



USER OPERATING INSTRUCTIONS

OCCUPANT RESTRAINTS

OCR1, OCR2, OCR3

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.

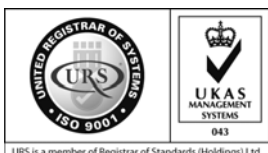
Please include it with the product in the event of transfer to new users.

Additional copies are available upon request.

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UI2055A

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A. LIMITATIONS OF USE

1. This product has been designed to restrain the passenger only and must only be used where the wheelchair has already been secured with a separate wheelchair tie-down system.
2. In addition to the details given in these Instructions, users of Unwin restraint system 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. 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.
5. **Unwin recommends the use of a 3 point occupant restraint system to provide greater protection in case of an impact. However we also recognise that some vehicle layout/designs or specific postural or medical conditions do not allow that style of seatbelts to be used easily.**
6. **This system is not ISO 10542 compliant if used in 2 point configuration.**
7. The development of Unwin occupant restraint system is a continuous process. Applications are added on a regular basis. Contact Unwin Safety Systems for full updates or look on Unwin's website.

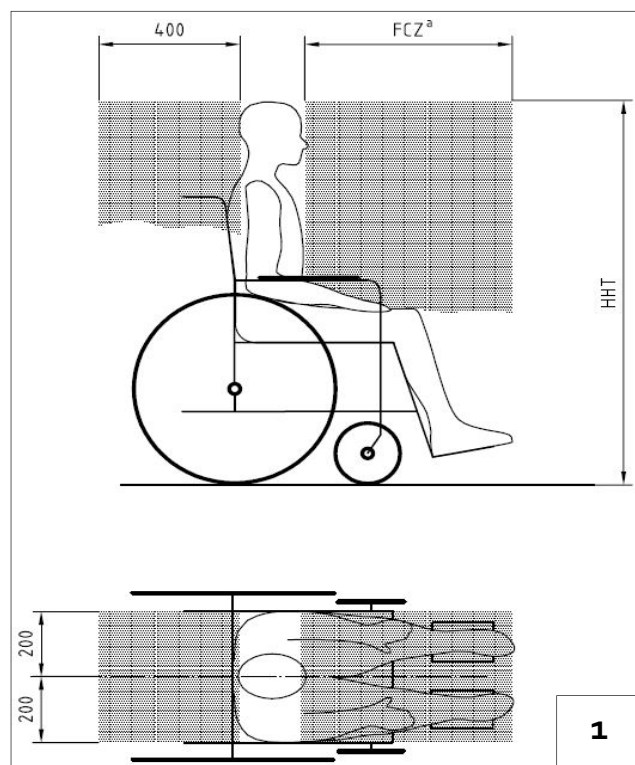
B. GENERAL GUIDANCE

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.

1. Please read this manual before using Unwin wheelchair and occupant restraint system.
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. If the proposed installation cannot be made to comply with the following requirements, please contact Unwin Safety Systems.

C. BEFORE USING UNWIN OCCUPANT RESTRAINTS

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.

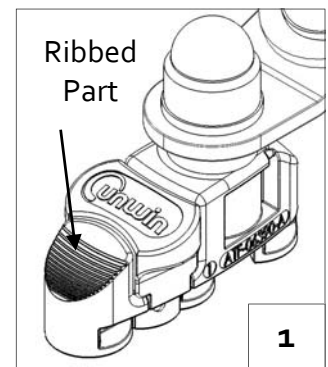




Before fitting the occupant restraint, ensure that the reversible stalk orange button is facing outside in relation to the wheelchair. If the reversible stalk orange button faces inside, turn the stalk 180° to sit in the right position.

Fitting the 3 Point Occupant Restraint

1. Match inertia reel ATF feet with cut-out sections of the rail and locate into the rail. Press on the ribbed part of the ATF (Fig 1) and push firmly towards the wheelchair until the yellow clip drops and locks into the rail. Repeat operation with Stalk. **IMPORTANT: Check plungers are fully engaged on both sides.**



Wheelchairs without armrests or with armrest removed

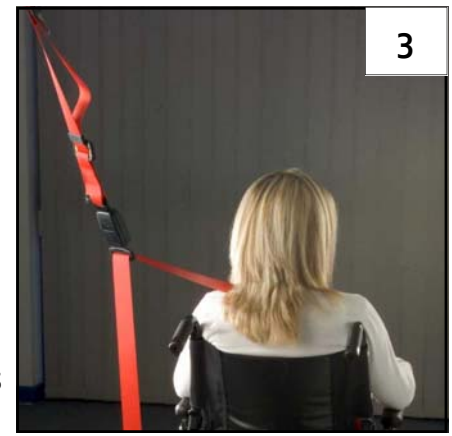
1. Position the third point fixing into the wall rail so that it is vertically above the inertia reel casing fixed onto the floor fixing.
2. Ensure Comfort Clip (Fig 2) is released, and the tongue & buckle separating the lap and shoulder belts is disengaged. Release third point tongue from the buckle.
3. Position webbing across the passenger, with the black webbing forming the lap belt and the red webbing the shoulder belt.
4. Insert the second tongue into the stalk buckle. Adjust the height of the shoulder belt so that it clears the occupant's shoulder by approximately one inch.
5. Unlock the Comfort Clip to take up the slack, then re-lock the clip so that it rests on the reel cover.



Wheelchairs with fixed armrests

1. Release Comfort Clip (Fig 2) and the buckle separating the lap and shoulder belts. Undo the third point tongue from the buckle.
2. Position the black webbing around the occupant's pelvic area, threading it through the armrests if necessary.
3. If applicable, remove the black plastic cover off the tongue on the red webbing of the double inertia and insert into the buckle on the third point fixing.

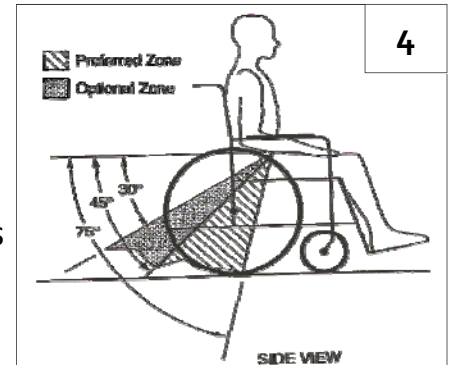
1. Position red shoulder belt on the occupant at about mid shoulder point (Fig 3) and adjust the height so that it clears the occupant's shoulder by approximately one inch.
2. Unlock the Comfort Clip to take up the slack, then re-lock the clip so that it rests on the reel cover.
3. It is essential that the lap belt anchor point should be positioned to achieve belt angles of 30° or more to the horizontal and preferably between 45° and 75° in order to fit low across the pelvis and/or over the upper thighs to reduce the possibility of the seat belt loading the abdomen (Fig 4).



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Fitting the Combined Systems - 2Point Occupant Restraint

1. Match inertia reel ATF feet with cut-out sections of the rail and locate into the rail. Press on the ribbed part of the ATF and push firmly towards the wheelchair until the yellow clip drops and locks into the rail. Repeat operation with Stalk. **IMPORTANT: Check plungers are fully engaged on both sides.**



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Wheelchairs without armrests or with armrest removed

1. Ensure Comfort Clip is released (Fig 2) and press the buckle to release the lap belt.
2. Pull metal tongue on the black webbing upwards to release the webbing from both inertia reels.
3. Position the webbing across the occupant with the black webbing forming the lap belt and the red webbing forming the shoulder belt.
4. Insert the tongue fixed to the black webbing into the stalk buckle. Adjust for comfort by raising the webbing on the shoulder by two finger widths, unlock the Comfort Clip to take up the slack, then re-lock the clip so that it rests on the reel cover.

Wheelchairs with fixed armrests

1. Ensure the Comfort Clip is released (Fig 2) and undo the buckle to separate the lap and shoulder belts.
2. Position the black webbing around the occupant's pelvic area, threading it through the armrests if necessary and fit to the metal tongue into the lap belt.
3. Pull all of the red webbing out of the inertia reel and secure with the Comfort Clip.
4. Position shoulder belt on the occupant at about mid shoulder point (Fig 5).
5. Adjust for comfort by raising the webbing on the shoulder by two finger widths, unlock the Comfort Clip to take up the slack, then re-lock the clip so that it rests on the reel cover.
6. It is essential that the lap belt anchor point should be positioned to achieve belt angles of 30° or more to the horizontal and preferably between 45° and 75° , in order to fit low across the pelvis and/or over the upper thighs to reduce the possibility of the seat belt loading the abdomen (Fig 4).

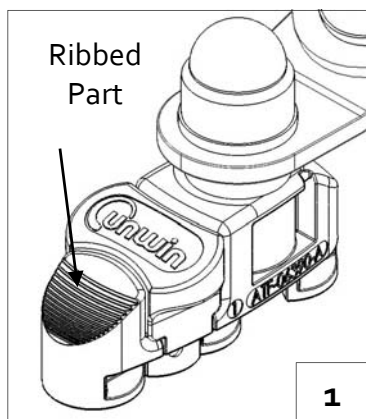


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To remove system:

1. Release Comfort Clip and disconnect the tongue from the stalk.
2. Remove the restraint by unclipping the lap and shoulder belts.
3. If applicable, disconnect shoulder belt from the third point fixing and allow webbing to retract back evenly into the inertia reel housing.
4. If applicable replace the black plastic cover on the red webbing tongue.
5. Lift yellow retaining ATF clip fully and pull away from the wheelchair to remove the reel and stalk from the rail.
6. Re-secure 3rd point fixing tongue and buckle and remove from the wall rail.
7. The wheelchair restraint should now be removed following the instructions supplied with that product.

E. FITTING OCR02

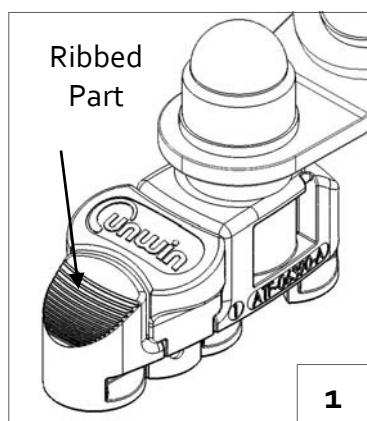


1. To fit OCR02, match ATF feet with cut-out sections of the rail and locate into the rail. Press on the ribbed part of the ATF and push firmly towards the wheelchair until the yellow clip drops and locks into the rail. Repeat with other side. **IMPORTANT: Check plungers are fully engaged on both sides.**
2. Position lap belt (black webbing) across the occupant waist so that the webbing side with male pin connector (Fig 2) is located on the opposite side of the third point fixing wall.
3. Clip lap belt tongue and buckle together to fasten lap belt around the occupant waist (Fig 4).
4. To attach static third point fitting (red webbing) in the vehicle 3rd point rail, match ATF feet with cut-out sections of the rail and locate into the rail. Press on the ribbed part of the ATF and push firmly towards the front of the vehicle until the yellow clip drops and locks into the rail.
5. Fastened female pin connector on third point webbing (Fig 3) to the male pin connector on the waist belt to form the shoulder belt (Fig 4).
6. Adjust the fit of the diagonal belt as necessary to suit passenger.

To remove system:

1. Disconnect the third point pin connector from the waist belt pin connector.
2. Lift yellow retaining ATF clip fully and remove the third point fixing from the wall rail.
3. Unfasten the lap belt tongue and buckle and remove lap belt from occupant.

F. FITTING OCR₀₃



1. To fit OCR₀₃, match ATF feet with cut-out sections of the rail and locate into the rail. Press on the ribbed part of the ATF and push firmly towards the wheelchair until the yellow clip drops and locks into the rail. Repeat with other side. **IMPORTANT: Check plungers are fully engaged on both sides.**
2. Position the lap belt (black webbing) across the occupant waist so that the webbing side with male pin connector (Fig 2) is located on the opposite side of the third point fixing wall.
3. Clip lap belt tongue and buckle together to fasten lap belt around the occupant waist (Fig 4).
4. To attach retractable third point fitting (red webbing) in vehicle 3rd point rail, match ATF feet with cut-out sections of the rail and locate into the rail. Press on the ribbed part of the ATF and push firmly towards the front of the vehicle until the yellow clip drops and locks into the rail.
5. Pull third point webbing and fastened female pin connector (Fig 3) to the male pin connector on the waist belt to form the shoulder belt (Fig 4).
6. Adjust the fit of the diagonal belt as necessary to suit passenger.

To remove system:

1. Disconnect the third point pin connector from the waist belt pin connector.
2. Let the webbing retract gently into the housing reel
3. Lift yellow retaining ATF clip fully and remove the third point fixing from the wall rail.
4. Unfasten the lap belt tongue and buckle and remove lap belt from occupant.

G. 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 restraints 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 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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