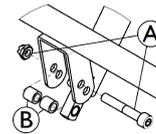
15 mm socket wrench

2.8.2 Assembling gas piston to the chassis

Standard seat tilt (0° to 25°)



Declive seat tilt (-3° to 22°)

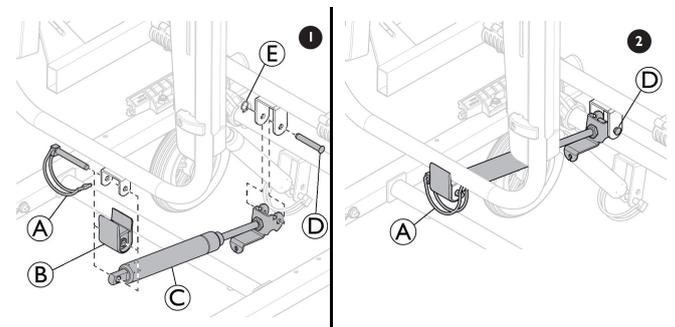


- Assemble the gas piston **C** to the front and the rear attachment.
- Attach the gas piston with the safety pin **C** and the spring locking washer **D** to the rear attachment.
- Fixate the gas piston with the screw, locking nut **A** and the two spacers **B** to the lower front attachment (Standard seat tilt: 0° to 25°) or the upper attachment (Declive seat tilt: -3° to 22°).
- Tighten the screw and locking nut **A** until play is removed. Do not overtighten the assembly.



Nippers / 5 mm Allen key / 13 mm fixed spanner

Backrest



- Assemble the gas piston **C** to the front and the rear attachment.
- Attach the gas piston with the safety pin **D** and the spring locking washer **E** to the front attachment.
- Fixate the gas piston with the safety shackle **A** to the rear attachment **B** on the backrest.



Nippers

2.8.3 Assembling wire for gas piston



- Place the wire **A** as shown on the picture.
- Make sure that the wire is fully stretched, straight backwards.
- Place the wire in the attachment.
 - There should not be any distance between the wire end **C** and the front part of the attachment.
- Attach the wire to the chassis with an attachment clip.
- Fixate the wire with the nuts **B**.
 - Both nuts should be touching the wire attachment.
- Tighten the nuts.



10 mm fixed spanner

2.9 Mounting the electrical system



WARNING!

Risk of injury

- Make sure that all parts are disconnected from the power source.



CAUTION!

Risk of short circuit

- Be aware of electrostatic discharge (ESD) when working on electrical parts.

2.9.1 Mounting the actuators



WARNING!

Risk of injury

The wheelchair may collapse

- Check that the locking washers are securely locked.
- If the safety pin is used, make sure that the lock shackle / loop is securely locked.

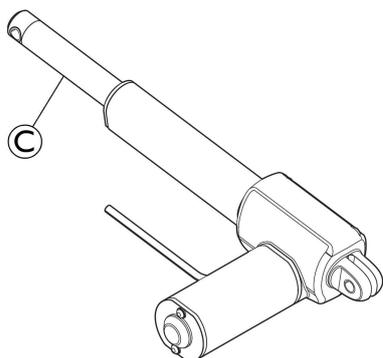


WARNING!

Safety risk

The wheelchair may collapse

- Remember to always reinsert and fasten the safety pin when it has been removed.
- Check that the lock shackle / loop is securely locked.



WARNING!

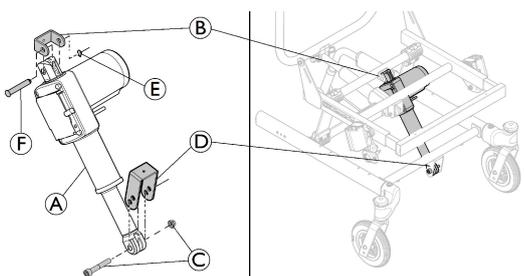
Electrical version

The backrest may come loose if the piston rod is accidentally detached from its housing.

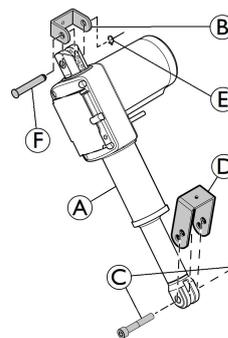
- Before attaching the piston to the backrest, turn the piston rod © maximum clockwise.
- When aligning the holes, only turn the piston rod © maximum a half turn counterclockwise.

Mounting the seat tilt actuator

Standard seat tilt (0° to 25°)



Declive seat tilt (-3° to 22°)

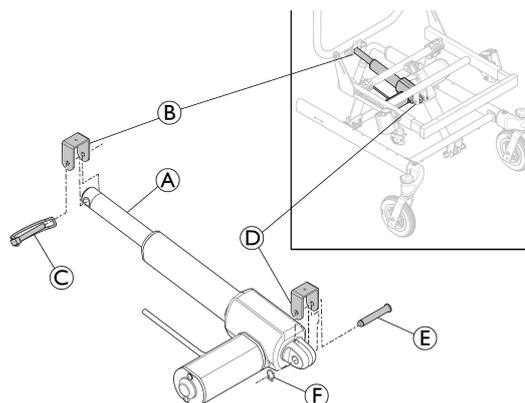


1. Place the upper part of the seat tilt actuator A in the attachment B on the frame.
2. Attach the seat tilt actuator with the pin F and the locking washer E.
3. Place the lower part of the seat tilt actuator A to the front attachment D on the frame, lower position (Standard seat tilt: 0° to 25°) or upper position (Declive seat tilt: -3° to 22°).
4. Tighten the screw and locking nut C until play is removed. Do not overtighten the assembly.



Nippers / 5 mm Allen key / 13 mm fixed spanner

Mounting the backrest actuator

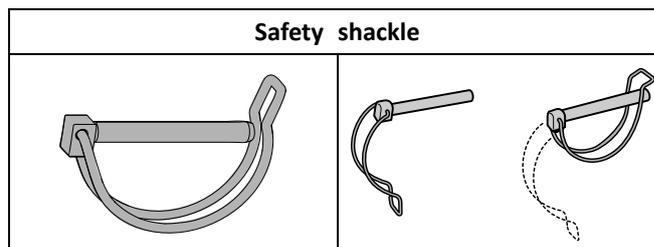


1. Place the upper part of the backrest actuator A in the attachment B on the backrest frame.
2. Attach the backrest actuator with the safety shackle C in the hole of the attachment.
3. Place the lower part of the backrest actuator A in the lower attachment D on the frame.
4. Attach the lower part with the pin E and the locking washer F.



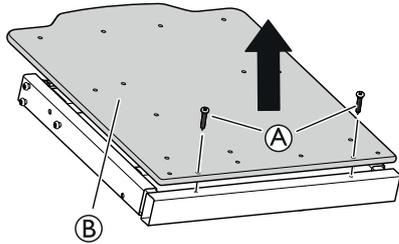
Nippers

Locking the safety shackle

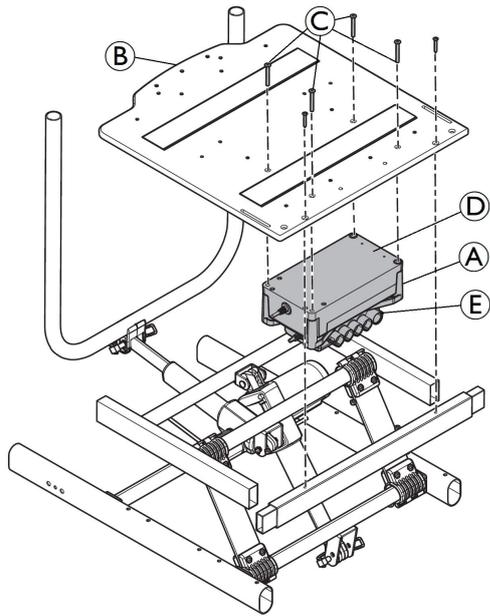


2.9.2 Mounting battery and control box

-  When changing the battery, the hand control cable needs to be connected for at least 10 seconds to be able to indicate the levels of the new battery.

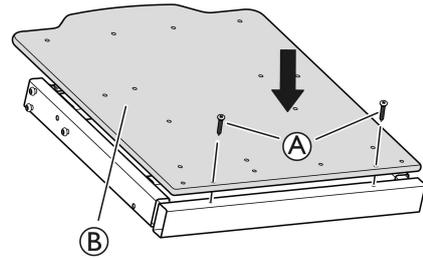


1. Loosen and remove the screws (A) and the seat plate (B).



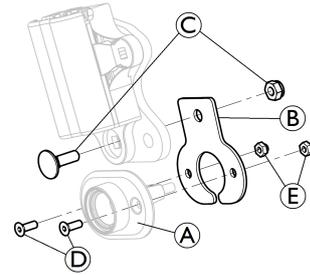
1. Mount the battery / control box holder (A) with the battery (D) on the seat plate (B).
2. Tighten firmly the four bolts (C) to fix the holder (A) with its battery (D).
3. Slide the control box and connector sockets (E) under the holder (A).

-  See section "Electrical schedule" for more information about how to connect the cables.



1. Re-mount the seat plate (B).
2. Tighten firmly the two screws (A).

Mounting the charger socket



1. Install the charger socket bracket (B) on the armrest holder.
2. Tighten the bolts (C) to fix the bracket.
3. Install the charger socket holder (A) on its bracket under the armrest holder.
4. Tighten the 2 screws (D) and nuts (E) to fix the holder.
5. Connect the mains cable extension to the power connection box.

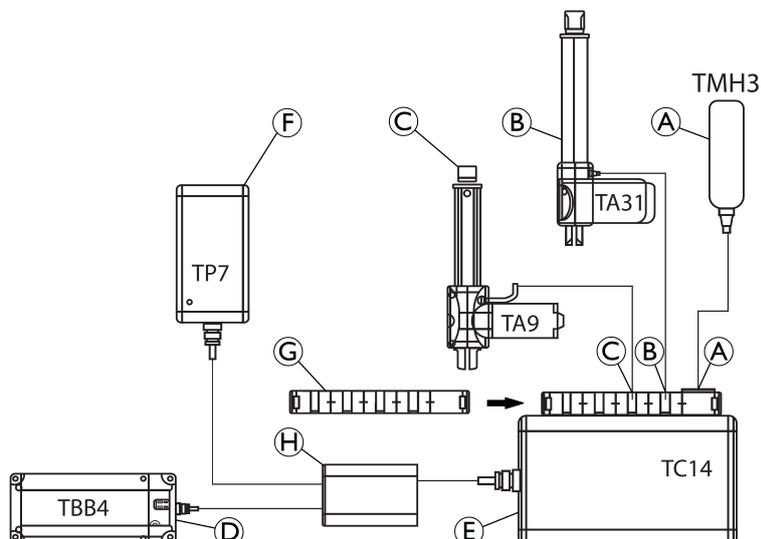


WARNING!

Damage to the battery cable

- Make sure to fasten the cables in a way that keeps the cables from being squeezed or stretched.
- Check that the cables run freely when using the tilt and/or recline function,

2.9.3 Electrical schedule



- (A) Hand control (TMH3)
- (B) Seat tilt actuator (TA31)
- (C) Backrest recline actuator (TA9)
- (D) Battery (TBB4)
- (E) Control box (TC14)
- (F) Wall charger (TP7)
- (G) Plugs lock
- (H) Power connection box



CAUTION! Risk of malfunction

The system may not work properly

- Connect all functions before connecting the mains cable.
- Connect the hand control first. The connection plug is marked with “PASSED”.
- Connect the different actuators according to the schedule above.
- Check that all plugs are well connected and firmly pushed into their connection sockets.
- Check that the plugs lock is fully engaged in order for the cables to be secured in the control box.
- Connect the battery.
- Connect the mains cable and turn on the power.
- Control box must only be connected to the main voltage specified on the label. See section “Electrical System”, chapter “Technical Data”, for more information.
- Ensure that the cables are not trapped, tensed or exposed to sharp objects when using the system.

2.9.4 Charging the battery



Damage to the battery

- The battery must be charged 24 hours before using the system the first time.
- Unplug the mains cable after charging and before using the wheelchair.



The battery charger has different charging cables in order to adapt to different local electrical standards.



When the battery level is low (20 %), the system beeps when it is in use.

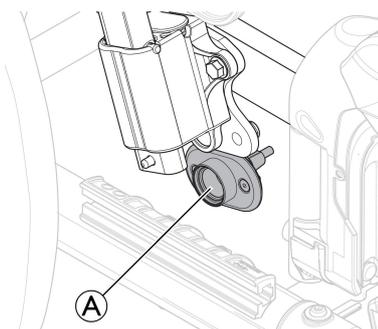
Connect charger cable



CAUTION!

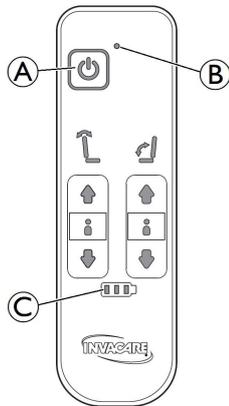
Damage to the cables.

- Do not sit in the wheelchair while charging the battery.



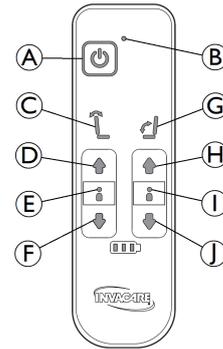
1. Insert the charger magnetic plug into the charger socket (A) which is located under the armrest holder.
2. Connect the charger power cable into a wall socket.
3. Unplug the power cable first when the battery is fully charged.

Hand control — Battery indications



- (A) On/Off button
- (B) green light Hand control is activated
- (C) green light Battery level is high (above 60%)
- green light flashing Battery is charging (5 beeps indicate the battery is fully charged)
- green light Battery level is 40% to 60%
- green light Battery level is low, 20% to 40%
- red light flashing Battery level is very low (below 20%)
 The battery needs to be charged

Hand control — Locking Recline and Tilt functions



- (A) On/Off button
- (B) Green light Hand control is activated
- (C) Backrest recline Yellow buttons
- (D) Up Button
- (E) No light (recline not locked) Red light (recline locked)
- (F) Down button
- (G) Seat tilt Green buttons
- (H) Up Button
- (I) No light (tilt not locked) Red light (tilt locked)
- (J) Down button

Lock / Unlock Recline function

1. To lock the function, press simultaneously Up (D) and Down (F) buttons during three seconds.
2. The backrest recline function is locked.
3. Light (E) is red.
4. To unlock the function, press simultaneously Up (D) and Down (F) buttons during three seconds.
5. The backrest recline function is unlocked. Light (E) turn off.

Lock / Unlock Tilt function

1. To lock the function, press simultaneously Up (H) and Down (J) buttons during three seconds.
2. The seat tilt function is locked.
3. Light (I) is red.
4. To unlock the function, press simultaneously Up (H) and Down (J) buttons during three seconds.
5. The backrest recline function is unlocked. Light (I) turn off.

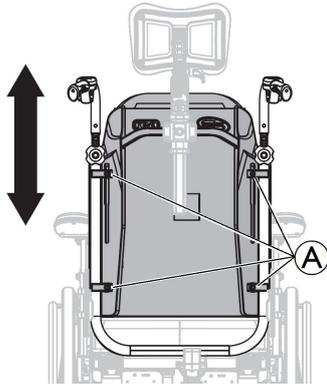
i If the Recline (C) and / or Tilt (G) functions are locked before power button is Off, the lights (E) and/or (I) stays red after power button is On again.

3 Settings and Adjustments

3.1 Backrest plate

3.1.1 Adjusting the backrest plate height

- !** **Risk of damage**
 Poor functionality on the backrest.
 – Any adjustments made to the backrest should be evaluated by a trained personnel.



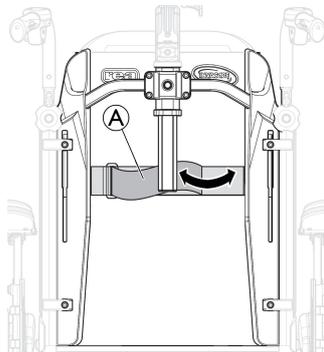
You can easily adjust the backrest plate (+130 mm).

1. Loosen the four screws **A**.
2. Set the backrest plate to the required height.
3. Re-tighten firmly the four screws **A**.

 5 mm Allen key

3.1.2 Adjusting the tension of the adjustable soft backrest

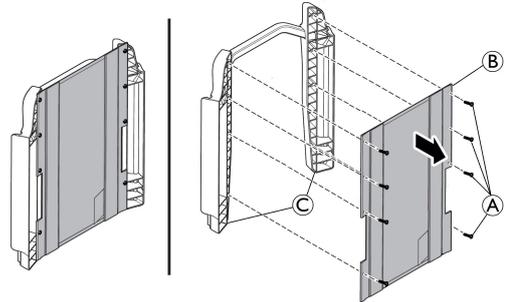
- !** **Risk of uncomfortable posture**
 The tension adjustment of the soft backrest can be uncomfortable for certain users.
 – Do not over-tighten the strap, the appropriate tension should be evaluated by a trained personnel.



1. Loosen the hook and loop strap **A** on the rear of the soft backrest by simply pulling on it.
2. Tighten or loosen the strap as required then reattach it.

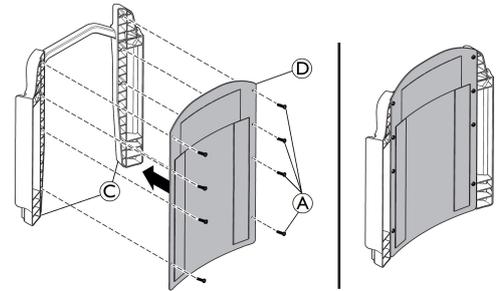
3.1.3 Changing the backrest support

- !** **Risk of uncomfortable posture**
 The functionality of the rigid plate or the soft backrest can be uncomfortable for certain users.
 – The choice of the appropriate backrest should be evaluated by a trained personnel.



You can easily change the backrest support, from a soft fabric canvas to a rigid plate and vice versa.

1. Loosen the eight screws **A**.
2. Remove the current backrest support **B** from the backrest plate **C**.

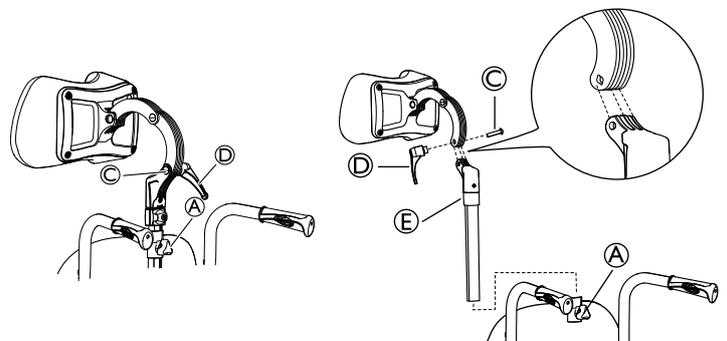


3. Set the new backrest support **D** to the backrest plate **C**.
4. Re-tighten firmly the eight screws **A**.

 T25 Torx screw driver

3.2 Positioning the headrest / neckrest to the front

- i** This additional depth adjustment will move the headrest another 7 cm forward.



- i** You can also adjust the angle and depth by turning the attachment for the headrest / neckrest.

1. Loosen the handwheel **A**.
2. Remove the headrest / neckrest.
3. Loosen the handle **D**.

4. Remove the screw and the handle.
5. Rotate the headrest / neckrest attachment pole including the attachment (E).
6. Return the headrest / neckrest to the attachment.

 Note that the screw to the headrest / neckrest attachment (C) and the handle (D) must be mounted on the opposite side due to the grooves in the screw hole.

7. Return the headrest / neckrest to the attachment on the backrest.
8. Re-tighten the handle (D) and the handwheel (A).

3.3 Adjusting the rear wheel attachment



CAUTION! Risk of tipping

When options are mounted on the back of the wheelchair the tip risk increases.

- When options are mounted on the back of the wheelchair, the standard position should be used.



WARNING! Safety risk

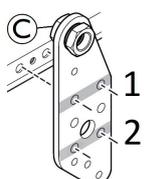
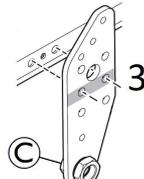
– When you have fitted the wheels in the correct position, it is important that you check thoroughly that the nuts and screws are tightened securely. This is important for your own safety!



WARNING! Risk of tipping

The risk of tipping increases when the rear wheels are moved forward.
– Always use anti-tip devices.

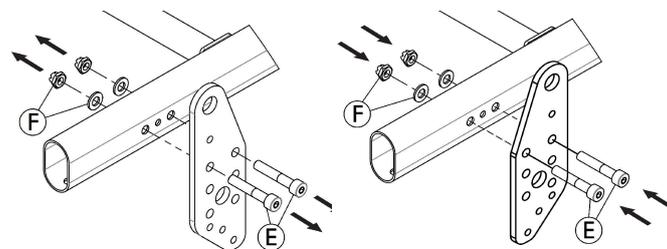
Standard Positions

A Standard Position = 600 mm (24") wheels	B Standard Position = 305 mm (12") wheels
	

1. Seat height 450 mm for 600 mm (24") rear wheels
2. Seat height 400 mm for 600 mm (24") rear wheels
3. Seat height 450 mm for 305 mm (12") rear wheels

Change from Standard to Active Position

Only for 600 mm (24") rear wheels



1. Loosen and remove the screws (E) and the nuts (F) from the rear wheel attachment.
2. Reverse right and left rear wheel attachments.
3. Flip vertically the rear wheel attachment to Active position on both sides.
4. Re-mount the rear wheel attachment to the opposite side. Re-mount the screws (E) and the nuts (F).
5. Re-tighten the nuts with 22 Nm.

Change the Seat Heights

Only for 600 mm (24") rear wheels



See "Seat height tables" in section "Technical data" for a more detailed information.

1. Loosen and remove the screws and the nuts from the rear wheel attachment.
2. Move the rear wheel attachment to desired height position 1 or 2 on both sides.
3. Re-mount the rear wheel attachment to the opposite side. Re-mount the screws and the nuts.
4. Re-tighten the nuts with 22 Nm.



5 mm Allen key /13 mm fixed spanner



Rear wheel can come loose

– Tighten the rear wheel nut (C) with 40 +/- 5 Nm



24 mm fixed spanner

3.4 Castor attachment

3.4.1 Removing and Installing the Fixed Front Castors



WARNING! Risk of overturning

If a front castor is not properly assembling, the front castor can become loose during use. This can lead to overturning.

- Always ensure that the front castors are properly assembling whenever you install a front castor.

Removing the fixed front castors

1. Remove the castor knob.
2. Loosen and remove the nut and the two spacers.
3. With one hand, hold the wheelchair upright.
4. With the other, remove the front castor out of the castor axle bracket.



19 mm fixed spanner

Installing the fixed front castors

1. With one hand, hold the wheelchair upright.
2. With the other, push the castor axle into the castor axle bracket up to the stop.
3. Install the two spacers and tighten the nut with 40 +/- 2 Nm.
4. Make sure that the front castor axle is properly assemble.
5. Install the castor knob.

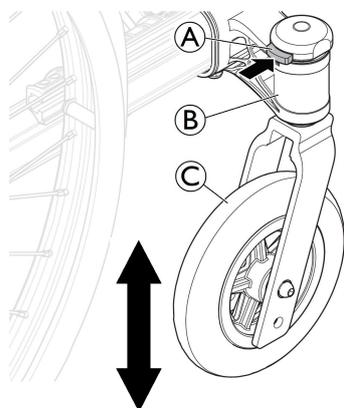
3.4.2 Installing and Removing the Detachable Front Castors (if so equipped)



WARNING!

Risk of overturning

If the locking mechanism of a front castor is not fully engaged, the front castor can become loose during use. This can lead to overturning.
 – Always ensure that the front castors are fully engaged whenever you install a front castor.



Installing the front castors

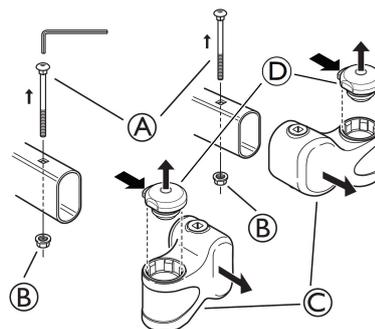
1. With one hand, hold the wheelchair upright.
2. With the other, push the castor axle into the castor axle bracket B up to the stop.
3. Make sure there is an audible click and ensure that the front castor C is secure.

Removing the front castors

1. With one hand, hold the wheelchair upright.
2. With the other, using your thumb, press the locking mechanism A in top of the castor axle bracket B.
3. Keep it pressed and pull the front castor C out of the castor axle bracket B .

3.4.3 Adjusting the castor attachment

1.

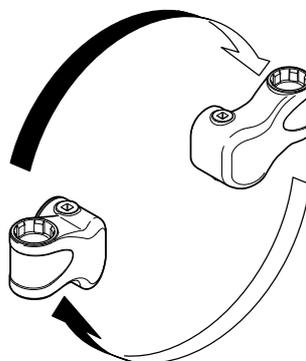


- a. Loosen and remove the screws A and the nuts B. Remove the castor attachment C on both sides.
- b. Remove the locking mechanism D and the lower bearings on both sides, for detachable version only.



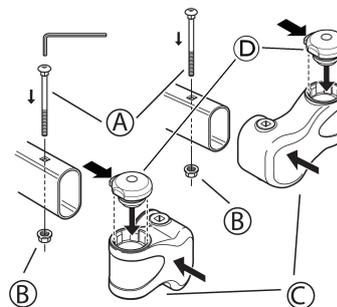
4 mm Allen key /10 mm fixed spanner

2.

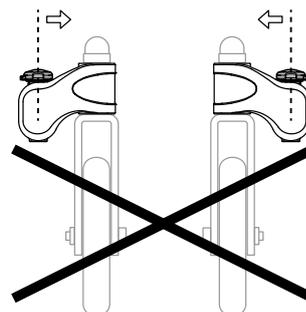


Turn the castor attachment and switch sides.

3.



- a. Re-mount the turned castor attachment C to the opposite d side. Re-mount the screws A and the nuts B with 9 Nm.
- b. Insert the bearings in the lower position and strongly engage the locking mechanism D to the opposite side, for detachable version only.



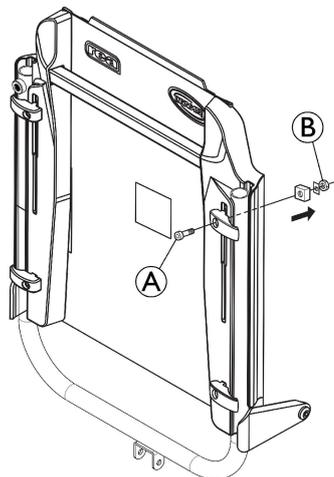


WARNING!
Risk of tipping

– Make sure that the castor attachments are mounted, correctly, the castors must be placed on the outside of the frame. If the castor attachments are turned, they must be mounted to the opposite side, with the castors facing outwards.

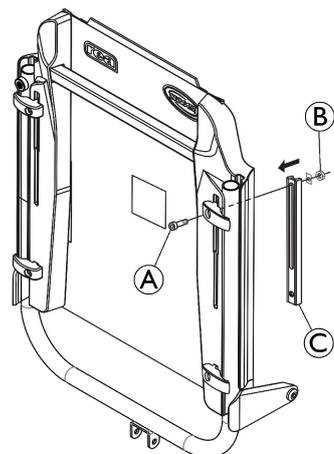
3.5 Mounting the trunk support

1.



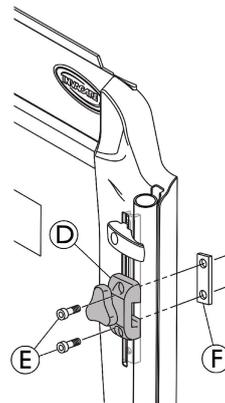
Loosen the screws **A** and remove the locking nuts **B**.

2.



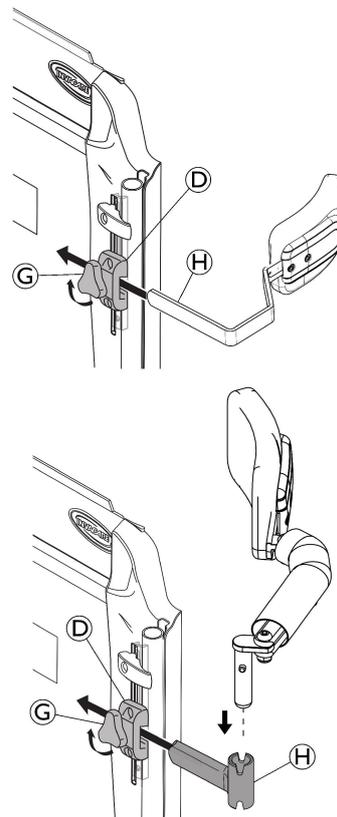
Mount the trunk support bar **C** with the screws **A** and the washers and nuts **B**.

3.



Mount the trunk support holder **D** with the screws **E** and the attachment washer **F**.

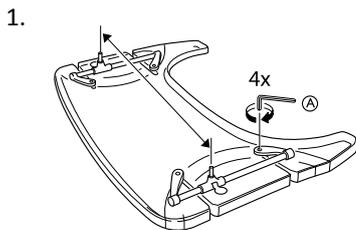
4.



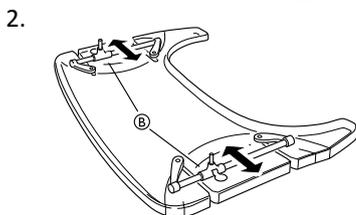
Mount the trunk support with Fixed or Swing-away arm **H** in the trunk support holder **D** and firmly tighten the hand wheel **G**.

 5 mm Allen key

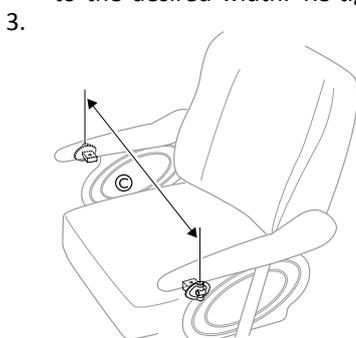
3.6 Adjusting the width of the table tray



Loosen the 4 screws (A).

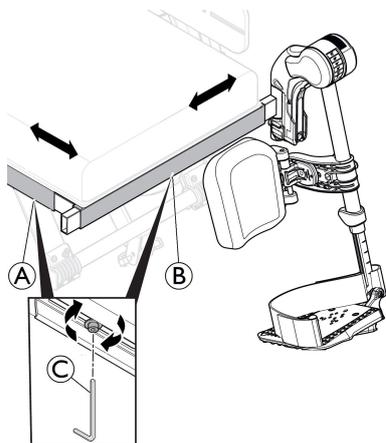


Adjust the attachment bars (B) in order to fit the table to the desired width. Re-tighten the screws.



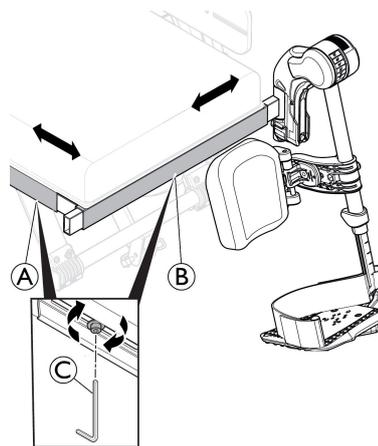
Fit the table to fit the width of the chair (C).

3.7 Adjusting the seat depth



1. Remove the seat cushion.
2. Loosen the screws on the lateral frame (A) with an 5 mm Allen key (C).
3. Move the front edge of the seat forwards or backwards.
4. Re-tighten the screws (A) (5–6 Nm).
5. Put the seat cushion back.

3.8 Adjusting the legrest width



1. Loosen the screw on the front frame (B) with an 5 mm Allen key (C).
2. Move the lateral edge of the legrest sideways to the desired position.
3. Re-tighten the screws (B) (5–6 Nm).

3.9 Adjusting the leg rests

To adjust the leg rests, refer to the User Manual paragraphs:

1. Swing away, angle adjustable leg rest.
2. Swing away leg rest (fixed).

 5 mm Allen key

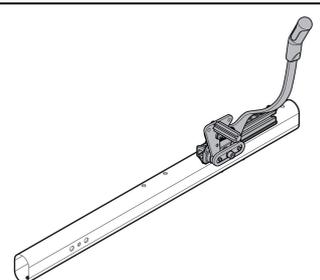
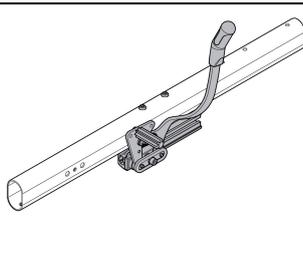
3.10 Brake attachment



WARNING! Poor brake effect

- After every adjustment of the brake, make sure to adjust and test the brake effect.
- See section “Adjusting the brake effect” for more information.
- In some configurations the brake must be adjusted in width to have the brake shoe centered of the tyre width, a 5 mm or 10 mm width extension kit have to be inserted as shown in the spare parts catalogue, available at www.invacare.eu.com.

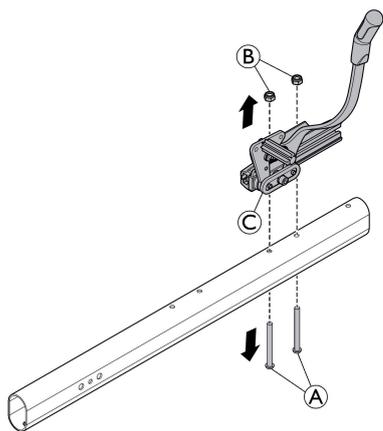
The brake attachment can be mounted in two different positions:

Pos 1 — 600 mm (24") wheels	Pos 2 — 305 mm (12") wheels
	

 See “Seat height tables” in section “Technical data” for a more detailed information.

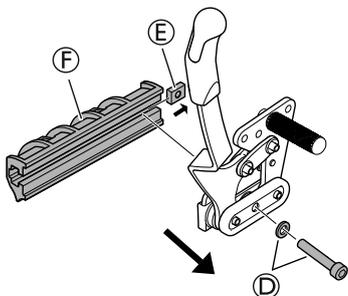
Changing position of user operated brake

Change position from an upper placement of the attachment (Pos 1) to a lower placement (Pos 2):



1. Loosen and remove the screws (A) and the nuts (B).
2. Remove the brake attachment with the brake (C) from the chassis.

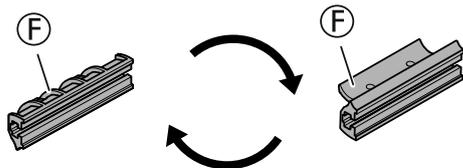
 4 mm Allen key



3. Loosen and remove the screw and the washer (D).

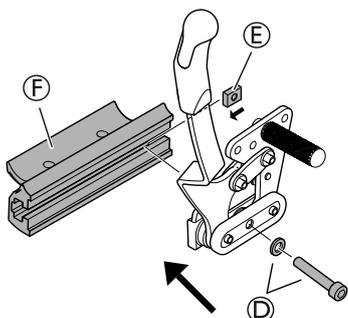
 5 mm Allen key

4. Remove the brake from the brake attachment (F).
5. Be careful not to loose the nut (E) which is located inside the brake attachment (F).

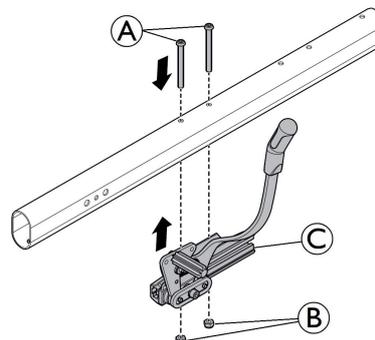


6. Turn the brake attachment (F) 180 degrees.

 5 mm Allen key



7. Re-mount the brake on the turned brake attachment (F).
8. Remember to re-insert the nut (E) if this was removed from the attachment.
9. Re-mount the screw and the washer (D).
10. Tighten the screw with 10 Nm.



11. Re-mount the brake and the attachment (C) on the lower position on the chassis.
12. Re-mount the screws (A) and the nuts (B).
13. Tighten the screws with 5 Nm.

 4 mm Allen key

 When changing the position from a lower placement of the attachment (Pos 2) to an upper placement (Pos 1), reverse this procedure.

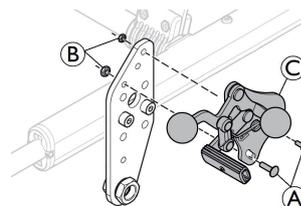
Mounting foot operated brake



WARNING! Poor brake effect

- After every adjustment of the brake, make sure to adjust and test the brake effect.
- See section "Adjusting the brake effect" for more information.

Install the foot operated brake to the Transit version only:

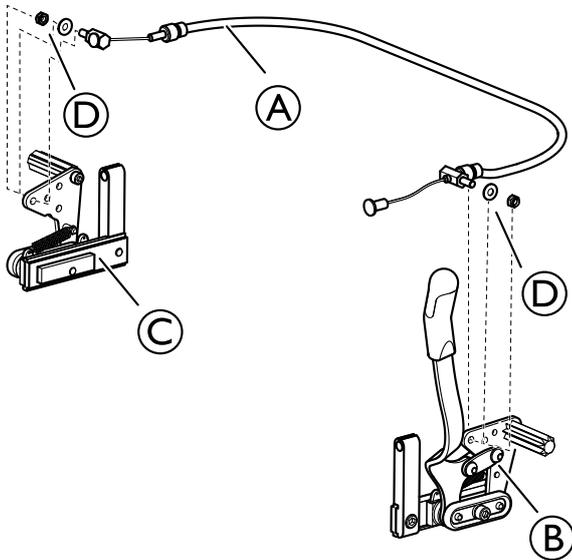


1. Insert the screws (A) on the foot operated brake (C).
2. Mount the foot operated brake set on the rear wheel attachment.
3. Tighten the nuts (B) with 5 Nm.
4. Adjust the brake effect, see section "Adjusting the brake effect".

 4 mm Allen key /10 mm fixed spanner

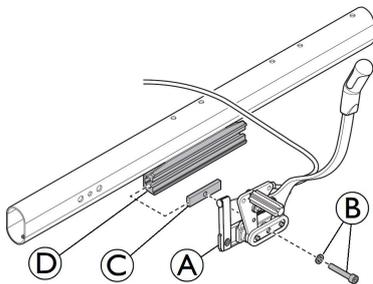
 The user operated brake can be combined with foot operated brakes.

3.11 Mounting the wire for the One arm brake



1. Attach the wire (A) to both sides of the brake (B) and (C) as shown on the picture.
2. Fixate the wire with the nut and washer (D).

3.12 Mounting the One arm brake



1. Attach the brake (A) to the attachment nut (C).
 - i* In some configurations, the attachment nut (C) needs to be placed in the attachment (D) prior to attaching the brake.
2. Fixate the attachment nut (C) with the screw and washer (B).
3. Attach the brake (A) and the attachment nut (C) to the attachment on the chassis (D).
4. Adjust the distance between the brake shoe and the rear wheel.
5. Adjust the brake effect.
 - i* See section "Adjusting the brake" for more information.
6. Tighten the screw (B) with 10 Nm.
7. Repeat the procedure on the opposite side.

3.13 Adjusting the brake effect

To attain the correct braking effect, the brake shoe should press into the tire when you apply the brake. The brake may therefore require depth adjustment.

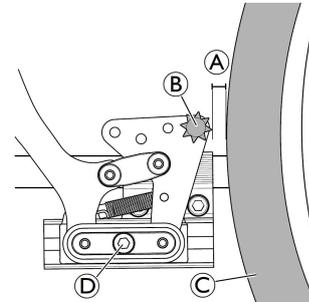


WARNING!

Risk of reduced brake effect

– Incorrect setting or use of the brake reduces the braking effect.

User operated brake



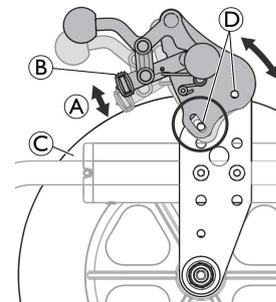
The distance (A) between the brake shoe (B) and the tire (C) should be maximum 2 mm.

1. Loosen the screw (D).
2. Move the brake to the required position.
3. Re-tighten the screw (D) with 10 Nm.



5 mm Allen key

Foot operated brake, 305 mm (12") wheels only



The distance (A) between the brake shoe (B) and the tire (C) should be maximum 4 mm.

1. Loosen the 2 screws (D).
2. Move the brake to the required position.
3. Re-tighten the screws (D) with 5 Nm.



4mm Allen key / 10 mm fixed spanner



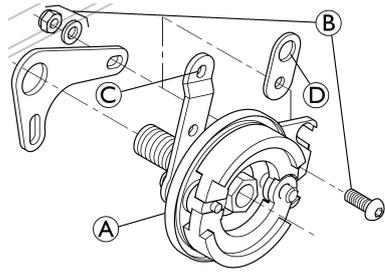
CAUTION!

Risk of trapping fingers

– Be careful not to trap your fingers between the brake shoe (B) and rear wheel (C).

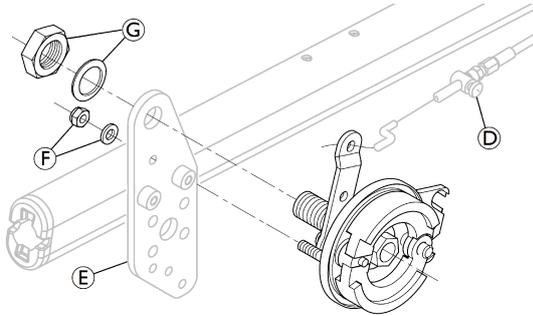
3.14 Mounting the drum brake

3.14.1 Drum brake for 600 mm (24") wheel



1. Assemble the parts on the drum brake (A) in the order shown above. Attach the screw and nut (B) to fixate the parts.
2. Tighten screw and nut (B) with 5 Nm.
3. Mount the wire hook from the brake handle in the wire holder (C).
4. Mount the wire in the attachment washer (D) and place the wire in the lower notch on the brake (A).

-  • 4 mm Allen key
 • 10 mm fixed spanner



5. Attach the anti-rotate bracket to the rear wheel attachment (E) with washer and nut (F) and tighten the nut with 5 Nm.
6. Attach the quick release axle sleeve with washer and nut and (G) and tighten the nut with 40 Nm.
7. Repeat the procedure on the opposite side.

-  • 4 mm Allen key
 • 10 mm fixed spanner (x 2)
 • 24 mm fixed spanner

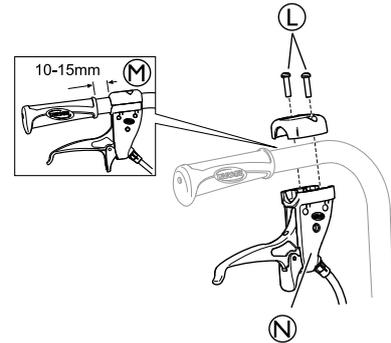


WARNING!

Risk of injury

Poor brake effect

– Check the brake effect after mounting or adjusting the brake.



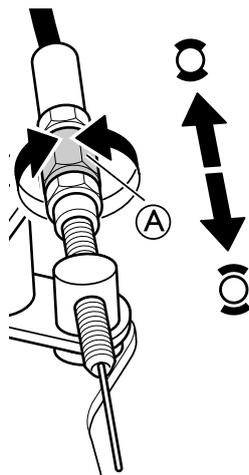
8. Mount the handle for the assistant maneuvered drum brake (N) on the push handle and attach the screws (L).

-  The distance between the handle and the handle for the assistant maneuvered drum brake (M) must be 10 – 15 mm .

-  T25 Torx screw driver

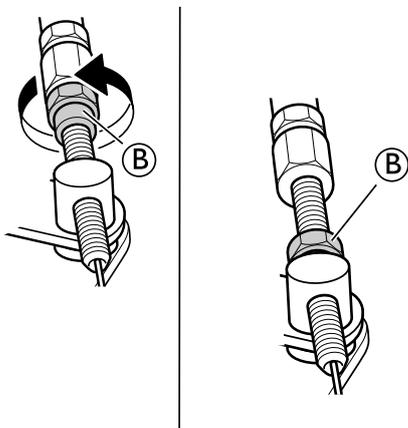
3.15 Drum brake — adjustments

1.



Adjust the brake effect with the adjustment nut (A) on the wire.

2.



When the desired brake effect is achieved, fixate the brake wire with the fixation nut (B).



WARNING!

Risk of injury

Poor brake effect

- Check the brake effect after mounting or adjusting the brake.

4 Maintenance

4.1 Safety information

Regular checks and maintenance of the wheelchair ensure the user's safety and the expected lifetime of the chair.

4.2 Maintenance Electrical Version

General

 The electrical products are closed units and require no internal maintenance.



CAUTION!

Risk of damage to the product

- The plastic parts in the system cannot tolerate cutting oil.
- Do not use chemicals, inspect the system yearly for damage and wear.
- Do not use strong solvents, basic or alkaline liquids.
- The system must be cleaned at regular intervals to remove dust and dirt.
- The system must be inspected at regular intervals for mechanical damages, wear and breaks.
- The system must be inspected at attachment points, wires, piston rods, cabinets and plugs.

Battery

 The electrical products are closed units and require no internal maintenance.



CAUTION!

Risk of damage to the product

- Handle the battery carefully.
- The battery should be replaced after 4 years at the latest depending on the usage frequency.
- For an optimum lifetime, the product must be connected to the mains voltage as often as possible. It is recommended to load the battery at least every 3rd month.
- Test the battery function at least once a year.

4.3 Cleaning and Disinfection

4.3.1 General Safety Information



CAUTION!

Risk of Contamination

- Take precautions for yourself and use appropriate protective equipment.



IMPORTANT!

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



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

4.3.2 Cleaning Intervals



IMPORTANT!

- Regular cleaning and disinfection enhances smooth operation, increases the service life and prevents contamination. Clean and disinfect the product
- regularly while it is in use,
 - before and after any service procedure,
 - when it has been in contact with any body fluids,
 - before using it for a new user.

4.3.3 Cleaning



IMPORTANT!

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

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



Car polish and soft wax can be used on painted metal surfaces to remove abrasions and restore gloss.

Cleaning upholstery

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

-  If possible, always overlap hook and loop strips (the self-gripping parts) when washing, to minimize lint and thread build-up on hook strips and prevent damage to upholstery fabric by these.

4.3.4 Washing

1. Remove all loose and removable covers and wash them in a washing machine according to the washing instructions for each cover.
2. Remove all padded parts such as seat cushions, armrests, headrest or neckrest with fixed padded parts, calf pads and so on and clean them separately.

-  The padded parts can not be cleaned with a high-pressure cleaner or water jet.

3. Spray the wheelchair chassis with detergent, for example a car-cleaning agent with wax, and leave on to work.
4. Rinse the wheelchair chassis with a high-pressure cleaning or ordinary jet of water depending on how dirty the wheelchair is. Do not aim the jet towards bearings and draining holes. If the wheelchair chassis is washed in a machine the water must not be hotter than 60° C.

-  Only use water and soft soap to clean the table.

5. Leave the wheelchair to dry in a drying cabinet. Remove parts where water has collected for example in end tubes, ferrules etc. If the wheelchair has been washed in a machine, blow-drying with compressed air is recommended.

Polyurethane-coated fabric

Lighter stains on the fabric may be neutralized with a soft damp cloth and some neutral detergent. To neutralize larger, more persistent stains, wipe the fabric with alcohol or turpentine substitutes, and wash with hot water and a neutral detergent.

4.4 Reconditioning

Main parts of the wheelchair	
 Lubricate all removable parts with a dry Teflon® based spray, e.g. "Viso 900-B5".	
Chassis	All parts must be checked for cracks or other damages. Pay special attention to areas close to welds. If damages are discovered, the chassis must be discarded.
Backrest angle	Check that the angle is easy to adjust, it should be easy to fold and the locking mechanism must function properly.
Push handles / Push bar	Check that the push handles / push bar works properly. They should be firm and the screws must be tightened properly.
Back- and seat covers	<ul style="list-style-type: none"> • Check that the self-gripping strips are intact and can be fixed properly. • Check that the covers are intact and clean, if not see section: "Washing" and "Disinfection" • If the fabric is torn, replace the cover.

The fabric can be washed at temperatures up to 60° C. Normal detergents can be used.

-  All parts of the wheelchair with polyurethane-coated fabric upholstery, such as armrest pads, calf pads, headrest or neckrest, should be cleaned according to the instruction above.

Electrical version

- !** **Important!**
- The wheelchair with electrical backrest or tilt is protected according to IPX6. This means that the product can be washed with a brush and water. The water can be under pressure (garden hose or equivalent), but high pressure water must not be sprayed directly towards the electrical system.
 - Max washing temperature 20° C.
 - Do not use a steam cleaner.
 - Before cleaning, make sure that the power plug is not connected.
 - Interconnected cables must remain plugged in when cleaning the product.
 - Retract the actuator to the innermost position when cleaning to avoid degreasing of the piston rod.

4.3.5 Disinfection

The wheelchair may be disinfected by spraying or wiping with tested, approved disinfectants.

-  Spray a soft cleaning and disinfecting product (bactericidal and fungicide meeting the EN1040 / EN1276 / EN1650 standards) and follow the instructions given by the manufacturer.

1. Wipe down all generally accessible surfaces with a soft cloth and ordinary household disinfectant.
2. Allow the product to air-dry.

Main parts of the wheelchair	
Seat angle	<p>Check the function by changing the angle from the lower to the upper position.</p> <p>Risk of damage</p> <ul style="list-style-type: none"> – The gas piston must not be opened, it contains oil and gas under high pressure. <div style="background-color: #f0f0f0; padding: 5px;"> <p> CAUTION! Risk of damage – The gas piston must not be opened, it contains oil and gas under high pressure.</p> </div>
Carer-operated brakes	<p>Check that the brake function is good, if not:</p> <ol style="list-style-type: none"> 1. Check that the wire is intact, if not, it must be replaced. 2. Check that the wire cover is intact, if not, the wire must be replaced. 3. Adjust the wire at the handle and/or at the wheel hub. 4. Tighten the wire until the optimal brake function is achieved.
Armrests / side rests	Check that the armrests / side rests are intact, they should be easy to detach / attach.
Leg rests	<p>Check that the leg rests are:</p> <ul style="list-style-type: none"> • Easy to detach • Easy to attach • Easy to adjust in height and angle
Anti-tipper device	<ul style="list-style-type: none"> • Check that the anti-tipper device is easy to adjust and fold. • Check that the screws are tight, if not, retighten.
Rear wheels	<ul style="list-style-type: none"> • Change the tyres if the pattern is worn. • Replace missing spokes and tighten loose spokes. • Fasten the hand rim if it is loose. • Check that the hand rim is smooth and that there are no cracks or sharp edges. If so, replace the hand rim. • Check the rear wheel axle, it should be completely inserted into the axle housing. Check that the rear wheel axle locks properly. Pull on the rear wheel to check that the removable axle does not come off. • Check the air pressure — recommended max air pressure is written on the tyres.
Rear wheel attachment	<p>Check:</p> <ul style="list-style-type: none"> • That the screws on the rear wheel attachment are tight. • That the axle housing is correctly placed. <p> The axle housing should be tightened with a manual and dynamometric wrench calibrated to 40 +/- 5 Nm.</p>
Brakes	<ul style="list-style-type: none"> • Check that the hub brakes work properly on both tyres. • Check the positioning of the user brakes. • Check that the brake pin is not worn down. If so, replace it. • Check that the screws are tightened. • Test the brake function. When braking, the brake pin should press the tyre down by 5 mm. <p> Make sure that you have the correct air pressure in the tyres to attain the optimal brake effect.</p>
Castors	<ul style="list-style-type: none"> • Detach the castors and clean the castor forks. • Remove any dirt or hair from the castors. • Attach the castors again and check that the castors turn freely. • If the castors are air filled, check the pressure — recommended max air pressure is written on the tyre. • If the castors are solid, check the tyres for cracks. If the tyres are dry and filled with cracks, they need to be replaced.
All fasteners for wear and tightness	<p>Bolts and other fasteners can come loose due to constant use:</p> <ol style="list-style-type: none"> 1. Check that the fasteners are tight on the castor forks, footrest, seat, side rests, backrest, handles etc. 2. Tighten any loose bolts or screws.

Options	
 Lubricate all removable parts with a dry Teflon® based spray, e.g. “Viso 900–B5”.	
All fasteners for wear and tightness	Bolts and other fasteners can come loose due to constant use: <ol style="list-style-type: none"> 1. Check that the fasteners are tight on the castor forks, footrest, seat, side rests, backrest, handles etc. 2. Tighten any loose bolts or screws.
Headrest	<ul style="list-style-type: none"> • Check that the side- and angle adjustment for the “wings” works properly. • Check that the angle adjustment works and that there is a memory function.
Neckrest	<ul style="list-style-type: none"> • Check that the angle adjustment works and that there is a memory function.
Trunk support “Multi functional”	<ul style="list-style-type: none"> • Check that the angle adjustment works properly and that there is a memory function.
Abduction cushion	<ul style="list-style-type: none"> • Check that the depth adjustment works.
Table tray	<ul style="list-style-type: none"> • When re-mounting the table tray, try to find the thread manually before fastening the screws with tools. This spare the threading.

4.4.1 Checklist for reconditioning

	OK	NOTE	SIGN
WASHING			
RECONDITIONING:			
Chassis			
Backrest angle			
Push handles / Push bar			
Backrest cover			
Seat cover			
Seat angle			
Carer-operated brake			
Armrests / Side rests			
Legrests			
Footrests			
Anti-tip device			
Rear wheels			
Rear wheel attachment			
Brakes			
Castors			
Fasteners for wear and tightness			
Headrest			
Neckrest			
Trunk support			
Abduction cushion			
Table tray			
TEST:			
Chair rolls in straight line			
Easy to propel			
DELIVERY CHECK:			
Include a user manual			

5 After Use

5.1 Storage

**IMPORTANT!**

Risk of damage to the product

- Do not store the product near heat sources.
- Never store other items on top of the wheelchair.
- Store the wheelchair indoors in a dry environment.
- Refer to temperature limitation in chapter 7 *Technical Data, page 28*.

After long-term storage (more than four months) the wheelchair must be inspected in accordance to chapter 4 *Maintenance, page 21*.

5.2 Disposal

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

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

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

5.3 Reconditioning

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

- Inspection
- Cleaning and disinfection
- Adaptation to the new user

For detailed information, see 4 *Maintenance, page 21* and the service manual for this product.

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

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

6 Troubleshooting

6.1 Troubleshooting electrical system



WARNING!

Risk of personal injury and damage to the product.

– The wheelchair must be unplugged from the main power source before opening or repairing electrical parts.

Symptom	Possible cause	Remedy
Mains indicator does not light up	Mains are not connected	Connect mains
	Fuse in the control unit is blown	Replace the control unit
	Control unit is defective	Replace the control unit
Mains indicator lights up, but the motor is not running. The relay in the control unit makes a clicking noise	Motor plug is not fully inserted into the control unit	Insert the motor plug properly into the control unit
	The motor is defective	Replace the motor
	Motor cable is damaged	Replace the cable
	Control unit is defective	Replace the control unit
Mains indicator lights up, but the motor is not running. No relay sound is heard from the control unit	Control unit is defective	Replace the control unit
	Hand control is defective	Replace the hand control
Control unit is in order except for one direction on one channel	Control unit is defective	Replace the control unit
	Hand control is defective	Replace the hand control
Motor is running, but the piston rod does not move	Motor is damaged	Replace the motor
The motor cannot lift full load		
Motor noise, but no movement of piston rod		
Piston rod operates inwards and not outwards		

7 Technical Data

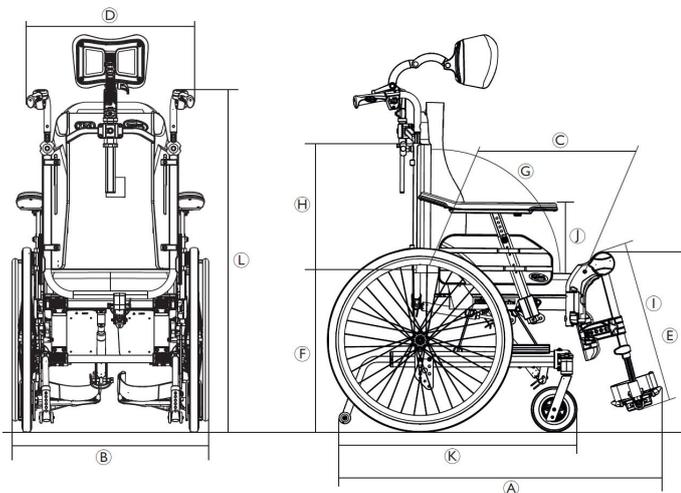
7.1 Dimensions and Weight

All dimension and weight specifications refer to a wide range of the wheelchair in a standard configuration. Dimension and weight (based on ISO 7176-1/5/7) may alter according to different configurations.



IMPORTANT!

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



	Maximum user weight	135 kg
Ⓐ	Overall length with leg rests	995 – 1470 mm
Ⓑ	Overall width	590 – 725 mm
	Stowage width	535 – 680 mm
	Stowage height	515 – 590 mm
	Stowage length	from 705 – 840 mm
	Total mass *	from 30 – 31.5 kg
	Mass of the heaviest part *	20 – 21.5 kg
	Static stability	Downhill: 11° – 27° Uphill: 11° – 31° Sideways: 16° – 22°
	Seat plane angle	–3° – 25°
Ⓒ	Effective seat depth	Fixed: 420 – 480 mm Adjustable: 430 – 500 mm
Ⓓ	Effective seat width	Fixed: 390 – 490 mm, in increments of 50 mm Adjustable: 390 – 540 mm, in increments of 25 mm
Ⓔ	Seat surface height at front edge	400 – 450 mm, in increments of 25 mm
Ⓕ	Seat surface height at rear edge	400 – 450 mm, in increments of 25 mm
Ⓖ	Backrest angle	Gas-spring recliner: 0°/+30°, stepless Electrical recliner: 0°/+30°, stepless
Ⓗ	Backrest height	570 – 710 mm
Ⓛ	Footrest-to-seat distance	355 – 465 mm, in increments of 10 mm
	Leg-to-seat-surface angle	90° – 180°
Ⓜ	Armrest-to-seat height	Range: 230 – 350 mm Standard: 230 – 340 mm Comfort: 240 – 350 mm
	Front location of armrest structure	360 – 440mm
	Hand rim diameter	530 mm
	Horizontal location of axle	36 – 66 mm
	Minimum turning radius	800 mm
Ⓚ	Overall length without leg rests	780 – 1100 mm
Ⓛ	Overall height	1200 – 1550 mm
	Pivot width	1450 mm
	Maximum slope angle brake	7°



* Total mass in seat width 390 mm and with lightest configuration. If equipped with Electrical System, the mass increase is 5.5 kg

7.2 Maximum weight of removable parts

Maximum weight of removable parts	
Part:	Maximum weight:
Leg rest angle adjustable with calf pad and footrest	3,2 kg
Armrest	2,0 kg
Rear wheel 600 mm (24") solid with handrim and spoke guard	2,5 kg
Headrest / Neckrest / Cheek support	1,4 kg
Trunk support	0,8 kg
Backrest cushion	2,0 kg
Seat cushion	1,9 kg
Table tray	3,9 kg

7.3 Tyres

The ideal pressure depends on the tyre type:

The table below is an indication. In case the tyre differs from the list below, check the side of the tyre, the maximum pressure is listed there.

Tyre	Max. pressure		
	4.5 bar	450 kPa	65 psi
Pneumatic profiled tyre: 610 x 35 mm (24" x 1 3/8")	4.5 bar	450 kPa	65 psi
Solid tyre: 305 x 45 mm (12" x 1 3/4") 610 x 35 mm (24" x 1 3/8")	-	-	-
Solid tyre: 150 x 30 mm (6" x 1 1/4") 200 x 30 mm (8" x 1 1/4") 200 x 45 mm (8" x 1 3/4")	-	-	-

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

 In case of a tyre puncture consult a suitable workshop (e.g. bike repair shop, bicycle dealer ...) to have the tube replaced by a skilled person.

 The size of the tyre is mentioned on the sidewall of the tyre. The change of appropriate tyres must be carried out by a qualified technician.



CAUTION!

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

7.4 Materials

Chassis, backrest tubes	Steel, powder coated
Plastic parts like push handles, brake handles, foot plates and parts of most options	Thermoplastic (e.g. PA, PE, PP, ABS and TPE) according to marking on the parts
Upholstery (seat and backrest)	Foam PUR and polyether, polyurethane-coated fabric and plush
Table	ABS
Seat plate	Coated Birch plywood
Other metal parts	Zinc alloys, aluminum alloys and steel
Screws, washers and nuts	Steel, corrosion free

 All materials used are protected against corrosion. We use only REACH compliant materials and components.

 Theft and metal detection systems: in seldom cases the materials used in the wheelchair may activate theft and metal detection systems.

7.5 Environmental conditions

	Storage and transportation	Operation
Temperature	-20 °C to 40 °C	-5 °C to 40 °C
Relative humidity	20 % to 90 % at 30 °C, not condensing	
Atmospheric pressure	800 hPa to 1060 hPa	

 Be aware that when a wheelchair has been stored under low temperatures, it must be adjusted to operating conditions before use.

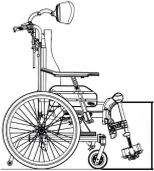
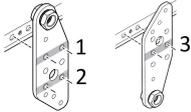
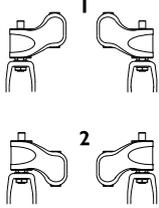
7.6 Electrical system — Models equipped with electric tilt and backrest

Voltage supply	U in 100–240 Voltage, AC, 50/60 Hz (AC = Alternating current), DC 24 V (DC = Direct current)
Maximum current input	I in max. 5 Ampere (battery = max 1,3 Ampere)
Intermittent (periodic motor operation)	10 % 2 min ON / 18 min OFF
Protection class	CLASS II equipment
	
	Applied Part complying with the specified requirements for protection against electrical shock according to IEC60601-1.
Degree of protection	The control unit, external power supply, motors and hand controls are protected according to IPx6. See label and label on each electric device for correct IP class. The lowest IP-classification decides the overall classification of the system. IPx6- The system is protected against water projected from any direction (not high pressure).

 For full details contact your Invacare authorized provider.

7.7 Seat height tables

7.7.1 Clematis Pro

					
450	600 (24")	1	2	1	200
450	600 (24")	1	1	2	150
400	600 (24")	2	2	2	150
450	305 (12")	3	2	1	200

Invacare distributors

United Kingdom:

Invacare Limited
Pencoed Technology Park, Pencoed
Bridgend CF35 5AQ
Tel: (44) (0) 1656 776 222
Fax: (44) (0) 1656 776 220
uk@invacare.com
www.invacare.co.uk

Ireland:

Invacare Ireland Ltd,
Unit 5 Seatown Business Campus
Seatown Road, Swords, County Dublin
Tel : (353) 1 810 7084
Fax: (353) 1 810 7085
ireland@invacare.com
www.invacare.ie

Australia:

Invacare Australia Pty. Ltd.
1 Lenton Place, North Rocks NSW 2151
Australia
Phone: 1800 460 460
Fax: 1800 814 367
orders@invacare.com.au
www.invacare.com.au

New Zealand:

Invacare New Zealand Ltd
4 Westfield Place, Mt Wellington 1060
New Zealand
Phone: 0800 468 222
Fax: 0800 807 788
sales@invacare.co.nz
www.invacare.co.nz

Asia:

Invacare Asia Ltd.
1 Lenton Place, North Rocks NSW 2151
Australia
Phone: (61) (02) 8839 5333
Fax: (61) (02) 8839 5343
asiasales@invacare.com
www.invacare.com



Invacare France Operations SAS
Route de St Roch
F-37230 Fondettes
France

