Wheelchair accessible vehicle

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1 Foreword

For the purpose of using your product for transportation in wheelchair accessible vehicles, Ottobock has developed safety components which are in compliance with national and international standards to improve the passengers' safety during transport and in case of a frontal collision.

The Ottobock products listed in the table in Chapter 11 have been successfully tested according to the requirements of ISO 7176-19 and/or ANSI/RESNA WC 19. Due to the large variation within the product range, it is not possible for the manufacturer to test all combinations. Testing to release a product for use in a wheelchair accessible vehicle is performed on the basis of a basic version of the relevant product. Due to the high degree of variation, it is not possible to test all of a product's options for crashworthiness within the scope of wheelchair accessible vehicle transportation. Thus, there may be an increased risk involved in the transportation of wheelchairs with certain options when using a wheelchair as a seat in a wheelchair accessible vehicle.

In order to minimise the residual risk, we therefore recommend the following precautionary measures:

• Whenever possible while travelling in a wheelchair accessible vehicle, passengers must use the seats and corresponding occupant restraint systems installed in the vehicle.
• Remove accessories such as headrests or trays during transportation whenever possible.
• Secure the detached accessories in the wheelchair accessible vehicle to prevent uncontrolled movement.
• Secure swivelling chin controls.
• The safety system authorised for transportation must be designed to support the maximum permissible total weight of the product (user + wheelchair incl. accessories).
• Custom fabrications for individually named patients are not tested.
• Please observe the tie-down manufacturer's recommendations regarding the vehicle restraint systems.

This brochure provides information and advice on Ottobock products which can be used for transportation in wheelchair accessible vehicles. For further important information regarding your product, please refer to the instructions for use (user). Please read this brochure carefully before using your product. If you have any further questions regarding patient transportation in wheelchair accessible vehicles, please contact

Otto Bock Mobility Solutions GmbH
Lindenstraße 13 · 07426 Königsee-Rottenbach/Germany
www.ottobock.com
2  Application
Whenever possible while traveling in an wheelchair accessible vehicle, passengers must use the seat and corresponding occupant restraint systems installed in the vehicle. The mobility aids are primarily designed to be easily manoeuvrable, lightweight and functional, which contradicts the requirements for a safe seat for transportation in a wheelchair accessible vehicle. Furthermore, the fitting application of wheelchair securement and passenger restraint systems involves possible errors resulting to an increased safety risk, which is not the case when using the vehicle seats and occupant restraint systems installed in a wheelchair accessible vehicle.

Ottobock therefore recommends using the seats and occupant restraint systems installed in a wheelchair accessible vehicle if and whenever possible. In case of a traffic accident, Ottobock assumes no liability whatsoever for the physical impairment of users of Ottobock products. Wheelchair tie-downs and occupant restraint systems may alleviate the risk of injury when they are properly used, but cannot entirely eliminate it in any case.

The suitability of accessories which do not correspond to the tested configuration cannot be assessed and Ottobock cannot accept any liability.

3  Safety

3.1  Explanation of Warning Symbols

| WARNING          | Warnings regarding possible risks of severe accident or injury. |
| CAUTION          | Warnings regarding possible risks of accident or injury.       |
| NOTICE           | Warnings regarding possible technical damage.                  |
| INFORMATION      | Additional information on the fitting/use.                     |

3.2  General Safety Instructions

| WARNING          | Failure to heed or observe the safety instructions |
|                 | Pinching, crushing, tipping over, falling due to user error |
|                  | Observed all safety instructions in this brochure and in all other applicable documents. |

| WARNING          | Improper use of the product |
|                 | Pinching, crushing, tipping over, falling due to user error |
|                  | Only use this product for its original intended purpose. |
|                  | The product may only be used by appropriately trained persons. |

| WARNING          | Using options in wheelchair accessible vehicles |
|                 | Serious injuries resulting from accidents |
|                  | Certain options are not suitable for transport in a wheelchair accessible vehicle. They must be removed and stored safely prior to transport. |
|                  | Options which cannot be removed must be secured to the product. |
|                  | Also observe the table in Chapter 11 "Restrictions for Use" and the safety instructions in the instructions for use for the relevant product and/or option. |

| WARNING          | Modifying or replacing frame and structural components |
|                 | Pinching, crushing, tipping over, falling due to improper assembly |
|                  | Do not carry out any modifications to frame or structural components without express authorisation from Ottobock. |
**WARNING**

**Overloading**
Severe injuries due to failure to observe allowable transportation weights
- Make sure the person being transported is of an appropriate weight.

**WARNING**

**Inadequate transportation safety**
Uncontrolled movement or tipping during transport
- Use the product only as a forward-facing seat in motor vehicles.
- Use the approved 4/6-point wheelchair restraints anchored in the wheelchair accessible vehicle. The tie-down end fittings must be compatible with the securement brackets on the Ottobock product.
- Secure the product in the wheelchair accessible vehicle as described in the chapter "Instructions for Securing the Product in a Wheelchair Accessible Vehicle".
- Wheelchairs weighing more than **75 kg** must be secured using a 6-point rather than a 4-point wheelchair restraint system. The restraint system must be designed to accommodate the total weight of the user and the wheelchair.
- Heavy wheelchairs, or those fitted with add-on components, may require the use of heavy duty or 6 point tie-downs. The rated capacity of wheelchair securement systems should be checked and compared with the mass of the wheelchair. Wheelchairs fitted with integrated lap restraint belts for use in transport will impart additional loads to the rear tie-downs.

**WARNING**

**Inadequate transportation safety**
Uncontrolled movement or tipping over due to failure to follow transport instructions
- To restrain passengers, use a 3-point lap restraint belt and shoulder belt system as described in Chapter 5 or the restraint system anchored in the vehicle. Other fixation systems and belts which help to position the passenger within the product (postural support devices) may be used additionally during transportation in a wheelchair accessible vehicle. However, they should under no circumstances be used as a substitute for a passenger restraint system.

**WARNING**

**Inadequate transportation safety**
Uncontrolled movement or tipping during transport
- Passengers should only be transported seated.
- Passengers should only be transported in a product in a wheelchair accessible vehicle if the product is equipped with securement brackets labelled as appropriate for this purpose. This also applies if the passenger does not tolerate the prescribed restraint systems for transportation in the product in the wheelchair accessible vehicle.

**WARNING**

**Prohibited transportation of the passenger with activated back angle adjustment or seat tilt**
Loss of safe restraint in the product
- Whenever possible, make sure the passenger is seated in a nearly upright position during transport.

**WARNING**

**Unallowable use after an accident**
Pinching, crushing, tipping over or falling due to product damage
- Following an accident, have the product replaced or inspected by Ottobock or an Ottobock-authorised specialist dealer immediately.
3.3 Safety Instructions for Assembly

**CAUTION**

Unsecured screw connections
Pinching, crushing, tipping over or falling due to components coming loose

- Secure screws and nuts.
- Clean the threads before every installation.
- When screw connections with thread locks are loosened, they must be equipped with new thread locks or secured with a medium-strength thread lock substance (e.g., Loctite 241 or Euro Lock A24.20).
- Apply the specified installation torque values.
- Observe the instructions for securing the screw connections and the use of the correct length.

3.4 Safety-related clearances
The following clear-zones are to be maintained around the passenger of the product (see Fig. 1 and 2):

**To the front:**
- 650 mm when using 3-point lap restraint belt and shoulder occupant restraints

**To the rear:**
- 400 mm

**Overhead:**
- 1200 mm for a small adult female
- 1550 mm for a large adult male
Safety

The safety belts for transportation in a motor vehicle must conform to the following standards and guidelines:

<table>
<thead>
<tr>
<th></th>
<th>International ISO 7176-19</th>
<th>USA ANSI/RESNA WC 19</th>
<th>Germany DIN 7176-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger restraint system</td>
<td>ECE 16 or FMVSS209 or equivalent ISO 3795</td>
<td>FMVSS209 and FMVSS302 lap restraint belt tested according to ANSI/RESNA WC 19</td>
<td>ECE 14/16 or equivalent</td>
</tr>
<tr>
<td>Wheelchair restraint system</td>
<td>ISO 10542</td>
<td>SAE J2249</td>
<td>ECE 16</td>
</tr>
</tbody>
</table>

For information on the SAE International J2249 standards regarding wheelchair restraint systems and passenger restraint systems, please contact:

**SAE International**
400 Commonwealth Drive · Warrendale, PA 15096 • USA
Tel. 001-416-776-4970

### 3.5 Safety-related labelling

<table>
<thead>
<tr>
<th>Label</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="attachment_point.png" alt="Attachment point" /></td>
<td>Attachment point for fastening the wheelchair attachment strap on product frame. Four anchor points can be found on the front/rear and left/right of the product frame, respectively.</td>
</tr>
</tbody>
</table>

### 3.6 Further information

**INFORMATION**

Products conforming to ANSI/RESNA WC 19 or ISO 7176-19 standards have been subjected to a crash test in a forward-facing mode. The dummy used for ANSI/RESNA WC 19 testing was secured with a wheelchair-anchored lap restraint belt and a vehicle-anchored shoulder belt, which was connected to the lap restraint belt. 4/6-point tie-down belts were used for this test (depending on the product).

**INFORMATION**

If the total weight of the wheelchair is > 125 kg, transportation is recommended only in vehicles with an authorised total weight of > 4000 kg.

**INFORMATION**

Manoeuvrability and access to the vehicle can be affected by the size of the product.

**INFORMATION**

If you want to retrofit a discontinued Ottobock product for use as a seat in a wheelchair accessible vehicle, contact the manufacturer. A list of discontinued products is found in Chapter 12.

**INFORMATION**

For transporting children up to 36 kg, Ottobock urgently recommends using a restraint system for children (so-called child car seat) tested according to ECE 44.03 or higher, or a restraint system according to ECE 44.04 developed especially for disabled children (e.g. "Lars" child car seat from Ottobock). Observe the legal regulations for your country/state in all cases.
## Selection of possible restraint system suppliers

### North America:

- **Creative Controls**  
  www.creativecontrolsinc.com  
  800-539-7237

- **EZ-Lock**  
  www.ezlock.net  
  225-214-4620

- **Independent Mobility Systems**  
  www.ims-vans.com  
  800-IMS-VANS

- **Orthosafe**  
  www.orthosafe.com  
  609-587-9444

- **Q’straint**  
  www.qstraint.com  
  800-987-9987

- **SureLok**  
  www.sure-lok.com  
  866-787-3565

### Europe:

- **Unwin Safety Systems**  
  www.unwin-safety.com  
  +44 (0) 1935 82770

- **Q’straint**  
  info@qstraint.co.uk  
  +44 (0) 1227 773035

- **AMF Bruns**  
  www.amf-bruns.de  
  +49 (0) 4489-7224
5 Instructions for Securing the Product and Passenger in a Wheelchair Accessible Vehicle

**WARNING**

Inadequate transportation safety
Loss of safe occupant restraint due to failure to observe transportation instructions

- Always route passenger restraints close to the body, not over the side panels and wheels (see Fig. 3, item 2).
- Always place the shoulder belt in the middle of the user’s shoulder, and anchor at a point above and behind the passenger (see Fig. 3, item 1).
- After they are attached, tighten the wheelchair restraints as firmly as possible.
- Do not twist the belt strap across the passenger’s body.

1. Facing in the direction of travel, position the wheelchair centrally between the vehicle floor anchorages.
2. Apply the wheelchair brakes and turn off the control unit on a power wheelchair.
3. Ensure compatibility of the securement system with the product.
4. Connect the tie-down straots mounted to the floor of the vehicle with the wheelchair (see Fig. 4) at the labelled anchor points (see Chapter 3.5).
5. If possible, turn the caster wheels in the forward direction (see Fig. 5).
6. Run the wheelchair tie-down straps at an angle of approx. 60° in the front and approx. 45° at the rear (see Fig. 6).
7. Tighten the tie-down straps in accordance with the manufacturer’s specifications (see Fig. 7).
8. Secure loose components in the vehicle.
9. Place the wheelchair passenger in a nearly upright seated position.
10. Attach the lap restraint belt on both sides to the anchor points provided on the wheelchair (see Fig. 8).
11. The lap restraint belt should be worn at an angle of 45° to 75° to the horizontal (see Fig. 9), when viewed from the side. Only when this is not possible in exceptional cases, an angle between 30° and 45° to the horizontal can be chosen instead.
12. Verify that the belts are routed close to the body.
13. Check that the belt strap is not twisted but rests flat against the passenger’s body.
14. Position the restraint system so that the release mechanism cannot be triggered by product components or uncontrolled movements of the passenger.
15. Engage the shoulder belt in the lap restraint belt (see Fig. 10).
16. If there is an open space > 30 cm in front of the wheelchair passenger’s feet, attach the calf strap to the frame and place the passenger’s feet behind the calf strap (see Fig. 11).
6 Product-Specific Instructions – Rehab Buggy

WARNING
Inadequate transportation safety
Uncontrolled movement or tipping over due to failure to follow transport instructions

► Ensure correct fixation kits are used.
► Use the approved 4-point tie-down straps anchored in the wheelchair accessible vehicle. The securement brackets on the product must be compatible with the strap ends of the restraint system.
► Secure the product in the wheelchair accessible vehicle as described in Chapter 5 "Instructions for Securing the Product in a Wheelchair Accessible Vehicle".

INFORMATION
For transporting children up to 36 kg, Ottobock urgently recommends using a restraint system for children (so-called child car seat) tested according to ECE 44.03 or higher, or a restraint system according to ECE 44.04 developed especially for disabled children (e.g. „Lars“ child car seat from Ottobock). Observe the legal regulations for your country/state in all cases.

6.1 Lisa

WARNING
Prohibited transportation of the passenger with activated back angle adjustment
Loss of safe restraint in the product due to user error

► Ensure the passenger is seated in a nearly upright position during transport.
► Move the backrest to a nearly upright position prior to travel.
► Observe the related information in the product instructions for use.

INFORMATION
The securement brackets on the front and rear frames are mounted ex works.

6.1.1 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Lisa rehab buggy in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   ➔ The product showing the correct positioning of the tie-down straps (see Fig. 12).

Positioning the vehicle integrated restraint system
1. Pull each end of the lap restraint belt from the inner side of the seat through between the upholstery and the frame to the outside (see Fig. 13).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 14).
   ➔ The lap restraint belt is pulled through and fastened.
6.2 Eco Buggy

**WARNING**

Prohibited transportation of the passenger with activated back angle adjustment
Loss of safe restraint in the product due to user error

- Ensure the passenger is seated in a nearly upright position during transport.
- Move the backrest to a nearly upright position prior to travel.
- Secure the backrest by firmly tightening the star grips on the left and right sides of the push handles.
- Observe the related information in the product instructions for use.

6.2.1 Installing the HR32549700 Fixation Kit

**Required tools**

- Ring spanner, size 10
- Allen wrench, size 4
- Long nose pliers

**Assembly**

1. Screw 1 anchor plate to the D20 Pipe Clips on each side of the front frame (see Fig. 15).
   - The cap nuts and the hook symbol face out.
2. Screw 1 anchor plate with pre-assembled pin to the D20 Pipe Clips on each side of the rear frame (see Fig. 16).
   - The cap nuts face inwards.
   - The hook symbols face out.
   - The pin is mounted at the bottom on the anchor plate.
3. Rotate each of the anchor plates on the front frame outwards by about 20°.
4. Perform a folding test: the frame components must not touch the anchor plates (see Fig. 17).
   - The fixation kit is installed.
6.2.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Eco Buggy in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 18).

Positioning the vehicle integrated restraint system
1. Pull each end of the lap restraint belt from the inner side of the seat through between the upholstery and the frame to the outside (see Fig. 19).
2. Hook the end of the lap restraint belt onto the pin on the anchor plate (see Fig. 20).
   → The lap restraint belt is pulled through and fastened.

6.3 Kimba neo

⚠️ WARNING
Overloading
Severe injuries due to failure to observe allowable transport weights
► When using the product as a seat in a wheelchair accessible vehicle, the product may only be loaded as follows:
  – Kimba neo, size 1/size 2: max. user weight 40 kg (88 lbs)
► Empty the storage basket prior to using the product in a wheelchair accessible vehicle.

⚠️ WARNING
Prohibited transportation of the passenger with activated back angle adjustment and seat tilt
Loss of safe restraint in the product due to user error
► Ensure the passenger is seated in a nearly upright position during transport.
► Move the backrest to a nearly upright position prior to travel.
► Observe the related information in the product instructions for use.
**WARNING**

Use as a seat in a wheelchair accessible vehicle
Severe injury in case of accident

- The product was tested for use in a wheelchair accessible vehicle in combination with a multifunctional seating unit (standard seat) or with a Mygo seating system.
- Please note that the use of the Mygo seating system in a wheelchair accessible vehicle is permitted only if a second locking pin for securing the seat angle is fitted on the Kimba outdoor mobility base (see the section „Adjusting and Securing the Seat Angle“).
- The product may only be used as a seat in a wheelchair accessible vehicle with the securing elements offered by the manufacturer and with suitable restraint systems.
- In general, you should only use the product in wheelchair accessible vehicles with the seat facing forwards.
- In general, you should only use the product in wheelchair accessible vehicles with the seating unit secured horizontally and the backrest locked in the upright position (see the section „Adjusting and securing the seat angle“ and „Adjusting and securing the back angle“).

**INFORMATION**

The securement brackets on the front and rear frames are mounted ex works (see Fig. 21 and 22, item 1).

![Image](image1)

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**6.3.1 Adjusting and Securing the Seat Angle**

Before the product can be used in a wheelchair accessible vehicle, the seat angle must be adjusted horizontally and secured.

**Multifunctional seating unit: Activating the locking mechanism**

1. Turn the top rotary knob to the right and adjust the seat bottom so it is horizontal.
2. Pull out the locking pin, rotate it to the left and reinsert it (see Fig. 23).
   → The locking pin is engaged.
3. Tilt the seat adapter (see Fig. 24, item 2) against the locking pin (see Fig. 24, item 1).
   → The seat adapter must contact the locking pin without play.
   → The locking mechanism is activated.

**Mygo Seating System: Activating the Locking Mechanism**

Before the product can be used in a wheelchair accessible vehicle, the seat angle must be adjusted horizontally and secured.

1. Turn the knob on the upper front part of the frame in the direction indicated by the arrow and adjust the seat bottom so it is horizontal.
2. Pull out the first locking pin, rotate it to the left and reinsert it (see Fig. 23, item 1).
   → The locking pin is now engaged (see Fig. 24, item 1).
3. Tilt the seat adapter (see Fig. 24, item 2) against the locking pin.
   → The seat adapter must contact the locking pin without play.
4. For additional stability, pull out the second locking pin on the opposite side, rotate it to the left and reinsert it (no picture available).
After use in a wheelchair accessible vehicle, the seat angle adjustment must be enabled again:

**Multifunctional seating unit: Deactivating the locking mechanism**
1. Pull out the locking pin and secure it in the disengaged position by turning it (see Fig. 25).
   - The locking pin is disengaged (see Fig. 25, item 1).
   - The seat angle can now once again be adjusted by turning the top rotary knob.

**Mygo Seating System: Deactivating the Locking Mechanism**
After use in a wheelchair accessible vehicle, the seat angle adjustment must be enabled again.
1. Pull out the locking pins on both sides and secure them in the disengaged position by turning them (see Fig. 25).
   - The locking pins are disengaged (see Fig. 26, item 1).
   - The seat angle can now once again be adjusted by twisting the knob on the upper front part of the frame.

### 6.3.2 Adjusting and Securing the Back Angle
Before using the product in a wheelchair accessible vehicle, the back angle must be locked in the vertical position:

**Multifunctional seating unit: Activating the locking mechanism**
1. Turn the bottom rotary knob to the left and adjust the back angle to vertical (see Fig. 26).
2. Turn the bottom rotary knob approx. 5 mm further to the left.
   - The back securing bolt is released.
3. Pull out the back securing bolt and turn it 90° (see Fig. 26). The protruding locking aids on the back securing bolt (see Fig. 26, item 1) have to engage in the horizontal slotted holes (see Fig. 28, item 1).
4. Turn the bottom rotary knob to the right.
   - The locking mechanism is activated.

After use in a wheelchair accessible vehicle, the back securing bolt must be deactivated:

**Multifunctional seating unit: Deactivating the locking mechanism**
1. Turn the bottom rotary knob to the left.
   - The back securing bolt is released.
2. Pull out the back securing bolt and turn it 90° (see Fig. 28). The protruding locking aids on the back securing bolt must engage in the vertical slotted holes (see Fig. 29, item 2).
3. Turn the bottom rotary knob to the right.
   → The locking mechanism is deactivated.

**Mygo Seating System**
Before using the product in a wheelchair accessible vehicle, the back angle must be tilted back gently to an angle of approx. 95°.

**INFORMATION**
Please note the information in the separate instructions for use provided for the seating system.

### 6.3.3 Using the Product in a Vehicle

**Specifics Mygo Seating System**
Use of the Mygo seating system in a wheelchair accessible vehicle is permitted only if a second locking pin for securing the seat angle is fitted on the Kimba outdoor mobility base.
Use of the Mygo seating system in a wheelchair accessible vehicle is permitted only when a chest and shoulder belt or a chest and shoulder support is used.

**Securing the product in the wheelchair accessible vehicle**
1. Position the Kimba neo rehab buggy in the wheelchair accessible vehicle as described in Chapter 5.
2. Fold the push handle down to provide additional stability for the seating system.
3. For “swiveling” front wheel option only: turn the caster wheels to face forwards for improved stability.
4. Adjust the suspension to “firm”.
5. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 33).

**Positioning the vehicle integrated restraint system**
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 30).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 31, item 1).
   → The lap restraint belt is pulled through and fastened.
   → Engage the shoulder belt in the pelvic restraint belt.
7  Product-Specific Instructions – Power Wheelchairs

⚠️ WARNING

Inadequate transportation safety
Uncontrolled movement or tipping over due to failure to follow transport instructions
▶ Ensure correct fixation kits are used.
▶ Use the approved 4/6-point tie-down straps anchored in the wheelchair accessible vehicle to secure the wheelchair. Restrain the passenger with a 3-point occupant restraint system in the wheelchair or vehicle. The securement brackets on the product must be compatible with the strap ends of the restraint system.
▶ Wheelchairs weighing more than 75 kg must be secured using a 6-point rather than a 4-point wheelchair restraint system. The restraint system must be designed to accommodate the total weight of the user and the wheelchair.
▶ Turn off the control unit after positioning the wheelchair in the wheelchair accessible vehicle.
▶ Secure the product in the wheelchair accessible vehicle as described in Chapter 5 "Instructions for Securing the Product in a Wheelchair Accessible Vehicle".

⚠️ WARNING

Prohibited transportation of the passenger with activated back angle adjustment and seat tilt
Loss of safe restraint in the product due to user error
▶ Ensure the passenger is seated in a nearly upright position during transport.
▶ Move the backrest to a nearly upright position prior to travel.
▶ Check that the lock is engaged in the locking mechanism on both sides.
▶ Observe the related information in the product instructions for use.

7.1  A200

INFORMATION

The securement brackets in front on the cross tube and in back on the seat angle are mounted ex works (see Fig. 34 and 35).

7.1.1 Installing the 491S00=SK024 Fixation Kit

Required tools
• Ring spanners, sizes 10 and 13

Assembly
1. Screw the included pins into the bore holes provided in the seat angle on the left and right sides (see Fig. 36, item 1).
   ➔ The fixation kit is installed.
7.1.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the A200 power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 38).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the end of the lap restraint belt onto the pin (see Fig. 37).
   → The lap restraint belt is pulled through and fastened.

7.2 B400

INFORMATION
The rear securement brackets are mounted ex works (see Fig. 39).
7.2.1 Installing the 491S00=SK027 Fixation Kit

Required tools
- Ring spanners, sizes 13 and 17
- Allen keys, sizes 5 and 6

Assembly
1. Screw 1 securement bracket to the bores provided on the left and right sides in the chassis above the caster wheels (see Fig. 40).
   → The cap nuts face towards the frame profile.
   → The hook symbols face towards the leg area.
2. Remove 2 oval head screws per side from the back end shield and install the retaining plate with pins on the left and right sides (see Fig. 41).
   → The pins are installed.
3. Check whether the seat brackets are installed correctly (see Chapter 7.2.3)

7.2.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the B400 power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 44).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 42).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 43).
   → The lap restraint belt is pulled through and fastened.
7.2.3 Replacing the Screws on the B400 ISO Set Seat Bracket Mount

Inspecting the seat bracket mount
1. Remove the rear battery cover (see installation steps in instructions for use/service manual).
2. Check how the rear seat brackets are mounted to the drive base:
   - If the seat brackets are mounted as shown in Fig. 45 and 46 (without nuts on the screw ends), these must be replaced.
   - If the seat brackets are mounted as shown in Fig. 47 and 48 (with nuts on the screw ends), no replacement is necessary.
3. If needed: replace the seat bracket mounting screws as described on the following page.

Required tools
- Ring spanners, sizes 10, 11 and 13
- Allen wrench, size 6
- Allen wrench with socket, size 6
• Torque wrench (measurement range 25 Nm)
• Thread lock (Loctite)

**Replacing the screws**

1. Remove the main fuse and take off the battery cover (see Fig. 49).

2. Loosen the battery cable and remove the battery.
3. Remove all 4 screw caps (see Fig. 52) from the screw heads.

4. Remove the screw on the seat bracket (see Fig. 53) and replace with a new screw (see replacement kit).
5. Tighten the screw to **25 Nm**.

6. Coat the thread of the nut with thread lock.
7. Screw the nut onto the thread of the screw (see Fig. 56) and tighten.
8. Repeat the steps for the rest of the screws.
9. Insert the battery and reconnect the battery cable.
10. Put the battery cover in place and refasten the screw caps.
11. Insert the main fuse.

7.3 B500

**INFORMATION**
The rear securement brackets are mounted ex works (see Fig. 57).

7.3.1 Installing the 491S00=SK022 Fixation Kit

**Required tools**
- Ring spanners, sizes 13 and 17
- Allen keys, sizes 5 and 6

**Assembly**
1. Remove the seat plate (see instructions for use/service manual for the respective product).
2. Screw 1 securement bracket to the bores provided in the seat/tilt frame above the caster wheels on both sides (see Fig. 58).
   - The cap nuts face inwards.
   - The hook symbols face outwards.
3. Replace 1 screw (per side) in the back end shield with the pin adapter (see Fig. 59).
4. Install the seat plate.
   - The fixation kit is installed.
7.3.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the B500 power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (rear: see Fig. 57).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 60).
2. Hook the end of the lap restraint belt onto the pin.
   → The lap restraint belt is pulled through and fastened (see Fig. 61).

7.4 B500S

INFORMATION
The securement brackets on the front and rear frames are mounted ex works (see Fig. 69 and 70).

7.4.1 Installing the 491S00=SK029 Fixation Kit

Required tools
• Ring spanner, size 13
• Allen wrench, size 6

Assembly
1. Remove 2 oval head screws per side from the back end shield and install the retaining plate with pins on the left and right sides (see Fig. 70).
7.4.2 B500S with Suspension: Installing the Battery Security Bar

Required tools
• Allen key size 6

Assembly
1. Remove the second mounting screw on the left and right.
2. Insert the M8x35 mounting screws from the fixation kit through the steel bar and slide the supplied steel bushings over them.
3. Install the battery security bar with the bushings facing down (see Fig. 63) and tighten the screws.

Æ The battery security bar is installed.

7.4.3 B500S without Suspension: Installing the Battery Security Bar

Required tools
• Allen key size 6

Assembly
1. Insert the angle bracket (see Fig. 65) at the left and right from underneath and turn by 90°.
2. Slide the steel bar through the securement brackets and screw it to the angle brackets and M8x16 mounting screws (see Fig. 66) on the left and right.

Æ The battery security bar is installed.
7.4.4 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the B500S power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 68, 69 and 70).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 67).
2. Hook the end of the lap restraint belt onto the pin.
   → The lap restraint belt is pulled through and fastened.
7.5 B600

**INFORMATION**
The rear securement brackets are mounted ex works (see Fig. 71).

7.5.1 Installing the 491S00=SK022 Fixation Kit

**Required tools**
- Ring spanners, sizes 13 and 17
- Allen keys, sizes 5 and 6

**Assembly**
1. Screw 1 securement bracket to the bores provided in the seat/tilt frame above the caster wheels on both sides (see Fig. 72).
   → The cap nuts face inwards.
   → The hook symbols face outwards.

7.5.2 Using the Product in a Vehicle

**Securing the product in the wheelchair accessible vehicle**
1. Position the B600 power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 74, 75).

**Positioning the crashworthy integrated lap restraint belt**
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the ends of the lap restraint belt onto the pins (see Fig. 73).
   → The pelvic restraint belt is pulled through and fastened.
7.6 C1000 DS

**INFORMATION**
The securement brackets on the front and rear frames are mounted ex works (see Fig. 76 and 77).

7.6.1 Installing the 491S00=SK028 Fixation Kit

**Required tools**
- Ring spanner, size 13
- Allen wrench, size 6

**Assembly**
1. Remove 2 mounting screws per side from the back end shield and install the retaining plate with pins on the left and right sides (see Fig. 78).
   - The pins are installed.
7.6.2 Securing the Battery
1. Attach and fasten the battery strap.
2. Push in the movable bolt of the additional security bar with your thumb.
3. Guide the security bar into the upper holds and let the bolt engage.
   → The battery is secured.

7.6.3 Using the Product in a Vehicle
Securing the product in the wheelchair accessible vehicle
1. Position the C1000 DS power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 82).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the end of the lap restraint belt onto the pin (see Fig. 81).
   → The lap restraint belt is pulled through and fastened.
7.7 B500, B600, C1000DS with Seat Height Adjustment

**INFORMATION**
The securement brackets on the front and rear frames are mounted ex works (see Fig. 83 and 84).

7.7.1 Installing the 491S00=SK030 Fixation Kit

**Required tools**
- Ring spanner, size 13
- Allen keys, sizes 5 and 6

**Assembly**
1. Remove the seat plate (see instructions for use).
2. Remove the screws (see Fig. 85, item 1) and install the retaining plate with pins on the left and right sides (see Fig. 86).
3. Install the seat plate (see the instructions for use).
   - The fixation kit is installed.
4. The auxiliary belt for the separate anchoring of the seat frame must be secured in the rear pin without the plastic ring. The pin with the plastic ring is intended for the lap restraint belt. When the product is not being transported, the other side of the belt (triangle) can be attached to the backrest on the hook-and-loop strap (see Fig. 87).

7.7.2 Using the Product in a Vehicle

**Securing the product in the wheelchair accessible vehicle**
1. Position the power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Engage the tie-down straps at the front and rear before tightening them.
   - The product showing the correct positioning of the tie-down straps (see Fig. 83 and 89): front left and right 1 strap respectively.
Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the ends of the lap restraint belt onto the front pins; the rear pins are used for anchoring (see Fig. 88).
   → The lap restraint belt is pulled through and fastened.

7.8 Skippi

**INFORMATION**

The securement brackets on the front and rear frames are mounted ex works (see Fig. 90 and 91).

7.8.1 Skippi without Seat Height Adjustment: Installing the 491S00=SK024 Fixation Kit

**Required tools**
- Ring spanners, sizes 10 and 13
Assembly
1. Screw the included pins into the bore holes provided in the seat angle on the left and right sides (see Fig. 92).
   → The fixation kit is installed.

7.8.2 Skippi with Seat Height Adjustment: Installing the 491S55=SK005 Fixation Kit

Required tools
• Ring spanner, size 13
• Allen keys, sizes 5 and 6

Assembly
1. Move the seat height adjustment up to the stop.
2. Remove 2 mounting screws per side from the back end shield and install the retaining plate with pins on the left and right sides (see Fig. 94).
   → The pins are installed.

7.8.3 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Skippi power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 93).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the end of the lap restraint belt onto the pin (see Fig. 95 and 96).
   → The lap restraint belt is pulled through and fastened.
7.9 Xeno

**WARNING**

**Inadequate transportation safety**

Uncontrolled movement or tipping over due to failure to follow transport instructions

- Make sure that the stand-up unit and seat tilt are in the basic setting.

**WARNING**

**Prohibited transportation of the passenger with activated back angle adjustment, stand-up unit and seat tilt**

Loss of safe restraint in the product

- Move the backrest to a nearly upright position prior to travel. Observe the related information in the product instructions for use.
- Check whether the selected tie-down straps are suitable for the actual weight of the wheelchair (from 140 kg).
- Make sure that the seat tilt and stand-up function are always deactivated before transportation in a wheelchair accessible vehicle.
- The kneepad should be used at all times during transportation in a wheelchair accessible vehicle.
- Fasten the chest belt and support strap behind the backrest before every trip. The chest belt and support strap must not be used during transport in a wheelchair accessible vehicle.
- Remove the headrest.
- Screw down any supports used before each trip in a wheelchair accessible vehicle.
- For the safety of the passenger seated in the product, use the shoulder belt provided in the wheelchair accessible vehicle.

**INFORMATION**

The securement brackets on the front and rear frames are mounted ex works (see Fig. 97 and 98).
7.9.1 Preparing the Seating Unit

INFORMATION
There are two versions of the seating unit. Version 1: see Fig. 99, version 2: see Fig. 100. If version 1 is installed, proceed with 7.9.2 Installing the 491S58=SK010 Fixation Kit. If Version 2 is installed, first carry out the following installation steps.

Required tools
- 2 ring spanners, size 17
- Open-end spanner, size 15
- Allen wrench, size 6

Assembly
1. Loosen the mounting screw (see Fig. 100, item 1) and the M10 hex nut (see Fig. 100, item 2). These two components are no longer needed when the anchor points are installed.
2. Slide the spacer ring (see Fig. 100, item 3) onto the mounting screw (see Fig. 100, item 4).
3. Slide in the mounting screw (see Fig. 100, item 1).
4. Replace the M10 hex nut (see Fig. 100, item 2) with a new M10 hex nut and mount the buckle with washers in between (see Fig. 104).
   - Installation torque for item 4: 55 Nm.
5. Repeat this process on the opposite side.

7.9.2 Installing the 491S58=SK010 Fixation Kit

Required tools
- 2 ring spanners, size 17
- Open-end spanner, size 15
- Allen wrench, size 6

Assembly
1. Install the belt attachment on the wheelchair frame (see Fig. 102).
   - Installation torque for item 5: 55 Nm
   - Installation torque for items 9 and 10: 20 Nm
2. Mount the anchor points and buckles to the rear bores of the seat frame on both sides (see Fig. 102).
   - Installation torque for item 6: 55 Nm
3. Line up the tie-down straps and buckles.
   - Loosen the screws and nuts slightly to do so.
   - Make the required adjustments and then re-tighten the screws and nuts (observe the installation torques).
4. Secure and tighten the tie-down straps. The stand-up unit and seat tilt are not activated in the basic setting during this step.
   → The fixation kit is installed.
7.9.3 Installing the 491S58=SK010 Fixation Kit with a Different Seating Unit, Rear

Required tools
- 2 ring spanners, size 17
- Open-end spanner, size 15
- Allen key, size 10

Assembly
1. Remove the mounting screw (see Fig. 103, item 1) and the M10 hex nut (see Fig. 103, item 2). These two components are no longer needed when the anchor points are installed.
2. Replace the mounting screw (see Fig. 103, item 1) with the anchor point adapter (see Fig. 103, item 4).
3. Replace the M10 hex nut (see Fig. 103, item 2) with a new self-locking M10 hex nut.
4. Insert the spacer ring (see Fig. 103, item 3).
5. For further assembly, proceed as shown in Fig. 104; 1 washer (item 4) is omitted (installation torque for item 6: 55 Nm).
6. Line up the tie-down straps and buckles.
   - Loosen the screws and nuts slightly to do so.
   - Make the required adjustments and then re-tighten the screws and nuts (observe the installation torques). dvkSÄ;lä
7. Secure and tighten the tie-down straps. The stand-up unit and seat tilt are not activated in the basic setting during this step.
   → The fixation kit is installed.
1 Plastic ring
2 Anchor point pin
3 Buckle
4 Washer 7/16
5 Anchor point adapter
6 Hexagon nut, M10, self-locking

1 Mounting screw
2 Hexagon nut, M10, self-locking
3 Spacer ring
4 Anchor point adapter
7.9.4 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Xeno power wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Turn the control unit off.
3. Connect the seat retaining straps at the left and right under the seat (see Fig. 104) to the buckle tongues on the seat.
4. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 97 and 98).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the end of the lap restraint belt onto the pin (see Fig. 106).
3. Position the knee strap.
4. Engage the shoulder belt of the wheelchair accessible vehicle in the lap restraint belt.
   → The lap restraint belt is pulled through and fastened.
   → The product passenger is secured.
8 Product-Specific Instructions – Manual Wheelchairs

WARNING
Inadequate transportation safety
Uncontrolled movement or tipping over due to failure to follow transport instructions
▶ Ensure correct fixation kits are used.
▶ Use the approved 4/6-point tie-down straps anchored in the wheelchair accessible vehicle to secure the wheelchair. Restrain the passenger with a 3-point belt in the wheelchair or to the motor vehicle. The securement brackets on the product must be compatible with the strap ends of the restraint system.
▶ Secure the product in the wheelchair accessible vehicle as described in the chapter "Instructions for Securing the Product in a Wheelchair Accessible Vehicle".

WARNING
Prohibited transportation of the passenger with activated back angle adjustment
Loss of safe restraint in the product due to user error
▶ Ensure the passenger is seated in a nearly upright position during transport.
▶ Move the backrest to a nearly upright position prior to travel.
▶ Check the locking mechanism on both sides.
▶ Observe the related information in the product instructions for use.

8.1 Avantgarde CS
8.1.1 Installing the 481S64=SK010 Fixation Kit

Required tools
• Ring spanners, sizes 10 and 13
• Allen keys, sizes 4 and 5

Assembly
1. Attach the pipe clamps to the frame at the positions indicated.
2. Screw 1 anchor plate to each of the D24 pipe clamps on the left and right of the front frame.
   ➔ The securement brackets and hook symbols face outwards (see Fig. 107).
3. Screw 1 anchor plate to the left and right of the rear frame respectively (see Fig. 108).
   ➔ The securement brackets and hook symbols face outwards.
4. Screw the included pins onto the retaining plates on the left and right sides. Do not fully tighten the screws until you have installed all pipe clamps and anchor plates and have turned them to the proper angles.
   ➔ The fixation kit is installed.
8.1.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Avantgarde CS wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 110).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 111).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 112).
   → The lap restraint belt is pulled through and fastened.

8.1.3 Securing with Belt Loops (Crash-Tested According to ISO 7176-19)

Required materials
• 4 belt loops (e.g. from Unwin Safety Systems, Q’straint)

Assembly
1. Attach one belt loop around the frame tube on the left and right of the front frame, respectively, wrapping around the frame tube once or twice depending on the length.
2. Attach the hooks of the safety belt system to the belt loops.
3. Before tightening the safety belt system, check that the belt loops are positioned correctly (see Fig. 113).
4. Insert 1 belt loop at the left and right, respectively, between the upper frame section and seat tube (see Fig. 110).
5. Attach the hooks of the safety belt system to the belt loops.
6. Before tightening the restraint system, check that the belt loops are positioned correctly (see Fig. 113 and Fig. 114).
   → The belt loops are installed.
8.1.4 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Avantgarde CS wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps in the belt loops at the front and rear, and then tighten them.
   \(\rightarrow\) The product showing the correct positioning of the tie-down straps (see Fig. 115).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 116).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 117).
   \(\rightarrow\) The lap restraint belt is pulled through and fastened.
8.2 Avantgarde CV

8.2.1 Installing the 481S64=SK015 Fixation Kit

Required tools
• Ring spanners, sizes 10 and 13
• Allen keys, sizes 4 and 5

Assembly
1. Screw 1 anchor plate to each side of the front frame.
   → The securement brackets and hook symbols face outwards (see Fig. 118).
2. Screw 1 anchor plate to each side of the rear frame (see Fig. 119).
   → The securement brackets and hook symbols face outwards.
3. Screw the included pins onto the retaining plates on the left and right sides.
   → The fixation kit is installed.

8.2.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Avantgarde CV wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 121).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 122).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 123).
   → The lap restraint belt is pulled through and fastened.
8.2.3 Securing with Belt Loops (Crash-Tested According to ISO 7176-19)

Required materials
• 4 belt loops (e.g. from Unwin Safety Systems, Q*straint)

Assembly
1. Attach one belt loop around the frame tube on the left and right of the front frame, respectively, wrapping around the frame tube once or twice depending on the length.
2. Attach the hooks of the safety belt system to the belt loops.
3. Before tightening the restraint system, check that the belt loops are positioned correctly (see Fig. 124).
4. Insert 1 belt loop at the left and right, respectively, between the upper frame section and seat tube (see Fig. 121).
5. Attach the hooks of the safety belt system to the belt loops.
6. Before tightening the restraint system, check that the belt loops are positioned correctly (see Fig. 124 and Fig. 125).
   → The belt loops are installed.
8.2.4 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Avantgarde CV wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps in the belt loops at the front and rear, and then tighten them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 126).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 127).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 128).
   → The lap restraint belt is pulled through and fastened.

8.3 Start M1 Intro, Start M2 Effect

8.3.1 Installing the 481S00=SK030 Fixation Kit

Required tools
• Ring spanners, sizes 10 and 13
• Allen keys, sizes 4 and 5

Assembly
1. Screw 1 anchor plate to each side of the front frame.
   → The securement brackets and hook symbols face outwards (see Fig. 129).
2. Screw 1 anchor plate to each side of the rear frame (see Fig. 130).
   → The securement brackets and hook symbols face outwards.
3. Screw the included pins onto the retaining plates on the left and right sides.
   → The fixation kit is installed.
8.3.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   ➔ The product showing the correct positioning of the tie-down straps (see Fig. 132).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 133).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 134).
   ➔ The lap restraint belt is pulled through and fastened.

8.4 Start M3 Hemi

8.4.1 Installing the 481S00=SK030 Fixation Kit

Required tools
• Ring spanners, sizes 10 and 13
• Allen keys, sizes 4 and 5

Assembly
1. Screw 1 anchor plate to each side of the front frame.
   ➔ The securement brackets and hook symbols face outwards (see Fig. 135).
2. Screw 1 anchor plate to each side of the rear frame (see Fig. 136).
   ➔ The securement brackets and hook symbols face outwards.
3. Screw the included pins onto the retaining plates on the left and right sides.
   ➔ The fixation kit is installed.
8.4.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Start M3 Hemi wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   ➔ The product showing the correct positioning of the tie-down straps (see Fig. 138).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 139).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 140).
   ➔ The lap restraint belt is pulled through and fastened.
8.5 Start M5 Comfort

8.5.1 Installing the 481S00=SK030 Fixation Kit

Required tools
- Ring spanners, sizes 10 and 13
- Allen keys, sizes 4 and 5

Installing the anchor plates
1. Remove the wheels and side panels (see instructions for use).
2. Remove the mounting screws (see Fig. 141, item 1) and replace with the longer screws provided (see Fig. 142). Remember the spacer sleeves.
3. Attach the angle brackets and tighten all screws (see Fig. 143).
4. Remount the wheels and the side panels.
   → The anchor plates are installed.

Mounting the front angle brackets
1. Dismantle the footrest holders (see instructions for use).
2. Remove the cover caps (see Fig. 145, item 1).
3. Remove the mounting screws (see Fig. 146) and mount the angle brackets with the provided screws (see Fig. 147).
4. Tighten the screws (see Fig. 148).
5. Mount the footrest holders and the cover caps.
   → The front angle brackets are installed.
   → The fixation kit is installed.
8.5.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Start M5 Comfort wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 150).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the end of the lap restraint belt onto the pin (see Fig. 149).
   → The lap restraint belt is pulled through and fastened.
8.6 Start M6 Junior

8.6.1 Installing the 481S00=SK030 Fixation Kit

Required tools
- Ring spanners, sizes 10 and 13
- Allen keys, sizes 4 and 5

Assembly
1. Screw 1 anchor plate to each side of the front frame. 
   → The securement brackets and hook symbols face outwards (see Fig. 151).
2. Screw 1 anchor plate to each side of the rear frame (see Fig. 152).
   → The securement brackets and hook symbols face outwards.
3. Screw the included pins onto the retaining plates on the left and right sides. 
   → The fixation kit is installed.

8.6.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Start M6 Junior wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them. 
   → The product showing the correct positioning of the tie-down straps (see Fig. 153).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the end of the lap restraint belt onto the pin (see Fig. 154). 
   → The lap restraint belt is pulled through and fastened.
8.7 Bravo Racer

8.7.1 Installing the 481S00=SK040 Fixation Kit

**Required tools**

- Ring spanners, sizes 10 and 13
- Allen keys, sizes 4 and 5
- Combination pliers

**Installing the anchor plates**

1. Remove the wheels (see instructions for use).
2. Loosen the axle nut (see Fig. 156, item 1), remove the nuts from the clamping bracket (see Fig. 156, item 2) and push back the clamping bracket.
3. Attach the anchor plate and push the clamping bracket back on again.
4. Tighten the nuts and the axle nut.
5. Reinstall the wheels.
   → The anchor plates are installed.

**Mounting the clips**

1. Slide the clip over the tube.
2. Press the clip together with a combination pliers.
3. Insert a screw into the anchor plate through the hole and tighten it. Make sure that the clip lies against the caster journal bearing (see Fig. 158).
4. Tighten the screws.
   → The clips are mounted.
   → The fixation kit is installed.
8.7.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Bravo Racer wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   ➔ The product showing the correct positioning of the tie-down straps (see Fig. 161).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 160).
2. Hook the end of the lap restraint belt onto the pin.
   ➔ The lap restraint belt is pulled through and fastened.

8.8 Motus CV

8.8.1 Installing the 481S00=SK055 Fixation Kit

Required tools
• Ring spanners, sizes 10 and 13
• Allen keys, sizes 4 and 5

Installing the rear anchor plates
1. Remove the wheels and side panels (see instructions for use).
2. Remove the mounting screws (see Fig. 162, item 1) and replace with the longer screws provided.
3. Attach the angle brackets and tighten all screws (see Fig. 163).
4. Remount the wheels and the side panels.
   ➔ The rear anchor plates are installed.

Installing the front anchor plates
1. Remove the protective caps (see Fig. 164).
2. Remove the screws (see Fig. 165).
3. Remove the screws on the half-shell (see Fig. 166).
4. Mount the anchor plate with the half-shell and fasten the screws.
5. Mount the extra rear screw with the spacer (see Fig. 167) and tighten all screws.
6. Replace the protective caps.
   → The front anchor plates are installed.
   → The fixation kit is installed.
8.8.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 171).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the end of the lap restraint belt onto the pin (see Fig. 170).
   → The lap restraint belt is pulled through and fastened.

8.9 Motus CS

8.9.1 Installing the 481S00=SK065 Fixation Kit

Required tools
• Ring spanners, sizes 10 and 13
• Allen keys, sizes 4 and 5
• Combination pliers

Installing the rear anchor plates
1. Remove the wheels (see instructions for use).
2. Remove the mounting screws (see Fig. 172, item 1) and replace with the longer screws provided.
3. Attach the anchor plate and fasten the nuts. Remember the spacer piece when fixing the front screw.
4. Tighten all screws (see Fig. 173).
5. Reinstall the wheels.
   → The anchor plates are installed.
Mounting the clips
1. Slide the D24 Clips over the tube.
2. Press the clips together with a combination pliers and screw them together with the anchor plate (see Fig. 174).
3. Tighten the screws (see Fig. 175).
   → The clips are mounted.
   → The fixation kit is installed.

8.9.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Motus wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   The product showing the correct positioning of the tie-down straps (see Fig. 177).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside.
2. Hook the end of the lap restraint belt onto the pin (see Fig. 176).
   → The lap restraint belt is pulled through and fastened.
9 Product-Specific Instructions – Seating Shell Mobility Bases

**WARNING**
Inadequate transportation safety
Uncontrolled movement or tipping over due to failure to follow transport instructions
- Ensure correct fixation kits are used.
- Use the approved 4/6-point tie-down straps anchored in the wheelchair accessible vehicle to secure the wheelchair. Restrain the passenger with a 3-point occupant restraint system in the wheelchair or vehicle. The securement brackets on the product must be compatible with the strap ends of the restraint system.
- Secure the product in the wheelchair accessible vehicle as described in the chapter "Instructions for Securing the Product in a Wheelchair Accessible Vehicle".

**WARNING**
Prohibited transportation of the passenger with activated back angle adjustment and seat tilt
Loss of safe restraint in the product due to user error
- Ensure the passenger is seated in a nearly upright position during transport.
- Move the backrest to a nearly upright position prior to travel.
- Check the locking mechanism on both sides.
- Observe the related information in the product instructions for use.

9.1 Dino 3

9.1.1 Installing the 471S00=SK021 Fixation Kit

**Required tools**
- Ring spanners, sizes 10 and 13
- Allen keys, sizes 4 and 5

**Assembly**
1. Attach the pipe clamps to the frame at the positions indicated.
2. Screw 1 anchor plate to each side of the front frame above the caster journals. → The securement brackets face outwards (see Fig. 178).
3. Screw 1 anchor plate to each side of the rear frame (see Fig. 179). → The securement brackets and hook symbols face outwards (see Fig. 180).
4. Screw the included pins onto the retaining plates on the left and right sides. Do not fully tighten the screws until you have installed all pipe clamps and anchor plates and have turned them to the proper angles. → The fixation kit is installed.
9.1.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Dino 3 wheelchair in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 178 and 179).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 180).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 181).
   → The lap restraint belt is pulled through and fastened.

9.2 Discovery tmax

9.2.1 Installing the 471S22=SK010 Fixation Kit

Required tools
• Ring spanners, sizes 13 and 17
• Allen keys, sizes 5 and 6

Assembly
1. Screw 1 securement bracket to each side of the front frame.
   → The securement brackets and hook symbols face outwards (see Fig. 182).
2. Screw 1 securement bracket to each side of the rear frame (see Fig. 183).
   → The securement brackets and hook symbols face outwards.
3. Screw the provided pins to the rear securement brackets on the left and right sides.
   → The fixation kit is installed.
9.2.2 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Discovery tmax seating shell mobility base in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   ➔ The product showing the correct positioning of the tie-down straps (see Fig. 185).

Positioning the crashworthy integrated lap restraint belt
1. Pull each end of the lap restraint belt from the inner side of the seat through to the outside (see Fig. 186).
2. Hook the end of the lap restraint belt onto the pin (see Fig. 187).
   ➔ The lap restraint belt is pulled through and fastened.
9.3 Discovery
The Discovery seating shell mobility base is always equipped with fixation points. No additional fixation sets are required for the seating shell mobility base.

9.3.1 Using the Product in a Vehicle

Securing the product in the wheelchair accessible vehicle
1. Position the Discovery seating shell mobility base in the wheelchair accessible vehicle as described in Chapter 5.
2. Engage the tie-down straps at the front and rear before tightening them.
   → The product showing the correct positioning of the tie-down straps (see Fig. 190).

Positioning the crashworthy integrated lap restraint belt
1. Place the passenger in a nearly upright seated position.
2. Pull each end of the lap restraint belt from the inner side of the seat through between the upholstery and the frame to the outside.
3. Hook the end of the lap restraint belt onto the pin (see Fig. 191).
4. Check that the belt strap is not twisted but rests flat against the passenger’s body.
5. Tighten the strap, taking the user’s comfort into account.
6. If required, attach the calf strap on the frame and position the passenger’s feet behind the calf strap.
   → The lap restraint belt is pulled through and fastened.
## 10 Technical Data

<table>
<thead>
<tr>
<th>Product</th>
<th>Dimensions LxWxH (mm)</th>
<th>Weight (kg)</th>
<th>Max. load capacity (kg)</th>
<th>ANSI/RESNA</th>
<th>ISO 7176-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa Gr. 1</td>
<td>1075 x 585 x 1035</td>
<td>13,5</td>
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<td>Lisa Gr. 2</td>
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<td>Kimba neo Gr. 1</td>
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<tr>
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<td>x</td>
</tr>
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<td>95,0</td>
<td>100</td>
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<td>x</td>
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<td>100</td>
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<td>x</td>
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<tr>
<td>B500S</td>
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<td>100</td>
<td>x</td>
<td>-</td>
</tr>
<tr>
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</tr>
<tr>
<td>C1000DS</td>
<td>1200 x 650 x 1030</td>
<td>129,0</td>
<td>100</td>
<td>x</td>
<td>-</td>
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<tr>
<td>Skippi/Skippi +</td>
<td>850 x 580 x 1030</td>
<td>62,0</td>
<td>50</td>
<td>x</td>
<td>x</td>
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<td>Xeno</td>
<td>1010 x 650 x 1600</td>
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<td>100</td>
<td>x</td>
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<td>Avantgarde CS</td>
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</tr>
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<td>Avantgarde CV</td>
<td>1080 x 725 x *</td>
<td>14,2</td>
<td>100</td>
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<td>Start M1 Intro</td>
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<td>Start M2 Effect</td>
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<td>15,5</td>
<td>100</td>
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<tr>
<td>Start M3 Hemi</td>
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<td>100</td>
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</tr>
<tr>
<td>Start M5 Comfort</td>
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<td>Start M6 Junior</td>
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<td>60</td>
<td>x</td>
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<tr>
<td>Bravo Racer</td>
<td>860 x 500 x 910</td>
<td>8,0</td>
<td>60</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Motus CV</td>
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<td>12,8</td>
<td>100</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Motus CS</td>
<td>1030 x 600 x 1030</td>
<td>12,8</td>
<td>100</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Dino 3</td>
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<td>x</td>
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<tr>
<td>Discovery tmax</td>
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<td>x</td>
</tr>
<tr>
<td>Discovery</td>
<td>920 x 505 x 1120</td>
<td>17,5</td>
<td>100</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

* Height depends on the user
11 Restrictions for Use

**WARNING**

**Using the product with installed options**
Severe injury in case of accidents due to options coming loose

- Before using the product as a seat in a wheelchair accessible vehicle, remove options that need to be taken off for safe transportation in a wheelchair accessible vehicle.
- Stow all dismantled components securely in the wheelchair accessible vehicle.
- Please note that certain settings on the product exclude the use of the product in a wheelchair accessible vehicle.

### 11.1 Restrictions for Rehab Buggies

<table>
<thead>
<tr>
<th>Product</th>
<th>Option</th>
<th>No transport possible</th>
<th>Option must be removed</th>
<th>Secure option on product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa</td>
<td>Buggy board</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Canopy</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eco Buggy</td>
<td>Sun canopy</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;Techno&quot; buggy board</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kimba neo</td>
<td>Oxygen platform</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sun canopy</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grab rail</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tray</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diaper bag</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Backpack</td>
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</tr>
<tr>
<td></td>
<td>Buggy board</td>
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</table>
### 11.2 Restrictions for Power Wheelchairs

<table>
<thead>
<tr>
<th>Power wheelchairs</th>
<th>Option</th>
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<th>Option must be removed</th>
<th>Secure option on product</th>
</tr>
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<tbody>
<tr>
<td>A200</td>
<td>Height-adjustable control panel holder, swing-away</td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>Headrest with mounting kit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seat belt with buckle</td>
<td></td>
<td>X**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tray, swing-away to the side</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>B400</td>
<td>Mechanical seat tilt 20°</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electric seat tilt 20°</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Control panel holder, swing-away in parallel</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Height-adjustable control panel holder, swing-away</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Headrest with mounting kit</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>B500</td>
<td>Recaro n-Joy (manually adjustable backrest)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Recaro n-Joy-Plus (adaptable on site)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Modular Recaro seating system</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mechanical seat tilt 20°</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electric seat tilt 20°</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Four-way chest strap kit, static</td>
<td></td>
<td>X**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seat belt with buckle</td>
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<td>X**</td>
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<td></td>
<td>Headrest with mounting kit</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mid-tray control, swing-away to the right or left</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chin control with mini joystick, electrically swing-away</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chin control with midi joystick, electrically swing-away</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sip and puff control (standard control panel included)</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Control panel holder, swing-away in parallel</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Height-adjustable control panel holder, swing-away</td>
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<td>X</td>
<td></td>
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<tr>
<td></td>
<td>Tray, swing-away to the side</td>
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<td>X</td>
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</tr>
<tr>
<td></td>
<td>Combination of:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Standard seat, large, and seat height 45 cm/17.7”</td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>• Contour seat, large, and seat height 52 cm/20.5”</td>
<td></td>
<td>X</td>
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<tr>
<td>B500S</td>
<td>Recaro n-Joy (manually adjustable backrest)</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>Recaro n-Joy-Plus (adaptable on site)</td>
<td>X</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Modular Recaro seating system</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Four-way chest strap kit, static</td>
<td></td>
<td>X**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seat belt with buckle</td>
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<td>X**</td>
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<tr>
<td></td>
<td>Headrest with mounting kit</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mid-tray control, swing-away to the right or left</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Control panel holder, swing-away in parallel</td>
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<td></td>
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<tr>
<td></td>
<td>Height-adjustable control panel holder, swing-away</td>
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<td>X</td>
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<tr>
<td></td>
<td>Tray, swing-away to the side</td>
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<td>X</td>
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</table>
# Restrictions for Use

## Power wheelchairs

<table>
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<tr>
<th>Product</th>
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<th>Option must be removed</th>
<th>Secure option on product</th>
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<tbody>
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<td><strong>B600</strong></td>
<td>Recaro n-Joy (manually adjustable backrest)</td>
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<td>Recaro n-Joy-Plus (adaptable on site)</td>
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<tr>
<td></td>
<td>Modular Recaro seating system</td>
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<tr>
<td></td>
<td>Electric seat height adjustment &quot;Heavy Duty&quot; (up to 30 cm)</td>
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<tr>
<td></td>
<td>Four-way chest strap kit, static</td>
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<td></td>
</tr>
<tr>
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<td>Seat belt with buckle</td>
<td>X**</td>
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<tr>
<td></td>
<td>Headrest with mounting kit</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chin control with mini joystick, electrically swing-away</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Chin control with midi joystick, electrically swing-away</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foot control, left or right (standard control panel included)</td>
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</tr>
<tr>
<td></td>
<td>Sip and puff control (standard control panel included)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Control panel holder, swing-away in parallel</td>
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</tr>
<tr>
<td></td>
<td>Height-adjustable control panel holder, swing-away</td>
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<tr>
<td></td>
<td>Platform for respirator</td>
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<td>Combination of:</td>
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<tr>
<td></td>
<td>• Standard seat, large, and seat height 45 cm/17.7&quot;</td>
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<td>• Contour seat, large, and seat height 52 cm/20.5&quot;</td>
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<td><strong>C1000 DS</strong></td>
<td>Recaro n-Joy (manually adjustable backrest)</td>
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<td>Recaro n-Joy-Plus (adaptable on site)</td>
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<td>Modular Recaro seating system</td>
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<td>Electric seat height adjustment &quot;Heavy Duty&quot; (up to 30 cm)</td>
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<td>Four-way chest strap kit, static</td>
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<tr>
<td></td>
<td>Seat belt with buckle</td>
<td>X**</td>
<td></td>
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<tr>
<td></td>
<td>Headrest with mounting kit</td>
<td>X</td>
<td></td>
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<td></td>
<td>Two 94 Ah (C5) gel batteries</td>
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<tr>
<td></td>
<td>Mid-tray control, swing-away to the right or left</td>
<td>X</td>
<td></td>
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<tr>
<td></td>
<td>Chin control with mini joystick, electrically swing-away</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Chin control with midi joystick, electrically swing-away</td>
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<td></td>
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<tr>
<td></td>
<td>Foot control, left or right (standard control panel included)</td>
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<tr>
<td></td>
<td>Sip and puff control (standard control panel included)</td>
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<tr>
<td></td>
<td>Control panel holder, swing-away in parallel</td>
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</tr>
<tr>
<td></td>
<td>Height-adjustable control panel holder, swing-away</td>
<td>X</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Tray, swing-away to the side</td>
<td>X</td>
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### Power wheelchairs

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<td>Seat belt with buckle</td>
<td></td>
<td></td>
<td>X**</td>
</tr>
<tr>
<td></td>
<td>Mid-tray control, swing-away to the right or left</td>
<td></td>
<td></td>
<td>X</td>
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<tr>
<td></td>
<td>Chin control with mini joystick, electrically swing-away</td>
<td></td>
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<td>X</td>
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<tr>
<td></td>
<td>Chin control with midi joystick, electrically swing-away</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Control panel holder, swing-away in parallel</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Tray, swing-away to the side</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Xeno</td>
<td>Thoracic supports, width- and height-adjustable</td>
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<td>Lateral supports, width- and depth-adjustable</td>
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<tr>
<td></td>
<td>Headrest with mounting kit</td>
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<tr>
<td></td>
<td>Four-way chest strap kit</td>
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<td>X**</td>
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<td></td>
<td>Chin control with mini joystick, electrically swing-away</td>
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<td>X</td>
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<tr>
<td></td>
<td>Chin control with midi joystick, electrically swing-away</td>
<td></td>
<td></td>
<td>X</td>
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<tr>
<td></td>
<td>Control panel holder, swing-away in parallel</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Height-adjustable control panel holder, swing-away</td>
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<td></td>
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<tr>
<td></td>
<td>Luggage carrier</td>
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<td></td>
<td>Tray, angle- adjustable</td>
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### 11.3 Restrictions for Seating Shell Mobility Bases

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<td>Discovery tmax</td>
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<td>Discovery</td>
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### 11.4 Restrictions for Manual Wheelchairs

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<tr>
<td><strong>Avantgarde CS</strong></td>
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<td></td>
</tr>
<tr>
<td>Add-on drives: z10, z10-ce, z50, e-Support</td>
<td>X</td>
<td></td>
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<td></td>
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<tr>
<td>Crutch holder with tip-assist right or left</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheelbase extension</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back, angle-adjustable</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back height &lt; 40 cm</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FrogLeg caster axle</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shock absorber</td>
<td>X</td>
<td></td>
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</tbody>
</table>

**Combination of:**

- Rear seat height \(\geq 50\) cm, 25° rear wheel and padded armrest
- Rear seat height \(\geq 47\) cm, 24° rear wheel and padded armrest
- Rear seat height \(\geq 42\) cm, 22° rear wheel and padded armrest
- Seat depth 36 - 42 cm, front frame type 70°, offset 2 cm, 80°, offset 2 cm and side panel with armrest short, side panel with armrest long
- Seat depth < 38 cm, front frame type 90° and rear wheel 22°
- Seat depth < 40 cm, front frame type 90° and rear wheel 24°
- Seat depth < 42 cm, front frame type 90° and rear wheel 25°
- Combination of seat depth 38 cm, front frame type 90°, rear wheel 22° and horizontal rear wheel position C through G
- Seat depth 40 cm, front frame type 90°, rear wheel 24° and horizontal rear wheel position C through F
- Seat depth 42 cm, front frame type 90°, rear wheel 25° and horizontal rear wheel position C through F
- Seat depth 40 cm, front frame type 90°, rear wheel 22° and horizontal rear wheel position D through G
- Seat depth 42 cm, front frame type 90°, rear wheel 24° and horizontal rear wheel position D through G
- Transport wheel | X* |
- Tray | X |
- Lap restraint belt | X** |
## Manual wheelchairs

<table>
<thead>
<tr>
<th>Product</th>
<th>Option</th>
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<th>Secure option on product</th>
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<tbody>
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<td>Avantgarde CV</td>
<td>Add-on drives: z10, z10-ce, z50, e-Support</td>
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<tr>
<td></td>
<td>Crutch holder</td>
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</tr>
<tr>
<td></td>
<td>Wheelbase extension</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Back, angle-adjustable</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Back height &lt; 40 cm</td>
<td>X</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>FrogLeg caster axle</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>Shock absorber</td>
<td>X</td>
<td></td>
<td></td>
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<td></td>
<td>Combination of:</td>
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<tr>
<td></td>
<td>• Seat depth &lt; 40 cm and rear wheel 24&quot;</td>
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</tr>
<tr>
<td></td>
<td>• Seat depth &lt; 42 cm and rear wheel 25&quot;</td>
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<td></td>
<td>• Rear seat height &gt;=50 cm,</td>
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<tr>
<td></td>
<td>rear wheel 25&quot; and padded armrest</td>
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<tr>
<td></td>
<td>• Rear seat height &gt;=47 cm,</td>
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</tr>
<tr>
<td></td>
<td>rear wheel 24&quot; and padded armrest</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Rear seat height &gt;= 42 cm,</td>
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<td></td>
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<tr>
<td></td>
<td>22&quot; rear wheel and padded armrest</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>• Front seat height 39 cm,</td>
<td>X</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>40 cm, 3&quot; steering caster and caster fork short</td>
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<tr>
<td></td>
<td>• Front seat height 45 cm,</td>
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<tr>
<td></td>
<td>3&quot; steering caster and caster fork long</td>
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<tr>
<td></td>
<td>• Front seat height 39 – 41 cm,</td>
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<td></td>
<td>4&quot; steering caster and caster fork short</td>
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<td></td>
<td>• Front seat height 45 cm,</td>
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<tr>
<td></td>
<td>4&quot; steering caster and caster fork long</td>
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<td>• Front seat height 39 – 42 cm,</td>
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<tr>
<td></td>
<td>5&quot; steering caster and caster fork short</td>
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<td>• Front seat height 43 cm,</td>
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<td>5.5&quot; steering caster and caster fork long</td>
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<td>• Front seat height 44 cm,</td>
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<td>6&quot; steering caster and caster fork long</td>
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<td>• Front seat height 45 cm – 48 cm,</td>
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<td>7&quot; steering caster and caster fork long</td>
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<td>• Seat depth 40 cm, rear wheel 24&quot; and horizontal rear wheel position C, D</td>
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<td>• Seat depth 42 cm, rear wheel 25&quot; and horizontal rear wheel position C, D</td>
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<td></td>
<td>Transport wheel</td>
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<td></td>
<td>Tray</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Lap restraint belt</td>
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## Manual wheelchairs

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</tr>
<tr>
<td></td>
<td>Folding back</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Wheelbase long/passive</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>Combination of:</td>
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<tr>
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<td>• 22'' rear wheel and rear seat height &lt; 38 cm</td>
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<td></td>
<td>• 24'' rear wheel and rear seat height &lt; 41 cm</td>
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<td>Transport wheel</td>
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<td>Tray</td>
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<td>Back angle adjustment, 30°</td>
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<td>Folding back</td>
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<td>Wheelbase long/passive</td>
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<td>Combination of:</td>
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<td>• 24'' rear wheel and rear seat height &lt; 41 cm</td>
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<td></td>
<td>Clinical mounting kit</td>
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<td>Headrest with mounting kit</td>
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<td>Stabiliser bar</td>
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<td></td>
<td>Transport wheel</td>
<td></td>
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<td>Tray</td>
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<td></td>
<td>Lap restraint belt</td>
<td></td>
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<td>Folding back</td>
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<td>Wheelbase long/passive</td>
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<td>• 22'' rear wheel and rear seat height &lt; 40 cm</td>
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<td>• 24'' rear wheel and rear seat height &lt; 43 cm</td>
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<td>Clinical mounting kit</td>
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<td>Headrest with mounting kit</td>
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<td>X*</td>
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<td>Stabiliser bar</td>
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<tr>
<td></td>
<td>Transport wheel</td>
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<td>Tray</td>
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<td></td>
<td>Lap restraint belt</td>
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### Manual wheelchairs

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<td>Back angle adjustment, 30°</td>
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<tr>
<td></td>
<td>Folding back</td>
<td>X</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Wheelbase long/passive</td>
<td>X</td>
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<td></td>
<td>Combination of:</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 22&quot; rear wheel and rear seat height &lt; 40 cm</td>
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<td>• 24&quot; rear wheel and rear seat height &lt; 43 cm</td>
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<td>The Back</td>
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<td></td>
<td>Clinical mounting kit</td>
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<tr>
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<td>Headrest with mounting kit</td>
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<tr>
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<td>Stabiliser bar</td>
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<tr>
<td></td>
<td>Transport wheel</td>
<td>X*</td>
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<td></td>
<td>Tray</td>
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<td>Clinical mounting kit</td>
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<td>Headrest installation kit, multi-axis</td>
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<td>Stabiliser bar</td>
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<td></td>
<td>Transport wheel</td>
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<td></td>
<td>Tray</td>
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<tr>
<td></td>
<td>Lap restraint belt</td>
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### Manual wheelchairs

<table>
<thead>
<tr>
<th>Product</th>
<th>Option</th>
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<th>Option must be removed</th>
<th>Secure option on product</th>
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<tbody>
<tr>
<td>Motus CV</td>
<td>Add-on drives: z10, z10-ce, z50, e-Support</td>
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<td>Crutch holder right or left</td>
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<td>Seat width 50 – 53.5</td>
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<td>Back angle adjustment, 30°</td>
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<td></td>
<td>Wheelbase extension</td>
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<td>Caster adapter for low anterior seat heights</td>
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<td>Combination of:</td>
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<tr>
<td></td>
<td>• Seat depth &lt; 38 cm and rear wheel 22&quot;</td>
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<tr>
<td></td>
<td>• Seat depth &lt; 40 cm and rear wheel 24&quot;</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>• Seat depth 38 cm, rear wheel 22&quot; and horizontal</td>
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<tr>
<td></td>
<td>rear wheel position C, D</td>
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<tr>
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<td>• Seat depth 40 cm, rear wheel 24&quot; and horizontal</td>
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<tr>
<td></td>
<td>rear wheel position C, D</td>
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<td>• Seat depth 42 cm, rear wheel 24&quot; and horizontal</td>
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<tr>
<td></td>
<td>rear wheel position D</td>
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<td></td>
<td>• Rim with drum brake/attendant and horizontal</td>
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<tr>
<td></td>
<td>rear wheel position A</td>
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<td>• Rear seat height 49 cm and rear wheel 22&quot;</td>
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<td></td>
<td>• Rear seat height 52 cm and rear wheel 24&quot;</td>
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<td></td>
<td>Tray</td>
<td>X</td>
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<tr>
<td></td>
<td>Lap restraint belt</td>
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### Manual wheelchairs

<table>
<thead>
<tr>
<th>Product</th>
<th>Option</th>
<th>No transport possible</th>
<th>Option must be removed</th>
<th>Secure option on product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motus CS</td>
<td>Add-on drives: z10, z10-ce, z50, e-Support</td>
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<td>Crutch holder right or left</td>
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<td>Seat width 50 – 53.5 cm</td>
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<tr>
<td></td>
<td>Back angle adjustment, 30°</td>
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<tr>
<td></td>
<td>Wheelbase extension</td>
<td>X</td>
<td></td>
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<td></td>
<td>Back height &lt; 40 cm</td>
<td>X</td>
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<tr>
<td></td>
<td>Combination of:</td>
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<tr>
<td></td>
<td>• Seat depth &lt; 38 cm and rear wheel 22&quot;</td>
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<tr>
<td></td>
<td>• Seat depth &lt; 40 cm and rear wheel 24&quot;</td>
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<tr>
<td></td>
<td>• Seat depth 38 cm, rear wheel 22&quot; and horizontal rear wheel position B, C, D</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>• Seat depth 40 cm, rear wheel 22&quot; and horizontal rear wheel position C, D</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>• Seat depth 42 cm, rear wheel 22&quot; and horizontal rear wheel position D</td>
<td>X</td>
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<td>• Seat depth 40 cm, rear wheel 24&quot; and horizontal rear wheel position B, C, D</td>
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<tr>
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<td>• Seat depth 42 cm, rear wheel 24&quot; and horizontal rear wheel position C, D</td>
<td>X</td>
<td></td>
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<tr>
<td></td>
<td>• Rim with drum brake / attendant and horizontal rear wheel position A</td>
<td>X</td>
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<tr>
<td></td>
<td>• Rear seat height 49 cm and rear wheel 22&quot;</td>
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<td></td>
<td>• Rear seat height 52 cm and rear wheel 24&quot;</td>
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<tr>
<td></td>
<td>Transport wheel</td>
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<td>Tray</td>
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<td>Lap restraint belt</td>
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<tr>
<td>Bravo Racer</td>
<td>Axle with camber 9°</td>
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<td>• Seat width 20 – 26 cm and back height &lt; 30 cm</td>
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<tr>
<td></td>
<td>Lap restraint belt</td>
<td>X**</td>
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</tr>
</tbody>
</table>

*: Transport wheels can remain on the wheelchair with installed rear wheels during transportation in a wheelchair accessible vehicle

**: Seat belt can be used to position the passenger during transportation. Using the occupant restraint system is nevertheless required (see Chapter 5).
12 Discontinued Products
The following products on the market that are suitable for use in a wheelchair accessible vehicle have already been discontinued by the manufacturer:
• Kimba Spring
• Avantgarde T
• Avantgarde VR
• Start Basic
• Start Multi
• Start Plus

**INFORMATION**
If you want to retrofit a discontinued Ottobock product for use as a seat in a wheelchair accessible vehicle, contact the manufacturer.

13 Maintenance/Repair
The manufacturer recommends regular maintenance of the product every 12 months.

14 Disposal
14.1 Disposal Information
All product components must be disposed of properly in accordance with national regulations.

15 Legal Information
15.1 Liability
The manufacturer’s warranty applies only if the product has been used under the conditions and for the purposes described. The manufacturer recommends that the device be used and maintained according to the instructions for use.
The manufacturer is not responsible for damages caused by components and spare parts not approved by the manufacturer. Repairs must be carried out exclusively by authorised dealers or by the manufacturer.

15.2 Warranty Terms and Conditions
Further information on the warranty terms and conditions is available from the manufacturer’s service (see inside back cover for addresses).
Ottobock has a certified Quality Management System in accordance with ISO 13485.