Miko Folding Mobility Base

Item #s
WCM-2000-2G
WCM-2000-2GAT
Save this User Guide for later reference.

- **DO NOT** use this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructions material such as owner’s manual, service manuals or instruction sheets supplied with this product or optional equipment. If clarification about warnings, cautions or instructions is needed, contact a healthcare professional, dealer or technical personnel before attempting to use this equipment - otherwise, injury or damage may occur.

- This wheelchair may be purchased by prescription or over-the-counter. A clinician or qualified rehabilitation specialist should be consulted regarding proper positioning and use of postural supports in this wheelchair.

- This wheelchair is designed to use an Inspired by Drive interface system when using special seating systems.

- The safety belt should be worn at all times during use.

- The attendant should always apply the wheel lock before letting go of the wheelchair.

- All safety straps and belts should fit snugly but comfortably on the user.

- Although this wheelchair is intended for use both indoors and outdoors, the frame may be subject to corrosion if exposed to excessive moisture and/or salt. Be sure to clean and dry the frame with a soft cloth.

- The wheels are not intended to be used in sand. Sand will negatively affect operation and performance of the wheels.

- Use care when unfolding and folding wheelchair to avoid pinching hands.

- Follow the Maintenance/Inspection Checklist section regularly and on an ongoing basis, notice anything that may need adjustment or repair.

- When going up a curb or step, face forward and tilt the wheelchair back to lift the front wheels over the curb. Then move forward and lift the rear wheels over the curb.

- When going down a curb or step, face the wheelchair backwards. Lower the rear wheels down the curb and continue backwards, taking the weight off the front wheels so they can gently be lowered.

- Maintain control of the wheelchair at all times when going up or down inclines.

- When transferring to or from the wheelchair, engage the wheel lock.

- This wheelchair has a transit model available which has been crash tested according to the ISO 7176-19 Section 19 - Wheelchair mobility device for use as seats in motor vehicles.

- Whenever feasible, the individual should transfer out of the wheelchair to a vehicle seat and use a vehicle occupant restraint or should use a child safety restraint system. The wheelchair should be safely stowed and secured so as not to become a projectile in a crash or sudden driving maneuver.

- If your wheelchair is a compliant transit model, refer to the Transit Guide for instructions for its use as a seat in a motor vehicle.

- The maintenance and safety instructions described in this booklet must be adhered to. By following these instructions you will be ensuring correct use of the wheelchair and its safety in use.

- It is also important to read the ‘Seating System User Manual’ that accompanies the wheelchair with regard to general use, transportation safety and maintenance.

- Inspired by Drive products are specifically designed and manufactured for use in conjunction with Inspired by Drive accessories. Accessories designed by other manufacturers have not been tested by Inspired by Drive and are not recommended for use with Inspired by Drive products.

- Compatibility of non-Inspired by Drive products is the responsibility of the user in conjunction with his/her healthcare professional.

- Risk terms are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. Refer to the table below for definitions of the risk terms.
READ BEFORE USE

Risk Terms  Definition

CAUTION  Caution indicates a potentially hazardous situation which, if not avoided, MAY result in property damage or minor injury or both.

WARNING  Warning indicates a potentially hazardous situation which, if not avoided, COULD result in property damage or minor injury or both.

- WARNINGS are found throughout the sections of this manual where they apply. Read all warnings in each section and review often until they are second nature to all user(s) of the wheelchair including the attendant(s).
- Inspired by Drive reserves the right to make technical changes to the product described in this manual.

REGISTER YOUR PRODUCT

Thank you for choosing a Inspired by Drive wheelchair. For customer service or technical support please contact:

Inspired by Drive
Toll Free: 800.454.6612
Phone: 562.282.0244
Fax: 310.305.1718
Email: info@inspiredbydrive.com
Website: www.inspiredbydrive.com

Register your product online at www.inspiredbydrive.com/warranty/

Product Information

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1. PRODUCT SPECIFICATIONS

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<tr>
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<td>Front Caster Diameter</td>
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<td>Rear Wheel Diameter</td>
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<tr>
<td>Push Handle Height</td>
<td>41.5&quot;</td>
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<tr>
<td>Tilt</td>
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2. MAJOR COMPONENTS

2.1 Miko Mobility Base

A. Push Handle
B. Push Handle Angle Adjustment
C. Foot Brake
D. Frame Locking Latch
E. Front Tie Down Bracket
F. Rear Tie Down Bracket
G. Tie Down Hook Symbol
H. Front Hook Lock for Seating Interface
I. Rear Locking Latch for Seating Interface
J. Under Seat Carrier Strap Guide
K. Front Caster Swivel Locking Pin

2.2 Seating System Interface
(for reference only, interface is attached to the seating system and not included with the Miko Mobility Base)

L. Seat Location Locking Pins
M. Gas Strut
3. GENERAL GUIDELINES

3.1 Intended Purpose
The Inspired by Drive Pediatric Folding Wheelchair is a manual wheelchair designed to provide mobility aid for children and adolescents who have limited or no ability to ambulate and require a device to aid in seated mobility in the home and community.

3.2 Stability
The back height, seat depth, back angle, seating system, tilt angle, seat height, size/position of the rear wheels, size/position of the front casters, as well as the user condition directly relate to the stability of the wheelchair. Any change to one or any combination of these may cause the wheelchair to decrease in stability. The adjustments MUST be performed by a qualified technician.

3.3 Maintenance
If the wheelchair is exposed to extreme temperature (greater than 100°F or less than 32°F), high humidity and/or becomes wet, prior to use, ensure hand grips DO NOT twist on the wheelchair handle - otherwise damage or injury may occur.

3.4 Suitable Environment
The wheelchair is intended for both indoor and outdoor use. If the wheelchair is used in the rain, the excess water should be wiped off with a soft cloth. See Cleaning/Storage section for detailed instructions on cleaning the wheelchair.

CAUTION: Use caution when using wheelchair on icy or slippery surfaces.

3.5 Operation Information
Unless otherwise noted, all service and adjustments should be performed while the wheelchair is unoccupied.

To determine and establish the occupant’s particular safety limits, practice bending, reaching and transferring activities in the presence of a qualified healthcare professional before attempting active use of the wheelchair.

Before attempting to transfer in or out of the wheelchair, every effort should be made to reduce the gap/distance between the wheelchair and the seating surface. Turn both casters parallel to the object that the occupant is transferring onto. When transferring to and from the wheelchair, ALWAYS engage both wheel locks.

3.6 Coping with Everyday Obstacles
Coping with the irritation of everyday obstacles can be somewhat alleviated by learning how to manage this wheelchair. Keep in mind the occupant’s center of gravity to maintain stability and balance.

3.7 A Note to Attendant
When assistance to the wheelchair occupant is required, remember to use good body mechanics. Keep your back straight and bend your knees whenever tilting the wheelchair or traversing curbs or other impediments.

Also, be aware of detachable or foldable parts such as arms or leg rests. These MUST NEVER be used to move the wheelchair or as lifting supports, as they may be inadvertently released, resulting in possible injury to the occupant and/or attendant(s). While learning a new assistance technique, have an experienced attendant demonstrate with guidance before attempting it alone.

⚠️ WARNING: DO NOT attempt to lift the wheelchair by any removable (detachable/foldable) parts. Lifting by means of any removable (detachable/foldable) parts of a wheelchair may result in injury to the occupant or others, or cause damage to the wheelchair.
4. SAFETY AND HANDLING

“Safety and Handling” of the wheelchair requires close attention of the wheelchair occupant as well as the attendant. This manual points out the most common procedures and techniques involved in the safe operation and maintenance of the wheelchair. It is important to practice and master these safety techniques until both occupant and attendant(s) are comfortable in maneuvering around the frequently encountered architectural barriers.

Use this information only as a “basic” guide. The techniques that are discussed on the following pages have been used successfully by many.

Individual wheelchair users often develop skills to deal with daily living activities that may differ from those described in this manual. Inspired by Drive recognizes and encourages each individual to try what works best for him/her in overcoming architectural obstacles that they may encounter, however ALL WARNINGS and CAUTIONS given in this manual MUST be followed. Techniques in this manual are a starting point for the new wheelchair occupant and attendant with “safety” as the most important consideration of all.

4.1 Stability and Balance

To assure stability and proper operation of this wheelchair, occupant MUST at all times maintain proper balance.

Virtually all activities which involve movement in the wheelchair have an effect on the center of gravity. Inspired by Drive recommends always using seat positioning belts for additional safety.

DO NOT lean forward out of the wheelchair any further than the length of the armrests. Make sure the casters are pointing in the forward position whenever the occupant leans forward. This can be achieved by advancing the wheelchair and then reversing it in a straight line.

⚠️ WARNING: If you fail to heed these warnings, a fall, tip-over, or loss of control may and could result in serious bodily injury to the occupant or others, damage to the chair and surrounding property.

- The seat positioning belt is a positioning belt only. It is not designed for use as a safety device withstanding high stress loads such as auto or aircraft safety belts. If signs of wear appear, belt MUST be replaced IMMEDIATELY.
- DO NOT climb, go up or down ramps or traverse slopes greater than 10°. Proceed down ramps or slopes slowly to avoid hard braking or sudden stops.
- DO NOT carry heavy objects on occupant’s lap while occupying the wheelchair.
- This wheelchair has been designed to accommodate one individual. If more than one individual occupies the wheelchair this may adversely affect the stability of the wheelchair.
- Occupant should NEVER attempt to pick up objects by reaching. Reaching or leaning will affect the center of balance of the chair. This may cause the occupant to fall or tip over.
- Adjustments to the wheelchair MUST be performed by a qualified technician. The back height, seat depth, back angle, seating system, tilt angle, seat height, size/position of the rear wheels, size/position of the front casters, as well as the user condition directly relate to the stability of the wheelchair. Any change to one or any combination of these may reduce the wheelchair stability.

Many activities require the wheelchair occupant to reach, bend and transfer in an out of the wheelchair. These movements will cause a change to normal balance, center of gravity, and weight distribution of the wheelchair. Refer to Center of Gravity Figure on the right.

⚠️ WARNING: Avoid carrying heavy objects on the push handles which will shift the center of gravity reducing rearward stability.

To determine and establish occupant particular safety limits, practice bending, reaching and transferring activities in several combinations in the presence of a qualified healthcare professional BEFORE attempting active use of the wheelchair.
4. SAFETY AND HANDLING

Proper positioning is essential for the occupant safety. When reaching, leaning, bending or bending forward, it is important to use the casters as a tool to maintain stability and balance.

4.2 Reaching, Bending - Backward
Position wheelchair as close as possible to the desired object. Position the casters so that they are extended away from the rear wheels to create the longest possible wheelbase. Reach back only as far as the occupant’s arm will extend without changing his/her sitting position.

⚠️ WARNING: DO NOT lean over the top of the back upholstery. This will change the occupant center of gravity and may cause the occupant to tip over resulting in injury.

4.3 Tipping
1. When tipping the wheelchair, the attendant should hold the back of the wheelchair on a non-removable (non-detachable) part. Inform the wheelchair occupant before tipping the wheelchair and remind him/her to lean back.
2. Be sure the occupant’s feet and hands are clear of all wheels and/or pinch points.
3. After mastering the techniques of tipping the wheelchair, use this method to tackle curbs, short stairs, etc.

4.4 Stairways

⚠️ WARNING: If you fail to heed these warnings, a fall, tip-over, or loss of control may occur and could result in serious bodily injury to the occupant or others, damage to the chair and surrounding property.

- Occupant should ALWAYS wear the seat/chest positioning belt. If signs of wear appear, belt MUST be replaced IMMEDIATELY.
- DO NOT attempt to lift the wheelchair by any removable (detachable/foldable) parts. Lifting by means of any removable (detachable/foldable) parts of a wheelchair may result in serious injury to the occupant or others, or cause damage to the wheelchair.
- It is recommended the occupant should be removed from the wheelchair prior to moving up or down stairs. Extreme caution is advised when it is necessary to move an occupied wheelchair up or down the stairs. Use at least two attendants to move the wheelchair and occupant up or down stairs.

Follow these instructions for moving the wheelchair between floors when an elevator is NOT available:
1. After the wheelchair has been tilted back to the balance point, one attendant (in the rear) backs the wheelchair up against the first step, while securely grasping a non-removable (non-detachable) part of the wheelchair for leverage.
2. The second attendant, with a firm hold on a non-detachable part of the framework, lifts the wheelchair up and over the stair and steadies the wheelchair as the first attendant places one foot on the next stair and repeat STEP 2.
3. The wheelchair should not be lowered until the last stair has been negotiated and the wheelchair has been rolled away from the stairway.

⚠️ WARNING: Escalator Usage – DO NOT use an escalator to move a wheelchair between floors. Serious bodily injury may occur.
5. INSTALLATION & SET UP

5.1 Unfolding

5.2 Folding

5.3 Disengage Swivel Lock
5. INSTALLATION & SET UP

5.4 Installing Seating System

5.5 Removing Seating System

5.6 Installing & Adjusting Armrests
5. INSTALLATION & SET UP

5.7 Installing & Adjusting Footrests

5.8 Installing Under Seat Carrier

5.9 Installing & Adjusting Canopy
6. OPERATIONS

6.1 Seat Tilt

6.2 Push Handle

6.3 Wheel Lock

6.4 Front Caster
6. OPERATIONS

6.5 Rear Wheel

7. ACCESSORIES

7.1 Upper Extremity Support (Tray)  
7.2 Angle Adjustable Footplate

7.3 Rain Cover  
7.4 Ventilation Tray
8. MAINTENANCE

8.1 Maintenance / Inspection Checklist

Note: Take this wheelchair to a qualified technician every six months for a thorough inspection and servicing. Regular cleaning will reveal loose or worn parts and enhance the smooth operation of the wheelchair. To operate properly and safely, this wheelchair MUST be cared for just like any other vehicle. Routine maintenance will extend the life and efficiency of this wheelchair.

Functional Test
All four wheels should make contact with the floor. With the wheelchair empty, push it forward on a smooth level surface with enough momentum to travel six feet (2 m). The wheelchair should not veer to the left or right more than six inches (15 cm). Wheels should be free running and the wheel locks adjusted to adequately secure the wheelchair. Following the fold/unfold instructions, the wheelchair should fold/unfold smoothly without undue effort. All fasteners should be secure. Fasteners on moving joints should not be over tight. Seat cover should not be wide-stretched or sagging. Positioning accessories should be correctly adjusted and secure.

Safety and Inspection Checklist
Initial adjustments should be made to suit the occupant’s personal body structure needs and preference. Thereafter follow these maintenance procedures:

Inspect/Adjust Initially

☐ Ensure wheelchair rolls straight.
☐ Ensure seat, back and/or arm upholstery have no rips.
☐ Ensure there is no excessive side movement or binding when rear wheels are lifted and spun.
☐ Ensure sealed bearings and axle nut tension are correct.
☐ Adjust bearing system if wheel wobbles noticeably or binds to a stop.
☐ Ensure wheel/fork assembly has proper tension when caster is spun. Caster should come to a gradual stop.
☐ Loosen/tighten caster locknut if wheel wobbles noticeably or binds to a stop.
☐ Ensure all caster/wheel/fork fasteners are secure.
☐ Ensure that casters are free of debris.
☐ Ensure wheel lock does not interfere with tires when rolling. To set/adjust the wheel lock, push down on the brake handle to locked position. Push the wheelchair with light pressure on the rear wheels. If the wheels rotate, adjust tension by turning the adjustment nut until wheels no longer rotate while locked.
☐ Ensure wheel lock pivot points are free of wear and looseness.
☐ Ensure wheel lock is easy to engage.
☐ Inspect tires for flat spots, wear and cracks.
☐ Check that all labels are present and legible. Replace if necessary.
## 8. MAINTENANCE

### Inspect/Adjust Initially

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<th>Every 3 Months</th>
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<td>□ Ensure wheelchair rolls straight (no excessive drag or pull to one side).</td>
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<tr>
<td>□ Ensure wheel/fork assembly has proper tension when caster is spun. Caster should come to a gradual stop.</td>
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<tr>
<td>□ Ensure that caster/wheel/fork fasteners are secured.</td>
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<tr>
<td>□ Ensure that casters are free of debris. If they develop shimmy, use a wrench to tighten the stem nut. Adjust the stem nut clockwise until the shimmy disappears.</td>
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<tr>
<td>□ Ensure all seat belt buckles click as they lock and cannot be released without pressing the release button. Replace if any belt doesn’t lock properly and securely.</td>
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<tr>
<td>□ Clean the surface of cover with a mild detergent and water. Air dry.</td>
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<tr>
<td>□ Ensure sealed bearings and axle nut tension are correct.</td>
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<tr>
<td>□ Adjust bearing system if wheel wobbles noticeably or binds to a stop.</td>
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<tr>
<td>□ Inspect tires for flat spots, wear and cracks.</td>
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<tr>
<td>□ Ensure wheel lock does not interfere with tires when rolling.</td>
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<tr>
<td>□ Ensure wheel lock pivot points are free of wear and looseness and is easy to engage.</td>
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<tr>
<td>□ Inspect axles to ensure they are free from dirt, lint, etc.</td>
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<tr>
<td>□ Inspect seat positioning belt for any signs of wear. Ensure buckle latches. Verify hardware that attaches belt to frame is secure and undamaged. Replace if necessary.</td>
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<td>□ Ensure arms are secure but easy to release and adjustment levers engage properly.</td>
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<tr>
<td>□ Verify that all bolts and nuts are tightened properly.</td>
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<td>□ Check that all labels are present and legible. Replace if necessary.</td>
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<tr>
<td>□ Clean and wax all parts.</td>
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<td>□ Clean and lubricate the main folding frames using Teflon® based lubricant.</td>
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<tr>
<td>□ Remove and wash the seat and back covers by hand or in a washing machine using a mild detergent. Air dry. Do not put in the dryer.</td>
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8.2 Cleaning

Cleaning of Frame
- The frame should be kept dry and free of debris and dirt.
- Clean the frame with a moist cloth.
- To maintain easy folding and adjustment, wipe the frame with a non-toxic, hypo allergenic and biodegradable lubricant to moving parts as needed.
- Avoid using the wheelchair in salt-water environments that may cause corrosion on the frame. If the wheelchair is exposed to the saltwater, it should be washed clean with water and wiped dry with a towel immediately. Apply lubricant to all moving parts after the frame is dry.

Cleaning of Wheels and Wheel Locks:
- Wipe off dirt or mud from the wheels and brakes with a moist cloth as needed. The wheels and brakes should be clean at all time as to not interfere with pushing and locking of the wheelchair.
- Readjust the brakes if necessary.

8.3 Storage
- To prevent rust or corrode, the wheelchair should be stored in a clean and dry area.
- Before extended storage periods, and before reuse, inspect the entire wheelchair according to the Maintenance/Inspection Checklist.
- Apply lubricant to all moving parts.
- Before use, disinfect the entire wheelchair, especially the areas that come in contact with the user or caregiver, with disinfectant wipes.

9. TRANSIT USE

The Miko has been crash tested according to the ISO 7176-19:2008 Wheelchair for use as seats in motor vehicles.
- Whenever feasible, the individual should transfer out of the wheelchair to a vehicle seat and use a vehicle occupant restraint or should use a crash-tested child safety restraint system. The wheelchair should be safely stowed and secured so as not to become a projectile in a crash or sudden driving maneuver.
- There should be sufficient free space around the wheelchair to avoid.
- It is important to engage wheel locks during transport.
- Four wheelchair tiedown straps should be used for effective wheelchair securement.
- BOTH pelvic and upper torso occupant restraints should be used to reduce the possibility of head and chest impacts.
- A headrest should be provided for use when traveling in a vehicle where other seated passengers have headrests.
- Do not place/hang any additional items onto the wheelchair during transport such as shopping bags or backpacks.
- Belt restraints should be positioned on wheelchair occupants in accordance with WTORS (Wheelchair Tiedown and Occupant Restraint Systems) and/or the wheelchair manufacturer’s instructions.
- Sufficient forward and rearward clear space should be provided around the wheelchair occupant. The forward clear-space zone (FCZ) needs to be larger when a shoulder-belt restraint is not used.

⚠️ WARNING:
- The wheelchair has been dynamically tested in a forward-facing mode when loaded with a crash-test dummy restrained with pelvic and shoulder belts. Both pelvic and upper torso belts designed for use as crashworthy restraints in motor vehicles should be used to reduce the risk of serious injuries to wheelchair occupants.
- Alterations or substitutions should not be made to the wheelchair or seating system structural members, or to its parts and components, without consulting the wheelchair manufacturer.
- This wheelchair should only be used in motor vehicles as described in these instructions.
9.1 Securing the Wheelchair

⚠️ WARNING:
- The wheelchair MUST be in a forward-facing position during travel in motor vehicle.
- This wheelchair is to be used only with Wheelchair Tiedown and Occupant Restraint Systems (WTORS) that have been installed in accordance with the restraint systems manufacturer’s instructions and SAE J2249.
- Assembly of the WTORS anchor points to the floor and wall of the vehicle should only be done by a trained person and in accordance with the restraint systems manufacturer’s instructions and SAE J2249.

A copy of SAE J2249 Wheelchair Tiedown and Occupant Restraint Systems (WTORS) for use in motor vehicles can be obtained from: SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, (877) 606-7232 or (724) 776-4970.

Instructions
1. Securement points are identified by the symbol on the tiedown brackets and are located on the wheelchair as illustrated in Section 2 - Major Components.
2. All four tiedown straps must be used to secure the wheelchair in a motor vehicle.
3. The wheelchair must be positioning facing forward inside the vehicle.
4. Position the wheelchair between the front and rear tiedown anchor points, allowing for the correct angle of adjustment of the tiedown straps.
   See Tiedown Strap Angles.
5. Use the four-point strap tiedowns to secure the transit wheelchair by attaching the hook end fittings of the straps to each of the securement bracket located on the legs of the wheelchair or by threading the straps through the openings in the securement brackets.
6. The floor anchor points and wheelchair should be located:
   - so that the tiedown straps follow a straight, clear path from the wheelchair securement points to the floor anchor points and
   - so that the front straps are angled outward from the sides for the wheelchair and
   - so that the rear straps are anchored straight back from the wheelchair securement points
7. Once all four tiedown straps are attached to the wheelchair, inspect all tiedown straps for signs of wear to the webbing and replace any straps that are worn.
8. Tighten the straps to remove any excess slack and provide tension between the front and rear tiedown straps.

9.2 Restraining the Wheelchair Occupant

⚠️ WARNING:
- All lap belts and chest harnesses supplied by Inspired by Drive ARE NOT sufficient for occupant restraint when the equipment is used on a moving vehicle and additional Occupant Restraint is required.
- Only tested and compatible Wheelchair Tie Down and Occupant Restraint System (WTORS) should be used. This can be purchased separately from:

The occupant restraint should have a clear path from the user to the anchor point and should not be held away from the body and should not be interfered with any part of the vehicle, wheelchair, seating or accessory.
9.3 Use of Postural Belts
The use of postural pelvic belts attached to the wheelchair is encouraged during travel. However, these belts should be positioned so that they don’t interfere with the proper positioning of crashworthy belt restraints and should not be relied on for occupant protection in crash situations unless the postural belt has been designed and labeled for use in transit.

9.4 Use of Tray & Other Wheelchair Components
Rigid trays on wheelchairs that are not specifically designed for use during travel in motor vehicles should be:
A. Removed and secured separately in the vehicle, or
B. Secured to the wheelchair so it will not break free in a crash, and
   • Be positioned with a gap of at least 75 mm (3 inches) between the edge of the tray and the wheelchair occupant’s abdomen and/or chest so as not to interfere with proper belt restraint use, and
   • Have energy absorbing padding placed in the gap between the tray edge and the wheelchair occupant.
Whenever possible, auxiliary wheelchair equipment should be removed from the wheelchair and stored in a cargo area or secured in the vehicle during transit, or effectively secured to the wheelchair so that it does not break loose and cause injury to vehicle occupants in a crash.
Your Inspired by Drive branded product is warrantied to be free of defects in materials and workmanship for the lifetime of the product for the original consumer purchaser. Your device was built to exacting standards and carefully inspected prior to shipment. This Lifetime Limited Warranty is an expression of our confidence in the materials and workmanship of our products and our assurance to the consumer of years of dependable service. This warranty does not cover device failure due to owner misuse or negligence, or normal wear and tear. The warranty does not extend to non-durable components, such as rubber accessories, casters, and grips, which are subject to normal wear and need periodic replacement.

5 Year warranty on frames
1 Year warranty on wearable parts

10.1 End Users Replacements
We sell replacement parts and all items that do not require a health assessment for the user. All items will be sold at Retail cost.
If you have a question about your Inspired by Drive device or warranty, please contact an authorized Inspired by Drive dealer.