

12 Transport



CAUTION: Injury hazard or material damage if a power wheelchair which is fitted with a table is transported in a vehicle!

- *If a table is fitted, always remove it before transporting the wheelchair.*



12.1 Transferring the wheelchair to a vehicle



WARNING: Danger of tipping over, if the wheelchair is transferred to a vehicle using a ramp that exceeds the maximum safe slope, or if the backrest is not in an upright position during transfer!

- *If the wheelchair has to be transferred to a vehicle using a ramp that exceeds the maximum safe slope (see chapter "Technical specifications" starting on page 157), then a winch must be used. An attendant can then safely oversee and assist the transfer process.*
- *If no winch is installed, then the wheelchair must not be transferred to a vehicle using a ramp that exceeds the maximum safe slope.*
- *Alternatively, a tail lift installed in the vehicle may be used.*
- *Only ever transfer the wheelchair to a vehicle with the backrest in an upright position. Ensure that the total weight of the mobility aid including the user does not exceed the highest permissible weight for the platform lift.*
- *Only ever run the wheelchair with the seat back in the upright position, seat lifter lowered and the seat tilting in the upright position into the transport vehicle (please refer to chapter "Driving up and down gradients" on page 34).*

- Drive or push your wheelchair into the transport vehicle using a suitable ramp.

12.2 Use of the wheelchair as a seat in a vehicle



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

- *The actual weight of this wheelchair can exceed 140 kg! A suitably strong and proven 4-point tie-down system is available from Unwin Safety Systems! Please contact Unwin for more information on how to obtain such a system in your country!*

Unwin Safety Systems

Phone: + 44 (0)1935 827740

Email: sales@unwin-safety.co.uk

Web: www.unwin-safety.com

- *An alternative way to safely use this wheelchair as a vehicle seat may be by using the Invacare Docking Station system if the wheelchair is compatible with that system, available separately! Please contact Invacare if you require the details.*
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WARNING: Danger of injury or damage to the wheelchair or to the transporting vehicle, if the legrests are in a raised position while the wheelchair is used as a vehicle seat!

- *Always completely lower height-adjustable legrests, if fitted.*
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Caution: There is a danger of injury if the wheelchair is not properly secured during use as a vehicle seat!

- *If possible, the user should always leave the wheelchair to use a vehicle seat and the safety belts provided with the vehicle.*
 - *The wheelchair should always be anchored facing in the transport vehicle's intended direction of travel.*
 - *The wheelchair must always be secured in accordance with the wheelchair and anchoring system manufacturers' operating manual.*
 - *Always remove and secure any accessory parts fixed to the wheelchair such as chin controls or tables.*
 - *If your wheelchair is equipped with an angle adjustable backrest, then it must be placed in an upright position.*
 - *Fully lower elevated legrests, if fitted.*
 - *Fully lower the seat lifter, if fitted.*
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WARNING: Danger of injury exists if a powerchair that is not equipped spill-proof batteries is transported in a vehicle!

- *Only ever use spill-proof gel batteries!*
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Please note

In order to use a wheelchair as a motor vehicle seat, it needs to be equipped with attachment points to enable anchoring in the motor vehicle. These accessories may be included in the standard scope of wheelchair order and delivery in some countries (UK for example), but may also be obtained from Invacare® as an option in other countries.

This power wheelchair complies with the requirements of ISO 7176-19:2001 and may be used as a vehicle seat in connection with an anchoring system that has been checked and approved in accordance with ISO 10542. The wheelchair has undergone a crash test in which it was anchored in the transporting vehicle's direction of travel. Other configurations were not tested. The crash test dummy was secured using pelvic and upper body safety belts. Both types of safety belt should be used in order to minimise the risk of injuries to head or upper body. It is imperative that the wheelchair is inspected by an authorised dealer before being used again after being involved in a crash. Alterations to the wheelchair anchoring points may not be carried out without the manufacturer's permission.

12.2.1 Using the Invacare® Docking Station to anchor an electric wheelchair in a transport vehicle

Please see the Docking Station instruction manual for information about anchoring an electric wheelchair in a transport vehicle using the Invacare Docking Station.

12.2.2 How the wheelchair is anchored in a vehicle for use as a vehicle seat

The power wheelchair is fitted with four anchoring points, which are labelled with the symbol shown on the right. Snap hooks or belt loops can be used for fixation.



- Secure the wheelchair at the front (1) and at the rear (2) with the anchoring system belts.
- Secure the wheelchair by tensioning the belts in accordance with the anchoring system manufacturer's operating manual.



12.2.3 How the user is secured within the wheelchair



CAUTION: There is a danger of injury if the user is not properly secured within the wheelchair!

- *Even if the wheelchair is fitted with a postural belt, this is no substitute for a proper safety belt which complies with ISO 10542 in the transport vehicle. Always use the safety belt installed in the transport vehicle.*
 - *Safety belts must be in contact with the user's body. They must not be held at a distance from the user's body using parts of the wheelchair such as armrests or wheels. Refer to the illustration on page 152.*
 - *Safety belts must be pulled as tightly as possible without causing the user discomfort. Refer to the illustration on page 152.*
 - *Safety belts must not be positioned while twisted.*
 - *Ensure that the third seatbelt anchorage point is not fixed directly to the vehicle floor, but to one of the vehicle uprights.*
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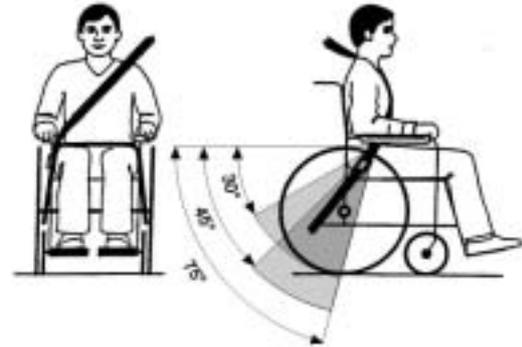
CAUTION: Injury hazard during use of the mobility aid as a vehicle seat if a headrest is wrongly adjusted or not installed! This can cause the neck to be hyperextended during collisions!

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





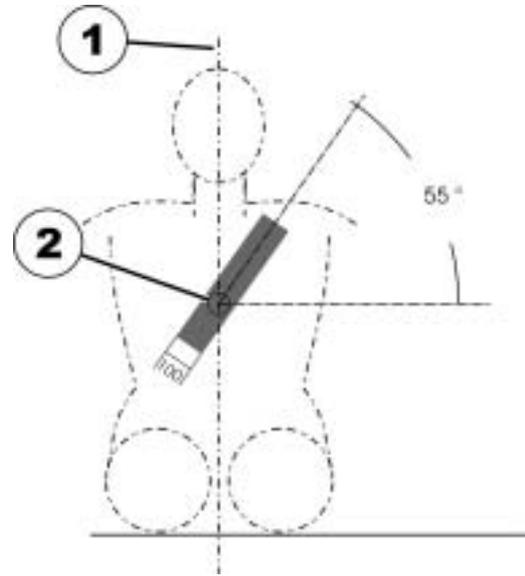
Seat belts may not be held at a distance from the user's body using parts of the wheelchair such as armrests or wheels.



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

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

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



12.3 Securing the wheelchair for transport without passengers



CAUTION: Injury hazard!

- *If you are unable to fasten your electric wheelchair securely in a transport vehicle, we recommend that you do not transport it!*
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- Before transporting your wheelchair, make sure the motors are engaged and that the Joystick Box is switched off.
 - We urgently recommend securing the wheelchair to the floor of the transporting vehicle.