

L200

Owner's Operating and Maintenance Manual For Standard Wheelchairs

INTRODUCTION

Standard wheelchairs are the result of extensive engineering research, and rigid quality assurance testing. Every new component and finished assembled product must satisfy our high standards.

We are dedicated to maximum mobility and independence, and have developed what we believe is the finest line of wheelchairs available, providing safety as well as comfort and function. This operating manual should help you achieve optimum safety, performance, and confidence in your wheelchair.

Many activities require the wheelchair user to reach, bend, and transfer in and out of the wheelchair. You should be instructed in the proper use of your chair before attempting these movements.

It is imperative that the procedures and cautions outlined in this manual be observed for your own safety. You should develop a routine inspection and maintenance schedule and should periodically review the recommended operating techniques.

Please, read the manual thoroughly BEFORE using your wheelchair, ensure you understand the instructions and refer to it regularly for maximum safety and performance.

We are pleased that you have chosen our wheelchair and trust it will serve you well.

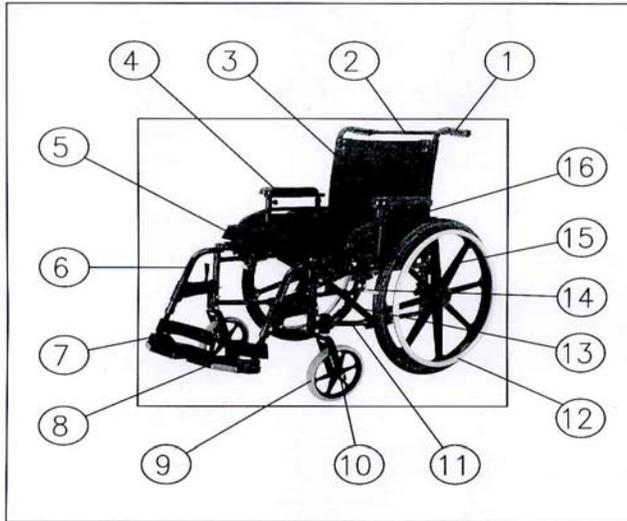
BUYER'S NAME: _____

MODEL No. _____

SERIAL No. _____

DATE AND WHERE PURCHASED

Wheelchair Parts



- | | |
|------------------------|------------------------|
| 1. Handgrip | 9. Caster Wheel |
| 2. Cross Bar | 10. Fork |
| 3. Backrest Upholstery | 11. Side Frame |
| 4. Armrest Pads | 12. Handrim |
| 5. Seat Cushion | 13. Crossbrace |
| 6. Front Rigging | 14. Wheel Lock |
| 7. Heel Loop | 15. Rear Wheel |
| 8. Footplate | 16. Adjustable armrest |

Initial Inspection Checklist

General

- ◆ Wheelchair opens and closes with ease.
- ◆ Wheelchair rolls straight (no excessive drag).

Wheel Locks

- ◆ Locks do not interfere with tires when rolling.
- ◆ Locks easily engage.

Cross braces

- ◆Pivot bolt secure but loose enough to keep all four wheels on ground when crossing uneven surfaces.

Arms

- ◆Make sure arm lock pin is secured.

Wheels

- ◆No excessive side movement or binding when lifted from ground and spun.

Caster

- ◆Inspect axle for proper tension by spinning caster. Caster should come to a gradual stop.
- ◆Adjust bearing system if wheel wobbles noticeably or binds to a stop.

Tires

- ◆If pneumatic tires, check for proper inflation.

The Manufacturer recommends that only heavy duty constructed wheelchairs should be used for individuals weighing more than 113kg(250 Pounds).

Further, the activity level of each wheelchair user is important. For instance, a 77kg (170 Pounds) active wheelchair user could subject the wheelchair to more stress than a 113kg(250 Pounds) passive user. The manufacturer recommends that very active users consider the use of heavy duty construction.

FOLDING & UNFOLDING THE WHEELCHAIR

CAUTION

To avoid injury, keep hands and fingers clear of moving parts.

TO OPEN :

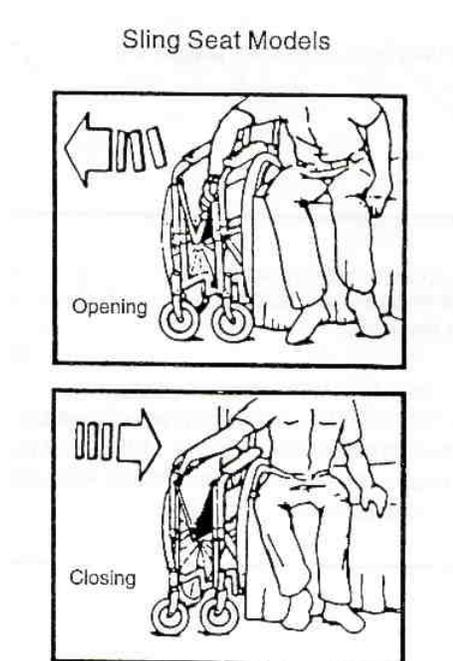
1. Open wheelchair by grasping one push handle nearest you, tilt chair to one side (raising opposite wheel and

caster off the ground) and Push downward on seat rail nearest you at seat upholstery until fully open.

2. Set both wheel locks, open the footrest/legrest for clearance, and transfer to chair.
- 3.

TO CLOSE :

1. Swing footrest/legrest in locked position to front of chair.
2. Pivot footplates upward to vertical position.
3. Tilt chair to one side and close by pulling armrest together. If the wheelchair is equipped with carry straps the wheelchair maybe closed by pulling the straps.



SAFE AND HANDLING

“Safety and handling” of the wheelchair requires close attention of the wheelchair user 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 safe techniques until you are comfortable in maneuvering around the frequently encountered architectural barriers.

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

Individual wheelchair users are subject to various capabilities and limitations and often develop skills to overcome their disabilities in daily living activities that may differ from those described in this manual. Each individual is encouraged to try what works for him/her in overcoming architectural obstacles that the wheelchair user may encounter. The techniques described in this guide are a starting point for the new wheelchair user and attendant with “safety” as the most important consideration for all.

Coping with everyday obstacles

Coping with the irritation of everyday obstacles such as curbs and stairs can be alleviated somewhat by learning how to manage your wheelchair. Always keep in mind your center of gravity to maintain stability and balance.

Percentage of Weight Distribution

Many activities require the wheelchair owner to reach, bend and transfer in and out of the wheelchair. These movements will cause a change to the normal balance. The center of gravity and weight distribution of the wheelchair .

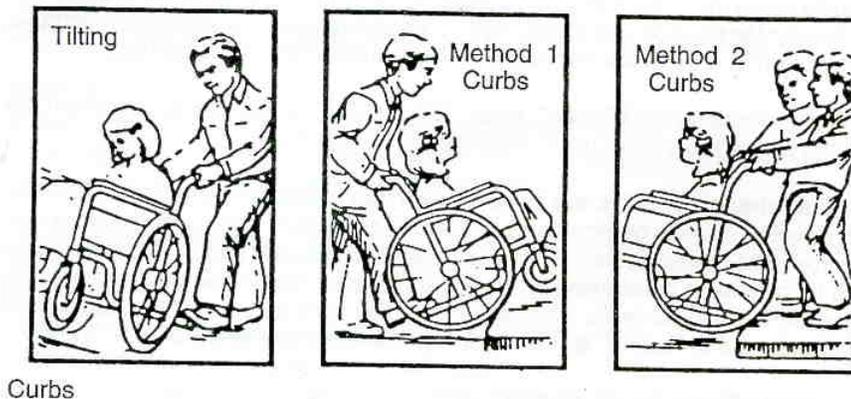
To determine and establish your particular safety limits described on the following pages, activities involving reaching, bending and transferring SHOULD FIRST BE PRACTICED WITH A QUALIFIED HEALTH PROFESSIONAL PRESENT.

Tilting

CAUTION
Do not tilt the wheelchair without assistance.

When tilting the wheelchair, an attendant should grasp the push handles securely, making sure that the handle grips are firmly attached. Inform the chair occupant before tilting the chair and remind him/her to lean back. Be sure the occupant’s feet and hands are clear of all wheels. Place one foot on the tipping lever and apply a continuous motion until the balance point is achieved. At this point, the attendant will feel a difference in weight distribution (This usually occurs at about 30° angle). Turn the wheelchair in the required direction if necessary. Lower the front end, placing one foot on the tipping lever and grasping the push handles to slowly lower the chair in one continuous movement. Do not let the chair drop the last few inches to the ground. This may result in injury to the occupant.

After mastering the techniques of tilting the chair use this procedure to tackle curbs, short stairs, etc



Curbs

curbs

METHOD1-The attendant should tilt the chair until the front casters clear the curb. Roll the chair forward and lower the front casters to the sidewalk. Push the chair forward until the rear wheels roll up and over the curb.

METHOD2-The attendant should stand on the sidewalk and turn the chair so that the rear wheels are against the curb. The chair should be tilted back to the balance point and, in one continuous movement the rear wheels should be pulled up and over the curb. DO NOT return the front casters to the ground until the chair back has been pulled backward for enough to clear the edge of the curb.

ESCALATORS? SORRY!

Do not use an escalator to move an occupied wheelchair between floors.

Serious bodily injury may occur.

Stairways

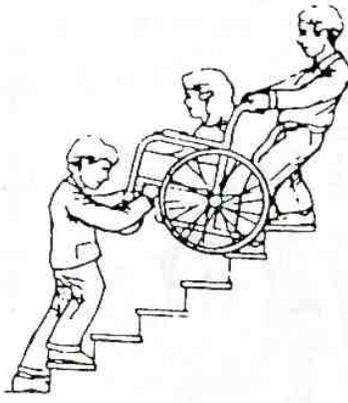
Extreme caution is advised when it is necessary to move an occupied wheelchair up or down stairs. We recommend using two attendants and making thorough preparations. Make sure to use only secure, non-detachable parts for hand hold supports.

Following this procedure for climbing the stairs.

1. After the chair has been tilted to the balance point, one attendant (in the rear) backs the chair against the first step, while securely grasping the push handles for leverage.
2. The second attendant, with a firm hold on a non-detachable part of the front framework, lifts the chair up and over the stair

and steadies it as the first attendant places one foot on the next stair and repeats the procedure.

3. The chair should not be lowered until the last stair has been negotiated and it has been rolled away from the stairway.



Transferring to and from other seats

This activity may be performed independently provided you have adequate mobility and upper body strength:

Remove arm by depressing the flip-lock and lifting the arm off. (If equipped)

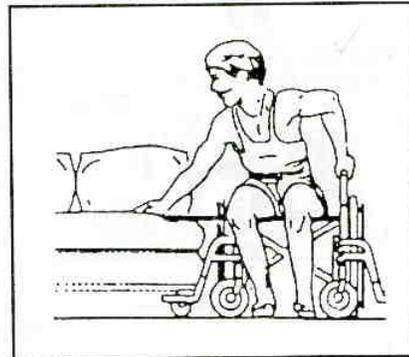
Position the chair as close as possible along side the seat to which you are transferring, with the front casters pointing toward it.

Lock wheels. Swing legrests out or remove. Shift body weight into seat with transfer.

During independent transfer, little or no seat platform will be beneath you. Use a transfer board if at all possible.

WARNING!

Before attempting to transfer in or out of the wheelchair, every precaution should be taken to reduce the gap distance. Also be certain the wheel locks are engaged against the large wheels from moving (turn both casters toward the object you are



CAUTION

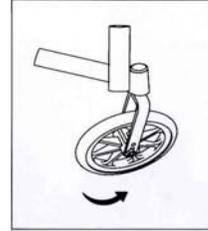
Do not attempt to lift a wheelchair by lifting on the armrests or legrests of a wheelchair equipped with removable (detachable) armrests or legrests. Lifting by means of the armrests or legrests of a wheelchair designed with removable features may result in injury to the user or damage to the wheelchair.

Reaching, Leaning and Bending

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

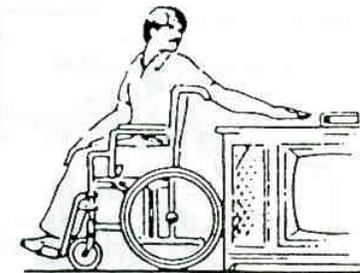
Reaching, Bending-----FORWARD

Position the front caster so that they are extended as far forward as possible and activate wheel locks, **DO NOT LEAN FORWARD OF THE ARMRESTS.**



WARNING

DO NOT attempt to reach objects (1) if you have to move forward in the seat or (2) if you have to pick them up from the floor by reaching down between your knees.



Reaching, Bending----BACKWARDS

Position wheelchair as close as possible to the desired object.

Point casters forward to create the longest possible wheelbase.

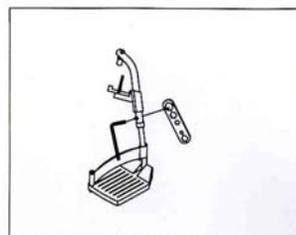
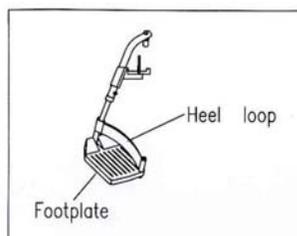
Reach back only as far as your arm will extend without changing your sitting position .

WARNING

DO NOT activate the wheel locks-it is better to roll backwards than tip over. DO NOT lean over the top of the back upholstery. This will change your center of gravity and may cause you to flip over.

MAINTENANCE AND ADJUSTMENTS

FRONT RIGGINGS

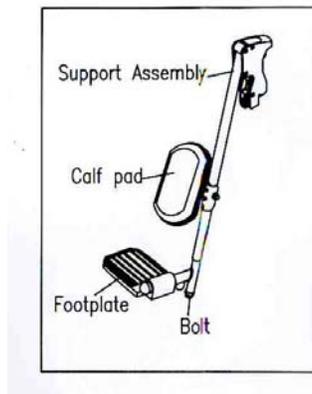


To Adjust Length

Adjustments are made to desired length with individual sitting in the wheelchair with feet on footplates. Use a spanner to loosen the bolt at the side of the footrest support hanger. Adjust the footplate up or down as needed to provide maximum support of thighs on the seat upholstery, then re-tighten the bolt. .

To permit proper clearance the lower point of the footplate should be at least 6cm(2 5") from the ground or floor.

Warning! -Ensure that desired front rigging adjustment does not cause pressure to legs at front of seat upholstery. Such a condition could cause injury to the occupant.



Swing-away Elevating Leg rest

Raising

1. Lift up on footplate or support assembly behind the calf pad until desired position is achieved.
2. Release the footplate; it will automatically lock into position.

Lowering

1. Firmly grasp leg rest close to foot plate and provide vertical support.
2. Activate the leg rest lever by pushing it out.

3. Slowly lower the footplate until desired position is reached.

Caution!

Do not allow leg rest to suddenly drop. To operate properly and safely your wheelchair must be cared for just like any other vehicle. Routine maintenance will extend life and efficiency of

Safety Inspection Checklist

Initial adjustments should be made to suit your personal body structure and preference. Thereafter, follow these maintenance procedures:

	Initially	Weekly	Monthly	Periodically
1. General				
Wheelchair opens and closes with ease	x			x
Wheelchair rolls straight (no excessive drag or pull to one side)	x	x		
2. Brakes				
Brakes do not interfere with tyres when rolling	x		x	
Brakes easy to engage	x			x
Pivot points free of wear or looseness	x		x	
3. Crossbrace				
Inspect for wear or bending	x			x
Pivot bolt secure but loose enough to keep all four wheels on ground when crossing uneven surfaces	x		x	
4. Skirt guards				
Inspect for bends or protruding metal	x			x

Ensure all fasteners are secure	x	x
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5. Arms

Secure but easy to release: adjustment levers engage properly	x	x
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6. Armrests

Inspect for rips in upholstery	x	x
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Base sits flush against arm tube	x	x
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7. Seat and back upholstery

Inspect for rips in upholstery	x		
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8. 24" wheels x

Axle nut and sealed bearings tension correct	x	x	
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No excessive side movement or binding when lifted from ground and spun	x	x	
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9. Handrims

Inspect for signs of rough edges or peeling chrome	x		x
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10. 8" Castors

Inspect axle for proper tension the castor. Castor should come to a gradual stop	x	x	x
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Adjust bearing system if wheel wobbles noticeably or binds to a stop	x		
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11. Tyres

Inspect for flat spots and wear	x		x
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If pneumatic tyres, check for proper inflation	x	x	
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12. Cleaning

Clean and wax all chrome plated parts			x
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Clean upholstery and armrests			x
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Once a year take your wheelchair to qualified dealer for a thorough inspection and servicing.

Regular cleaning will reveal loose or worn parts and enhance the smooth operation

of your wheelchair.

Upholstery cleaning

Use a commercial NYLON material cleaner or mild soap and water.

Caution!

Do not use paint remover, liquid brush cleaner or similar solvents on upholstery.

Metal Parts

Clean all metal parts with auto wax or similar compounds. DO NOT use any abrasive cleaner or material that will scratch the finish.

Caution!

Do not use strong detergent, abrasive cleaner or any other material that will scratch the finish.

Tyres

Periodically examine tyres for wear and replace as needed. Pneumatic tyres should be checked weekly and kept properly inflated (see tyre side wall for recommended inflation level). Solid tyres should be replaced when they become loose on the rim. Cracks appear or worn flat.

- **Important!** -Replace any worn or damaged parts immediately, e.g. tyres; armrest; skirt guards; out of round wheels; cross braces; upholstery; frame parts.

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Wheels

The large wheels should be checked at least monthly for correct axle bolt tightness. If the wheel is loose or wobbles, release the locknut and tighten the axle bolt slightly. To test for correct tightness, lean the chair to one side and spin the adjusted wheel. The wheel should stop spinning by "running down" slowly. If it stops abruptly, it is too tight and the axle bolt should be loosened.

Casters

The casters are secured to the caster fork by axle nut and bolt. This nut and bolt should be periodically checked to allow a snug, but free spinning wheel. The caster fork swivel allows the wheelchair to turn properly. An adjustment locknut is located under the caster cap. Pry this cap off to expose the adjustment locknut. If the locknut is too tight the wheelchair will be difficult to steer. If the locknut is too loose, the caster will flutter or shimmy and may cause the chair to tip.

To check for correct tightness:

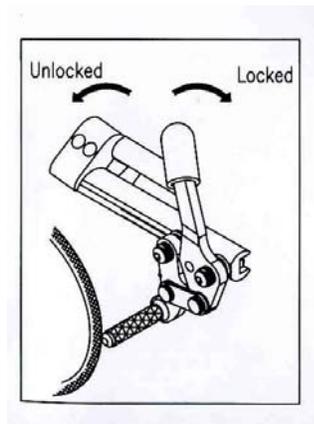
1. Tip the chair backward resting the push handles on the floor.
2. Raise the caster wheel towards the ceiling then gently push downward to either side. The wheel and fork should freely swivel to the bottom of its arc and hang straight toward the floor after a pendulum-type swing.
3. If the wheel stops angled to one side, loosen the locknut on the fork stem slightly.

Crossbraces

Ensure that the nut and bolt holding the crossbraces together are tightened while remaining loose enough in the braces to permit easy folding of the wheelchair.

Note!

Periodically lubricate the center bolt. This will ensure the wheelchair will “flex” when crossing uneven surfaces.



Wheel locks

Activate the brakes by pushing the handles forward (push-lock style). To adjust a brake, loose the carriage nut and bolt which

run through the mounting bracket and frame. Slide the clamp toward the rear wheel until the wheel brake shoe is embedded approximately 1/8" into the tyre material when the handle is engaged in the lock position. Re-tighten the nut and bolt to secure the mounting bracket in the desired position. Inspect for correct locking action before using. If brake becomes worn or damaged, replace the entire assembly immediately.