



# ***USER OPERATING INSTRUCTIONS***

## ***FOUR POINT WEBBING SYSTEMS***

### ***SYS01, SYS02***

Read instructions carefully before use and follow them for correct use.  
It is recommended that training be given on the proper use of this product.

Retain this manual for future reference.

Please include it with the product in the event of transfer to new users.

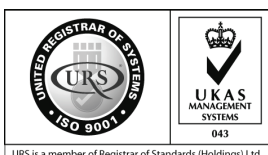
Additional copies are available upon request.

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**UI2067A**

# CONTENTS

- A. Limitations of use
- B. General Guidance
- C. Before Using the Four Point Webbing Systems
- D. Fitting SYS01 & SYS02
- E. Storage & Equipment Maintenance

## A. LIMITATIONS OF USE

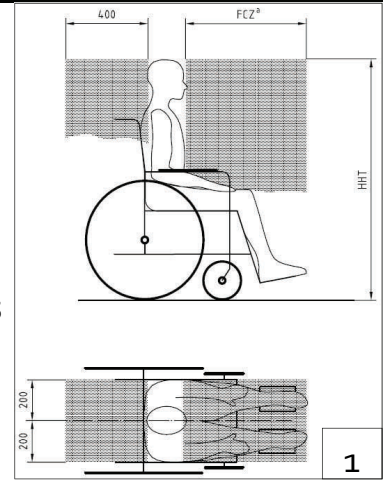
1. Unwin wheelchair tie-down systems are designed to secure the wheelchair when facing forward in the vehicle and must be used as instructed.
2. In addition to the details given in these Instructions, users of Unwin tie-downs must refer to the wheelchair manufacturer's 'Instructions For Use in Transport' for full details of tie-down attachment points on the wheelchair, plus any other specific instructions relating to use in transport.
3. Wheelchair users and their carers must make sure that their wheelchair is recommended for use in transport, including any 'add-on' components such as power tilt or recline options.
4. An occupant restraint system will be required when the wheelchair is occupied by a passenger whilst in transport. (See Unwin Instructions UI2055 for Occupant Restraint Systems).
5. Unwin products are extensively tested using Unwin Rail and Solo anchors and our full warranty applies to Unwin equipment fitted and used in accordance with our instructions. Unwins have also participated in test programs with other manufacturers and will support warranty on the Unwin products when used in conjunction with such jointly tested systems. For further details on specific applications please contact the Sales Office. In other situations where Unwin has not participated in joint test programs, a limited Unwin warranty will apply.
6. The development of Unwin wheelchair tie-downs is a continuous process. Applications are added on a regular basis. Contact Unwin Safety Systems for full updates or look on Unwin's website.

## B. GENERAL GUIDANCE

1. Wheelchair Accessories that have not been approved by the Wheelchair Manufacturer must be removed from the wheelchair and secured in the vehicle during transport to reduce the potential for injury. Refer to 'Instructions For Use in Transport' provided with the wheelchair or contact wheelchair manufacturer for further guidance.
2. Please read this manual before using Unwin wheelchair tie-down systems.
3. Regular inspection of all parts is recommended and the equipment should be used only if all components are in good condition.
4. Replace equipment when the webbing becomes cut, contaminated or frayed.
5. Any restraints which have been subjected to a crash situation should, in the interest of safety, be replaced immediately.
6. Do not attempt to modify the equipment. If there is a problem please contact Unwin Safety Systems.
7. Avoid contact with corrosive liquids and keep the webbing away from sharp edges. Care should be taken to prevent contamination of the webbing with polishes, oils and chemicals.
8. If the proposed installation cannot be made to comply with the following requirements, please contact Unwin Safety Systems.

## C. BEFORE USING THE FOUR POINT WEBBING SYSTEMS

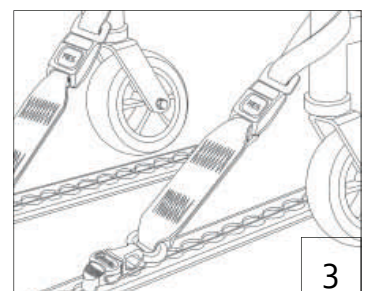
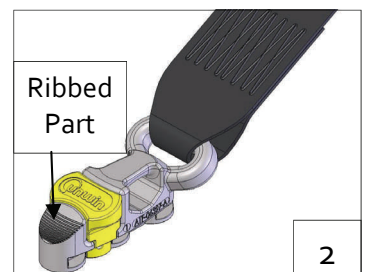
1. Ensure that the wheelchair is correctly maintained and that settings of any adjustable parts are made according to 'Instruction for Use in Transport'.
2. Remove any items of luggage that may be attached to the wheelchair and secure or store separately during transport in order to reduce the potential for injury to others passengers travelling in the vehicle.
3. Extra care must be exercised when using vehicle boarding aids such as passenger lifts or ramps during the loading process. Refer to 'Instructions For Use' for information on safe slopes.
4. Position the wheelchair facing forward - centrally in the designated region of the vehicle. **Ensure wheelchair brakes are applied.**
5. To minimise the potential for head injuries in an impact, allow a clear space of at least 400 mm behind and 650 mm in front of the head of the wheelchair user. The shoulder belt anchorage must be side-wall anchored at a height level with or above occupant shoulder level.
6. A height provision ranging from 1200mm to 1550mm should be made, depending on the size of the passenger. There should also be 200 mm of clear space either side of the wheelchair. If these clear space dimensions cannot be provided then any structure protruding into this space should be adequately padded.
7. Wheelchair users, their carers and family are advised to check vehicle specifications to ensure that sufficient floor space is available to accommodate the wheelchair and tie-down system. Users of heavy powered wheelchairs are also advised to check vehicle carrying capacity. If in doubt consult vehicle supplier for further details.



## D. FITTING SYS01 & SYS02



1. To attach front straps into the rail, align feet of the ATF with the cut-out sections of the rail and locate into rail.
2. Press on ribbed part of the ATF (Fig 2) and push firmly towards the wheelchair until the yellow clip drops and locks into rail. Install second clip. The position of this must be parallel with the first. **IMPORTANT: Check the plungers are fully engaged on both sides.**
3. With buckles or karabiner facing outwards, connect front straps to the front vertical & horizontal part of the wheelchair frame, above the castor wheel, creating an angle of around 40 to 45° (Fig 3). Some wheelchairs will indicate the attachment area. **Important: Check both sets of tongue and buckle are fully clipped together or both sets of Karabiner are fully closed.**
4. Pull wheelchair back to tension front straps, apply wheelchair brakes.



5. To attach rear straps into the rail, align feet of the ATF with cut-out sections of the rail and locate into rail.
6. Press on ribbed part of the ATF and push firmly towards wheelchair until the yellow clip drops and locks into rail. Install the second clip. The position of this must be in line with the first. **IMPORTANT: Check the clips are fully engaged on both sides.**
7. Release over-centre buckle.
8. Attach Karabiner or Tongue & Buckle to the rear wheelchair frame to create an angle of around 45°. Pull webbing through the over-centre buckle, removing the slack.
9. With free hand begin to close the buckle (Fig 4) and once webbing is retained fully close buckle using both hands. Finally re-secure free webbing end onto the Velcro stowage point.
10. The occupant restraint should now be fitted, please refer to the appropriate user instructions.



### **To remove systems:**

1. Ensure the wheelchair's brakes are applied.
2. Release over-centre buckle on the rear straps, loosen the webbing and remove karabiner or Tongue & Buckle from the wheelchair frame. Close the over-centre buckle and replace webbing to Velcro.
3. Lift the yellow retaining clip fully and pull away from the wheelchair to remove the rear strap from the rail. Repeat with opposite fitting.
4. Release brakes and push the wheelchair forward to loosen the front straps.
5. Release front straps buckle, remove strap from the wheelchair frame and clip back together or unfasten Karabiner from wheelchair frame.
6. Lift yellow retaining clip fully and pull away from the wheelchair to remove the front straps from the rail. Repeat on opposite strap.

## **H. EQUIPMENT STORAGE AND MAINTENANCE**

1. Store the restraint safely off the floor to avoid damage and ensure that it would not become a projectile in an accident. This can be achieved by using wall mounted storage rails or a stowage box.
2. Regularly inspect the front straps for damage, wear or malfunction. If any problems are identified replace them immediately.
3. All webbing and components can be cleaned as necessary, but care should be taken to prevent contamination of the webbing with polish, oils and chemicals.
4. To clean the straps use warm soapy water and a clean soft cloth. Rinse with clear water, and allow to air dry. To disinfect use a mild spray disinfectant and do not use products containing bleach. **Important: when cleaning or disinfecting do not immerse buckles, karabiner or rail fittings in the disinfectant or water.**
5. If the vehicle is involved in an accident when any restraints are deployed, remove them from service and replace immediately. If in doubt please contact Unwin Safety Systems.

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