

SWR/09

USER MANUAL



Read instructions fully before use.

It is recommended that training be given on the proper use of this product.

Retain this manual for future reference.

Include it with the product in the event of transfer to new users. Additional copies are available upon request.

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CONTENTS

- A. Limitations of use
- B. General Guidance
- C. Before using wheelchair restraint
- D. Fitting SWR/09
- E. Removing and storing
- F. Maintenance

A. LIMITATIONS OF USE

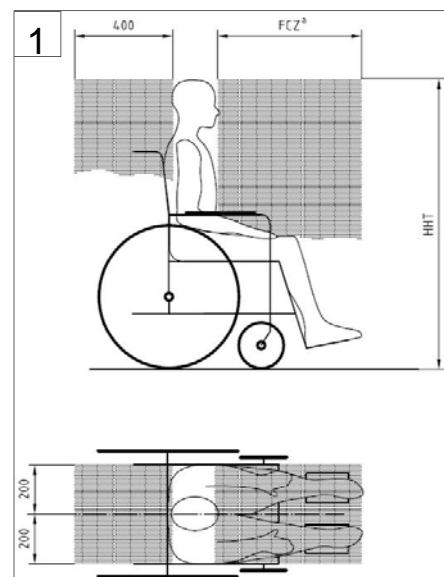
1. This product has been designed to restrain wheelchair weighing up to 140kg and is a **wheelchair restraint only**.
2. A separate passenger restraint must be used for the occupant.
3. Unwin products are extensively tested using Unwin rail, and our full warranty normally only applies to Unwin equipment when used in Unwin branded rail. Unwins have also participated in test programs with manufacturers of structural rail products 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 using rail products for which Unwin has not participated in joint test programs, a limited Unwin warranty will apply.

B. GENERAL GUIDANCE

1. Please read this manual before using the equipment
2. Regular inspection of all parts is recommended and only use the equipment if all mechanical parts are functioning smoothly and all components are in good condition.
3. Replace parts where the webbing is contaminated or frayed.
4. Items attached to the wheelchair in front of the occupant, other than footrests should be removed and secured in the vehicle during transport. This reduces the potential for injury
5. In case of an accident where the equipment was in service replace the system.
6. Do not attempt to modify the equipment, if there is a problem refer back to 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 meet the following requirements, refer to Unwin Safety Systems.

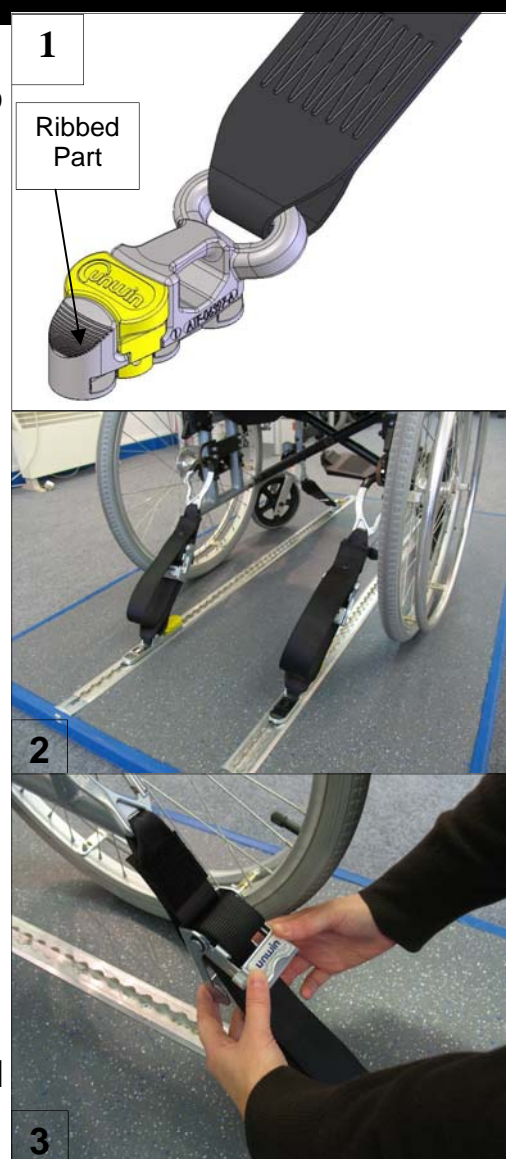
C. BEFORE USING THE RESTRAINT

1. Ensure that the wheelchair is appropriate for the tiedown being used.
2. Position the wheelchair, facing forward, centrally over the Unwin rail. Ensure the wheelchair brakes are applied and the wheelchair cannot roll.
3. To minimise the potential for head injuries in an impact, it is recommended to allow a clear space of at least 400 mm behind and 650 mm for 3 point systems or 950mm for 2 point systems in front of the head of the wheelchair user when positioning the chair for transit. A height provision ranging from 1200mm to 1550mm should be made, depending on the size of the passenger.
4. There should also be 200 mm of clear space either side of the wheelchair centre line. (See Figure 1) If these clear space dimensions cannot be provided then any structure protruding into this space should be adequately padded. Electric wheelchairs may require an additional strap to secure the batteries.



D. FITTING SWR/09 – WHEELCHAIR TIEDOWN

1. To attach the front straps into rail, match feet of the ATF with the cut-out sections of the rail and locate into the rail.
2. 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. **IMPORTANT: Check the plungers are fully engaged on both sides.**
3. Attach the individual front restraints Karabiners to each side of the wheelchair at above the front wheel casting point. Pull the wheelchair backwards so the front restraints create an angle to the floor, apply the wheelchair brakes if applicable.
4. Fit the rear restraints into the rail behind the wheelchair. **IMPORTANT: Check both bars are exactly opposite each other and that the plungers are fully engaged.**
4. Remove the webbing from the Velcro and release the over-centre buckle, by pressing down the spring loaded bar.
5. Attach the Karabiner Hook to the wheelchair main frame creating an angle of about 45° (Fig 2).
6. Pull the webbing gently through the over-centre buckle to remove any slack. Ensure that the webbing is not too tight. Close the buckle using both hands and re-secure the Velcro. (Fig 3).
8. The occupant restraint should now be fitted



E. REMOVING AND STORING

1. Keeping control, release the over-centre buckle on the rear straps, loosen the webbing and remove the Karabiner from the wheelchair. Close the over-centre buckle
2. Lift the plunger on the rear restraint and remove from the rail. Repeat with opposite fitting.
3. Push the chair forward to loosen the front straps.
4. Unhook the Karabiners from the wheelchair and remove the rear straps from the rail.
5. 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.

F. MAINTENANCE

1. Regularly inspect for damage, wear or malfunction. If any problems are identified replace it immediately.
2. All webbing and components can be cleaned as necessary, care should be to prevent contamination of the webbing with polish, oils and chemicals.
3. To clean 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 - do not use products containing bleach. **IMPORTANT:** when cleaning or disinfecting do not immerse buckles or rail fittings in disinfectant or water.
4. 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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