



Specialised
Orthotic
Services

Miko

Buggy Wheelbase



USER'S MANUAL

ALL USER'S OF THE EQUIPMENT SHOULD BE AWARE
OF THIS DOCUMENT AND ITS CONTENT

Index

CONTENTS

PAGE

Index	1
Introduction & Serial No	2
Stability of Miko and Seating Systems	3
Recommendations on Transport	4
Safety Guidelines for Transportation	5
Transportation	6 - 8
WTORS Manufacturers	8
Key Identification Points	9 & 10
1.0 <u>User's Guide "Preparing Miko For Use"</u>	
1.1 Unfolding the Miko Buggy	11
1.2 Folding the Miko Buggy	11 & 12
1.3 Front Castors	12
1.4 Attaching & Releasing Seating Systems	13
1.5 Seat Tilt Operation	14
1.6 Handle Height Adjustment	14
1.7 Net Carrier Fitting & Removal (If Supplied)	15
1.8 Sunshade/Rain Canopy Fitting & Removal (If Supplied)	16 & 17
2.0 <u>User's Guide "Placing the Client"</u>	
2.1 Seating the Client when Using the Miko Buggy	18
2.2 Removing the Client from the Seating System	18
3.0 <u>User's Guide "Manoeuvring The Miko"</u>	
3.1 Pushing the Miko	19
4.0 <u>User's Guide "Looking After The Miko"</u>	
4.1 Cleaning	20
4.2 Maintenance	20
If You Detect a Fault or Breakage	21
SPECIFICATIONS	22
CONTACT DETAILS	Backpage

Miko

(Class 1 Device)

Introduction

- This Users Guide for the Miko is designed to give guidance on its use and maintenance.
- The Miko is designed to use an SOS interface system when using special seating systems.
- To make sure that placing a seating system in the Miko does not render it unstable, it is recommended that when handing the Miko and seating system over to the client it is tested for stability and a Certificate of Compliance is issued to verify that the level of stability is satisfactory (for more details regarding stability of wheelchair & seating systems, see page 3).
- When used in transport the whole system **MUST** be securely fastened to the floor of the vehicle (**WHEELCHAIR TIE DOWNS**) and the vehicles safety belts (**OCCUPANT RESTRAINT**) **MUST** be used in conjunction with the seating systems straps. (See Guidelines for Transportation on pages 4 - 8)
- The Miko has been tested to and conforms to the transport requirements as specified in ISO 7176-19:2001.
- The maintenance and safety instructions described in the manual must be adhered to. By following these instructions you will be ensuring correct use of the Miko and its safety in use.
- It is also important to read the 'Seating System User Manual' with regard to general use, transportation use and maintenance.

Serial No.

- Each Miko has a unique Serial Number Plate attached to the inside of the side frames for identification. A copy of the Unique Serial Number is attached below for reference:



Stability of Miko and Seating Systems

- To ensure that the Miko Buggy and Seating System are safe to use, it is important that fitting the Seating System to the Miko does not make the unit unstable. Each Miko Buggy when handed over to the user should be tested for static stability to the specified angle of 12 degrees (Fig.1).
- It is also recommended that any additional items to be used with the seat and buggy are in place when the test is done.
- The stability test is always done with the client seated in the seating system and all equipment to be used by the client on a daily basis when in the Miko buggy in situ.
- Once the test has been successfully completed, a Stability Certificate will be issued by Specialised Orthotic Services Limited. A copy of this certificate will be handed over when the equipment is supplied and should be kept with the user manual for future reference.



Fig.1

- **The Miko is not to be used with any other Seating System(s) than those for which it has been stability tested and proven safe for use.**
- **Always steer clear of obstacles where possible.**
- **When using the equipment never attempt to climb or descend an incline where the surface is rough, wet or slippery (gravel, loose chippings, grass, rain, ice, snow, etc).**
- **WARNING: Whilst the client is seated in the wheelchair, the attachment of any heavy object to the wheelchair (i.e. shopping bags etc.) will have a serious effect on the overall stability of the wheelchair and may place the safety of the client at risk.**

Recommendations for the Transportation of SOS Miko's & Seating Systems

The following information is intended to give guidance with regard to the use of SOS Miko's & Seating Systems by wheelchair users and carers during transportation.

- **Specialised Orthotic Services Ltd** have carried out extensive investigations into the suitability of the Miko Buggy for transportation use and has established clear guidelines for users.
- Following these investigations the following user information is intended to give guidance to users of the Miko Buggy & Seating Systems regarding the use of the equipment during transportation.
- As part of the assessment process, transportation requirements will be assessed.

This information will be of interest to all parties involved in the daily management of the wheelchair user (Relatives, Carers, Support Staff, Healthcare Professionals and Transport Service Providers).

General Safety Guidelines for Wheelchair User Transportation

- All wheelchair / buggy users should transfer to vehicle seats whenever possible.
- The Miko Buggy is designed to be forward facing when used for transportation of the client in an adapted motor vehicle and users should not travel with the buggy at an angle or facing sideways to the direction of travel.
- There should be sufficient free space around the buggy and user to avoid the user making contact with other vehicle occupants, unpadded parts of the vehicle, accessories or W.T.O.R.S. anchor points.
- It is important to apply brakes during transport.
- Mobility equipment should not block gangways and exits for other passengers in the vehicle.
- A headrest should be provided for use when travelling in a vehicle where other seated passengers have headrests.
- Do not place / hang any additional items onto the buggy during transportation such as shopping bags and holdalls.
- Trays should be removed for transportation and secured separately in the vehicle or be secured to the buggy but positioned away from the occupant with energy-absorbing padding placed between the tray and the occupant.

Wheelchair Tie Down and Occupant Restraint System (W.T.O.R.S.)

- Secure methods for the safe retention of mobility equipment have been developed and are used on a regular basis to secure wheelchairs/buggies during transportation use.
- These systems are now commonly referred to as **W.T.O.R.S.**

Wheelchair Tie down and Occupant Restraint Systems

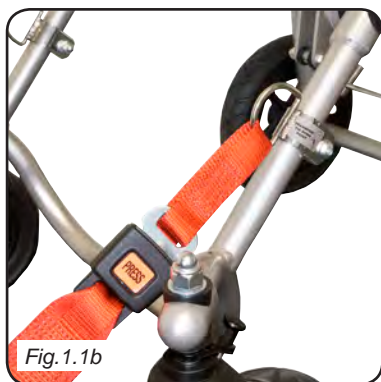
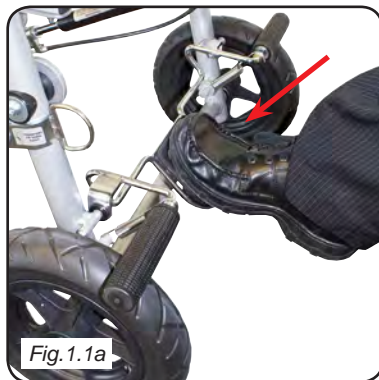
- There are many types of W.T.O.R.S. available from various manufacturers; a list of some manufacturers is given on page 8). Refer to your Seating System Manufacturers Handbook for details of their particular recommendations.
- Please note that all lap /chest belts and harnesses supplied with the seating system **are not** sufficient for occupant restraint when the equipment is used on a moving vehicle and additional Occupant Restraint is required.

1. TRANSPORTATION

- When ever possible the user should be removed from the seating system and secured in the vehicles fixed seats.
- When not in use for transportation the seating system & Miko Buggy should be disassembled and fixed in the luggage area of the vehicle.

1.1. TRANSPORTATION OF THE CLIENT SEATED IN THE MIKO BUGGY SEATING UNIT.

- Transportation of the user with the seating system can be done when used in conjunction with a “Wheelchair Tie down and Occupant Restraint System” (W.T.O.R.S.). The Miko Buggy has been tested using a 4-point tie down system.
- Push the wheelchair into the vehicle via a ramp when ever possible.
- Apply the rear brakes (Fig.1.1a). **Please Note:** The Miko & seating system can be safely transported at any angle of tilt as long as the seat belt can be located correctly over the shoulder.
- Attach the W.T.O.R.S. to the front tie down points (Fig.1.1b).
- Attach the W.T.O.R.S. to the rear tie down points (Fig.1.1c).
- Attach a permanently fixed vehicle seat belt around the client and wheelchair.
- **Please refer to the W.T.O.R.S. manufacturers handbook for correct fitting and adjustment for both the client and passengers safety.**
- **Never move the vehicle without applying:**
 - i) **The wheelchair brakes.**
 - ii) **Correctly fitted & adjusted W.T.O.R.S.**
 - iii) **Vehicle seat belt around the client & wheelchair.**



1.2. WHEELCHAIR TIE DOWN SYSTEM

- **Wheelchair users should not travel in cars, taxis or minibuses, unless the wheelchair is tied down.**
- Please refer to your Miko Buggy & Seating System users guides for information regarding the recommended wheelchair tie down system to be used.
- Only the Seating System specified for use with the Miko Buggy can be used.

1.3. OCCUPANT RESTRAINT SYSTEM

- **Wheelchair users should not travel in cars, taxis or minibuses, unless an occupant restraint system is in place on the client.**
- For any client to be transported safely in the Seating System and Miko Buggy, it is essential that an Occupant Restraint System be used.
- SOS have proven during crash tests on Miko Buggies (Fig.1.3a) that transporting any client on a moving vehicle without an approved occupant restraint system is extremely dangerous and will place **THE CLIENT AT GREAT RISK.**
- It is important that the Occupant Restraint System is positioned correctly as most clients using Special Seating will be dependent on carers for correct placement of the occupant restraint.
- Consideration should be given to the most suitable type and positioning of restraint for the user, both in normal travel and during an impact.
- The Occupant Restraint should have a clear path from the user to the anchor point (Fig.1.3b), and should not be held away from the body and should not be interfered with by any part of the vehicle, Miko Buggy, seating or accessory (Fig.1.3c).

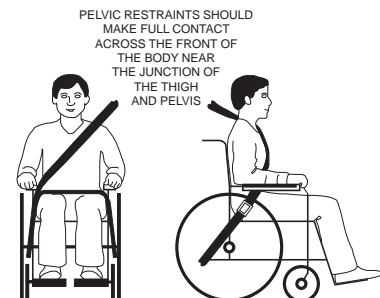


Fig.1.3b



Fig.1.3c

1.4. STOWAGE OF THE MIKO AND SEATING SYSTEM

- During use of your Special Seating System it may be necessary for you to remove the Seating System and stow this along with the Miko Buggy in a vehicle.
- It is **important** to realise that these items pose a **risk** if not adequately restrained whilst in transit.
- It is **not** adequate to simply place the items into a car boot or the floor of an open vehicle such as an MPV or estate car as in a collision these unsecured items could cause **serious injury** to occupants of the vehicle.
- Various retention methods are available to secure such equipment during transit, and once again the list of Wheelchair Restraint System Manufacturers in this booklet will be happy to advise on this matter (see below).

W.T.O.R.S MANUFACTURERS

Below are details of some Wheelchair Tie down and Occupant Restraint Systems manufacturers.

UNWIN SAFETY SYSTEMS

Unwin House
The Horseshoe
Coat Road
Martock
Somerset
TA12 6EY

TEL: 01935 827740
FAX: 01935 827760
E Mail: sales@unwin-safety.co.uk

KOLLER ENGINEERING LTD

Unit 5, Garrett Road
Lynx Trading Estate
Yeovil
Somerset
BA20 2TJ

TEL: 01935 426695
FAX: 01935 433766
E Mail: enquiries@koller.co.uk

QSTRAINT (EUROPE)

72 - 76
John Wilson Business Park
Whitstable
Kent
CT5 3QT

TEL: 01227 773035
FAX: 01227 770035
E Mail: info@qstraint.com

2. KEY IDENTIFICATION POINTS

- S.O.S. Miko's are provided with a tilting frame (Fig.2.1) and a seating system quick release interface (Fig.2.2 on page 10).

2.1. STROLLER

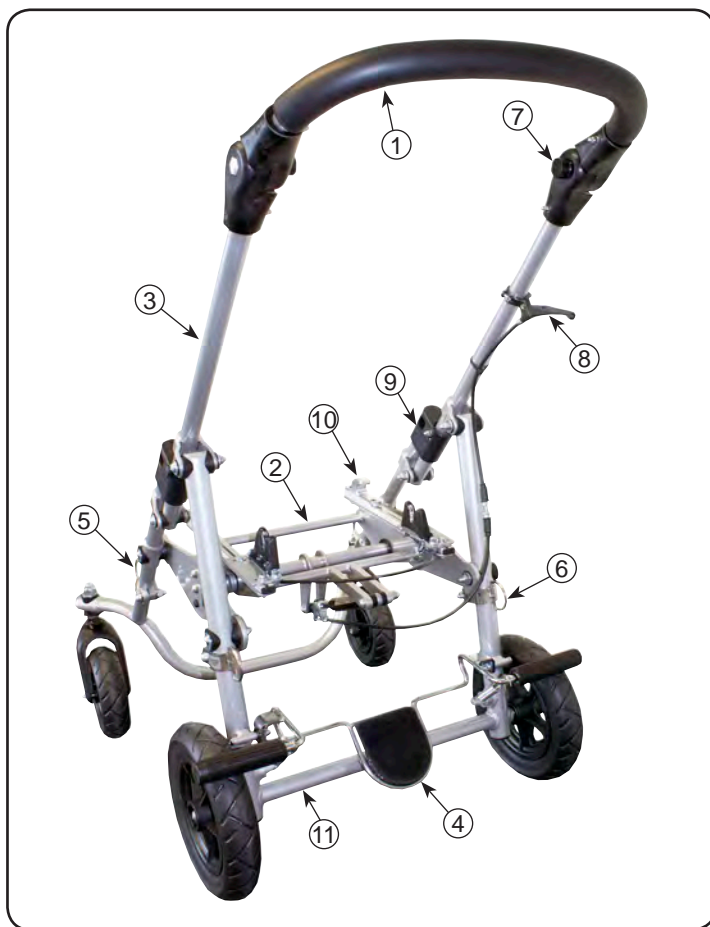


Fig.2.1 Miko

- | | |
|-------------------------|--------------------------------------|
| 1. Push Handle | 7. Handle Adjustment Button |
| 2. Tilt Base | 8. Tilt Lever |
| 3. Wheelbase | 9. Frame Locking Catch |
| 4. Foot brake | 10. Interface Location (see page 10) |
| 5. Front Tie Down Point | 11. Rear Foot Bar |
| 6. Rear Tie Down Point | |

2. KEY IDENTIFICATION POINTS (Cont.)

2.2. SEATING SYSTEM INTERFACE

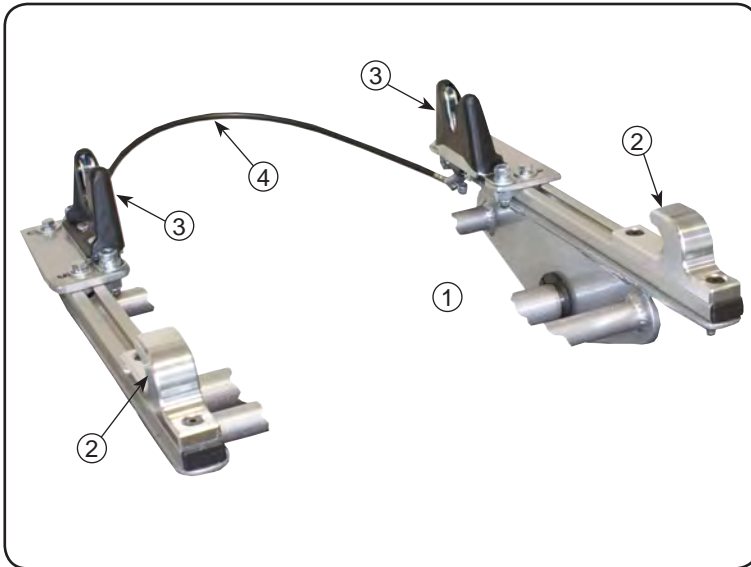


Fig.2.2

- | | |
|---------------------------|--------------------|
| 1. Seat Frame (not shown) | 3. Rear Catch (x2) |
| 2. Front Location (x2) | 4. Release Cable |

2.3. THE SEATING SYSTEM

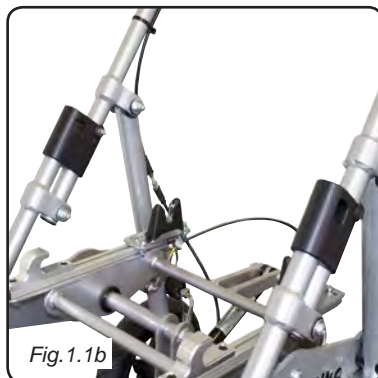
- Seating Systems need to be interfaced to the Miko Buggy safely and it is important that the interface system supplied with the Wheelbase is used.
- It is recommended that seating systems are attached to the Miko Buggy using an SOS “Miko Buggy Seat Interface”. (see tech spec for reference and interface product codes)
- Please refer to any handbooks supplied with your seating system before attaching any seat to the Miko Buggy.

USER GUIDE 1.0

PREPARING THE MIKO BUGGY FOR USE

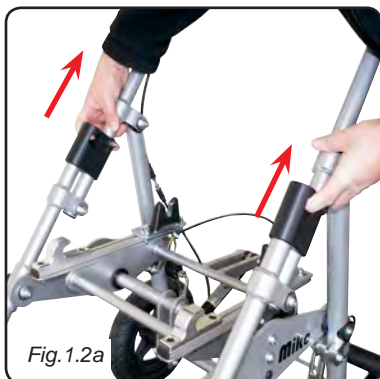
1.1. UNFOLDING THE MIKO BUGGY

- Place your foot on the rear bar and pull the push handle upwards (Fig.1.1a), which will allow the frame to rotate into position.
- Make sure the locking catches have automatically clicked into position over the frame (Fig.1.1b).



1.2. FOLDING THE MIKO BUGGY

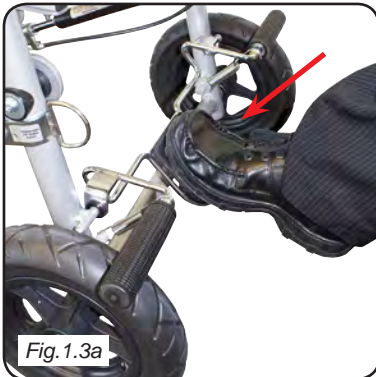
- Release the front castor swivel lock as on page 12 (Fig.1.3b).
- Pull up both locking catches simultaneously until clear of the frame (Fig.1.2a).
- Push handle down and let the front frame rotate backwards (Fig.1.2b) until it is folded up under the rear section and the handle is as far down as it will go (Fig.1.2c).





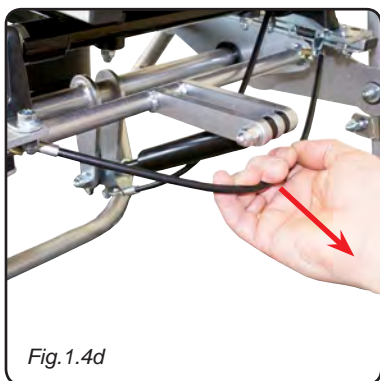
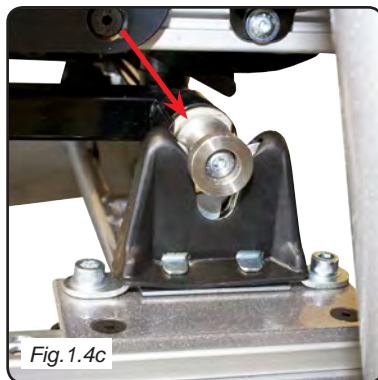
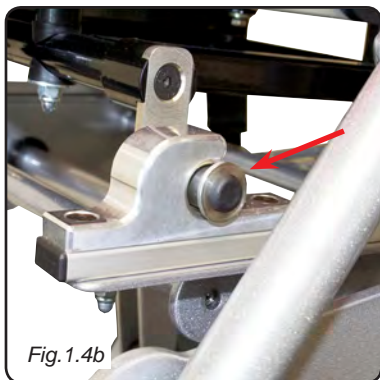
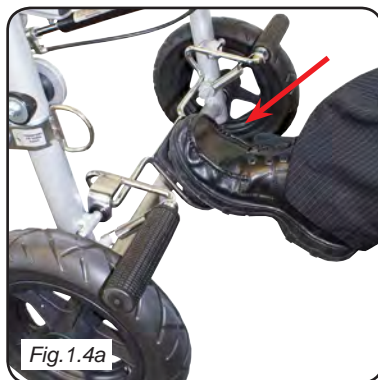
1.3. UNLOCKING FRONT CASTOR'S SWIVEL LOCK

- Make sure that the rear brakes are applied to the rear wheels (Fig.1.3a).
- Pull release pin upwards and rotate through 90° (Fig.1.3b).
- To lock the swivel on the front castors, rotate the release pin until it drops into the groove then rotate the castor until the pin drops into the hole on the fork body.



1.4. ATTACHING THE SEAT

- Make sure that the brakes are applied to the rear wheels (Fig.1.4a).
- Locate the front of the interface frame into stops as shown (Fig.1.4b).
- Lower the interface into the rear catches as shown until it clicks into position (Fig.1.4c).
- **Please refer to handbooks supplied with your seating system for any additional security devices (i.e. Retaining Straps) that need to be fitted prior to client use.**



RELEASING THE SEAT

- Make sure that the brakes are applied to the rear wheels (Fig.1.4a).
- SOS recommends that the client is always removed from the seating system before releasing the interface and removing seats. **Never try to lift the client in the seat system**
- To release the seat pull back the interface cable (Fig.1.4d) until the catches release, raise up the rear of the interface clear of the catches, release the cable and pull the interface clear of the front stops.
- Now lift the seat and remove.

1.5. SEAT TILT OPERATION

- Make sure that the brakes are applied to the rear wheels (Fig.1.5a).
- To recline the seat in the chassis, squeeze the tilt lever (Fig.1.5b) and push onto the seating system tilting backwards, until desired angle of tilt is achieved then release the lever.
- To raise the seat back to the upright position just press the lever and pull the seat until required position is achieved. Release lever to lock in position.



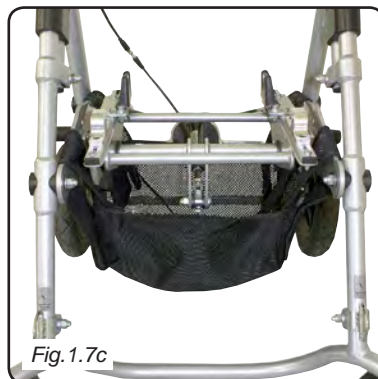
1.6. PUSH HANDLE HEIGHT ADJUSTMENT

- Press release buttons and rotate handle to its desired position (Fig.1.6a & 1.6b).
- When in position release the buttons.



1.7. NET CARRIER FITTING (if supplied)

- Feed the carrier in from below the frame.
- Hook the four straps over the side beams (Fig.1.7a) and secure the two halves of the Velcro together.
- Correctly fitted net carrier shown (Fig.1.7b & 1.7c).
- Removal is a reversal of the fitting procedure.
- **Be careful not to overload the carrier especially with loose items as these may lodge in the wheels causing instability.**



1.8. SUNSHADE/RAIN CANOPY FITTING (if supplied)

Fitting Sunshade:

- Locate the frame legs into the frame receivers (Fig.1.8a), set to height required and tighten in place with wing knob.
- Push the centre of the frame locking bar until straight so that the sunshade is tensioned properly (Fig.1.8b). Repeat for other side.
- Correctly fitted & tensioned sunshade as shown (Fig.1.8c)
- Removal is a reversal of the above.



Fig.1.8a



Fig.1.8b



Fig.1.8c

1.8. SUNSHADE/RAIN CANOPY FITTING (if supplied) Cont.

Fitting Rain Canopy:

- Remove the rain canopy from the zipped pouch on the back of the sunshade (Fig.1.8d).
- Unfold the rain canopy and hook over the sunshade as shown (Fig.1.8e).
- Pull the rear panel down between the Miko handles and hook the front of the rain canopy around the footbox on the seating system (if fitted).
- Hook the two elasticated straps around the rear tie down hooks as shown (Fig.1.8f). Repeat for other side.
- Correctly fitted rain canopy as shown (Fig.1.8g)
- Removal is a reversal of the above.
- **Please ensure the top & bottom retaining straps (Fig.1.8f) are released BEFORE folding/removing to prevent damage to the rain canopy.**



Fig.1.8d



Fig.1.8e

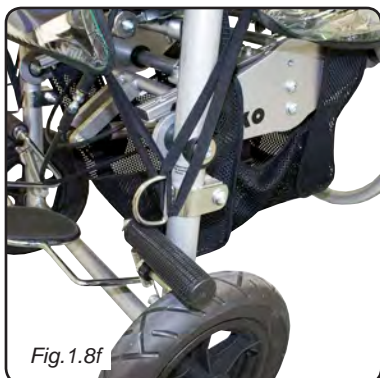


Fig.1.8f



Fig.1.8g

USER GUIDE 2.0

2.1. PLACING CLIENT INTO SEATING IN MIKO BUGGY

- Apply rear wheel brakes.
- Set tilt in the required position.
- Make sure all client retaining straps are outside of seating system this will avoid the client sitting on them when placed in the seat.
- Lower the client into the Miko Buggy using a hoist (Please refer to your hoist "operators manual").
- Manually lifting the client is not recommended.
- With some clients it may not be possible to hoist them safely by conventional means and in instances such as this you are recommended to carry out a '**RISK ASSESSMENT**' to assess the risks involved in any such action. **(It is important that all carers are aware of the Health & Safety guidelines for 'Lifting and Handling')**.
- **Secure all straps/harness (if fitted) & tighten if necessary (Please refer to your "special seating users manual")**.

2.2. REMOVING THE CLIENT FROM SEAT IN MIKO BUGGY

- Apply rear wheel brakes.
- Set tilt (if fitted) in the upright position.
- Remove all straps/harness (if fitted) & place outside of seating system (Please refer to your "special seating users manual").
- Using a hoist lift the client from the seating system (for manual lifting please refer to section 2.1).

USER GUIDE 3.0

3.1. PUSHING THE MIKO BUGGY

- Apply rear wheel brakes & make sure client is comfortable/securely seated in the Miko Buggy (see user guide 2.0).
- Set tilt to suit the clients needs & adjust handlebar height.
- Release rear wheel brakes (note: always apply rear wheel brakes when stationary for long periods of time).
- Push the Miko Buggy by using both hands on the handlebar provided to prevent instability and erratic steering.
- **Never let go of the Miko Buggy unless rear wheel brakes are applied.**
- **Always look well ahead to avoid any hazards and to prevent any sudden directional changes.**
- **Never push the Miko Buggy above walking pace or turn suddenly to prevent distressing the client or causing harm to passers by.**
- **Never allow anything to hang near or on the wheels (i.e. Clothing, clients equipment, etc.).**
- **Never hang anything on the back of the Miko Buggy (i.e. Bags, coats, etc.) as this could cause instability during use.**
- **The Miko Buggy should only be used by the client it was supplied for and NO other person.**
- **Always use both hands when tilting the Miko Buggy.**
- **Never tilt the Miko Buggy too far back as to make it unstable.**
- **Never approach the kerb at an angle, always approach straight to prevent one side lowering before the other causing sideways instability.**
- **If possible always place the Miko Buggy in the reverse position to drop down a kerb.**

USER GUIDE 4.0

4.1. CLEANING

- Clean the frame with a damp cloth.
- To clean the wheels use warm soapy water.

4.2. MAINTENANCE

- Check for any signs of wear or damage on a daily basis.
- Periodically check & adjust operation of foot brake.
- Periodically check all fixings for tightness.
- Check retaining straps for any signs of fraying.
- Any maintenance or repair should only be done by an authorized repairer.

IF YOU DETECT A FAULT OR BREAKAGE

1. IF YOU DETECT A FAULT OR BREAKAGE OF THE EQUIPMENT THEN REPORT THIS IMMEDIATELY TO YOUR WHEELCHAIR SERVICE.
2. UNDER NO CIRCUMSTANCES ARE ANY MODIFICATIONS / ALTERATIONS TO BE DONE BY ANYONE OTHER THAN THOSE AUTHORISED TO DO SO BY THE WHEELCHAIR SERVICE RESPONSIBLE FOR ISSUE OF THE EQUIPMENT.
3. ANY SUCH UNAUTHORISED ACTION WILL PLACE THE CLIENT AT RISK. ALWAYS CONTACT YOUR WHEELCHAIR SERVICE WHO WILL THEN AUTHORISE ANY ACTION NECESSARY TO MAINTAIN OR REPAIR THE MIKO BUGGY.

REPAIRS & SERVICE

Within the warranty period.

All **Miko's** manufactured by Specialised Orthotic Services Ltd. carry a guarantee on the main frames for 60 months and all other parts for 12 months when used normally. If during this period the product becomes defective and needs repair then please contact SOS (contact details on the back of the booklet).

You can also contact your local wheelchair service regarding any faults requiring attention.

Outside the warranty period.

For any goods requiring repair or attention after the 12 months period, then assessment can be made as to the cost of the work required to effect the repair. On acceptance of this quotation the work will proceed.

Misuse or neglect.

The repairs necessary resulting from misuse or neglect, whether within the warranty period or not will be charged for.

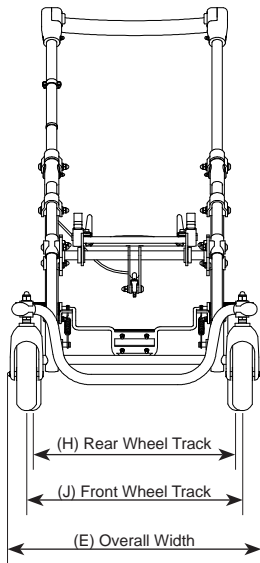
MEDICAL DEVICES DIRECTIVE 93 / 42 EEC

Specialised Orthotic Services Ltd. in compliance with the Medical Devices Directive have an obligation to investigate and take corrective action on defective devices. To assist us with this procedure we would appreciate your assistance in meeting this obligation by informing us as soon as possible and make the device available for inspection as soon as possible having become aware of a defect.

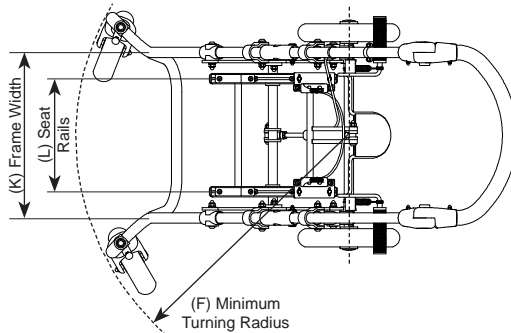
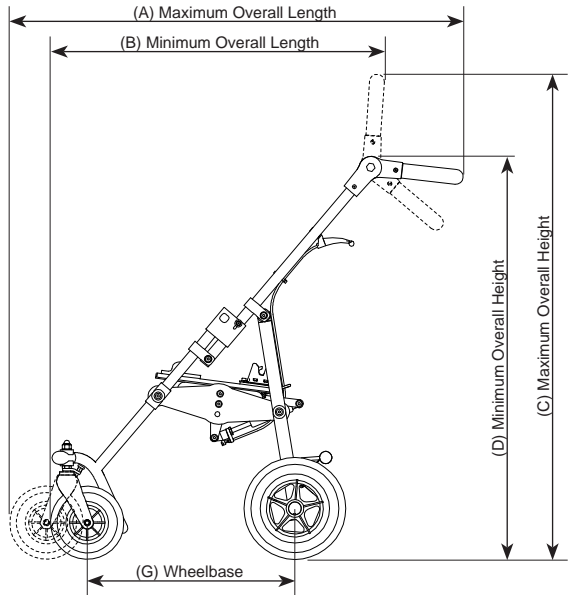
We are required to notify the Competent Authority of certain types of incidents within 10 to 30 days.

As part of our quality system we have established procedures to deal with such incidents and would appreciate your swift notification to us via our telephone, fax or e-mail details at the end of this users manual.

SPECIFICATIONS



Angle of Tilt	0° to +30°
Maximum Load	30 Kg
Folded Height	420 (16.5)



SIZE	DIMENSIONS mm (inch)											MASS
	A	B	C	D	E	F	G	H	J	K	L	
1	1110 (43.7)	825 (32.5)	1155 (45.5)	990 (39)	625 (24.6)	665 (26.2)	510 (20.1)	505 (19.9)	530 (20.9)	405 (16)	280 (11)	13.6 kg
2					725 (28.5)	690 (27.2)		605 (23.8)	630 (24.8)	510 (20)	380 (15)	14.4 kg

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