



**NISSIN WHEELCHAIR**

# **Verve OWNER'S MANUAL**

 **NISSIN MEDICAL INC.**

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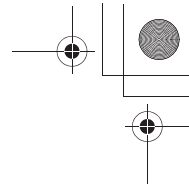
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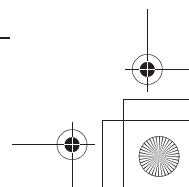
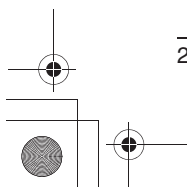
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## Introduction

Thank you for purchasing a Nissin Medical Industries wheelchair. This manual describes the required safety precautions and the methods of using your wheelchair.

**To the user of this wheelchair:** Please read this manual thoroughly and comply with everything written in it.

**To the person assisting the wheelchair user:** Please read this manual thoroughly and comply with everything written in it. In addition, please assure that the user of the wheelchair also reads it thoroughly.

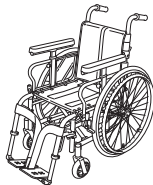
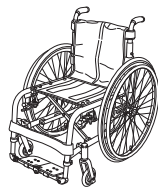
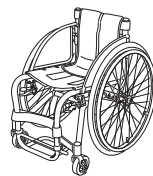
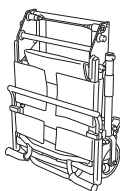
After reading this manual, please store it in a safe place so that it can be read again whenever necessary.

### ■ About the Contents of this Manual

- The reprinting of this manual in whole or in part without prior permission is strictly prohibited.
- The content of this manual may be modified without prior notification at some time in the future because of improvements, etc., to the product.
- Please be advised that the company cannot accept responsibility for the results of using this manual or operating the wheelchair.

## The Content of this Manual

This manual describes the operation of four wheelchair models. The content to be read for each model is as indicated below.

Item	Description	
Safety Precautions	Describes the safety precautions for using the wheelchair. Please read the safety precautions for all wheelchair models.	
Using the Wheelchair		Describes how to use model MS-F, its adjustments and options. → Page 29
		Describes how to use model MS, its adjustments and options. → Page 52
		Describes how to use model Verve, its adjustments and options. → Page 67
		Describes how to use model NAH-207, its adjustments and options. → Page 79
Care of Your Wheelchair	Describes the periodic maintenance of the wheelchair. Please read the maintenance section for all wheelchair models. → Page 85	
Problem Resolution	Describes the problems and how to resolve them. Please read the troubleshooting guide for all wheelchair models. → Page 87	
Limited Warranty	Describes the warranty on your wheelchair. Please read the warranty for all wheelchair models. → Page 89	

# Safety Precautions

Warning! Please Read This Document Before You Use the Wheelchair

## Selecting a Wheelchair and Options

Please consider the following in order to select the wheelchair bestsuited for you. In addition, please make the appropriate adjustments to your wheelchair.

- Degree of disability of the wheelchair user
  - The places where the wheelchair will be used for everyday living or places where it is very likely to be used.
  - Any hazardous conditions in the places it will be used.
- The necessity of the options used for safety and comfort (for example, safety belt, cane holder, tipping bars).

## Importance of the Manual

This manual contains the safety precautions you should know when operating this wheelchair. Before using the wheelchair, the user and attendants should read this manual thoroughly and obey adhere to all instructions provided. In addition, do not disassemble, adjust or modify any wheelchair component, other than as described in this manual. It is recommended that you only have your authorized wheelchair supplier make any adjustments or modifications. This manual includes descriptions, safety precautions and information applicable to all models, as well as some information which is applicable to only certain models. Please review the entire manual to ensure that you read and understood all safety precautions and information applicable to your wheelchair.



## Types of Warnings

Not obeying warnings will lead to the possibility of serious injury or death. This manual contains the types of warnings indicated in the table below.

**Important:** In this manual, the word "Warning" appears on other pages where required. Not obeying these warnings could lead to loss of control or a fall. The user or other people may sustain serious injuries. For the safe use of this wheelchair, please obey all warnings.

General Warnings	A checklist of items for safe operation and the risks you should know about before using this wheelchair.
Fall and Tip-over Warnings	How to prevent falls and tip-overs as you carry out your daily activities in the wheelchair.
Safe Use Warnings	These warnings describe the things you must do to use the wheelchair safely.
Component and Option Warnings	These warnings describe the components of the wheelchair and the options that can be selected. To select options and for detailed adjustments, please consult your authorized supplier or physician.

### ■ General Warnings

Not obeying the following warnings can lead to loss of wheelchair control, damage to the chair, a fall or tip over or fall and injury. And these can also lead to serious injury to the user or to others. Please exercise caution.

## 1. Precautions for the First-time Use of the Wheelchair

### **WARNING**

There are a number of types of wheelchairs and their features and functions are different. Before using this wheelchair, take the time to learn how to operate it and get to know its feel. In the beginning, operate it slowly. Applying too much force can lead to loss of control, a tip-over, or a fall. Further, the user or attendant might sustain serious injury. Especially if you are accustomed to another wheelchair, you must be careful about applying force to this wheelchair.

## 2. What You Should do to Avoid the Possibility of an Accident

### **WARNING**

- (1) Before using this wheelchair, please learn how to operate it safely from your health-care advisor or authorized supplier.
- (2) Please learn the safe operation of this wheelchair in accordance with your level of user ability and desired functionality.
- (3) Never allow the user to be the first to operate this chair or to perform new operations alone. The help of an attendant is required until the user has the confidence to perform operations safely.
- (4) The help of an attendant is required until the user understands the causes and movements that can lead to a fall and tip-over. Help is also required until the user learns how to prevent and avoid these. Increase your understanding of this chair by practicing sitting in the chair, moving your body in it, and getting into and out of it.
- (5) Determine what locations and conditions are hazardous to the use of a wheelchair and learn how to avoid them.
- (6) We recommend that you master the operation of the wheelchair and use the anti-tip bars until you have confidence that operating it is not hazardous.

## 3. Safety Checks

### **WARNING**

Perform the following safety checks whenever you use the wheelchair.

- (1) Confirm that the wheels rotate easily and that the components work smoothly. Check for rattles, strange noises and any changes in ease of use. If any of these should occur, first check the troubleshooting section of this manual and take the appropriate measures.
- (2) If there is a problem contact the authorized supplier right away and have the problem resolved.
- (3) If the wheelchair has anti-tip bars, lock them.

## 4. Weight Limitations

### **WARNING**

The weight limit of the wheelchair is 220 pounds (100 kilograms). The wheelchair user and all of the items the user carries must never exceed 220 pounds (100 kilograms). If this weight limit is exceeded, you may lose control of the chair, fall, or tip over. This can cause serious injury to the user or others. Furthermore, if the chair is used for weight training, again the user, all of the items the user carries, and all equipment must not exceed a total weight of 220 pounds (100 kilograms). Never use the wheelchair for weight training when the weight limit has exceeded.

## 5. Adjustments and Modifications

### **WARNING**

- (1) Adjustments and modifications to the wheelchair can increase the possibility of a tip-over.
- (2) If the wheelchair has been adjusted or modified, we recommend that you use the anti-tip bars until you feel confident there is no risk of a tip-over.
- (3) Do not use parts that Nissin Medical Industries does not supply or has not certified. Using such parts or making unauthorized modifications can cause you injury, damage the chair, and will invalidate the warranty.

## 6. Environmental Conditions and Places of Use

### **WARNING**

- (1) Rough surfaces
  - Use the wheelchair on firm, flat surfaces, such as concrete, asphalt, indoor floors and carpets.
  - Do not use the wheelchair on sandy or gravelly soil or on uneven, rough surfaces. These will damage the wheels and cause fasteners to come loose, and can cause a tip-over and serious injury.
- (2) Use on roadways and parking lots

In most states, the use of a wheelchair on public roads is prohibited. Also, on roadways and in parking lots, be cautious of automobiles, bicycles, and other people.

  - At night and in dark places, apply luminous tape to the wheelchair and to your clothing so that you stand out.
  - Because the seat of the wheelchair is low, the drivers of other vehicles will not be able to see you easily. When moving forward, look right into the other person's eyes to confirm that you have been seen.
  - If you are not sure you have been seen, yield the road until you can confirm that it is safe.

**WARNING****(3) Watery Locations and Moisture**

- Be especially careful when operating your wheelchair in wet or slippery areas. If you think you will have problems operating in such areas, ask for help.
- Coming in contact with water or excessive moisture can create rust on your wheelchair and cause corrosion. Rust and other such accumulations can make operating your wheelchair difficult.
- Do not use your wheelchair in where there is excessive moisture, such as shower rooms or swimming pools. The seat tube and other components are not rustproof and can rust or corrode from the inside.
- Avoid excessive moisture. For example, do not leave your wheelchair in moist bathrooms while taking a shower.
- If your wheelchair gets wet or you use water to clean it, wipe off water droplets and dry it as soon as possible.
- Stay away from flames such as from cigarettes and stoves. They can cause the seat or plates to melt, changing their shape.

**7. Riding in an Automobile****WARNING**

- (1) Never allow anyone to sit in a wheelchair in a moving automobile. If there is an accident or if the automobile brakes suddenly, a person could be thrown from the wheelchair. Even using wheelchair's seatbelts (optional) will not prevent this. Moreover, the wheelchair's belts or other components may also cause injury.
- (2) Transfer the wheelchair user to an appropriate seat in the automobile.
- (3) Secure the wheelchair user in with the automobiles seatbelt.
- (4) Secure the wheelchair in place in the automobile so that it does not move. Do not drive with the wheelchair on the front seat of the automobile. This is hazardous because it may move and hinder the driver.
- (5) Never use a wheelchair that has been in an automobile accident.

## 8. If You Need Help

### **WARNING**

To the wheelchair user: Make sure that all attendants read and obey all of the warnings and instructions in this manual and in the documentation provided by the authorized supplier.

- (1) To the attendant: Collaborate with the doctors and nursing personnel of the wheelchair user to learn the most appropriate safety measures for you and the wheelchair user. Tell the user what it is that you plan to do and find out what the user wants you to do. This will allow the user to feel at ease and minimize the risk of accidents and hazards.
- (2) The wheelchair grips allow the wheelchair to be held from the back in order to prevent a fall or a tip-over. Make sure they do not rotate and are not slippery.
- (3) To prevent tipping over, use the anti-tip bars.
- (4) If you leave the wheelchair user alone even for a brief moment, always lock the rear wheels as well as the anti-tip bars.
- (5) If you wish to lean the wheelchair backward, tell the wheelchair user to lean backward also.
- (6) To lower the wheelchair from the curb or from one step, do so slowly in one movement. When you make contact with the ground again, lower the chair gently so as not to drop it. If dropped, the chair may sustain damage or the user may be injured.
- (7) To avoid injury to your back, use correct posture and body mechanics. When lifting or supporting a wheelchair user, or when inclining the wheelchair, bend your knees slightly and keep your back as perpendicular and as straight as possible.

## Warnings about Falls and Tip-overs

Caution is advised since not observing the following warnings may cause damage to the wheelchair, a fall or tip-over, loss of wheelchair control, and serious injury to the user or others.

### 1. Center of Balance

#### **WARNING**

The reason a wheelchair will tip forward, backward, or to the side is because of an improper center of balance and poor stability. The way the wheelchair is set up, its selected options and its modifications will have an affect on its risk of falls or tip-overs.

- (1) The component with the greatest affect on center of balance  
The position of the rear wheels has the greatest impact on the center of balance. The more the rear wheels are positioned forward, the greater the risk of the wheelchair tipping backward.
- (2) Other components that affect center of balance
  - Setup conditions:
  - Distance between the rear wheels
  - Amount of rear wheel camber
  - Height of the seat
  - Angle of the backrest
  - Posture and position of the body
  - Operating on a ramp or slope
  - Using a backpack or other option add additional weight
- (3) To reduce the risk of a fall or tip-over
  - Have someone help you until you understand the center of balance for your chair and how to avoid a tip-over.
  - Rotate the front casters forward as far as possible. This will increase the stability of the wheelchair.
  - Use the anti-tip bars. Lock the anti-tip bars. (If the anti-tip bars are not installed, push the wheelchair back against a wall and lock both of the rear wheels.)
  - Consult with a doctor or nurse to determine the most appropriate wheel and caster adjustments for you. To make the adjustments, consult your authorized supplier.
  - Do not hang objects on the backrest or the hand grips.
  - An attendant must not ride together in the wheelchair with the user. And do not concentrate weight on one part of the wheelchair (such as the backrest or footplates).

## 2. Wheelies

### **WARNING**

Doing a “wheelie” means balancing on the rear wheels and riding only on them with the front casters in midair. Doing wheelies is a dangerous activity because it can cause a fall or tip-over. However, as long as this can be done safely, it can be helpful in overcoming curbs and obstructions.

Consult with your doctor or nurse to determine if wheelies are appropriate for you.

#### **Caution:**

When learning to do wheelies, please refer to the proper procedures.

## 3. Dressing and Changing Clothing in Your Wheelchair

### **WARNING**

Dressing or changing clothing while seated in your wheelchair can shift your body weight and center of balance, causing a fall or tip-over.

- (1) To reduce the risk of a fall or tip-over, rotate the front casters so that they are as far forward as possible. This will stabilize the chair.
- (2) Lock the anti-tip bars. (If the anti-tip bars are not installed, push the wheelchair back against a wall and lock both of the rear wheels.)

## 4. Obstructions

### **WARNING**

Obstructions and road hazards (potholes and damaged sidewalks) may cause a loss of wheelchair control, resulting in damage, fall or tip-over. To avoid this risk, pay attention to the following.

- (1) Always be on the alert for the existence of hazards. (Pay close attention to what is in front of you while operating the chair.)
- (2) Make sure that your residence and workplace have flat floors and no obstructions.
- (3) Either remove the threshold between rooms or cover them up.
- (4) Build a ramp at the location of entry and exit doors. Build it so that the low part of the ramp has no drop-off.
- (5) To maintain your center of balance when rolling over obstructions, lean your upper body forward slightly. When moving from a high area to a low area, lean your upper body backward slightly.
- (6) If your wheelchair is equipped with anti-tip bars, lock them before rolling over an obstruction.

**WARNING**

- (7) When rolling over an obstruction, place both hands on the hand rims.
- (8) Never push or pull an obstruction that is in your path, such as a piece of furniture or doorjamb.

## 5. Reaching and Leaning

**WARNING**

When you are in your wheelchair, movements such as reaching and leaning will have an impact on your center of balance. Such movements can cause a fall or tip-over. If you are not confident that you will not fall or tip-over, be sure to ask for help.

- (1) Never reach or lean when you shift your body sideways or rise from the seat.
- (2) Never reach or lean if you find it necessary to shift your body forward while in the wheelchair seat. Always keep your buttocks in contact with the backrest.
- (3) Never reach with both hands. You may not be able to catch yourself to prevent a fall if the wheelchair should tip over.
- (4) Never reach or lean backwards when the anti-tip bars are not locked.
- (5) Do not reach or lean over the backrest. This may damage one of both or the backrest tubes and cause you to fall.
- (6) If you need to reach or lean, take care to do the following:
  - Move the wheelchair as close as possible to the object you wish to grasp. However, do not lean down and reach between your knees to pick up an object off the floor. Reaching sideways from the wheelchair reduces the risk of a tip-over, but avoid overdoing it.
  - Do not lock the rear wheels. Locking these wheels creates a tip-over point, increasing the likelihood of a fall or tip-over.
  - Do not concentrate pressure on the footrests.

**Caution:**

Leaning forward places pressure on the footrests. Leaning too far forward can create a risk that the wheelchair will tip forward.

- Rotate the front casters forward as far as possible to increase the stability.

**Advice:**

To perform this act, move past the object you wish to grasp and then move backward and along side the object. Moving backward will rotate the casters forward.

- Firmly grasping one of the rear wheels or one armrest with one hand will prevent the wheelchair from falling over even if it tips over.



## 6. Moving Backward

### **WARNING**

Special care is required when moving backward in a wheelchair. Your wheelchair is most stable moving forward. If one of the rear wheels should hit an obstruction and stop rotating, you may lose control and tip over.

- (1) Move slowly and smoothly.
- (2) Stop frequently and check for obstructions behind you.
- (3) If your wheelchair has anti-tip bars, lock them.

## 7. Transferring

### **WARNING**

Transferring by yourself is dangerous. When transferring, be aware that some seats are always positioned higher than you. To transfer by yourself requires excellent balance and agility.

- (1) Precautions for preventing a fall:
  - Please speak with your healthcare advisor to learn a safe method of transferring.
  - Learn how to position your body and how to support yourself when transferring.
  - Get assistance from someone until you have learned how to transfer safely by yourself.
- (2) Before starting the transfer, lock the rear wheels to prevent the wheelchair from rotating.
  - Caution:**  
But keep in mind that this will not prevent the wheelchair from sliding away from you and tipping over.
- (3) Move the wheelchair as close as possible to the seat you plan to transfer to. If possible, use a transfer board.
- (4) Always check to make sure the pneumatic tires are properly inflated. If the air pressure in the rear tires is insufficient, the rear tire locks may slip.
- (5) Rotate the front casters so that they are positioned as far forward as possible.
- (6) If possible, remove the footrests or rotate them outward so that they are out of the way.
- (7) Be careful that your feet do not get caught in the gaps in the footrests.
- (8) Do not concentrate your body weight on the top of the footrests as this could cause the wheelchair to tip over.

**WARNING**

- (9) Make sure that the armrests are out of the way and that they will not interfere.
- (10) Move the seat back as far as possible. Doing this will reduce the risk of the chair tipping over or moving away from you.

## 8. Ramps, Slopes and Hillsides

**WARNING**

If the wheelchair is in an inclined position it is less stable. Operating the wheelchair on slopes, such as ramps and hillsides will change its center of balance. Using the anti-tip bars may not prevent a fall or tip-over.

- (1) Do not use the wheelchair on a slope with a grade steeper than 10%.
- (2) As much as possible, move forward in a straight line. Do not take a shortcut on a ramp or slope.
- (3) Do not stop on a steep slope. Stopping can lead to loss of control.
- (4) Do not turn or change direction on a slope.
- (5) Always move in the center of the slope. Check to make sure the slope is wide enough to avoid the wheels getting caught on an edge.
- (6) Never use the rear wheel locks for the purpose of slowing down or stopping the wheelchair. This will heighten the possibility that you will loss control of the wheelchair.
- (7) Be very careful on wet or slippery pavement. Avoid such pavement, if possible.
- (8) Changes in the grade of a slope (a drop-off, bump, or depression, etc.) can lead to a fall or tip-over.
- (9) Be careful of a drop-off at the bottom of a slope. A drop-off of a mere 3/4 of an inch can stop the front casters from rotating, causing the chair to tip forward.
- (10) To reduce the risk of a fall or tip-over, take care to do the following:
  - Lean or press your body forward toward the uphill grade of the slope. This will allow you to correct for the change in the center of balance.
  - On a downhill slope, add pressure to the hand rims to control the speed. Too much speed will cause loss of wheelchair control.
  - If you are not confident you can do these, be sure to ask for help.

### **WARNING**

- (11) For the purposes of safety, the ramps at your home or place of work must satisfy all of the requirements of the laws of your region. We recommend the following ramp specifications.
- Width: at least four feet
  - Surface: flat and even (a thin carpet of a non-slip material with no drop-off, protrusions or depressions)
  - Sloping surface: firm (may require bracing to prevent the surface bowing when wheelchair is on it)
  - Guardrail installation (to limit the risk of falling, a guardrail or a border of at least three inches must be built on each side of the ramp)
  - Grade of slope: a maximum of 10%
  - Avoid drop-offs (to eliminate joints, suitable components may be necessary for the upper and lower sections)

## 9. Curbs and Steps

### **WARNING**

- (1) Make sure that all attendants read this manual's warnings, entitled "Warnings for Safe Operation," and obey them.
- (2) People who are not skilled in the operation of this wheelchair and have not satisfied the points listed below, must not ascend or descend a curb or step alone.
  - Safe operation using the rear wheels alone
  - Having enough strength and sense of balance to ride with the rear wheels only. Release the anti-tip bars and turn them upward so that they are out of the way.
- (3) Proceed as straightly as possible. Ascending or descending at an angle is very likely to cause a fall or tip-over.
- (4) Do not attempt to ascend a high curb or step 4 or more inches high without the help of an attendant. This could exceed the center of balance of the wheelchair and lead to a fall.
- (5) The shock of a drop from a curb can cause damage to the wheelchair and loosen the fasteners.

## 10. Escalators

### **WARNING**

Never use a wheelchair on an escalator, even with an attendant. This can lead to a fall or tip-over.

## Warnings Concerning the Safe Use of Your Wheelchair

Not obeying the following warnings can lead to loss of wheelchair control, damage to the chair, a fall or tip-over. And these can lead to serious injury to the user or to others. So obey these warnings to the letter.

### **WARNING**

Before helping the user with this wheelchair, attendants should read all of the warnings in this manual concerning the attendant and be sure to obey them. Attendants must learn ways of providing support that are guaranteed to work.

## 1. Ascending and Descending Curbs and Steps

### <Procedure for Descending a Curb or One Step >

### **WARNING**

The attendant should use the following procedures to help the wheelchair user descend a curb or step with the user facing backward.

- (1) Stand behind the wheelchair.
- (2) Push the wheelchair forward until it is several feet from contacting the edge of the curb and then turn the wheelchair around and pull it backward.
- (3) While looking over your shoulder, step backward cautiously until you are off the curb or the step and standing on the lower surface.
- (4) Pull the wheelchair toward you until the rear wheels make contact with the edge of the curb or step. Then move slowly backward allowing the rear wheels to rotate slowly until they contact the lower surface.
- (5) When the rear wheels are safely on the lower surface, tilt the wheelchair to a balanced position. This will move the front casters off the curb or step.
- (6) With the wheelchair balanced, take small steps backward. Turn the wheelchair around and lower the front casters slowly to the lower surface.

### <Procedure for Ascending a Curb or One Step >

#### **WARNING**

The attendant should use the following procedures to help the wheelchair user ascend a curb or step with the user facing forward.

- (1) Stand behind the wheelchair.
- (2) Stand facing the curb or step and use the rear wheels as a pivot point to tilt the wheelchair backward. At this point make sure that the front casters are higher than the curb or step.
- (3) Push the wheelchair forward until the front casters are past the edge of the curb or step and lower them onto the higher curb or step surface.
- (4) Push the wheelchair forward until the rear wheels make contact with the edge of the curb or step. Lift the rear wheels up [and push forward] so that they rotate onto the higher surface.

## 2. Ascending and Descending Stairways with the Help of Assistants

### <Procedure for Descending Stairs >

#### **WARNING**

The attendants should use the following procedure to help the wheelchair user descend a stairway with the user facing forward. To descend a stairway with the user seated in the wheelchair requires at least two attendants.

- (1) One attendant should stand behind the wheelchair.
- (2) The wheelchair with user seated in it will descend the stairway facing forward.
- (3) The attendant in the rear takes control. This attendant will tilt the wheelchair backward to its balance point and push the chair to the edge of the first step.
- (4) The other attendant should stand on the third stair from the top and grab hold of the wheelchair frame. This person will then lower the wheelchair one stair at a time by allowing the rear wheels to rotate downward from the edge of one stair to the next stair.
- (5) The attendants will continue to move to the next stair until they reach a landing or the bottom of the stairway, continually repeating the above procedure for each stair.

**<Procedure for Ascending Stairs >****⚠ WARNING**

The attendants should use the following procedure to help the wheelchair user ascend a stairway with the user facing backward. To ascend a stairway with the user seated in the wheelchair requires at least two attendants.

- (1) One attendant should stand behind the wheelchair.
- (2) The wheelchair with user seated in it will ascend the stairway with the user facing backward.
- (3) The attendant in the rear takes control. This attendant will tilt the wheelchair backward to its balance point.
- (4) The other attendant should stand in front of the wheelchair and get a firm grip on the wheelchair frame. This person will then lift the wheelchair one stair at a time raising it to the next stair.
- (5) The attendants will continue to move up to the next stair until they reach a landing or the top of the stairway, continually repeating the above procedure for each stair.

**3. Doing a “Wheelie” with the Help of an Attendant****⚠ WARNING**

The attendant must follow the procedures below to help the wheelchair user learn to do “wheelies.” The attendant must be able to move with the wheelchair in order prevent an accident, such as a tip-over. Please review the warnings in this manual concerning wheelies and strictly adhere to them.

- (1) Stand behind the wheelchair.
- (2) Place your hands at the bottom of the hand grips and be prepared to catch the wheelchair user if it should tip backward.
- (3) When you are ready, have the wheelchair user place both hands on the front part of the hand rims.
- (4) Once the wheelchair user is able to move the wheelchair backward rapidly, have him or her immediately move it forward. This will cause the wheelchair to tilt on the pivot point of the rear wheels.
- (5) Have the wheelchair user to move the hand rims a little at a time while maintaining his or her balance.

## 4. Transporting the Wheelchair

### **WARNING**

- When transporting the wheelchair place it in a forward-facing position.
- If possible, the wheelchair user should transfer to an OEM seat and the wheelchair can be fixed in place so that it does not move.
- Use only a Wheelchair Tie-down and Occupant Restraint System (WTORS) that has been installed in accordance with the manufacturer's instructions and SEA J2249.
- Install an occupant restraint device to the securing points in accordance with the manufacturer's instructions and SEA J2249.
- Install WTORS in accordance with the manufacturer's instructions and SEA J2249.
- The wheelchair user must not weigh more than 220 pounds (110 kilograms).

**Note:**

If a copy of SAE J2249 "Wheelchair Tie-down and Occupant Restraint Systems for Use in Motor Vehicles" is necessary, please contact the following:  
SAE International, 400 Commonwealth Drive, Warrendale, PA 15096,  
(412) 776-4960.

## 5. Wheelchair Maintenance

### **WARNING**

- Read the manual section entitled "Care of the Wheelchair" and perform regular inspections and maintenance on the wheelchair. If a problem is discovered, even minor problems, should be repaired right away. Have it repaired before the next use of the chair.
- Have a complete inspection, safety check and maintenance performed at least once a year by an authorized supplier.

## Warnings Concerning Component Parts and Options

Not obeying the following warnings can lead to loss of wheelchair control, damage to the chair, a fall or tip-over. And these can lead to serious injury to the user or to others. So obey these warnings to the letter.

### 1. Armrests

#### **WARNING**

The armrests cannot support the total weight of the wheelchair.

- When lifting the wheelchair, do so by using the solid areas of the frame.
- Never use the armrests to lift the wheelchair. This could cause the armrests to become loose or sustain damage.

### 2. Footrests

#### **WARNING**

- (1) At their lowest point, the footrests must be at least 2.5 inches (63.5 mm) off the ground. If they are lower than this, they may hang up on obstructions that are encountered under normal usage. This could cause the wheelchair to stop suddenly and tip forward.
- (2) To prevent a fall or tip-over while moving, do the following:
  - Be careful that your feet do not get caught in things or get caught in the gap in the footrests.
  - Do not place your weight on the footrests as this could cause the wheelchair to tip forward.
- (3) Never use the footrest to lift the wheelchair up. The footrests cannot support the entire weight of the wheelchair. To lift the chair, use the solid parts of the frame.

### 3. Seat Sling and Cushion

#### **WARNING**

- The seat sling of the wheelchair was not designed to eliminate pressure.
- The sling was designed to be sat directly on. When using the wheelchair, attach the cushion or other seat to the top of the sling.
- If bedsores are a problem or it appears that they might be, a special seating position control device could be required. Consult with your doctor or nurse to determine if such a device is necessary.



## 4. Cushion Material

### **WARNING**

- Do not jump onto the seat, as this will cause damage to the seating material, making it necessary to inspect and change the seat frequently.
- If the material of the seat and seatback tears due to wear, have it replaced right away. The seat and seatback may cease to function properly.
- The passage of time and frequency of use can weaken the sling. Check to determine if there are places on it that have thinned or frayed, or where the material no longer expands. Pay close attention to the edges and joined areas in particular.
- Be careful of washing and excessive moisture because these will reduce the fire-retardant quality of the material.

## 5. Fasteners

### **WARNING**

Most of the screws, bolts and nuts used in this wheelchair are special high-strength fasteners. Use of improper fasteners could cause the chair to fail.

- Use only fasteners that are supplied by authorized suppliers.
- If a nut or bolt becomes loose, tighten it right away.
- A loose fastener or one that is too tight may damage other parts of the wheelchair, causing it to fail.

## 6. Hand Grips

### **WARNING**

- The purposes of the hand grips are to allow the attendant to stabilize and operate the wheelchair in order to prevent a fall or tip-over. If an attendant is present make sure that person uses the hand grips.
- Check the hand grips to make sure they do not rotate, slip and are not damaged.

## 7. Pneumatic Tires

### **WARNING**

Appropriate tire air pressure extends the life of the tires and makes the wheelchair easy to use and comfortable. If even one of the tires has too little or too much air pressure, do not use the wheelchair. Check the tires weekly to make sure the pressure is maintained at the pressure indicated on their tire sidewall.

- If the tire pressure is too high, the tires might have a blowout.
- If either one of the tires has too little air pressure, the wheelchair could lean to one side causing a loss of control.
- If the air pressure in the tires of one of the rear wheels is low, that tire may not lock and may rotate unexpectedly.

## 8. Rear Wheels

### **WARNING**

Making changes in the set-up of the rear wheels will have an affect on the wheelchair's center of balance. Caution is called for since the more the rear wheels are positioned forward, the greater the risk of the wheelchair tipping backward.

After making a change to a wheel, be sure to check the effectiveness of the rear-wheel brakes and then adjust them, [if necessary].

- If you do not do this in the sequence indicated above, the brakes might fail.
- When setting the brakes, make sure that the locking arm embeds at least 1/8 inch into the tire.
- Consult with your doctor, nurse, therapist, or authorized supplier to find the most appropriate wheel axle location for you. Unless you are absolutely sure that the wheelchair will not tip over, make no changes to the setup.

## 9. Rear Brakes

### **WARNING**

The rear brakes are not designed to slow down or stop a moving wheelchair. They are designed to prevent the rear wheels from rotating when the chair is at a complete stop.

- Avoid using the rear brake locks for the purpose of slowing down or stopping the wheelchair when it is moving. You may lose control of the wheelchair.
- To prevent the rear wheels from rotating, set both brakes when getting in or out of the wheelchair.
- If the air pressure in one of the tires is low, the lock for that wheel may slip and the wheel may rotate unexpectedly.
- When setting the brakes, make sure that the locking arm embeds at least 1/8 inch into the tire. If the brakes are not adjusted for the above, they may not operate.

## 10. Anti-tip Bars

### **WARNING**

The anti-tip bars help in preventing the wheelchair from tipping backward when the wheelchair is used under normal conditions.

- (1) Nissin Medical Industries recommends using the anti-tip bars in the following situations:
  - If you are not experienced in the use of the wheelchair and you have even the slightest concern that there is a risk of tipping over.
  - When the wheelchair is modified or adjusted and there is a risk that the wheelchair will easily tip backward as a result of the modification or adjustment.
  - When the wheelchair is modified or adjusted, use the anti-tip bars until you are used to the wheelchair modifications or adjustments and are confident there is no risk of the chair tipping over.
- (2) In the locked position, the anti-tip bars must be from 1.5 inches to 2 inches from the ground.
  - If this position is too high, there is a chance that a tip-over cannot be prevented.
  - If this position is too low, there is a risk that your chair will become caught on something encountered in normal use. If this is the case, a fall or tip-over is possible.

**⚠ WARNING**

- (3) Except for the following situations, lock the anti-tip bars:
- You are together with an attendant
  - If you have to ascend or descent a curb or single step, or if you have to roll over an obstruction and you can do this safely without the anti-tip bars. (In cases like these, raise the anti-tip bars.)

## 11. Safety Belts (Optional)

**⚠ WARNING**

Use positioning belts only to support the posture of the wheelchair user. If these belts are used improperly, the user could be seriously injured and this may lead to death.

- The belts should be used only by a user who is able to operate them himself or herself. Arrange the belts so that the user is able to be easily remove them in the event of an emergency.
- Make the belts snug, but not so tight that they make it difficult for the user to breathe. The belts should be loose enough to allow the user to easily insert an open hand between the belt and himself or herself.
- Situate the user so that he or she does not slide off the seat of the wheelchair. There is a risk that pressure from the belt might compress the user's chest and make it difficult to breathe.
- A device like a pelvic wedge may be helpful in keeping the user from sliding off the seat. Consult with a doctor or nurse to determine if such a device is necessary or not.
- Never use belts in the following situations:
  - When the user is in a coma or in shock and the belts are to be used as automobile restraints. If there is an accident or if the automobile brakes suddenly, a person could be thrown from the wheelchair. Even using wheelchair's seatbelts will not prevent this. In this case, belts and straps may also cause injury.
  - The belts are to be used as a patient restraining device. In this case, an order from a doctor is required.

## 12. Quick-release Wheels (Optional)

### **WARNING**

Never use the wheelchair if you are unsure that both quick-release wheels are locked. An unlocked wheel can come off and cause a fall. Inspect these wheels regularly. If there is wear or bending, replace them right away.

## 13. Power Drive

### **WARNING**

Do not install a power drive to the wheelchair. If installed, it will cause changes in the frame and invalidate the warranty. It will also have an affect on the wheelchair's center of balance and become a risk of a fall or tip-over.

## 14. Modified Seating Systems

### **WARNING**

Using a seating system that is not approved by Nissin Medical Industries will have an impact on the center of balance of the wheelchair, and this can lead to a tip-over. It can also affect the folding structure of the wheelchair.

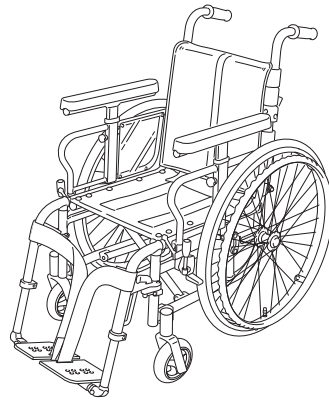
- It is prohibited to use a seating system not approved by Nissin Medical Industries for transporting purposes.
- Never modify the seating system without consulting with the authorized supplier.

Not obeying the warnings can lead to loss of wheelchair control, a fall, a tip-over, and damage to the chair. The user and others may also sustain serious injury. Please become sufficiently knowledgeable of the warnings and obey them.

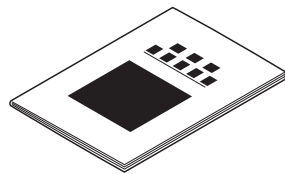
# List of Accompanying Items

This wheelchair comes with the items listed below. Check the contents of the packaging after your purchase. If items are discovered to be missing, contact your installer.

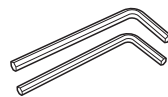
## Wheelchair



## User's manual (this manual)

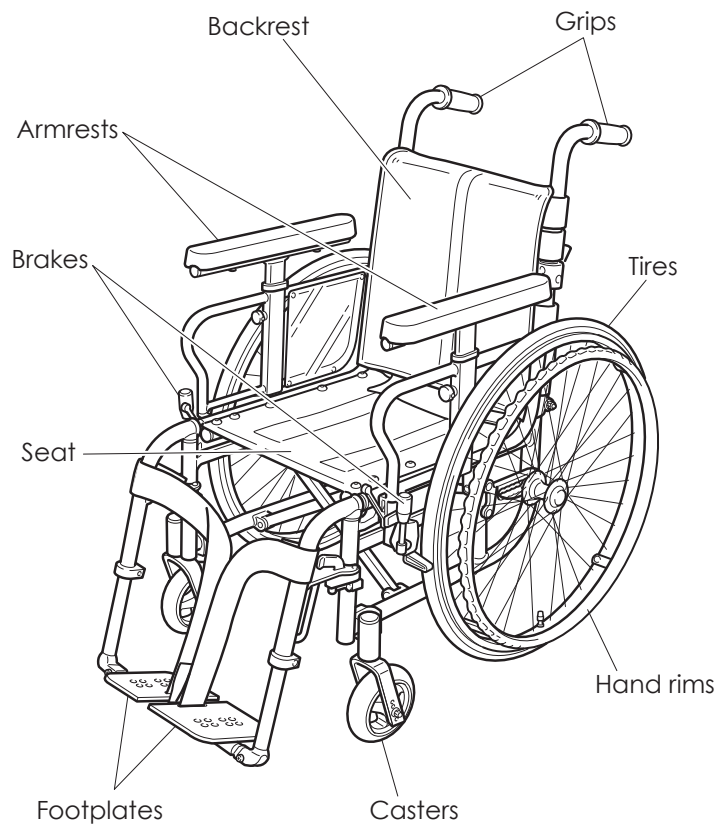


## Hexagonal wrenches (2)



- These are the 0.197 inches (5 mm) and 0.157 inches (4 mm) hexagonal wrenches. They are used to adjust the height and angle of the footplates.

# Component names



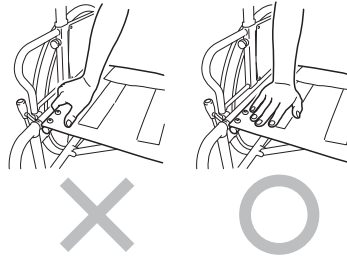


## Unfolding the Wheelchair

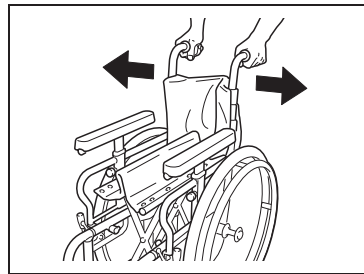
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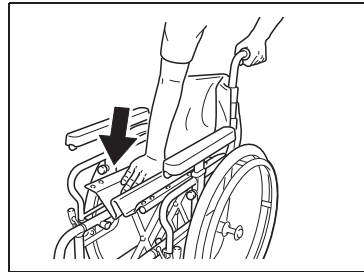
**Caution** When pushing downward, do not place your hand below the seat bars, such as to grasp the seat frame bar. Your fingers may get caught, leading to injury.



- 1** Grasp the grips and lightly extend then to the left and right.

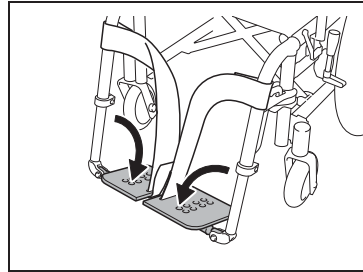


- 2** Hold onto one of the grips and push down on the section next to the seat bar on the opposite side.





**3** Once seated in the wheelchair, put the footplates in place.





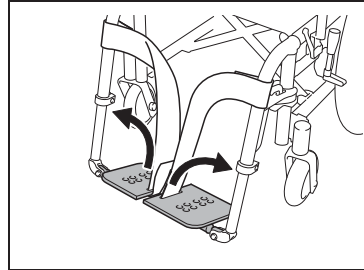
# Folding the Wheelchair

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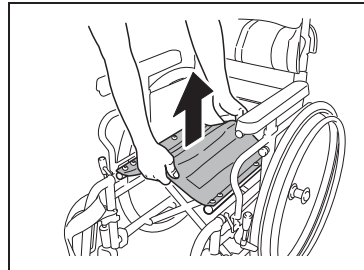
**Caution**  
**!**

Do not attempt fold the wheelchair while the user is still seated in it. This could lead to injury or tip the chair over.

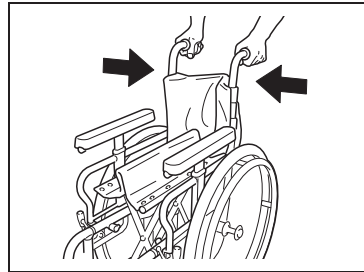
- 1** Remove the person seated in the wheelchair, fold the foot-plates outward and stow the chair.



- 2** Grasp the center of the front and back sections of the seat and lift it up.



- 3** Grasp the grips and push them inward from the left and right to fold the chair.



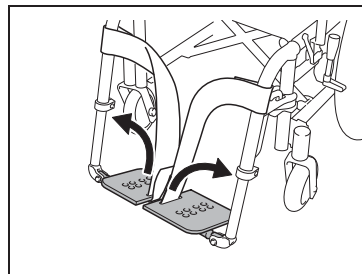


## Being Seated in the Wheelchair

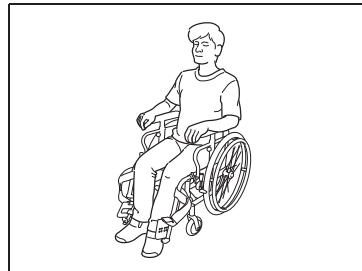
### Caution

- When being seated or unseated in the wheelchair, be sure to set the brakes on the wheels on either side.
- When opening and closing the footrests, be careful not to get your hand or fingers caught in them.
- If necessary, adjust the belts on the footrests to their best position. Having them too tight or too loose can lead to injury.

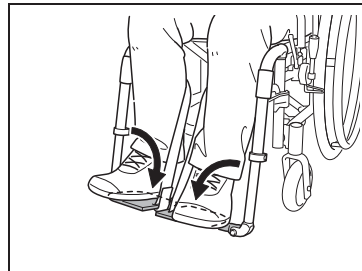
- 1 If necessary, fold the footrests upward.



- 2 Sit in the wheelchair.

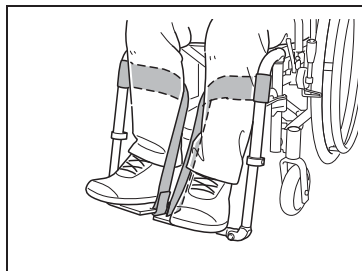


- 3 Put the foot rests in place and place your feet on them.



## Being Seated in the Wheelchair

- 4 Adjust the belts to hold the feet in place.



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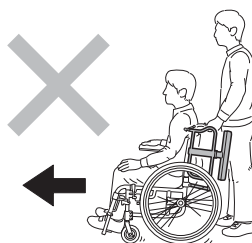


## Raising the Armrests

When getting in and out of the wheelchair, the armrests can be raised for picking up items that may have fallen.

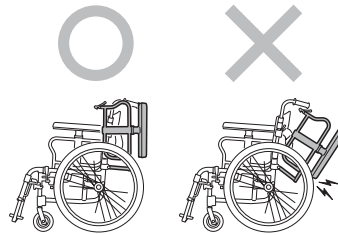


- Do not move the wheelchair with the armrests in the raised position. There is the danger of an armrest dropping forward and your hand, fingers, and clothing getting caught in it.

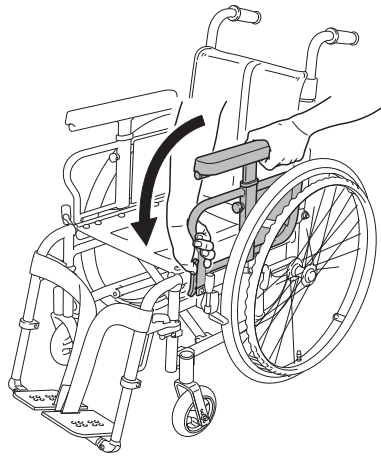


**Caution** !

- The armrests should be raised to about 90 degrees. If they are raised higher than 90 degrees, the armrests could interfere with the wheels and could lead to the wheelchair twisting and sustaining damage.

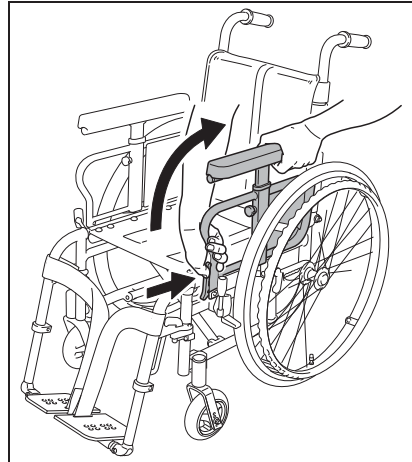


- When moving an armrest back to its original position, hold onto the armrest and move it gently into place. In addition, take care that your hand, fingers, and clothing do not get caught in it.

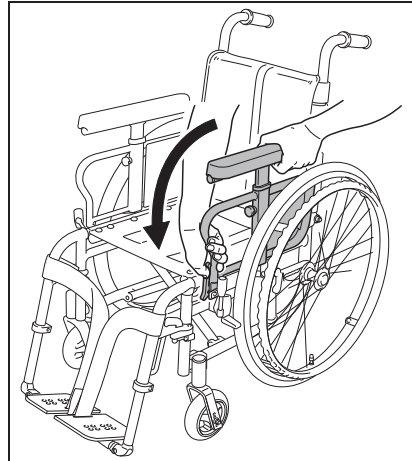


Being Seated in the Wheelchair

- 1 Move the lever below the armrest in the direction of the arrow to raise the armrest upward.



When returning an armrest to its original position, hold onto it while gently lowering it and confirm that the lever clicks properly into place.



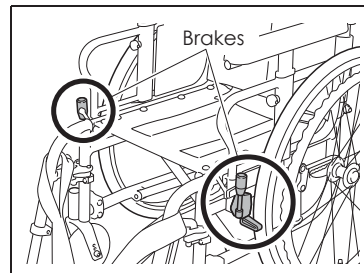
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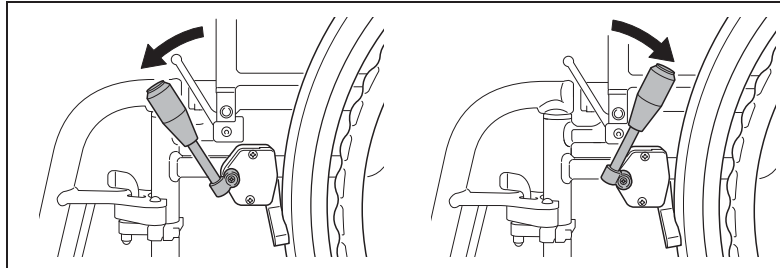
## Setting the Brakes

- Caution** Always set the brakes in the following situations:
- When being seated or unseated in the wheelchair.
  - When performing any adjustment to the wheelchair.
  - When not seated in the wheelchair and moving away from it.

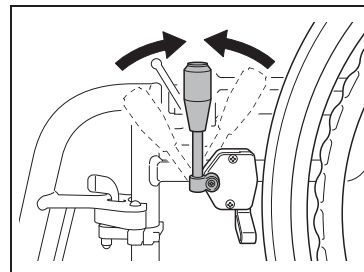
- 1** The brakes are attached to the rear wheels on either side of the wheelchair.



- 2** Move the brake lever either forward or rearward.



- 3** When releasing a brake, return the brake lever to its original position.



# Making Adjustments

The following adjustments can be made to various parts of the wheelchair.

## Caution

- When making adjustments to the wheelchair, first make sure that no one is seated in it and be sure to set the brake.
- After making an adjustment, make sure that the applicable screws or bolts have been properly tightened. If they remain loose, parts can come off, exposing anyone seated in the wheelchair to injury.

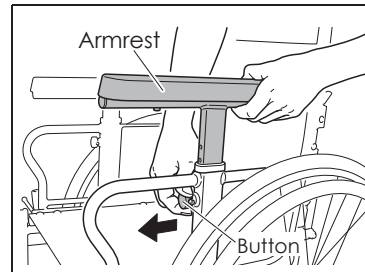
## Armrest Height Adjustment

The armrest can be adjusted to four different heights.

## Caution

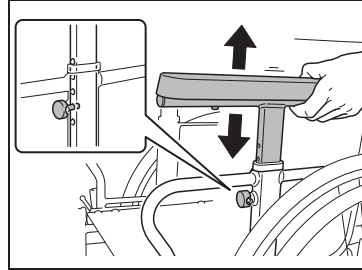
- When adjusting the armrest, hold it while moving it gently upward or downward. If this operation is performed without holding the armrest, it could drop quickly on a hand or finger, leading to injury.
- Do not adjust the height of the armrest, while someone is seated in the wheelchair. Be sure to set the brake when adjusting the height of the armrests.

- 1 While holding the armrest, move the button below the armrest in the direction of the arrow.

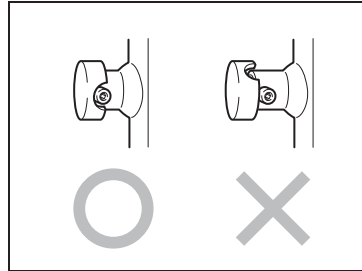




- 2** Move the armrest up or down and push the button into the hole at the position where you wish to place the armrest. After this, move the armrest up and down slightly to confirm that the end of the button has definitely entered the hole.



Make sure that the button has set properly into place.



- 3** Adjust the other armrest in the same manner.

## Adjusting the Tension of the Backrest

The backrest has four belts in it. Each belt has a hook and loop fastener on it and the tension of each can be adjusted.

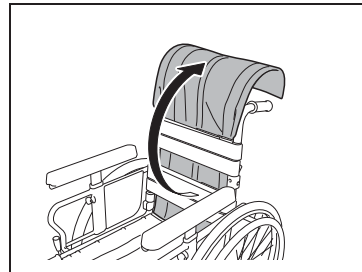
### Caution

- Do not make adjustments to the wheelchair, while someone is seated in it. Also, be sure to set the brake while making adjustments.
- Adjust the belts of the backrest so that they do not have too much tension. If they are adjusted with too much tension, they will cause the frame or seat to deform, damaging the wheelchair.

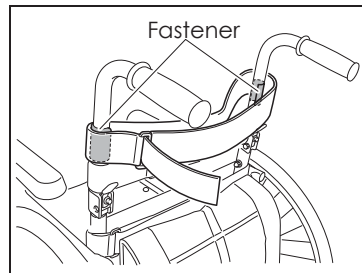
Making Adjustments

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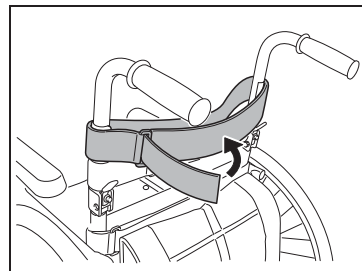
- 1** The backrest cover is held in place with a hook and loop fastener. Peel the cover off.



- 2** Change the position of both ends of the tape to adjust to the desired tension.

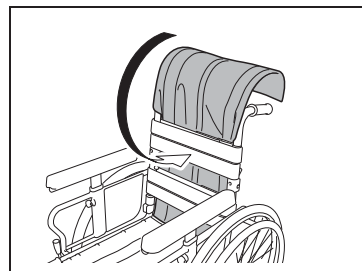


- 3** Use the buckle in the rear to adjust to a suitable length and reattach the tape.



- 4** Adjust the remaining three belts in the same manner.

- 5** Re-attach the backrest cover.

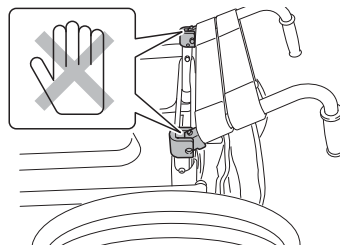


## Folding the Backrest

The backrest can be folded backwards for storage or other purposes.

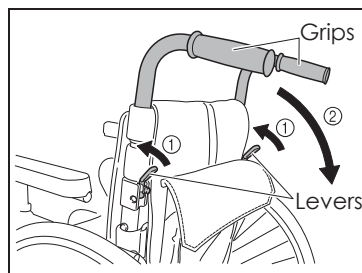
### Caution

- Do not fold the wheelchair with the backrest already in a folded state.
- If someone is seated in the wheelchair, do not perform the following operations:
  - Do not lift the wheelchair while holding on to the grips
  - Do not push down on the grips such that the front wheels lose contact with the ground (riding on rear wheel only)
- Fold the backrest by folding both the left and right side at the same time.
- When folding or unfolding the backrest, be careful not to allow fingers, hair, or clothing get caught in the gap in the levers. This may cause injury.



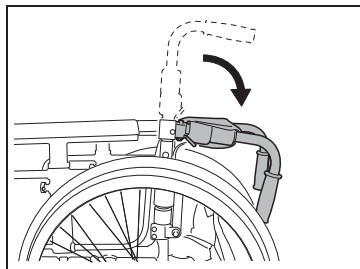
Be careful not to allow fingers, etc., get caught in the section.

- 1 Push the lever below a grip in the direction of the arrow and lower the grip a bit.



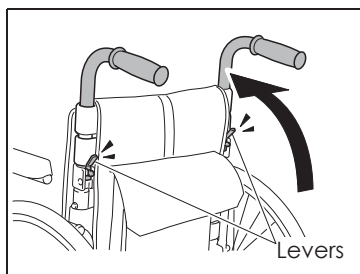
- 2 Do the same to the other grip.

- 3** Hold on to both grips and fold the backrest.



### ■ Returning the Backrest to its Original Position

- 1** Hold onto both grips and move the backrest. Be sure that the levers on either side click into place.



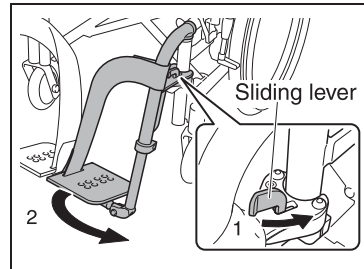
## Removing the Footrests

When necessary, the footrests can be removed.

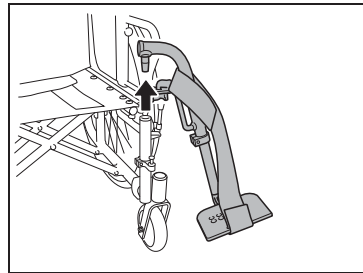
### Caution

- Do not remove the footrests, while someone is seated in the wheelchair. Be sure to set the brake when removing the footrests.
- When attaching the footrests, be sure that the sliding levers lock into place.
- When either removing or attaching the footrests, be careful that your hands or finger do not get caught in them.

- 1** Push the sliding lever of the footrest in the direction of the arrow and rotate it away from the wheelchair.

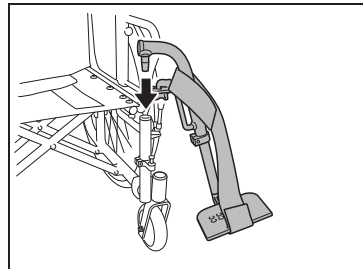


- 2** Lift the footrest straight upward and remove it.

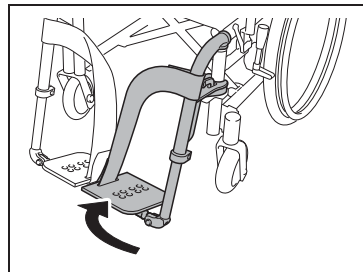


#### ■ Attaching the Footrests

- 1** Insert the upper pin of the footrest from the outside of the wheelchair.



- 2** Push the footrest in the direction of the arrow and rotate it toward the wheelchair.



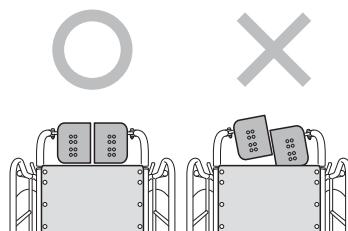
## Adjusting the Height of the Footplate

The height of the footplate can be adjusted to the condition of the feet of the wheelchair user. The left and the right footplates can be adjusted to different heights. To do this, you will need the accompanying hexagonal wrench (0.197 inches (5 mm)).

### Caution

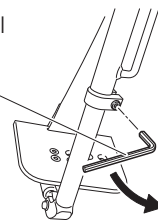


- Do not make this adjustment, while someone is seated in the wheelchair. Be sure to set the brake when making this adjustment.
- To make the footplate height adjustment, hold the footplate in place with one hand while tightening or loosening the screw with the other hand. This is because in making this adjustment, the footplate could fall off and become damaged or cause injury.
- The position of the footplate should be parallel to the direction of the seat.

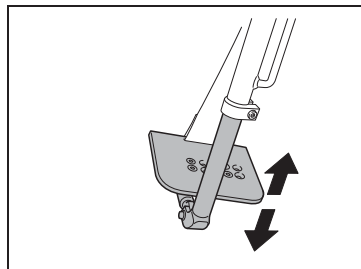


- 1 Insert the hexagonal wrench into the screw on the back of the footplate and loosen it.

Hexagonal wrench (large)

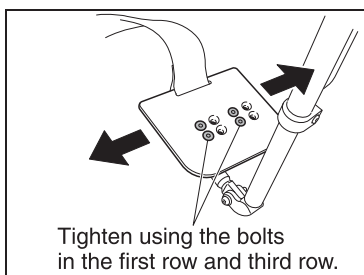


- 2** Adjust the height of the footplate and then tighten it with the hexagonal wrench.

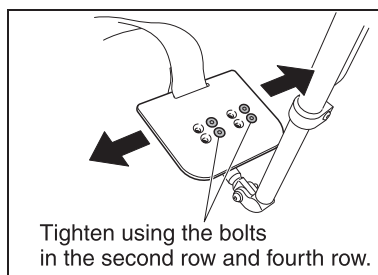


## Adjusting the Forward and Rearward Positions of the Footplates

The position of the bolt that tightens the footplate in place can be changed. Doing this will allow the position of the footplate to be moved forward or rearward. To do this, you will need the accompanying hexagonal wrench (0.157 inches (4 mm)).



The footplate set in the forward position.



The footplate set in the rearward position.

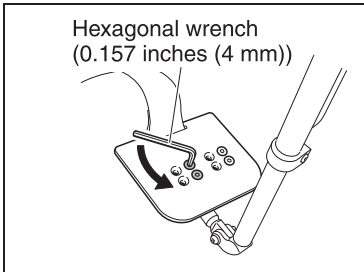
### **Caution**

- Do not make this adjustment, while someone is seated in the wheelchair. Be sure to set the brake when making this adjustment.
- Two short bolts (0.394 inches (10 mm)) are used for the forward adjustment of the footplate. Two long bolts (0.984 inches (25 mm)) are used for the rearward adjustment of the footplate. When tightening these bolts, be careful not to use the wrong bolts. If the footplates are not tightened properly, they may move, which could damage them.

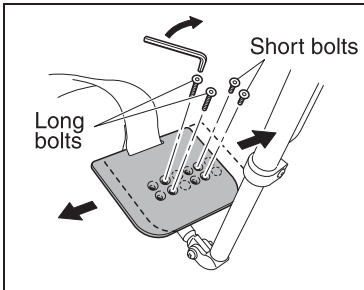
Making Adjustments

MS-F

- 1 Insert the hexagonal wrench into the footplate bolts and loosen and remove them.



- 2 When all of the bolts have been removed, place the footplate in the desired position and tighten the bolts to hold them in place.



## Changing the Footplate Angle

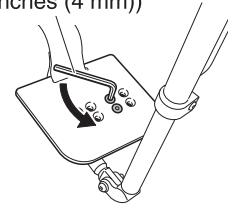
**Caution**

- Do not make this adjustment, while someone is seated in the wheelchair. Be sure to set the brake when making this adjustment.
- When making this adjustment, do not remove the footrests. Leave them in their fixed positions on the frame.
- When adjusting the angle of the footplates, make sure the plates are at least 2.5 inches (63.5 mm) off the ground.
- When tightening these bolts, be careful not to use the wrong bolts. If the footplates are not tightened properly, they may move, which could damage them.

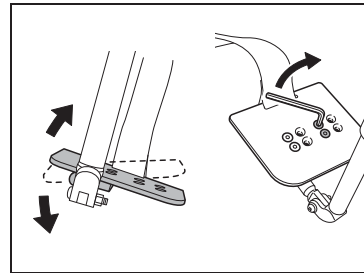


- 1** Insert the hexagonal wrench into the footplate bolts and loosen and remove them.

Hexagonal wrench  
(0.157 inches (4 mm))



- 2** When all of the bolts have been loosened, place the footplate at the desired angle and tighten the bolts.



# Attaching Optional Items

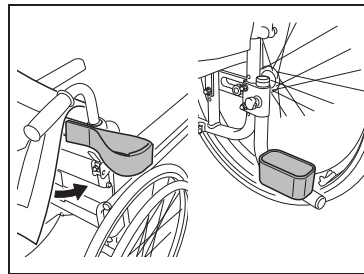
MS-F

## Cane Holder



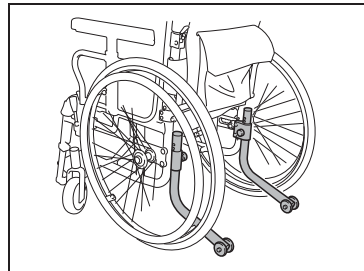
**In order to install the optional cane holder, the optional tipping bar or fall-prevention bar is also required. For details, please contact the installing company.**

The cane is inserted as shown in the illustration.



## Fall-prevention Bar

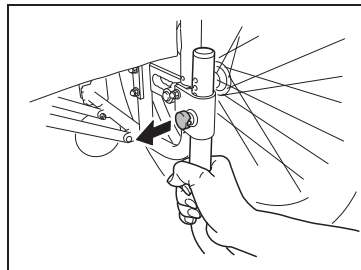
Climbing a raised area, such as a curb of step, requires an attendant. There are six possible height adjustments for the fall-prevention bar.



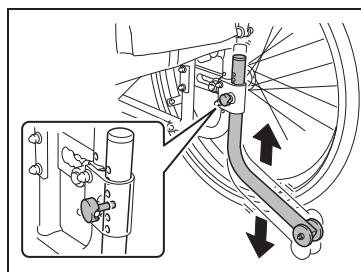
## ■ Adjusting the Height of the Fall-prevention Bars

When making this adjustment, first make sure that no one is seated in the wheelchair and be sure to set the brake.

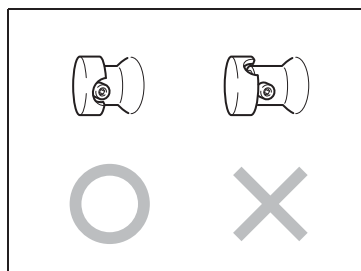
- 1** To adjust the height of the fall-prevention bars, hold one in one hand while pulling out the button on top of it in the direction of the arrow with the other hand.



- 2** Move the fall-prevention bar up or down and push the button back in at the hole of the desired height position. Move the fall-prevention bar up and down slightly to confirm that the end of the button has definitely entered the hole.

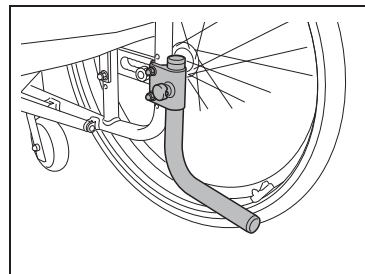


Make sure that the button has set properly into place.



- 3** Adjust the other fall-prevention bar in the same manner.

## Tip-over Bars



MS-F

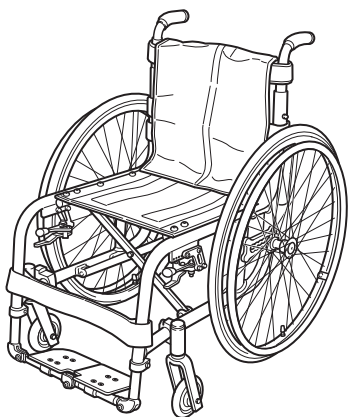
## Wheel Removal and Attachment

The wheelchair uses axels that allow the wheels to be changed in one quick operation.

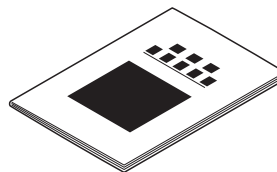
## List of Accompanying Items

The following items accompany this wheelchair. Check for them after your purchase. If something is missing, please contact your authorized supplier.

### Wheelchair

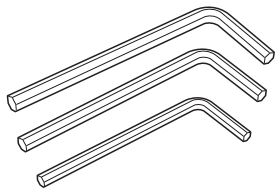


### Owner's manual (this manual)



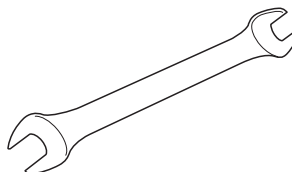
### 3 hexagonal wrenches

These are 0.197 inches (5 mm), 0.157 inches (4 mm), and 0.118 inches (3 mm) hexagonal wrenches. They are used for adjustments such as the angle of the foot-plates and position of the brakes.

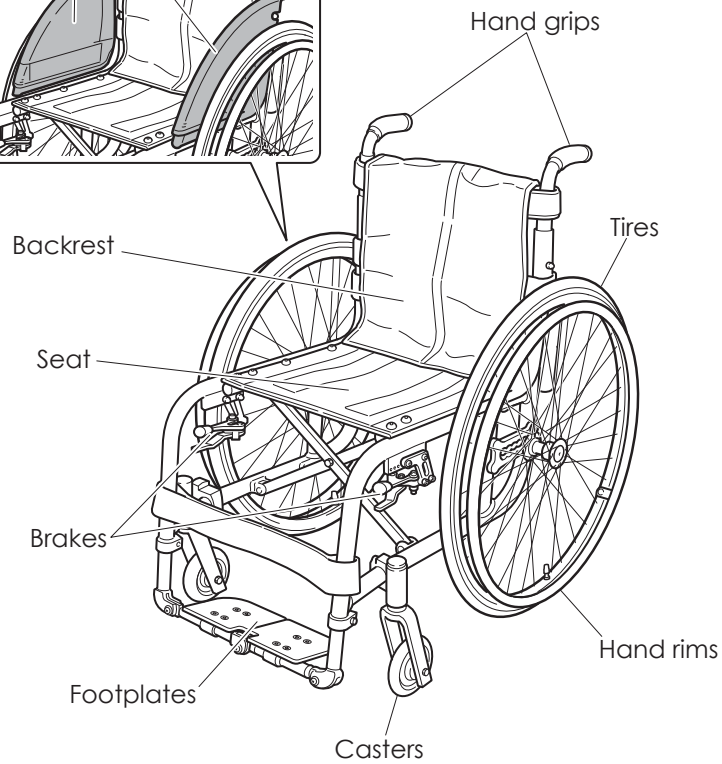
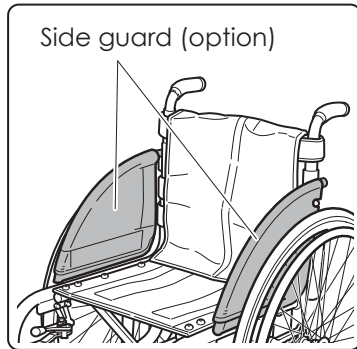


### 1 double-ended spanner wrench

The wrench has a 0.315 inches (8 mm) and 0.394 inches (10 mm) side. It is used to adjust the brakes, etc.



## Name of each part



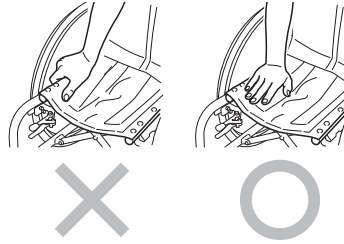
SW



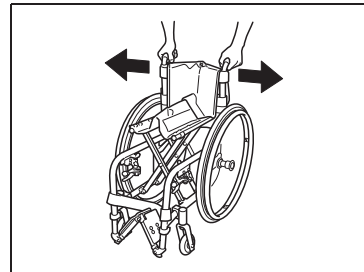
## Unfolding the Wheelchair

**Caution**  
!

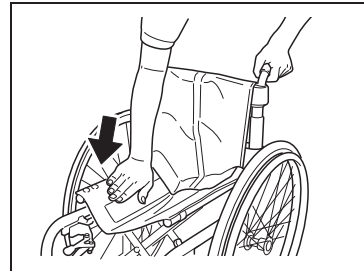
When pushing downward, do not place your hand below the seat bars, such as to grasp the seat frame bar. Your fingers may get caught, leading to injury.



- 1** Grasp the grips and lightly extend them to the left and right.

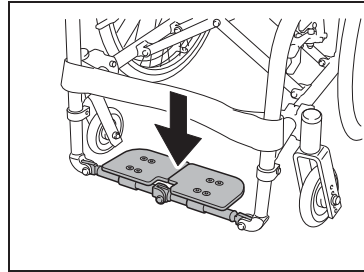


- 2** Hold onto one of the grips and push down on the section next to the seat bar on the opposite side.



Unfolding the Wheelchair

**3** Put the footplates in place.



SW

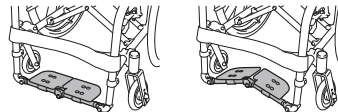




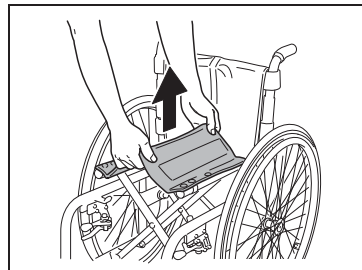
## Folding the Wheelchair

**Caution**

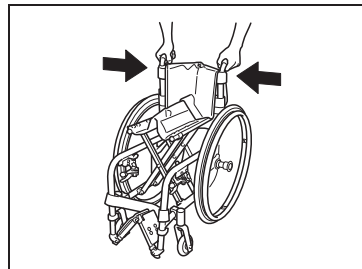
- Do not attempt fold the wheelchair while someone is still seated in it. This could lead to injury or tip the chair over.
- If folding is difficult, first fold up the footplates and then fold the chair.



- 1** Grasp the center of the front and back sections of the seat and lift it up.



- 2** Grasp the grips and push them inward from the left and right to fold the chair.



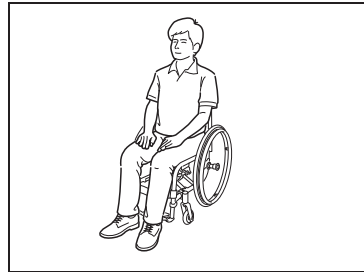


## Being Seated in the Wheelchair

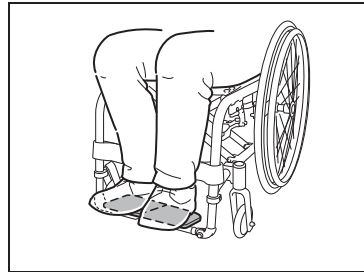
### Caution

- When being seated or unseated in the wheelchair, be sure to set the brakes on both wheels.
- Adjust the foot belts as necessary to an optimal position. If they are too tight or too loose, they could lead to injury.
- When being seated or unseated in the wheelchair, do not concentrate your body weight on the footplates as this could cause the wheelchair to lean or break the footplates.

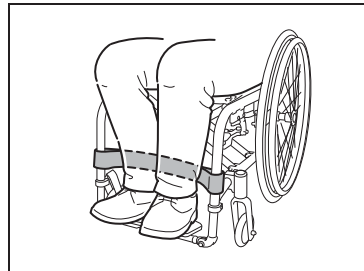
**1** Sit on the seat.



**2** Place your feet on the footplates.




**3** Adjust them to your feet and then adjust the foot belts.



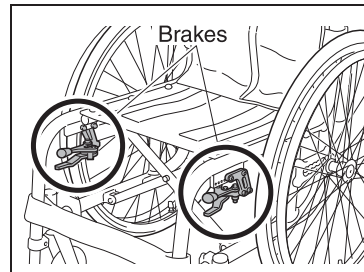
SW



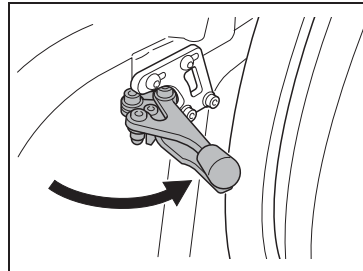
## Setting the Brakes

- Caution**  Always set the brakes in the following situations. Be sure they are set on both wheels.
- When being seated or unseated in the wheelchair.
  - When performing any adjustment to the wheelchair.
  - When not seated in the wheelchair and moving away from it.

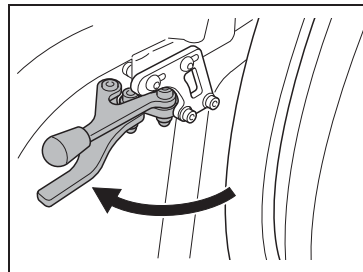
- 1** The brakes are attached to the rear wheels on either side of the wheelchair.



- 2** Move the brake lever rearward. Make sure the brake plate is making firm contact with the tire.



- 3** To release a brake, return the brake lever to its original position.



# Making Adjustments

The following adjustments can be made to the components of this wheelchair.

## Caution



- When making adjustments to the wheelchair, first make sure that no one is seated in it and be sure to set the brakes.
- After making an adjustment, make sure that the applicable screws or bolts have been properly tightened. If they remain loose, parts can come off, exposing anyone seated in the wheelchair to injury.

MS

## Adjusting the Tension of the Backrest

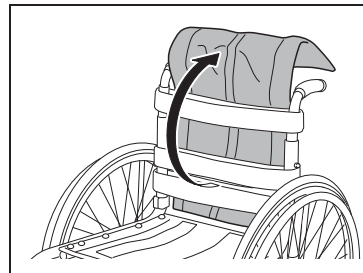
The backrest has three belts in it. Each belt has a hook and loop fastener on it and the tension of each can be adjusted.

## Caution

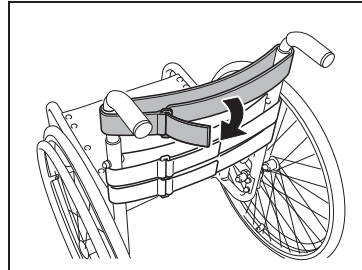


- When making adjustments to the wheelchair, first make sure that no one is seated in it and be sure to set the brake.
- Adjust the belts of the backrest so that they do not have too much tension. If they are adjusted with too much tension, they will cause the frame or seat to deform, damaging the wheelchair.

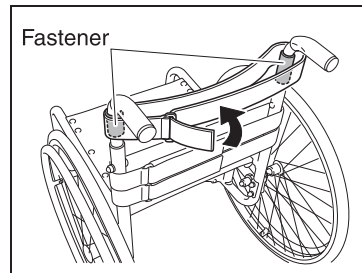
- 1 The backrest cover is held in place with a hook and loop fastener. Peel the cover off.



- 2** Adjust the length of the backrest belts.

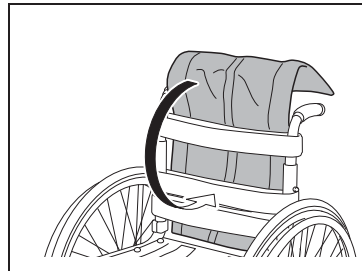


- 3** The bars on either side of the backrest have locations for attaching a hook and loop fastener. Adjust the position where the hook and loop fastener is to be attached so that belts have a uniform amount of play.



- 4** Adjust the remaining two belts in the same manner.

- 5** Re-attach the backrest cover.



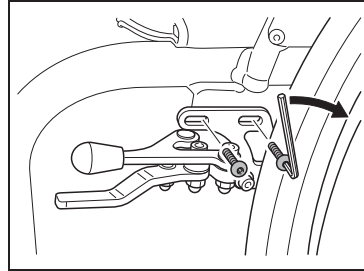
## Changing the Position of the Brakes

When the wheels of the wheelchair are replaced or the brakes lose their effectiveness, change the position of the brakes. Use the accompanying two spanner wrenches, 0.118 inches (3 mm) and 0.315-0.394 inches (8-10 mm) double-ended, to make this adjustment.

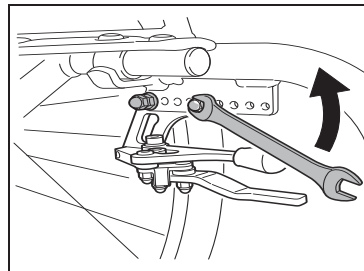
### Caution

- **Make this adjustment with the brakes off.**
- **Adjust the brakes of both wheels so that they are in the same position.**
- **After making the adjustment, be sure to check how effective the brakes work.**

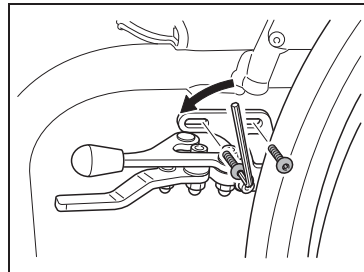
- 1** Use the hexagonal wrench to loosen the two bolts that hold the brakes in place.



- 2** Use the 0.315 inches (8 mm) side of the double-ended spanner wrench to loosen and remove the bolt on the inside.



- 3** Find the best position for the brake, adjust it to the opening and fix it in place by tightening both the inside and outside bolts.



SW

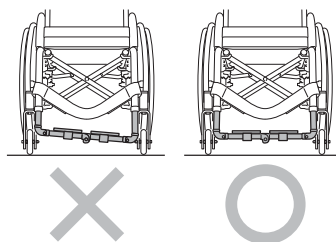
## Adjusting the Height of the Footplates

The height of the footplates can be adjusted to the condition of the feet of the wheelchair user. The left and the right footplates can be adjusted to different heights. To do this, you will need the accompanying 0.197 inches (5 mm) hexagonal wrench.

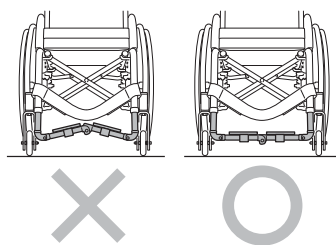
### Caution



- When making this adjustment, first make sure that no one is seated in the wheelchair and be sure to set the brakes.
- To make the footplate height adjustment, hold the footplate in place with one hand while tightening or loosening the screw with the other hand. This is because in making this adjustment, the footplate could fall off and become damaged or cause injury.
- Adjust the height of the footplates so that the left one and right one are at the same height.

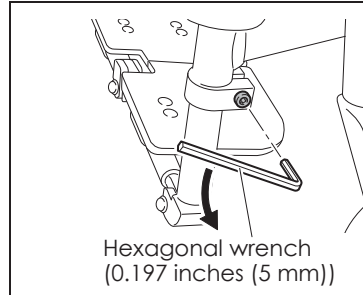


Make the adjustment with the footplates straight forward.

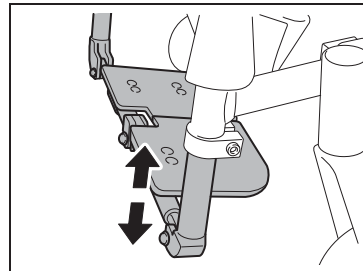


## Making Adjustments

- 1 Insert the hexagonal wrench into the screw at the back of the footplate and loosen it.



- 2 Adjust the footplate height and tighten it in place with the hexagonal wrench.



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## Adjusting the Angle of the Footplates

The angle of the footplates can be adjusted to the condition of the feet of the wheelchair user.

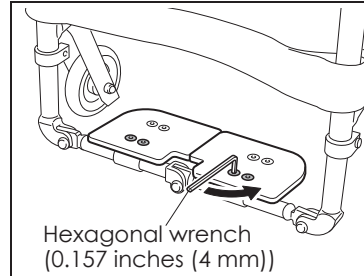
### Caution



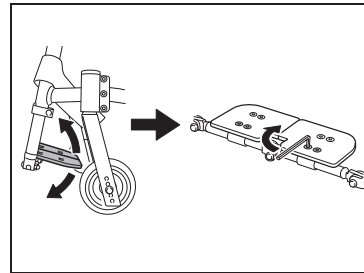
- When making this adjustment, first make sure that no one is seated in the wheelchair and be sure to set the brakes.
- When adjusting the angle of the footplates, make sure the plates are at least 2.5 inches (63.5 mm) off the ground.
- Adjust the angle of the footplates so that the left one and right one are at the same angle.
- To make this adjustment the two long bolts at the front of the footplate and the short one at the back are used. Be careful not to use the wrong bolt since this will not allow firm tightening, allowing the footplate to move and become damaged.
- Use the accompanying 0.157 inches (4 mm) hexagonal wrench for this adjustment.



- 1** Insert the hexagonal wrench into the bolts at the front of the footplate and loosen it.

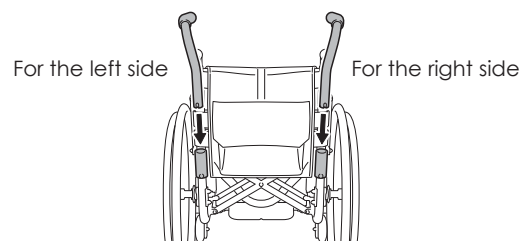


- 2** After loosening the bolt, place the footplate at the desired angle and tighten it in place with the bolt.




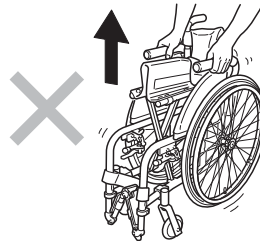
# Attaching Optional Components

## Armrests



The armrests are inserted and used as shown in the illustration.

**Caution**  When carrying the wheelchair, do not lift it by holding on to the armrests. Since they insert into the frame of the chair, there is the danger that the wheelchair will drop to the ground and lead to injury.



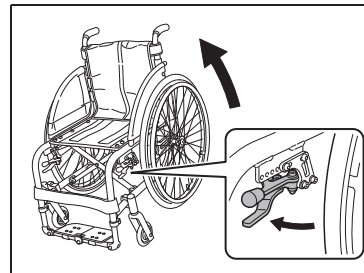
## Quick-release Wheels

The wheelchair uses hubs that allow the wheels to be changed in one quick operation.

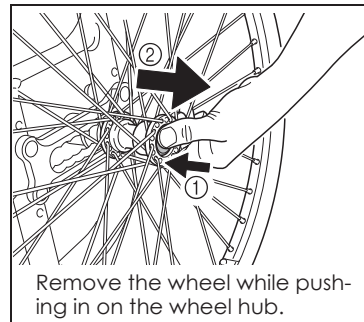
### Caution

- After inserting the wheel on the axle, make sure that the wheel's hub is in position far back on the axle.
- After replacing the wheel, make sure that it rotates properly before using the wheelchair again.

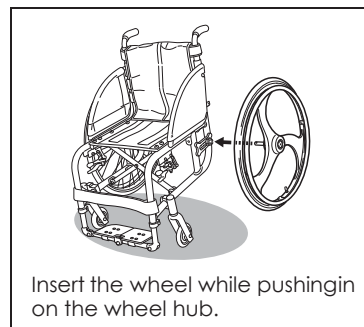
- 1** If the brake is set, release it and lift up on the wheel.



- 2** Remove the wheel while pushing in on the wheel hub.



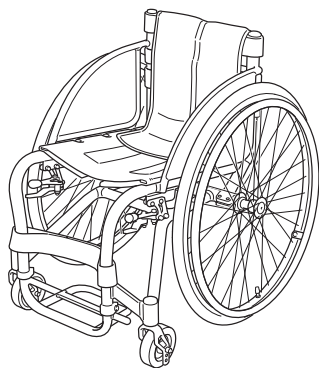
- 3** Insert a replacement wheel on the axle.



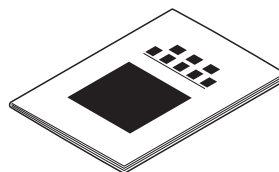
# List of Accompanying Items

The following items accompany this wheelchair. Check for them after your purchase. If something is missing, please contact your authorized supplier.

## Wheelchair

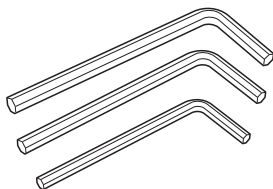


## Owner's manual (this manual)



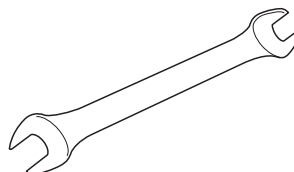
## 3 hexagonal wrenches

These are 0.197 inches (5 mm), 0.157 inches (4 mm), and 0.118 inches (3 mm) hexagonal wrenches. They are used for adjustments such as the height of the footplates and position of the brakes.

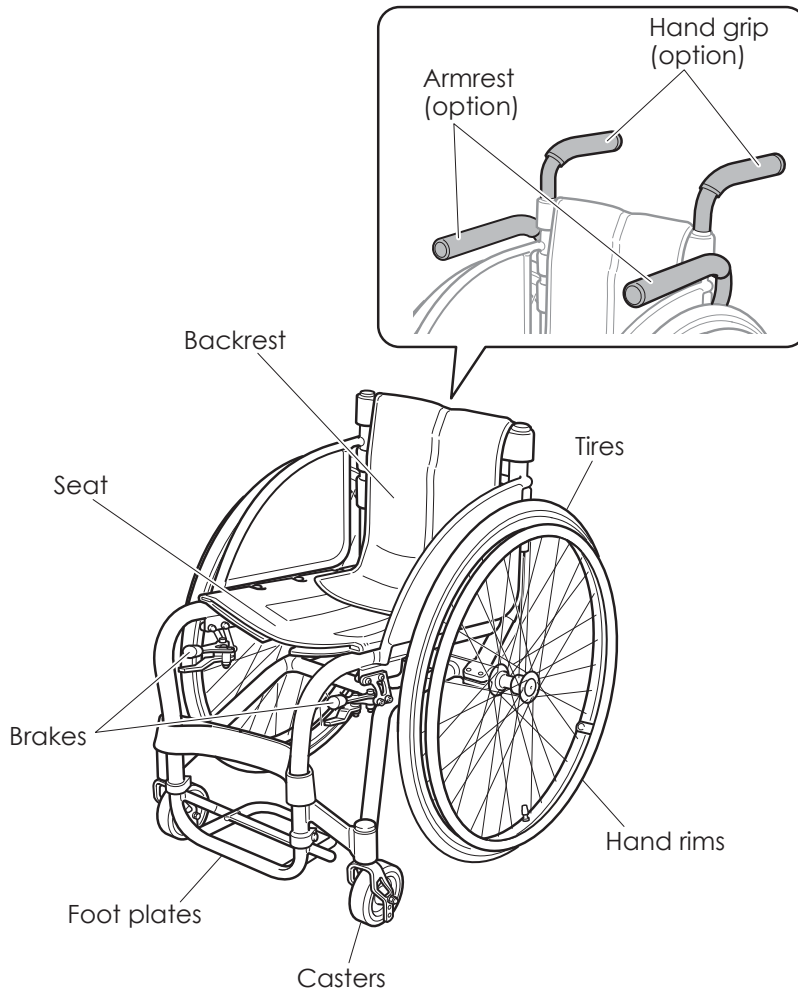


## 1 double-ended spanner wrench

The wrench has a 0.315 inches (8 mm) and 0.394 inches (10 mm) side. It is used to adjust the brakes, etc.



# Name of each part



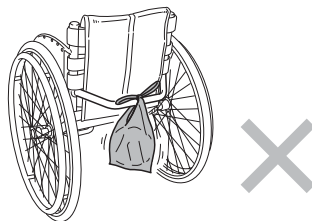


## Being Seated in the Wheelchair

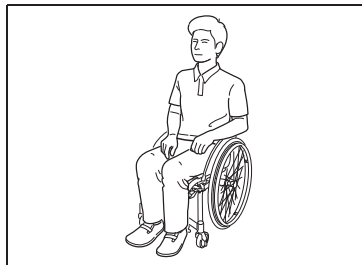
### Caution



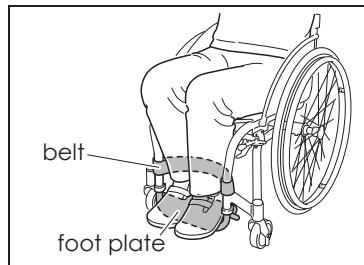
- When being seated or unseated in the wheelchair, be sure to set the brakes on both wheels.
- Adjust the foot belts as necessary to an optimal position. If they are too tight or too loose, they could lead to injury.
- When being seated or unseated in the wheelchair, do not concentrate your body weight on the footplates as this could cause the wheelchair to lean or break the footplates.
- The handles at the back are for reinforcement. Do not hang baggage from them or exert any more force than required.



**1** Sit on the seat.



**2** Place your feet on the footplates.



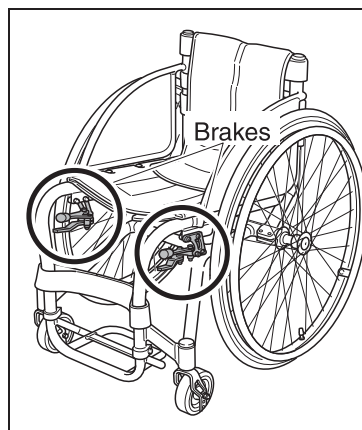


## Setting the Brakes

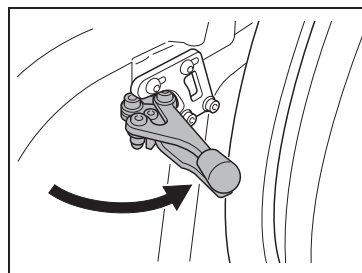
**Caution** Always set the brakes in the following situations. Be sure they are set on both wheels.

- When being seated or unseated in the wheelchair.
- When performing any adjustment to the wheelchair.
- When not seated in the wheelchair and moving away from it.

**1** The brakes are attached to the rear wheels on either side of the wheelchair.

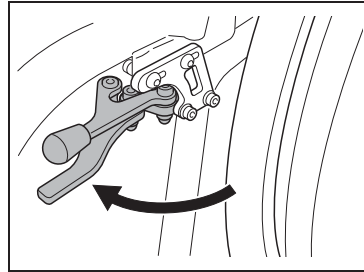


**2** Move the brake lever rearward. Make sure the brake plate is making firm contact with the tire.



## Setting the Brakes

- 3** To release a brake, return the brake lever to its original position.



Verve



# Making Adjustments

The following adjustments can be made to the components of this wheelchair.

## Caution

- When making adjustments to the wheelchair, first make sure that no one is seated in it and be sure to set the brakes.
- After making an adjustment, make sure that the applicable screws or bolts have been properly tightened. If they remain loose, parts can come off, exposing anyone seated in the wheelchair to injury.

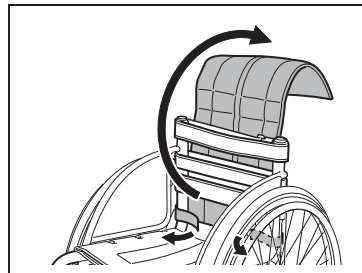
## Adjusting the Tension of the Backrest

The backrest has three belts in it. Each belt has a hook and loop fastener on it and the tension of each can be adjusted.

## Caution

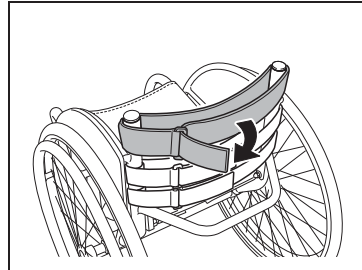
- When making adjustments to the wheelchair, first make sure that no one is seated in it and be sure to set the brake.
- Adjust the belts of the backrest so that they do not have too much tension. If they are adjusted with too much tension, they will cause the frame or seat to deform, damaging the wheelchair.

- 1 The backrest cover is held in place with a hook and loop fastener. Peel the cover off.

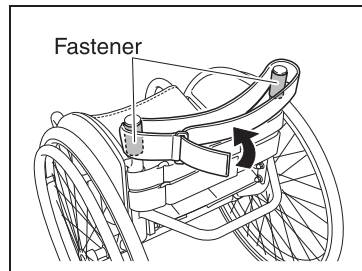


## Making Adjustments

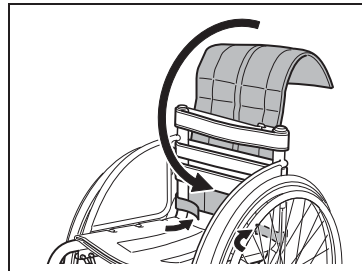
- 2** Adjust the length of the backrest belts.



- 3** The bars on either side of the backrest have locations for attaching a hook and loop fastener. Adjust the position where the hook and loop fastener is to be attached so that belts have a uniform amount of play.



- 4** Adjust the remaining two belts in the same manner.
- 5** Re-attach the backrest cover.



Verve

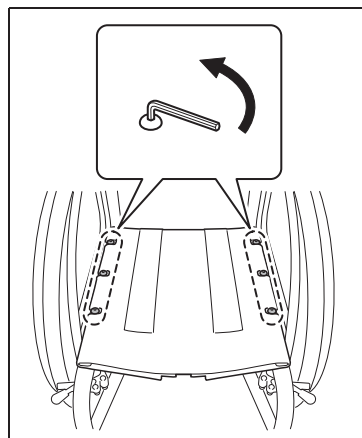
## Adjusting the tension of the seat

The tension can be adjusted with the hook and loop fastener under the seat. Use the included hexagonal wrench 0.157 inches (4 mm).

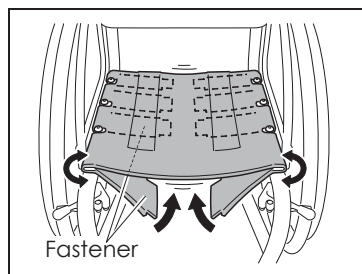
### Caution

- When making adjustments, be sure to do so with no one in the chair and after applying the brakes.
- Do not stretch the hook and loop fastener beyond what is required. Tightening it with too strong a force can cause the frame or seat to bend or break.

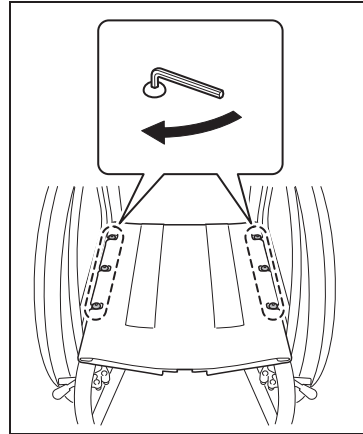
- 1 Loosen the clamping screws at six locations on both sides of the seat with the hex wrench.



- 2 There are four hook and loop fasteners under the seat. Fix the seat tension by adjusting the hook and loop fastener.



- 3** Tighten the clamping screws firmly at the six locations on both sides of the seat with the hex wrench.

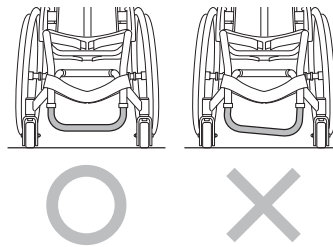


## Adjusting the Height of the Footplates

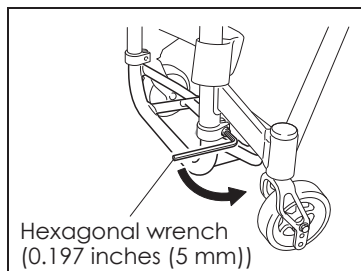
The height of the footplates can be adjusted to the condition of the feet of the wheelchair user. To do this, you will need the accompanying 0.197 inches (5 mm) hexagonal wrench.

### Caution

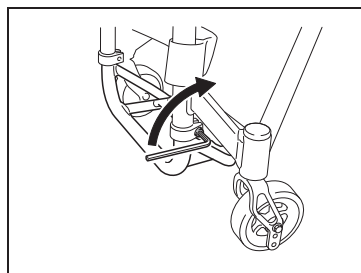
- When making this adjustment, first make sure that no one is seated in the wheelchair and be sure to set the brakes.
- To make the footplate height adjustment, hold the footplate in place with one hand while tightening or loosening the screw with the other hand. This is because in making this adjustment, the footplate could fall off and become damaged or cause injury.
- Adjust the height of the footplates so that the left one and right one are at the same height.



- 1 Insert the hexagonal wrench into the screw at the back of the footplate and loosen it.



- 2 Adjust the footplate height and tighten it in place with the hexagonal wrench.



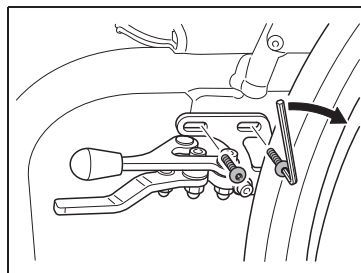
## Changing the Position of the Brakes

When the wheels of the wheelchair are replaced or the brakes lose their effectiveness, change the position of the brakes. Use the accompanying two spanner wrenches, 0.118 inches (3 mm) and 0.315-0.394 inches (8-10 mm) double-ended, to make this adjustment.

### Caution

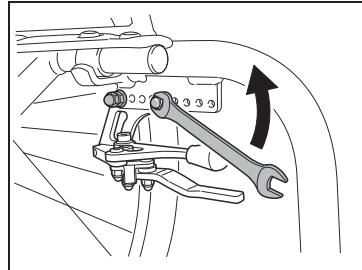
- Make this adjustment with the brakes off.
- Adjust the brakes of both wheels so that they are in the same position.
- After making the adjustment, be sure to check how effective the brakes work.

- 1 Use the hexagonal wrench to loosen the two bolts that hold the brakes in place.

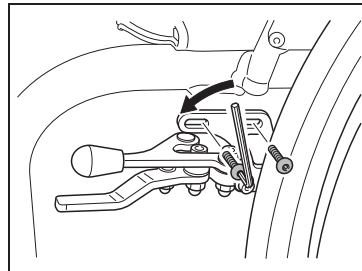


## Making Adjustments

- 2** Use the 0.315 inches (8 mm) side of the double-ended spanner wrench to loosen and remove the bolt on the inside.



- 3** Find the best position for the brake, adjust it to the opening and fix it in place by tightening both the inside and outside bolts.



Verve

# Attaching Optional Components

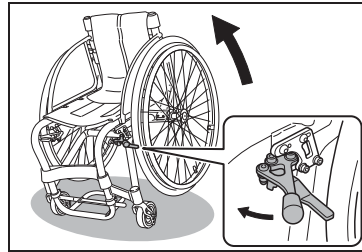
## Quick-release Wheels

The wheelchair uses hubs that allow the wheels to be changed in one quick operation.

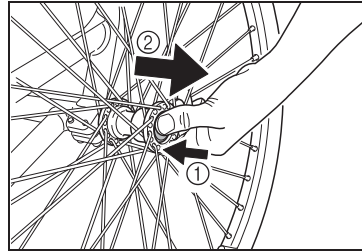
**Caution** !

- After inserting the wheel on the axle, make sure that the wheel's hub is in position far back on the axle.
- After replacing the wheel, make sure that it rotates properly before using the wheelchair again.

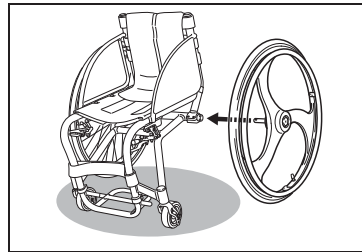
- 1** If the brake is set, release it and lift up on the wheel.



- 2** Remove the wheel while pushing in on the wheel hub.



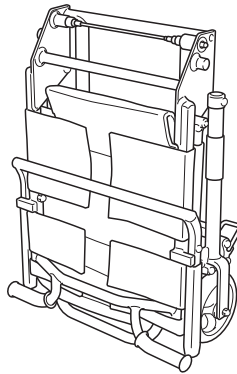
- 3** Insert a replacement wheel on the axle.



# List of Accompanying Items

The following items accompany this wheelchair. Check for these after your purchase. If something is missing, please contact your authorized supplier.

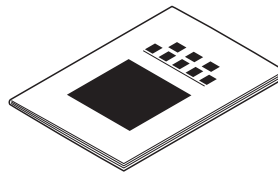
## Wheelchair



## Carrying bag



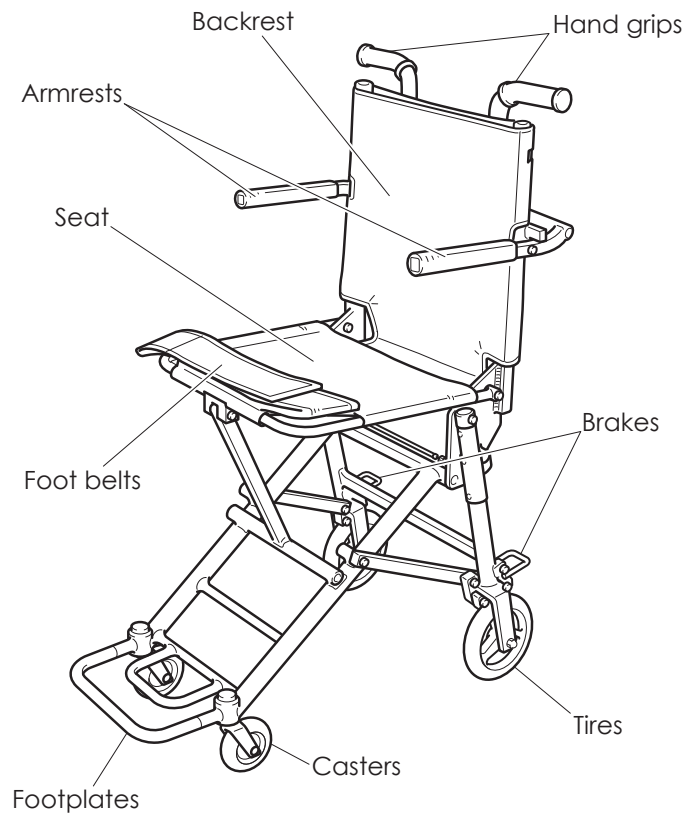
## Owner's manual (this manual)



NAH-207



# Names of Components

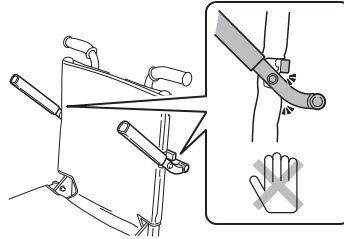




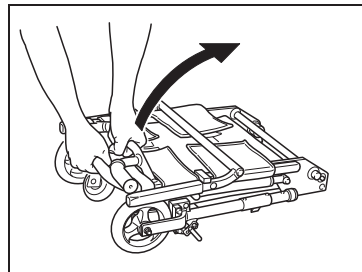
## Unfolding the Wheelchair

### Caution

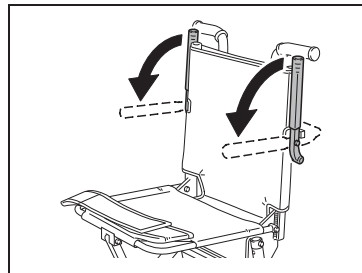
- When lowering an armrest, take care that your fingers, hair, clothing, etc., do not get caught in the gap between the armrest and backrest. This could lead to injury.



- 1** Grasp the bar beneath the hand grips and the bar of the footrests and lift them up to open the chair. Continue opening the chair until you hear it click and lock in place.



- 2** Lift the seatback handles and lower the armrests.



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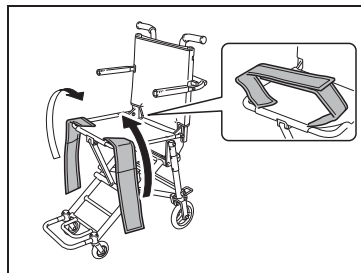
## Folding the Wheelchair

### Caution

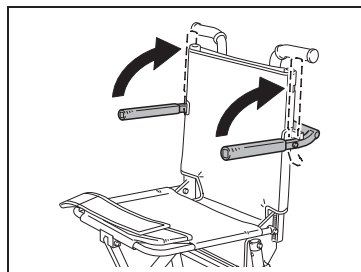


Do not attempt to fold the wheelchair while the user is still seated in it. This could lead to injury or tip the chair over.

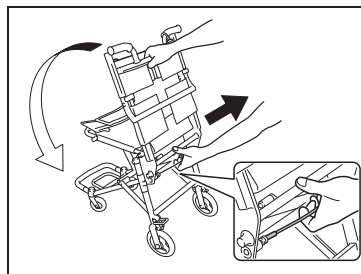
- 1 Remove the person seated in the wheelchair, fold the foot-plates outward, and stow the foot belts.



- 2 Raise the armrests.



- 3 Pull the black cable at the back in the direction of the arrow. While holding the bar below the hand grips, fold the wheelchair.

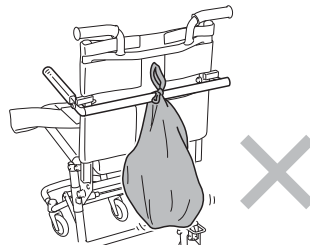




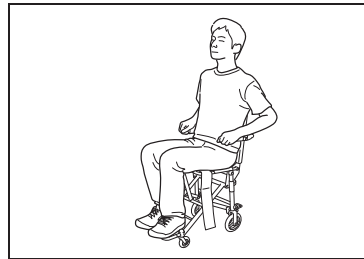
## Being Seated in the Wheelchair

### Caution

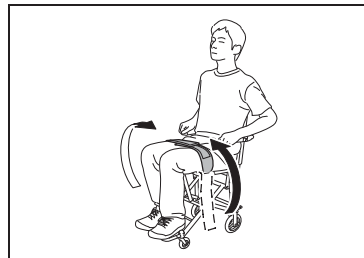
- When being seated or unseated in the wheelchair, be sure to set the brakes on both wheels.
- Adjust the foot belts as necessary to an optimal position. If they are too tight or too loose, they could lead to injury.
- When being seated or unseated in the wheelchair, do not concentrate your body weight on the footplates as this could cause the wheelchair to lean or break the footplates.
- The handle at the backrest is for raising and lowering the armrests. Do not hang items from it or place too much force on it.



### 1 Being Seated in the Wheelchair




### 2 Adjust the belt with your feet on the footplates.



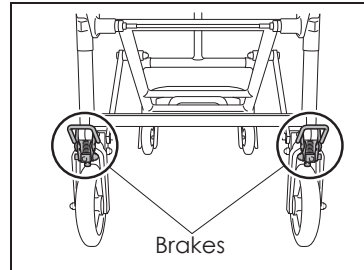
NAH-207



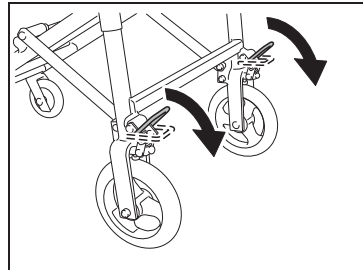
## Setting the Brake

- Caution**  Be sure to set the brakes in the following situations. Be sure to set the brakes on both wheels.
- When being seated or unseated in the wheelchair.
  - When making adjustments to the wheelchair
  - When no one is seated in the wheelchair and moving away from it.

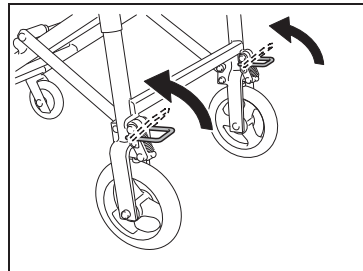
- 1** Brakes are installed on both of the rear wheels.



- 2** Step on the brake lever to push it downward.



- 3** To release the brake, return the brake lever to its original position.



# Care of Your Wheelchair

We recommend regular inspections and cleaning to allow the wheelchair to be used enjoyably for a long period of time.

## Cleaning

### ■ Metal and Plastic Components

- Remove mud and dirt from the wheelchair by soaking a cloth in a mild detergent and wiping them away. After that, use a dry cloth to wipe off the detergent.
- Clean the wheelchair at least once a month.

### ■ Around Axles

- If dirt or mud get on the wheelchair axles, wipe it off using a dry cloth.
- Wipe off dirt and mud from the axles and surrounding components at least once a week using a damp cloth. After that, wipe these components dry of the moisture.
- Oil the axles about once every six months.

### ■ Seat Section

- Remove dirt and mud from the seat by soaking a cloth in a mild detergent and wiping them away. After that, use a dry cloth to wipe off the detergent.
- Do not put the back rest in water or wash it.
- If the backrest is dried with a hairdryer or by putting it in a clothes dryer, the heat will damage the material and change its shape.

### ■ Storage

- Store the wheelchair in a clean, dry place. Storing it in a place with high moisture content will lead to rust and corrosion.
- If the wheelchair is not used for a long period of time, make sure it operates properly before using it.
- If the wheelchair is not used for three months or more, have an authorized supplier perform an inspection before using it.

## Inspection

Inspect the components listed below at the following time intervals. If you become aware of something abnormal about the wheelchair, please do an inspection, even if you have not reached the suggested inspection time interval.

	Weekly	Every 3 Months	Every 6 Months	Any Time
Tire pressure	○			
Brakes	○			
Belts		○		
Armrests		○		
Wheels		○		
Casters		○		
Frame distortion			○	
General inspection by installer				○

### ■ Scouring of the Hand Rim

If scouring of the hand rim is neglected, the wheelchair user may incur hand injuries when operating the chair. Use a material such as sandpaper to smooth the hand rim surface.

### ■ Tire Pressure

The appropriate tire pressure will vary according to the manufacturer and tire size. Do an inspection to assure that the tire pressure indicated on the side of the tire is maintained.

# Problem Resolution

To obtain optimal performance from your wheelchair, adjustments may be required from time to time. (This is especially true when the original adjustments have been changed.) The following table shows the primary methods of resolving problems. (When necessary, secondary and tertiary methods of problem resolution have also been indicated.) Finding the best method of resolving a particular problem may require referring to details.

Problem						Resolution
The wheelchair rotates to the right	The wheelchair rotates to the left	The wheelchair is twisted	Turning is sluggish	The wheelchair squeaks and rattles	The casters are loose	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inflate the tire to the proper tire pressure.
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Match up all of the nuts and bolts.
		<input type="radio"/>		<input type="radio"/>		Attach all spokes and nipples firmly to the wheels.
				<input type="radio"/>		Apply Tri-Row (Teflon-based) lubricating oil to all connecting sections and between all components of the modular frame.
<input type="radio"/>	<input type="radio"/>					Check if casters make good contact to the ground.



## COLOURS WARRANTY POLICY

SN: \_\_\_\_\_

\*This warranty is valid only for the originally registered owner.

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ITEM	Warranty Period	Description
Main Frame ( Every Day Chair )	5 years	Razor Blade, Shock Blade, Spazz(G,K), Boing, Saber, Zephyr, Trimor Kripto, Eclipse, Chump(G), Little Dipper, Razor Blade JR, Saber JR, Other chair (*from ver.8 order form)
Main Frame ( Every Day Chair )	Life Time	Razor Blade, Shock Blade, Spazz(G,K), Boing, Saber, Zephyr, Trimor Kripto, Eclipse, Chump(G), Little Dipper, Razor Blade JR, Saber JR,
Main Frame ( Tennis Chair )	Life Time	Xtreme
Main Frame ( Sports Chair )	No Warranty	Hammer, Zephyr Sports, and All contact Sports Chair
Main Frame ( Heavy Duty Chair )	-	Eclipse : Life Time
Air Ride Shock System	5 years	Fox Shock: Per Manufactures Warranty
Boing Shock System	5 years	
Back Rest Tube	5 years	
Back Rest Bracket	5 years	
Axle Tube & Axle Plate	5 years	
Wheel Lock	1 year	
Caster Fork	1 year	
Axle Pins	1 year	
Wheels	60 days	STD Wheel, Cross Knot, Heat Treated Wheel, Twister Wheel, Y-360
Wheel with Bite Locking Hub	1 year	Bite Hub Locked Wheel, Y-360 w/Bite Hub Locked
Hand rims	60 days	
Foot Plate	60 days	
Bearings	60 days	
Armrest	60 days	
Fabric	30 days	
Aluminum Side Guards	30 days	
ABS Side Guards	30 days	
Front Casters	30 days	
Tires & Inner Tubes	No Warranty	
Push Handle	No Warranty	
OEM Products	-	Per Manufactures Warranty
Custom Parts	1 year	
Hard Wear	1 year	
Other Parts	60 days	

This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product. Colours sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement. For warranty service, please contact the dealer from whom you purchased your Colours product. In the event you do not receive satisfactory warranty service, please write directly to Colours at the address on the back page.

Provide dealer's name, address, date of purchase, indicate nature of the defect and, if the product is serialized, indicate the serial number. Do not return products to our factory without our prior consent.

Limitations and Exclusions: The foregoing warranty shall not apply to serial numbered products. if the Serial number has been removed or defaced, Products subjected To negligence, accident, improper operation, Maintenance or storage, commercial or Institutional use, Products modified without Colours's express written Consent, Including, But Not limited to, Modification through The use of unauthorized parts or attachments; Products damaged by reason of repairs made to any component Without the specific consent of Colours, or to a Product damaged by circumstances beyond Colours's control, and such evaluation will be solely determined by Colours.

The warranty shall not apply to problems arising from normal wear or failure to adhere to these instructions.

The foregoing express or implied, including the implied warranties of merchantability and fitness for a particular purpose, and the sole remedy for violations of any warranty whatsoever, shall be limited to repair or replacement of the defective product pursuant to the terms contained herein.

The manufacturer shall not be liable for any consequential or incidental damages whatsoever. This warranty shall be extended to comply with state/provincial laws and requirements.

Please complete the following form for your own records.

Wheelchair serial number \_\_\_\_\_  
 Model of wheelchair \_\_\_\_\_  
 Name of the sales representative \_\_\_\_\_  
 Name of the dealership \_\_\_\_\_  
 Telephone number of the dealership \_\_\_\_\_  
 Address of the dealership \_\_\_\_\_  
 \_\_\_\_\_  
 Purchase Date \_\_\_\_\_



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## WARRANTY CARD

© 2010 Colours Wheelchair

This card must be returned to Colours in order to activate the warranty for your Colours wheelchair.

Wheelchair serial number \_\_\_\_\_  
 Model of wheelchair \_\_\_\_\_  
 Name of the dealership \_\_\_\_\_ Purchase Date \_\_\_\_\_  
 Name of owner \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Country \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 E-mail \_\_\_\_\_  
 How many Colours chairs do you own (including this one)? \_\_\_\_\_  
 Disability \_\_\_\_\_ Years disabled \_\_\_\_\_  
 Age \_\_\_\_\_ Sex \_\_\_\_\_ Occupation \_\_\_\_\_

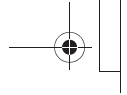
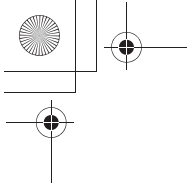
What are your favorite magazines?  
 \_\_\_\_\_  
 \_\_\_\_\_

Would you like to receive Coloured Paper (Colours' newsletter) to stay up-to-date with the latest development at Colours?  Yes  No


**X**  
 Signature \_\_\_\_\_ Date \_\_\_\_\_

By providing the above signature, I acknowledge the terms and conditions of Colours wheelchair warranty.

COLOURS



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