

Part 6 - Further Information

For further copies of these User Instructions, please visit our website:
www.koller.co.uk.

Koller also offer a complete range of other products for wheelchair accessible vehicles, including:

- Floor Rails
- Bonded Floors
- Wheelchair Restraints
- Passenger Harnesses
- Portable Ramps
- Fitted Ramps
- Removable Seat Fixings
- Bespoke Service

www.koller.co.uk



KOLLER



Tel: +44 (0)1935 426695
 Fax: +44 (0)1935 433766
 Email: enquiries@koller.co.uk
 Web: www.koller.co.uk

USER INSTRUCTIONS

GENESIS⁸⁵



KOLLER

Tel: +44 (0)1935 426695 Fax: +44 (0)1935 433766
 Email: enquiries@koller.co.uk Web: www.koller.co.uk

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Blank / User Notes

Part 1 - Product Statement & Use

These User Instructions provide detailed operating instructions for the **GENESIS 85** wheelchair restraint & passenger harness.

<i>Part Number</i>	<i>Description</i>
KFP0095	J-hooks, Static Harness

GENESIS 85 conforms to the dynamic test requirements of ISO 10542 for wheelchairs up to 85kg, PLUS passenger.

GENESIS 85 is designed to secure one forward facing wheelchair and one passenger. It must be used in Koller Low Profile or Surface Rails (or equivalents).

These instructions should be read thoroughly before operating the product and retained for future use.

Note: **GENESIS 85** is supplied with a static passenger harness as standard. When used in standard configuration, the extra tongue on the shoulder belt is not used. When used as a 3-point harness (i.e. with upper anchorage belt), the extra tongue is used. There are two 3-point belt (upper anchorage) options:

<i>Part Number</i>	<i>Description</i>
3PT/STRP	3-point belt for TITUS Harness, removable
3PT/STRP/FIX	3-point belt for TITUS Harness, bolted

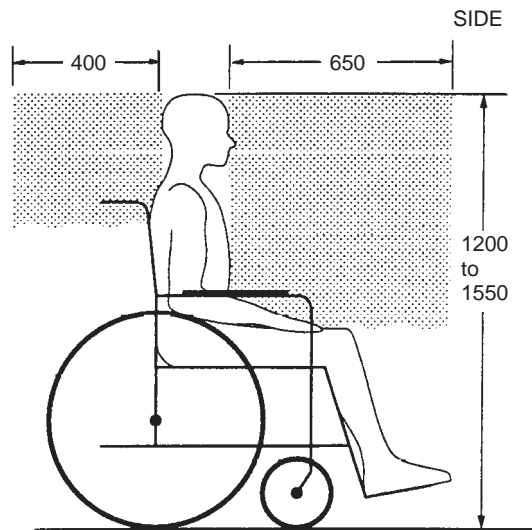
Part 2 - Component Identification



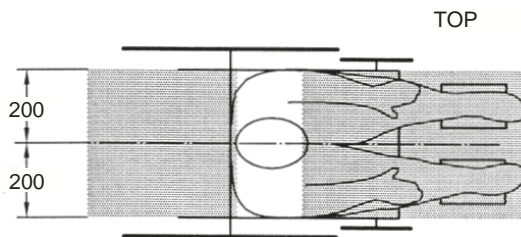
Part 3 - Operating Instructions - Fitting

- a) Whenever possible, space of around 1300mm by 750mm should be provided (with enough headroom) to allow wheelchair manoeuvre and passenger comfort. Within this space, at least 650mm should be clear from the front of the wheelchair passenger's head forward and 400mm clear from the back of the head rearward.

There should be no rigid vehicle components within the shaded areas. If this is not possible, rigid vehicle components within this area should be covered in padding that conforms with the impact requirements of FMVSS 201, EC 74/60 or UN/ECE 21.



The shaded areas in front of and behind the occupant's head should where possible be completely clear of any components (except a headrest).



All dimensions in mm

Part 5 - Warnings & Maintenance

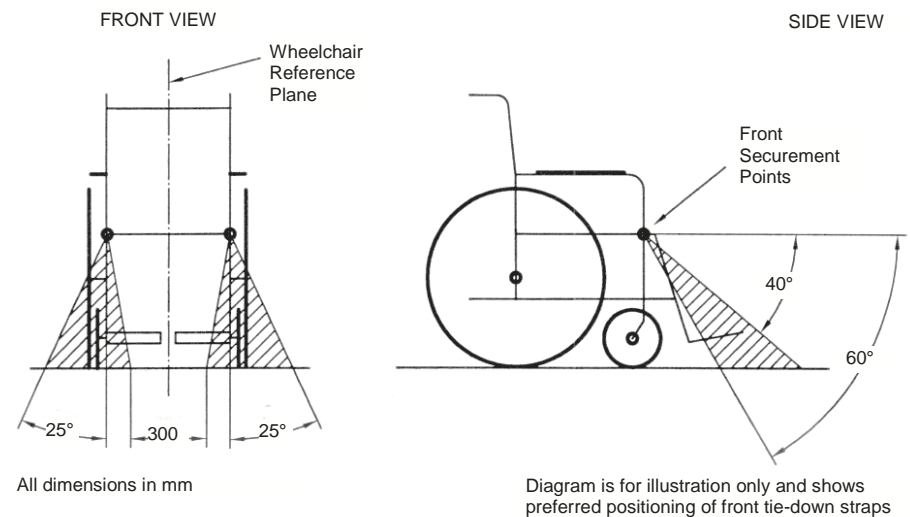
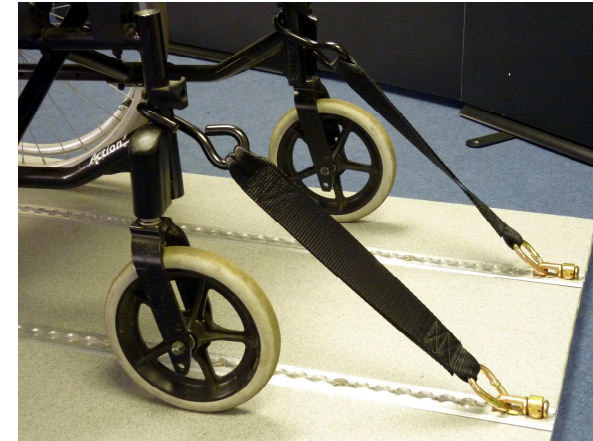
- The use of other products, other than those supplied with the Restraint or specified for use with the Restraint may compromise performance. Products suitable for use with this restraint include:

KFP0034	Extension Strap - accessory
KFP0061	Support Belt - accessory
3PT/STRP	3-point Strap - for use with Harness
3PT/STRP/FIX	3-point Strap - for use with Harness
- The Restraint is for **FORWARD FACING** wheelchairs only.
- The Restraint is for use with only one wheelchair and one passenger at a time.
- DO NOT** use the restraint to secure a wheelchair heavier than that stated under **Product Statement & Use**.
- Restraint components including anchorages, should be replaced if they are suspected to have been in use during an impact from which the vehicle must be towed.
- All Restraint webbing and components should be inspected, cleaned and maintained regularly.
- Care should be taken to prevent contamination of the webbing with polishes, oils, chemicals and particularly battery acid, along with procedures and materials to be used for cleaning parts of the Restraint.
- Frayed, contaminated or damaged webbing, and broken or worn parts should be replaced.
- Webbing should be protected from contacting sharp edges and corners.
- Postural support belts **MUST NOT** be used as occupant restraints.
- Auxiliary wheelchair equipment should be effectively secured to the wheelchair or removed and secured safely in the vehicle during transport, so as not to break free and cause injury to vehicle occupants in an impact.
- Items attached to the wheelchair in front of the wheelchair occupant, other than footrests, should be removed whenever possible and secured safely in the vehicle during transport in order to reduce the potential for injury to the wheelchair occupant and others in the vehicle.

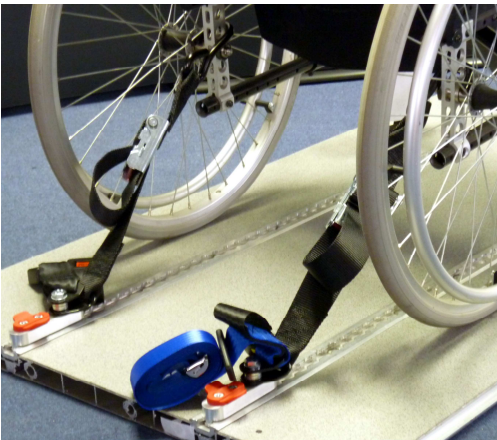
Part 4 - Operating Instructions - Removing

- a) First, release the 3-point belt from the shoulder belt (blue webbing) if being used, otherwise, release the shoulder belt from the rear rail clip by depressing the orange button on the mini buckle and remove from the passenger's shoulder.
- b) Release and remove the lap belt by depressing both orange buttons on the two mini buckles and remove from the passenger's pelvis.
- c) Open the over-centre buckles (depress the red release bars) on the rear rail tie-down straps (rail clips) and feed a bit of webbing through both over-centre buckles. Detach the J-hooks from the wheelchair frame.
- d) Unclip the rear rail clips by lifting the red caps and sliding slightly forward or backward.
- e) Release the wheelchair brakes and push the wheelchair forward slightly.
- f) Detach the J-hooks of the front straps (rail clips) from the wheelchair frame.
- g) Unclip the front strap rail clips by lifting the plungers and sliding slightly forward or backward.

- b) Position the wheelchair, facing forward, centrally between the rails being used. Lock the brakes.
- c) Insert both front tie-down strap rail clips into corresponding holes of adjacent rails, close enough to attach to the wheelchair, ensuring that both rail clips **lock fully into the rails** (push down on the rail clip bodies and slide forward / backward so they lock automatically).
- d) Attach the J-hooks to the wheelchair frame, either at points indicated on the frame, or, above the wheel axles on part of the main frame.

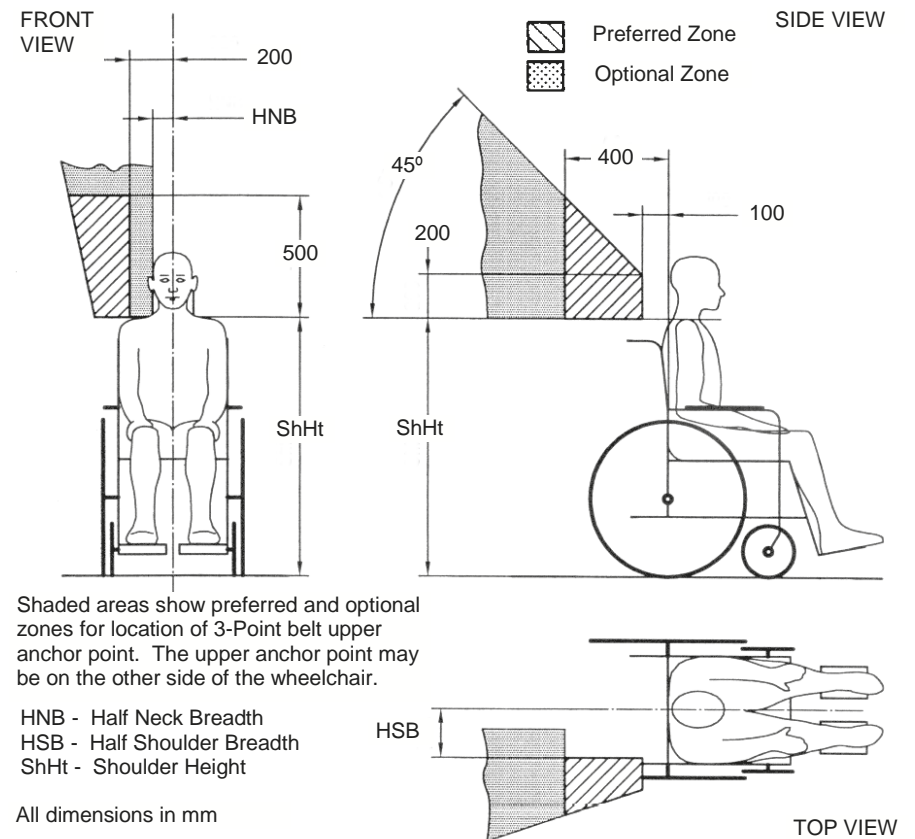


- e) Insert both rear rail clips behind the wheelchair, ensuring that both rail clips **lock fully into the rails** (push down on the rail clip bodies and slide slightly forward / backward so they automatically lock).
- f) Attach the J-hooks to the wheelchair frame, either at points indicated on the frame, or, above the wheel axles on part of the main frame.
- g) Open the over-centre buckles (push in the red release bars) and pull the webbing through the over-centre buckles while closing them to tension the system. **Ensure both over-centre buckles are locked** and evenly tensioned.



- The angle of the lap (pelvic) belt should be within the preferred zone of 45° to 75° to the horizontal, or the optional zone of 30° to 45° to the horizontal.
- Lap and shoulder belts must not be held away from the body by wheelchair components such as armrests or wheels.
- Lap and Shoulder Belts should be adjusted to fit as firmly as possible while still allowing for occupant comfort.
- The Shoulder belt should fit over the shoulder and across the chest.
- Lap and Shoulder Belts must not be worn twisted.



Koller recommend the use of 3-point belts whenever possible. Please refer to previous fitting of lap and shoulder belts and below.

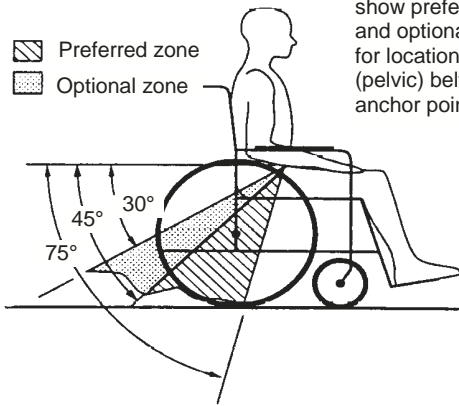


- Upper-torso anchor or webbing guide points that are adjustable in height should be set at or above the wheelchair occupant's shoulder so as not to impose downward loads on the spine in the event of an impact.

For maximum passenger protection, belts should be fitted to individual users and with reference to below.

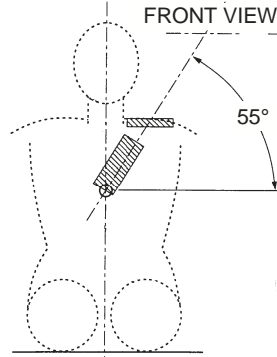
SIDE VIEW

-  Preferred zone
-  Optional zone

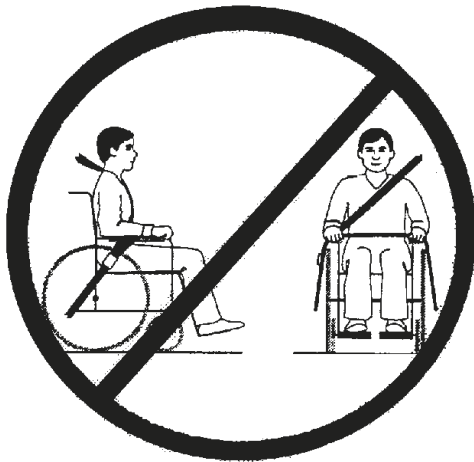


Shaded areas show preferred and optional zones for location of lap (pelvic) belt anchor points.

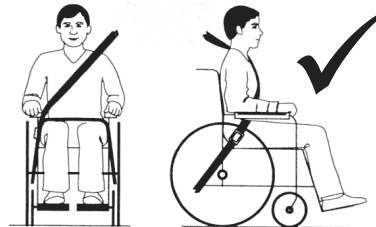
FRONT VIEW



Shaded areas show preferred zones for location of shoulder belt on occupant's torso (may be on the opposite side if the restraint is "handed").



Pelvic belts should make full contact across the front of the body near the junction of the thigh and pelvis



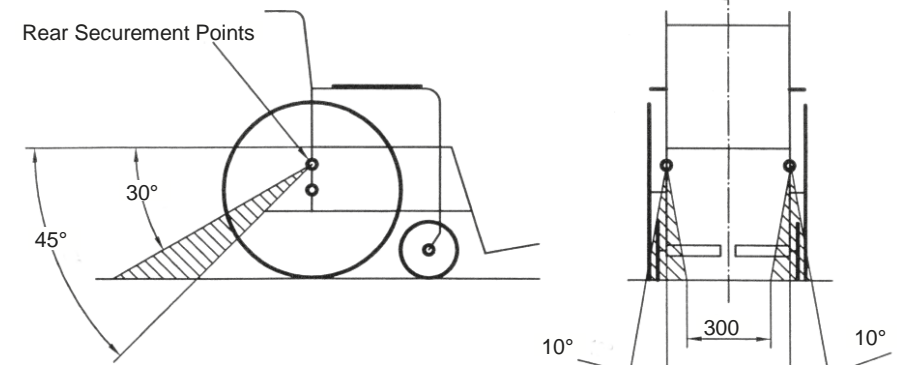
- Lap and Shoulder Belts *must* be used together to reduce the risk of head and chest impacts with vehicle parts.
- The extent of head and chest excursions also depends on the location of the upper torso (shoulder) belt anchor point and may increase as anchor point distance above and behind the occupant's shoulder increases.

SIDE

Rear Securement Points

Wheelchair Reference Plane

REAR



All dimensions in mm

Diagram is for illustration only and shows preferred positioning of rear tie-down straps

- h) Clip the the lap belt (black webbing) into a front mini buckle on one of the rear straps, place around the passenger's pelvis (**ensuring it does not rest over any wheelchair parts**) and clip into the corresponding mini buckle on the other rear strap.
- i) Pull the lap belt webbing through the adjustable tongue until snug
- j) Fit the shoulder belt (blue webbing) over and across the passenger's shoulder (**ensuring it does not rest over any wheelchair parts**) and clip into the free mini tongue on the other rear strap.
- k) Pull the shoulder belt webbing through the adjustable tongue until snug

Passenger and wheelchair are now secure.

Note: If using a 3-point belt, first ensure that the rail clip the shoulder belt is mounted to, is to the window side of the vehicle. Ensuring the 3-point belt is fitted to the side of the vehicle, slide the extra tongue on the shoulder belt up to the passenger's shoulder and clip into the buckle of the 3-point belt. Adjust the length of the 3-point belt so that the shoulder belt is lifted slightly from the shoulder.



3-point belt fitted