Invacare® EasyGlide Wheelchair

EGWCNNSTRE series

en

Manual Wheelchair

User Manual

This manual MUST be given to the user of the product.
BEFORE using this product, this manual MUST be read and saved for future reference.

Yes, you can.

Contents

1 General **4**
1.1 Symbols in this Document 4
1.1.1 Signal Words 4

2 Overview **6**
2.1 Component Identification 6
2.2 Specifications 7
2.3 Operating Conditions 8
2.4 Intended Use 9
2.5 Intended User 9
2.6 Indications 9
2.7 Contraindications 9
2.8 Wear-and-Tear Items 9
2.9 Service Life 10
2.10 Storage 11

3 Safety **12**
3.1 Labels on the Product 12
3.2 General Guidelines 14
3.3 Repair and Service Information 16
3.4 Operating Information 17
3.4.1 General Warnings 17
3.4.2 Anti-Tippers 18
3.4.3 Handgrips 19
3.4.4 Wheel Locks 19
3.4.5 Wheelchair Tie-Down Restraints 20
3.4.6 Lifting 20
3.4.7 Weight Limitation 20
3.4.8 Weight Training 21
3.4.9 Storage 21
3.4.10 Ramps, Slopes, Inclines, and Obstacles 22
3.4.11 Information for Healthcare Professionals or Assistants 22
3.4.12 Wheelchair User 23

4 Wheelchair Safety and Handling **24**
4.1 Stability and Balance 24
4.2 Reaching, Leaning, and Bending 25
4.2.1 Forward or Sideward 26
4.2.2 Backward 27
4.3 Coping with Everyday Obstacles 27
4.4 Tipping 28
4.4.1 Tipping to Ascend 28
Ascending a Curb with a Forward Approach 28
Ascending a Curb with a Backward Approach 29
4.4.2 Tipping to Descend 30
4.5 Ramps and Inclines 31
4.5.1 Ascent 32
4.5.2 Descent 32
4.6 Curbs and Steps 32
4.7 Navigating Stairways 33
4.7.1 Moving Up Stairs 34

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4.7.2 Moving Down Stairs 35
4.7.3 Using Escalators 36
4.8 Transferring To and From Other Seats 36
4.9 Transporting the Wheelchair in a Motor Vehicle 37
4.9.1 Transporting the Wheelchair in the Rear Seat 38
4.9.2 Transporting the Wheelchair in the Trunk 39

5 Setup and Operation 40
5.1 Adjusting the Elevating Legrest Assembly 40
5.2 Using the Wheel Locks 40
5.2.1 Using the Wheel Locks 41
5.3 Rotating the Arm 42
5.4 Unfolding and Folding the Wheelchair 43
5.4.1 Unfolding the Wheelchair 43
5.4.2 Folding the Wheelchair 44

6 Accessories 46
6.1 Installing the Seat Positioning Strap 46
6.2 Installing the Wheel Lock Extension Handle 47

7 Maintenance 48
7.1 Maintenance 48
7.1.1 Maintenance Safety Precautions 48
7.1.2 Replacing or Repairing the Rear Wheel Tire or Tube 50
7.1.3 Replacing or Repairing the Caster Tire or Tube 50
7.2 Safety Inspection Checklists 51
7.2.1 Initial Inspection and Adjustment 51
7.2.2 Weekly Inspections and Adjustments 53
7.2.3 Monthly Inspections and Adjustments 53
7.2.4 Periodic Inspection and Maintenance 54

8 Service 56
8.1 Removing and Installing the Armrests 56
8.1.1 Removing the Armrests 56
8.1.2 Installing the Armrests 57
8.2 Installing or Removing the Elevating Legrest Assembly 57
8.2.1 Installing the Elevating Legrest Assembly 57
8.2.2 Removing the Elevating Legrest Assembly 58
8.3 Installing or Replacing the Front Casters and Forks 58
8.4 Replacing the Front Casters 60
8.5 Removing and Installing the Rear Wheels 62
8.6 Replacing the Rear Wheel Handrim 63
8.7 Installing and Adjusting the Anti-Tippers 64
8.7.1 Installing the Anti-tippers 65
8.7.2 Adjusting the Anti-tippers 66
8.8 Adjusting the Wheel Locks 67

9 Troubleshooting 69

10 Warranty 71
10.1 Limited Warranty 71

1 General

1.1 Symbols in this Document

1.1.1 Signal Words

Signal words and symbols are used in this manual and on the product. They apply to hazards or unsafe practices which could result in personal injury or property damage or indicate helpful information. Refer to the table below for definitions of the signal words and symbols.

DANGER!
– Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING!
– Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

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

NOTICE
– Indicates a hazardous situation that could result in damage to property if it is not avoided.

Gives useful tips, recommendations, and information for efficient, trouble-free use.

Identifies required tools, components, and items needed to perform certain tasks.

Indicates the procedures in the section in which the symbol appears should be performed only by a qualified technician.

For a list of the symbols used on Invacare America (Invacare®) products and their descriptions, access the online symbols glossary using the following QR code:

2 Overview

2.1 Component Identification

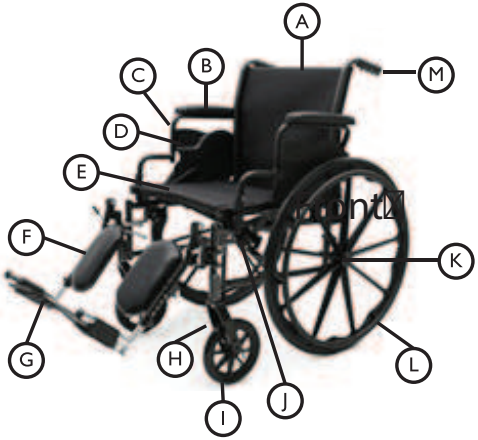


Fig. 2-1

Symbol	Component
Ⓐ	Back Upholstery
Ⓑ	Armrest Pad
Ⓒ	Armrest
Ⓓ	Side Panel
Ⓔ	Seat Upholstery
Ⓕ	Rigging
Ⓖ	Footplate
Ⓗ	Caster Fork
	Front Caster
	Brakes
	Cap Hub Rear Wheel
	Rear Wheel
	Handgrip

2.2 Specifications

Specification	Models
	EGWC16STREBU **EGWC16STREBK** **EGWC18STREBU** **EGWC18STREBK** **EGWC20STREBU** **EGWC20STREBK**
Chair Weight(lb/kg)	41.3/18.75
Frame Material	Steel
Seat Width (inches/cm)	16/40.6 18/45.7 20/50.8
Seat Depth (inches/cm)	15.7/40
Backrest Height(inches/cm)	17.3/44
Backrest Upholstery	Nylon
Armrest Type	Desk, L-shaped
Armrest Upholstery	Polyvinyl Chloride (PVC)

Specification	Models
	EGWC16STREBU **EGWC16STREBK** **EGWC18STREBU** **EGWC18STREBK** **EGWC20STREBU** **EGWC20STREBK**
Rigging Type	Elevating
Caster Size (inches/cm)	1.25/3.18
Caster Material	Polyurethane (PU)
Available Colors	Blue and Black

2.3 Operating Conditions

Recommended Storage and Use Temperature	41°F to 105°F (5°C to 41°C)
Recommended Storage and Use Humidity	30% to 70% relative humidity, non-condensing
Maximum Slopes (uphill, downhill, sideways)	10°

2.4 Intended Use

The intended use for the manual wheelchair is to provide mobility to persons who are restricted to a sitting position.

2.5 Intended User

The intended users for the manual (mechanical) wheelchair are persons who are restricted to a sitting position.

2.6 Indications

The mechanical wheelchair is a manually operated device with wheels that is intended for medical purposes to provide mobility to persons restricted to a sitting position.

2.7 Contraindications

Pediatric users and users who weigh more than 300 pounds should not use the wheelchair.

Pediatric users are persons aged 21 years or younger (from birth through the 21st year of life, up to but not including the 22nd birthday) at the time of diagnosis or treatment.

2.8 Wear-and-Tear Items

Invacare reserves the right to ask for any item that has an alleged defect in workmanship to be returned. See the warranty that shipped with the product for specific warranty information.
Refer to the user manual for the proper preventative maintenance schedule and use of the product.

This information is a general guideline and does not include items damaged due to abuse and misuse. Useful life depends upon many factors.

Normal wear-and-tear items and components include but are not limited to the items in the following table.

Product Type	Product Wear-and-Tear Parts
Wheelchairs	• Wheels • Brake assembly/wheel locks • Handgrips
Upholstery and Seating	• Arm pads • Seat cushion foam • Seat cushion covers • Back cushion foam • Back cushion covers • Footplate covers • Calf pad foam and cover (if applicable)

2.9 Service Life

WARNING!
Risk of Injury or Damage
Use of the product beyond this time period may cause product damage and injury.
– This product has an expected lifetime of years when used in accordance with safety instructions, maintenance intervals, and correct use stated in this manual.
– Perform all maintenance according to the recommended schedule in this manual.

The effective product lifetime can vary according to the frequency and intensity of use.

2.10 Storage

Storing or using the wheelchair near open flame or combustible products can result in serious injury or damage.
Storing the wheelchair in a damp area or when wet may cause rust or corrosion of wheelchair parts and may result in injury or damage.
DO NOT use the wheelchair in a shower, pool, or other body of water.
DO NOT store the wheelchair in a damp or humid area.
Avoid extreme weather such as rain or snow when possible.
Avoid excessive moisture or humidity.
If the wheelchair is exposed to water, dry it as soon as possible.

3 Safety

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

3.1 Labels on the Product

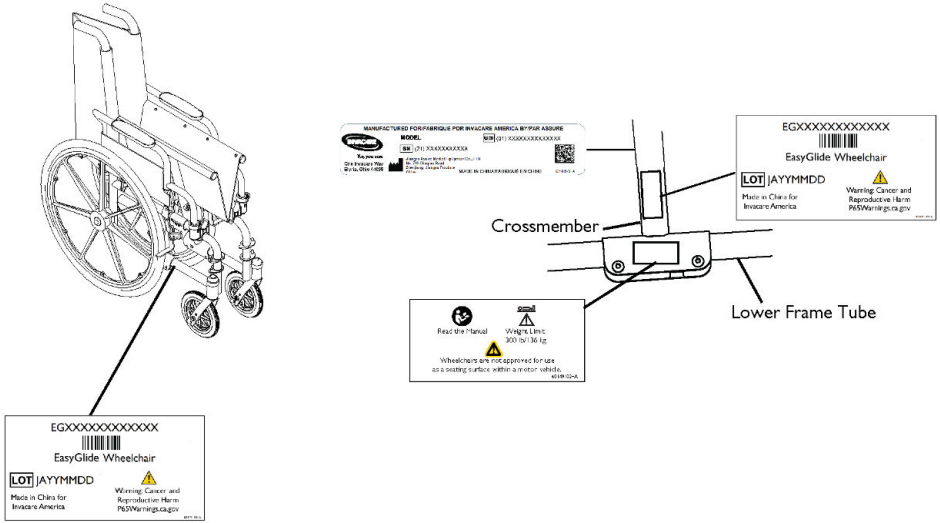
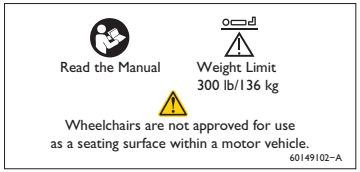


Fig. 3-1

Symbol	Label	Description
Ⓐ		Indicates the following: • The product model. • The product lot number. • The manufacturing country. • A Proposition (Prop) 65 warning.
Ⓑ		Indicates the product model, serial number, unique device identification (UDI), and other information.
Ⓒ		Indicates the following: • The user must read the user manual. • The product weight capacity. • A product transportation warning.

For a list of the symbols used on Invacare products and their descriptions, access the online symbols glossary using the following QR code:

3.2 General Guidelines

WARNING!
Risk of Serious Injury or Damage

- DO NOT use this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as owner's manuals, service manuals or instruction sheets supplied with this product or optional equipment. If you are unable to understand the warnings, cautions or instructions, contact a healthcare professional, dealer or technical personnel before attempting to use this equipment; otherwise, injury or damage may occur.
- A qualified technician MUST perform the initial setup of the product. Also, a qualified technician must perform all procedures specifically indicated in the manual.
- Use of non-Invacare accessories may result in serious injury or damage.
- Invacare products are specifically designed and manufactured for use in conjunction with Invacare accessories. Accessories designed by other manufacturers have not been tested by Invacare and are not recommended for use with Invacare products.
- DO NOT use non-Invacare accessories.
- To obtain Invacare accessories, contact Invacare by phone or at pro.invacare.com.

DANGER!
Risk of Death, Serious Injury, or Damage

- Use of incorrect or improper replacement or service parts may cause death, serious injury, or damage.
- Replacement parts MUST match original Invacare parts.
- ALWAYS provide the wheelchair serial number to assist in ordering the correct replacement parts.
- Setup and assembly instructions MUST be performed only by qualified technicians. "Qualified Technician Only" sections are marked accordingly.

DANGER!
Risk of Death, Serious Injury, or Damage
Lighted cigarettes dropped onto an upholstered seating system can cause a fire resulting in death, serious injury, or damage.
Wheelchair occupants are at particular risk of death or serious injury from these fires and resulting fumes because they may not have the ability to move away from the wheelchair.
– DO NOT smoke while using this wheelchair.

DANGER!
Risk of Injury, Damage, or Death
Improper monitoring or maintenance may cause injury, damage, or death due to ingestion or choking on parts or materials.
– Closely supervise children, pets, or people with physical or mental disabilities.

WARNING!
Risk of Injury or Damage
To avoid injury or damage from moving parts:
– ALWAYS keep hands and fingers clear of moving parts.
– Do not place your hands between the seat rail and the side panel.
– Closely supervise children, pets, or people with physical or mental disabilities.

WARNING!
Risk of Injury or Property Damage
Invacare disclaims responsibility for any personal injury or property damage which may occur during any use which does not comply with federal, state, or local laws or ordinances.

THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.
Check all parts for shipping damage and test before using. In case of damage, DO NOT use. Contact Invacare or the carrier for further instruction.

3.3 Repair and Service Information

WARNING!
Risk of Serious Injury or Damage

– Unless otherwise noted, all service and adjustments should be performed while the wheelchair is unoccupied. After ANY adjustments, repair, or service and BEFORE use, make sure all attaching hardware is securely tightened; otherwise, injury or damage may result.

3.4 Operating Information

3.4.1 General Warnings

WARNING!
Risk of Injury or Damage
To avoid product damage or personal injury:
– To determine and establish your particular safety limits, practice bending, reaching, and transferring activities in several combinations in the presence of a qualified healthcare professional before attempting active use of the wheelchair.
– Avoid storing or using the wheelchair near open flame or combustible products. Serious injury or damage to property may result.
– DO NOT stand on the frame of the wheelchair.
– DO NOT use the footplate as a platform. When getting in or out of the wheelchair, make sure that the footplates are in the upward position.
– ALWAYS use the handrims for self-propulsion.
– DO NOT operate on roads, streets, or highways.
– DO NOT allow children to play on or operate the wheelchair.
– DO NOT operate on hilly or rough terrain, soft surfaces such as sand, grass, or gravel, wet or icy surfaces, or other surfaces with impaired traction.
– Do not turn the wheelchair while going downhill, as the wheelchair could tip over.
– Ensure pathways are clear of all obstacles.
– Do not lean on the wheelchair or use it as a walker as this could result in a loss of balance and injury.

WARNING!
Risk of Injury or Damage
Do not tie down or attach anything to the wheels.
– Restraints or attachments could cause tipping and possibly result in injury or damage to the wheelchair.

WARNING!
Risk of Injury or Damage
DO NOT tilt the wheelchair backward until it reaches its balance point (do a "wheelie").
– This maneuver is dangerous and could result in personal injury to the user.

3.4.2 Anti-Tippers

WARNING!
Risk of Injury or Damage
– Inasmuch as the anti-tippers are an option on this wheelchair, Invacare strongly recommends ordering the anti-tippers as an additional safeguard for the wheelchair user.
– Invacare strongly recommends that anti-tippers be used at all times.
– The manual wheelchair is intended for indoor and outdoor use on firm surfaces. When outdoors on wet, soft ground or on gravel surfaces, anti-tippers may not provide the same level of protection against tipping over.

WARNING!
Risk of Injury or Damage
When in use, anti-tippers must be installed in the downward position.

3.4.3 Handgrips

WARNING!
Risk of Damage or Injury
- ALWAYS check the handgrips for looseness before using the wheelchair. If the handgrips are loose or worn, IMMEDIATELY replace them.
- When cleaning the rear cane or handgrip areas, use only a clean towel lightly dampened with cool water. Verify the grips are dry prior to use. Use of soap or ammonia-based cleaning solutions will result in the handgrips sliding off the cane assembly. Failure to observe this warning may result in injury to the user or bystanders.
- If the wheelchair is exposed to extreme temperature (above 100°F or below 32°F), high humidity, or becomes wet, ensure the handgrips DO NOT twist on the handle prior to use. Otherwise, damage or injury may occur.

3.4.4 Wheel Locks

WARNING!
Risk of Injury or Damage
- DO NOT attempt to stop a moving wheelchair with wheel locks. Wheel locks are not brakes.
- Engaging the wheel locks may not prevent the wheelchair from moving on all floor surfaces, including those that may be wet or slick.
- ALWAYS exercise caution when transferring into or out of the wheelchair.
- ALWAYS engage the wheel locks before transferring, using a wheelchair lift, or using an elevator.

3.4.5 Wheelchair Tie-Down Restraints

WARNING!
Risk of Injury or Damage
– Invacare recommends that wheelchair users not be transported in vehicles of any kind while in wheelchairs. As of this date, the Department of Transportation has not approved any tie-down systems for transporting in any type of moving vehicle a user who is in a wheelchair.
– It is Invacare's position that users of wheelchairs should be transferred into appropriate seating in vehicles for transportation and the restraints made available by the auto industry be used. Invacare cannot and does not recommend any wheelchair transportation systems.

3.4.6 Lifting

WARNING!
Risk of Injury or Damage
– DO NOT attempt to lift the wheelchair by any removable or detachable parts. Lifting by means of any removable or detachable parts of the wheelchair may result in injury to the user or damage to the wheelchair.

3.4.7 Weight Limitation

WARNING!
Risk of Injury or Damage
– Weight limitation is 300 lb (136 kg).

3.4.8 Weight Training

WARNING!
Risk of Injury or Damage
Invacare does not recommend the use of its wheelchairs as a weight-training apparatus. Invacare wheelchairs have not been designed or tested as a seat for any kind of weight training. If the occupant uses said wheelchair as a weight-training apparatus, Invacare shall not be liable for bodily injury or damage to the wheelchair and the warranty is void.

3.4.9 Storage

WARNING!
Risk of Serious Injury or Damage
Storing or using the wheelchair near open flame or combustible products can result is serious injury or damage.
– Avoid storing or using the wheelchair near open flame or combustible products.
– Avoid storing the wheelchair in a damp area or when wet to avoid rust or corrosion of wheelchair parts resulting in injury or damage.
– DO NOT use the wheelchair in a shower, pool, or other body of water.
– DO NOT store the wheelchair in a damp or humid area.
– Avoid extreme weather such as rain or snow when possible.
– Avoid excessive moisture or humidity.
– If exposed to water, dry the wheelchair as soon as possible.

3.4.10 Ramps, Slopes, Inclines, and Obstacles

WARNING!
Risk of Injury or Damage
– DO NOT traverse, climb, or go down ramps or slopes greater than 9°.
– DO NOT attempt to move up or down an incline with a water, ice, or oil film.
– DO NOT attempt to ride over curbs or obstacles. Doing so may cause the wheelchair to tip over and cause bodily harm to the user or damage to the wheelchair.
– NEVER leave an unoccupied wheelchair on an incline.
– DO NOT attempt to stop the wheelchair while on a sloped surface.

3.4.11 Information for Healthcare Professionals or Assistants

WARNING!
Risk of Injury or Damage
– When the wheelchair user requires assistance, remember to use good body mechanics. Keep your back straight and bend your knees when tipping the wheelchair or traversing curbs or other impediments.
– Always verify the Invacare Americas on the rear cane are secure PRIOR to use when propelling the user or lifting the chair. Check for any signs of looseness or deterioration and, if found, contact a qualified technician. DO NOT attempt to move the shower commode chair by pulling on the Invacare Americas if they are not secure or show signs of deterioration.
– Be aware of detachable parts such as armrests or legrests. NEVER use detachable parts to move or lift the shower commode chair, as they may be inadvertently released and cause possible injury.
– When learning a new assistance technique, have an experienced assistant help you before attempting it alone.

3.4.12 Wheelchair User

WARNING!
Risk of Injury or Damage
As a manufacturer of wheelchairs, Invacare endeavors to supply a wide variety of wheelchairs to meet many needs of the end user. However, final selection of the wheelchair type an individual will use rests solely with the user and his or her healthcare professional capable of making such a selection.

4 Wheelchair Safety and Handling

Wheelchair safety and handling require the user's and the assistant's close attention. This manual includes the most common procedures and techniques involved in the safe operation and maintenance of the wheelchair. It is important to practice and master these safe techniques until you are comfortable in maneuvering around frequently encountered architectural barriers.
Use this information only as a basic guide. The techniques discussed on the following pages have been successfully used by many users.
Individual wheelchair users often develop skills to deal with daily living activities that may differ from those described in this manual. Invacare recognizes and encourages each individual to try what works best for him or her in overcoming architectural obstacles they may encounter. However, all WARNINGS and CAUTIONS in this manual MUST be followed. Techniques in this manual are a starting point for the new wheelchair user and assistant with safety as the most important consideration for all.

4.1 Stability and Balance

WARNING!
Risk of Injury or Damage
– Be aware that carrying heavy objects on your lap while occupying the wheelchair may adversely affect the stability of the wheelchair, resulting in serious bodily injury to the user or damage to the wheelchair and surrounding property.
– This wheelchair has been designed to accommodate one individual. If more than one individual occupies the wheelchair, this may adversely affect the stability of the wheelchair, resulting in serious bodily injury to the user and passenger and damage to the wheelchair and surrounding property.

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

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

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

4.2 Reaching, Leaning, and Bending

WARNING!
Risk of Injury or Damage

- DO NOT shift your weight or sitting position toward the direction you are reaching as this may cause the wheelchair to tip.
- DO NOT attempt to reach objects if you have to pick them up from the floor by reaching down between your knees.
- DO NOT lean over the top of the back upholstery to reach objects behind you, as this may cause the wheelchair to tip.
- Operate the wheelchair only with anti-tippers in place when leaning or tipping. When in use, anti-tippers must be installed in the downward position.
- To reduce the risk of tipping, sit back in the seat and fully rotate the casters toward the front of the wheelchair before leaning or reaching.

4.2.1 Forward or Sideward

1. Maneuver the wheelchair as close as possible to the object you want to reach.
2. To rotate both casters fully forward:
   A. Go forward.
   B. Back the wheelchair toward the object to swing the casters fully forward.
3. Engage both wheel locks.
4. Ensure the casters are rotated fully forward before reaching. If the casters are not fully rotated, repeat step 2.

Fig. 4-1

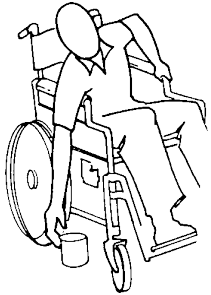


Fig. 4-2

Fig. 4-3

4.2.2 Backward

WARNING!
Risk of Injury or Damage
– Do not engage the wheel locks while reaching or bending backward. If your weight suddenly shifts accidentally, it is better to roll in that direction than to tip over.
– Do not lean over the back upholstery; this could cause the wheelchair to tip.

1. Maneuver the wheelchair as close as possible to the object.
2. To rotate both casters fully forward:
   A. Go forward.
   B. Back the wheelchair toward the object to swing the casters fully forward.
3. Reach only as far as your arm will extend without changing your sitting position. If in doubt, reposition the wheelchair or ask for assistance.

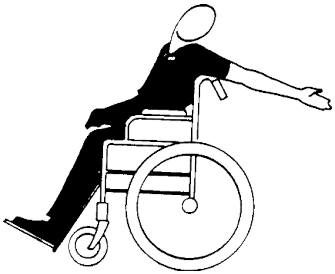


Fig. 4-4

4.3 Coping with Everyday Obstacles

Coping with the irritation of everyday obstacles can be alleviated somewhat by learning how to manage your wheelchair. Keep in mind your center of gravity to maintain stability and balance.

4.4 Tipping

When tipping the wheelchair to negotiate a curb or other obstacle, the assistant should grasp the back of the wheelchair on a non-removable (non-detachable) part. Inform the wheelchair occupant before tipping the wheelchair and remind him or her to lean back. Be sure the occupant's feet and hands are clear of all wheels and pinch points.

After mastering the techniques of tipping the wheelchair, use one of the following methods to tackle obstacles such as curbs and short stairs.

4.4.1 Tipping to Ascend

Ascending a Curb with a Forward Approach

Fig. 4-5

To ascend a curb or other obstacle while moving forward:

1. Ensure the Invacare Americas are securely fastened and do not turn or slip off.
2. Tilt the wheelchair backward to its balance point and move forward until the front casters pass over the top of the curb.

3. Roll the wheelchair forward and slowly lower the front casters onto the raised surface in one continuous movement.
4. Push the wheelchair forward until the rear wheels roll up and over the curb.
5. Ensure the wheelchair clears the curb and cannot roll backward.

Ascending a Curb with a Backward Approach

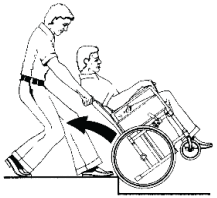


Fig. 4-6

To ascend a curb or other obstacle while moving backward:

1. Ensure the Invacare Americas are securely fastened and do not turn or slip off.
2. Turn around the wheelchair and back up until the rear wheels are against the curb.
3. Tilt the wheelchair backward to its balance point and lift up by the push handles while pulling the wheelchair up and over the curb.
4. Roll the wheelchair backward and slowly lower the front casters onto the raised surface.
5. Ensure the wheelchair clears the curb. DO NOT let the front casters down until the wheelchair clears the curb.

4.4.2 Tipping to Descend

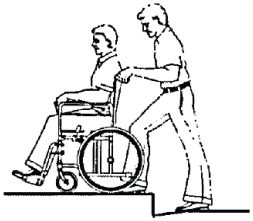


Fig. 4-7

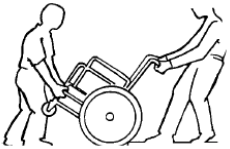


Fig. 4-8

To descend a curb or other obstacle:

1. Ensure the Invacare Americas are securely fastened and do not turn or slip off.
2. Stand behind and turn around the wheelchair.
3. Carefully back down the step.
4. Tightly hold the handgrips and pull the wheelchair back until the rear wheels reach the curb edge, then slowly roll the rear wheels onto the lower level.
5. After the rear wheels are safely on the lower level, tilt the wheelchair back to its balance position and turn it so it faces forward.
6. Carefully lower the front casters by placing one foot on the tipping lever and gradually decreasing the force of exertion.

4.5 Ramps and Inclines

WARNING!
Risk of Injury or Damage
– During descent, the footplate lowest point should be no closer to the ground than 2 1/2 inches to permit proper clearance.

WARNING!
Risk of Injury or Damage
– Do not attempt inclines without anti-tippers installed. Do not attempt any incline or decline of more than 6 degrees (10% grade, or one foot of rise or fall per 10 feet of ramp length).

WARNING!
Risk of Injury or Damage
– Do not use wheel locks to slow your descent. Attempting to use wheel locks is likely to result in accidental locking that could cause the wheelchair to stop abruptly, suddenly pitch forward, or tip sideways.

WARNING!
Risk of Injury or Damage
– Avoid changing direction while descending a ramp or incline, as this could cause instability.

Most people are capable of negotiating short inclines without assistance, depending upon upper body strength, endurance, and the degree of incline. Know your own capabilities and limitations in terms of strength and endurance before attempting to negotiate an incline or decline. Practice with an attendant or healthcare professional first before attempting any inclines, declines, curbs, or ramps. Always inspect the ramp for hazards such as holes or slippery or uneven surfaces before starting up or down. If you cannot see the entire ramp, ask someone to inspect it for you.

4.5.1 Ascent

Lean the upper part of your body slightly forward as you ascend the incline. If it becomes necessary to stop on the incline, avoid any abrupt or sudden forward movement as you resume climbing, as this could cause tipping.

Fig. 4-9

4.5.2 Descent

Always face forward when going down a ramp, but do not lean forward; this could cause tipping. Lean slightly backward to increase stability. It is critical to keep the wheelchair under control at all times. Descent should be made slowly and safely by grasping the handrims; however, use care because friction heat will be generated. The use of gloves to reduce the effects of friction heat is recommended, but going slower is a better alternative.

Fig. 4-10

4.6 Curbs and Steps

Curbs, steps, and stairways are dangerous obstacles that confront wheelchair users. When you encounter curbs, find a way around or use the ramps available in most locations. If you encounter steps and there is no ramp available, avoid the steps by utilizing the disabled designated elevators now required in most locations.

WARNING!
Risk of Injury or Damage
– Never attempt to negotiate steps, stairs, or escalators in your wheelchair.

WARNING!
Risk of Injury or Damage
– Always engage the wheel locks before using an elevator.

4.7 Navigating Stairways

WARNING!
Risk of Injury or Damage
– Extreme caution is advised when it is necessary to move an unoccupied wheelchair up or down the stairs. Invacare recommends using two assistants and making thorough preparations. Use only secure, non-detachable parts for hand-hold supports.
– DO NOT attempt to lift the wheelchair by any removable (detachable) parts. Lifting by means of any removable (detachable) parts of a wheelchair may result in injury to the user or damage to the wheelchair.

Follow the procedures in this section to move the wheelchair between floors when an elevator is NOT available.

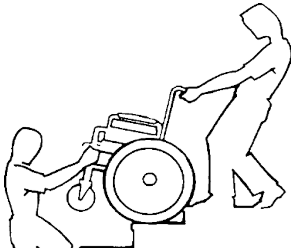


Fig. 4-11

4.7.1 Moving Up Stairs

1. Remove the occupant from the wheelchair.
2. If necessary, rotate the anti-tippers so the wheels are facing up.
3. Do the following:
    - Assistant 1:
        A. Position yourself behind the wheelchair.
        B. Securely grasp a non-removable (non-detachable) part of the wheelchair for leverage.
        C. Tilts the wheelchair back to the balance point.
        D. Back the wheelchair against the first step.
    - Assistant 2:
        A. Position yourself in the front of the wheelchair.
        B. Securely grasp a non-removable (non-detachable) part of the framework.
        C. Lift the wheelchair up and onto the next stair above and steady the wheelchair.
4. Assistant 1: Place one foot on the stair above.
5. Do the following until the top stair is reached:
    - Assistant 1: Repeat step 3 substep D and step 4.
    - Assistant 2: Repeat step 3 substep C.

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

6. If necessary, rotate the anti-tippers so the wheels are facing down.

4.7.2 Moving Down Stairs

1. Remove the occupant from the wheelchair.
2. If necessary, rotate the anti-tippers so the wheels are facing up.
3. Do the following:
   - Assistant 1:
     A. Position yourself behind the wheelchair.
     B. Securely grasp a non-removable (non-detachable) part of the wheelchair for leverage.
     C. Tilt the wheelchair back to the balance point.
     D. Roll the wheelchair to the edge of the first step.
   - Assistant 2:
     A. Position yourself in front of the wheelchair.
     B. Securely grasp a non-detachable part of the framework.
     C. Lower the wheelchair to the next stair below and steady the wheelchair.
4. Assistant 1: Place one foot on the stair below.
5. Do the following until the bottom stair is reached:

- Assistant 1: Repeat step 3 substep D and step 4.
- Assistant 2: Repeat step 3 substep C.

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

6. If necessary, rotate the anti-tippers so the wheels are facing down.

4.7.3 Using Escalators

WARNING!
Risk of Serious Injury
– DO NOT use an escalator to move a wheelchair between floors. Serious bodily injury may occur.

4.8 Transferring To and From Other Seats

WARNING!
Risk of Injury or Damage
Always ensure the wheelchair is on a stable, level surface and engage the wheel locks before transferring to or from another seat.

WARNING!
Risk of Injury or Damage
Before attempting to transfer in or out of the wheelchair, every precaution should be taken to reduce the distance between the items you are transferring to and from.
– Turn both casters parallel to the object you are transferring onto. Also be certain the wheel locks are engaged to help prevent the wheels from moving.

WARNING!
Risk of Injury or Damage
Do not step on the footplates; this could cause the wheelchair to tip.
– Fold the footplates, detach them, or swing them aside.

CAUTION!
Risk of Injury or Damage
When transferring, position yourself as far back as possible in the seat to help prevent damaged upholstery and the possibility of the wheelchair tipping forward.

This activity may be performed independently provided the user has adequate mobility and upper body strength.

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

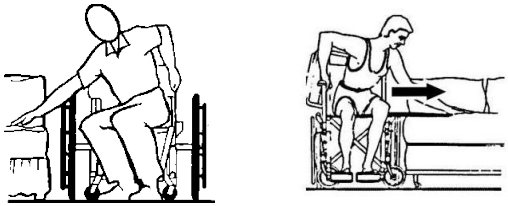


Fig. 4-12

4.9 Transporting the Wheelchair in a Motor Vehicle

When transporting the wheelchair in a motor vehicle, do not place the wheelchair where it will interfere with the safe operation of the vehicle or endanger the driver or passengers.

The front seat IS NOT a good location to store a wheelchair during transport because it can be dislodged and become a serious hazard to the driver.
Always take precautions to avoid personal injury when loading or lifting a wheelchair into or out of a vehicle.

4.9.1 Transporting the Wheelchair in the Rear Seat

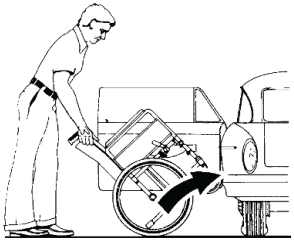


Fig. 4-13

1. Move the front seat as far forward as possible.
2. Fold the wheelchair. See *5.4 Unfolding and Folding the Wheelchair, page 43*.
3. Place the wheelchair so it faces the open vehicle door.
4. Tilt the wheelchair backward and roll it forward on the rear wheels until the casters are in the car.
5. Tilt the wheelchair away from the back of the front seat, then lower the casters to the floorboard.
6. Simultaneously lift and roll the chair into the car.

WARNING!
Risk of Injury or Damage
Ensure the wheelchair is stable and will not shift while the car is in motion.

WARNING!
Risk of Injury or Damage
Ensure the wheelchair does not block the driver’s field of vision.

4.9.2 Transporting the Wheelchair in the Trunk

1. Fold the wheelchair. See *5.4 Unfolding and Folding the Wheelchair, page 43*.
2. Engage the wheel locks. See *5.2 Using the Wheel Locks, page 40*.
3. Grasp the front of the frame and rear of the wheels, carefully lift the wheelchair, and place it in the trunk.

   Use good body mechanics to avoid injury.

   WARNING!
   Risk of Damage
   DO NOT place anything on top of the wheelchair before closing the trunk to avoid the risk of damage to the wheelchair.

4. Carefully close the trunk lid.

5 Setup and Operation

Because the product is fully assembled by the manufacturer, only a few setup tasks may be necessary. If you need to reinstall a part for some reason, refer to *8 Service, page 56*.

5.1 Adjusting the Elevating Legrest Assembly

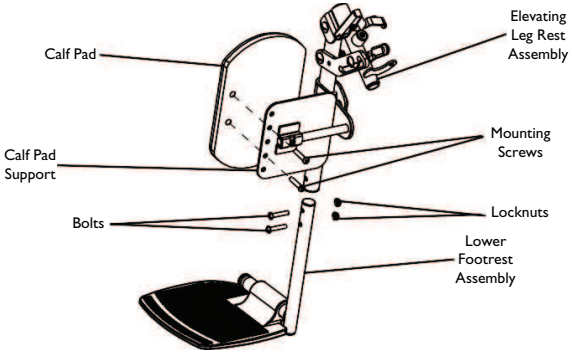


Fig. 5-1

5.2 Using the Wheel Locks

The wheelchair has one wheel lock on each of the fixed rear wheels.

WARNING!
Risk of Injury or Damage
– DO NOT attempt to stop a moving wheelchair with wheel locks. Wheel locks are not brakes.
– If the wheelchair is equipped with push-to-lock wheel locks, elevating legrests, and wheel lock extension handles, the wheel lock extension handles MUST be removed before swinging the elevating legrests to the side; otherwise, injury or damage may result. Interference between the top of the elevating legrest and the wheel lock extension handle may cause the wheel lock to disengage.

5.2.1 Using the Wheel Locks

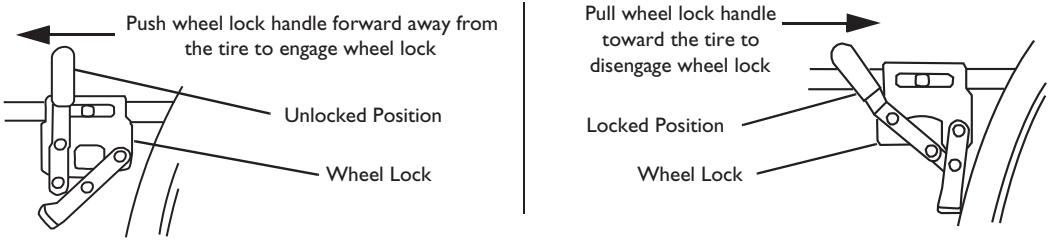


Fig. 5-2

1. Position the wheelchair on a flat, level surface.
2. Ensure the wheelchair is not moving before engaging the wheel locks.
3. To engage the wheel locks, push the wheel lock handle forward.
4. To disengage the wheel locks, pull back the wheel lock handle.

5.3 Rotating the Arm

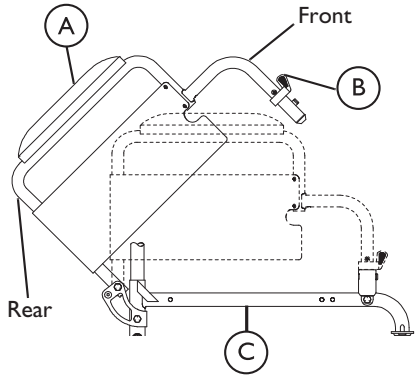


Fig. 5-3

1. Unlock the arm Ⓐ by rotating the armrest release lever Ⓑ toward the outside of the wheelchair.
2. Pull the front of the arm Ⓐ straight up and out of the arm socket Ⓒ and toward the rear of the wheelchair.
3. To return the arm Ⓐ, push the arm Ⓐ toward the front of the wheelchair and downward into the arm socket Ⓒ.
4. Lock the arm Ⓐ in place by rotating the armrest release lever Ⓑ toward the inside of the wheelchair.

5.4 Unfolding and Folding the Wheelchair

WARNING!
Risk of Injury or Damage
The wheelchair does not offer seating or occupant restraint equivalent to the seat provided in a motor vehicle.
– When traveling in a motor vehicle, always transfer to the vehicle seat and use the restraint provided by the vehicle manufacturer.

WARNING!
Risk of Injury or Damage
ALWAYS keep hands and fingers clear of moving parts to avoid injury.
– DO NOT sit or transfer into the wheelchair unless it is fully open and the seat rails are fully seated.

WARNING!
Risk of Injury or Damage
Do not lift the wheelchair by the arms, footrests, legrests, or any other detachable parts.

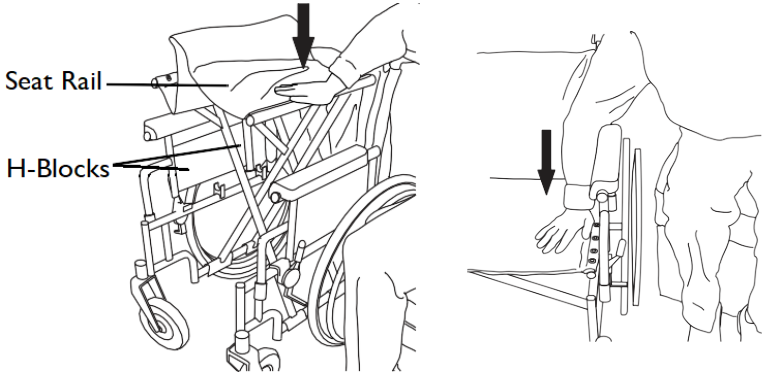
5.4.1 Unfolding the Wheelchair

1. Tilt the wheelchair toward you (raising the opposite wheel and caster off the ground/floor).
2. Place your hand on the top of the seat rail closest to you where the seat upholstery is attached.
3. Point your fingers and thumb to the inside of the wheelchair.

   DO NOT wrap your thumb or fingers under the seat rail. Point your fingers and thumb to the inside of the wheelchair.

4. Press downward on the top of the seat rail until the wheelchair is fully open and the seat rails are fully seated in the H-blocks.

   Press down on the seat rail and the seat upholstery with the entire hand. DO NOT place any part of the hand under the seat rail.



5. Engage both wheel locks, open the footrest/legrest for clearance, and transfer into the wheelchair. Refer to *4.8 Transferring To and From Other Seats, page 36*.

5.4.2 Folding the Wheelchair

1. Swing the footrest or legrest in the locked position to the front of the wheelchair.
2. Pivot the footplates upward to the vertical position.

3. With both hands, grasp the middle of the seat upholstery at the front and back edge and lift up.

CAUTION!
Risk of Injury
– DO NOT allow upholstery to hang between the cross braces.

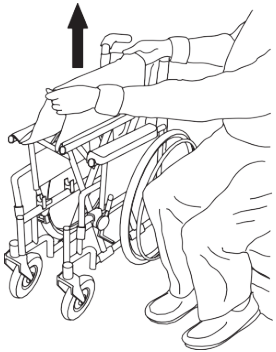


Fig. 5-4

4. Place excess seat upholstery over the armrest.

6 Accessories

WARNING!
Risk of Injury or Damage
– After any adjustments, repair, or service and before use, make sure all attaching hardware is securely tightened. Otherwise, injury or damage may occur.

6.1 Installing the Seat Positioning Strap

WARNING!
Risk of Injury or Damage
– ALWAYS wear the positioning strap. Inasmuch as the seat positioning strap is an option on this wheelchair, Invacare strongly recommends ordering the seat positioning strap as an additional safeguard for the wheelchair user.

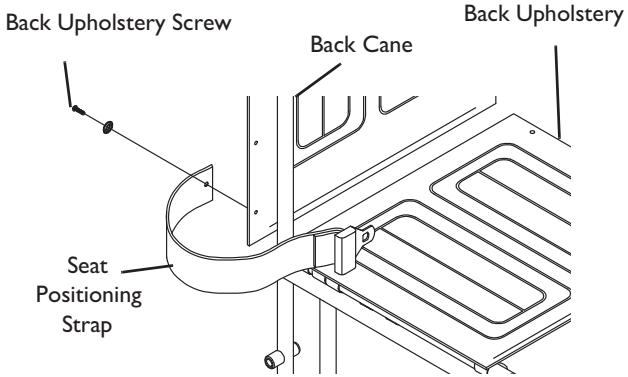


Fig. 6-1

1. Remove the bottom back upholstery screw from the wheelchair.
2. Position the seat positioning strap half between the back cane and back upholstery.
3. Secure the back upholstery and seat positioning strap to the wheelchair with the existing back upholstery screw.
4. Repeat steps 1-3 for the opposite side of the wheelchair.

6.2 Installing the Wheel Lock Extension Handle

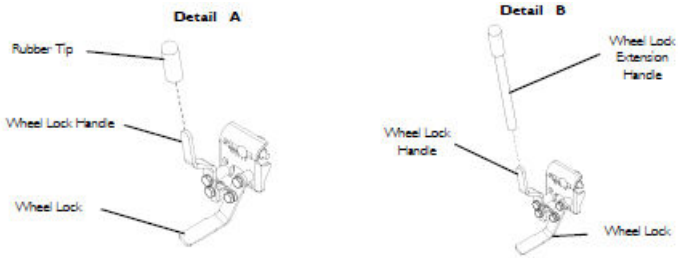


Fig. 6-2

1. Remove the existing rubber tip from the wheel lock handle (Detail A).
2. Install the extension handle over the wheel lock handle (Detail B).

7 Maintenance

7.1 Maintenance

7.1.1 Maintenance Safety Precautions

WARNING!
Risk of Injury or Damage
– After any adjustments, repair or service and before use, make sure all attaching hardware is tightened securely. Otherwise, injury or damage may result.
– Replace any labels that are missing, worn, or torn. Refer to *3.1 Labels on the Product, page 12* for a listing of the labels and their locations.

CAUTION!
Risk of Damage
– DO NOT overtighten hardware attaching to the frame. This could cause damage to the frame tubing.

1. Before using the wheelchair, make sure all nuts and bolts are tight.
2. Check all parts for damage or wear and replace if necessary.
3. Check all parts for proper adjustment.

4. Perform periodic checks of the rear wheels, casters, and tires for cracks and wear. Contact a qualified technician to replace them if they are damaged.

CAUTION!
Risk of Damage
– As with any vehicle, periodically check the wheels and tires for cracks and wear. Replace them if they are damaged. Refer to *7.1.2 Replacing or Repairing the Rear Wheel Tire or Tube, page 50* and *7.1.3 Replacing or Repairing the Caster Tire or Tube, page 50*.

Signs of excessive tire wear vary depending on the tire type.

- Urethane tires
  - Cuts or surface defects
  - Tires are loose on the rims

Invacare recommends that tires and casters be replaced every five years.

5. Perform periodic wheel lock adjustments in correlation to tire wear. Refer to *5.2 Using the Wheel Locks, page 40*.
6. Perform periodic handrim checks to ensure they are securely attached to the rear wheels.
7. Perform periodic caster wheel bearing checks to ensure they are clean and free from moisture. Use a Teflon® lubricant if necessary.
8. Check the upholstery for sagging, rips, or tears.
9. Clean the upholstery with mild soap and water.
10. Replace any labels that are missing, worn, or torn. Refer to *3.1 Labels on the Product, page 12* for a listing of labels and their locations.

11. Perform monthly Invacare America checks for wear, looseness, or deterioration. Replace the Invacare Americas if looseness or deterioration is found. Clean the Invacare Americas if necessary.

> ⚠ **WARNING!**
> **Risk of Injury or Damage**
> – When cleaning the rear cane or Invacare America areas, use only a clean towel lightly dampened with cool water. Use of soap or ammonia-based cleaning solutions will result in the Invacare Americas sliding off the cane assembly. Verify the grips are dry prior to use.
> – Failure to observe this warning may result in injury to the user or bystanders.

7.1.2 Replacing or Repairing the Rear Wheel Tire or Tube

> ⚠ **WARNING!**
> **Risk of Injury or Damage**
> – Replacement of solid urethane tires is not recommended. If a solid urethane tire needs repaired, Invacare recommends replacing the complete wheel assembly.
> – Replacement of the rear wheel tube must be performed by a qualified technician.

7.1.3 Replacing or Repairing the Caster Tire or Tube

> ⚠ **WARNING!**
> **Risk of Injury or Damage**
> – Replacement of solid urethane, rubber, or semi-pneumatic tires is not recommended. If a solid urethane, rubber, or semi-pneumatic tire needs replaced, Invacare recommends replacing the complete caster assembly.

Protect the wheelchair by scheduling regular services. Proper care and maintenance are essential to keep the wheelchair in safe working condition. Periodic inspection, adjustment, and replacement of worn parts will provide many years of superb performance. When you believe a component or part of the wheelchair is not functioning properly, immediately contact the provider as a potentially hazardous condition could result. Only excellent condition is acceptable where safety is concerned.

7.2 Safety Inspection Checklists

Initial adjustments should be made to suit your personal body structure and preference. Thereafter, follow the maintenance procedures in this section.

7.2.1 Initial Inspection and Adjustment

- ☐ Ensure the wheelchair rolls straight with no excessive dragging or pulling to one side.
- ☐ Inspect for loose or missing hardware on the frame and cross braces.
- ☐ Inspect for a bent frame or cross braces.
- ☐ Ensure the wheel locks do not interfere with the tires when rolling.
- ☐ Ensure the wheel lock pivot points are free of wear and looseness.
- ☐ Ensure the wheel locks are easy to engage.
- ☐ Ensure the wheel locks prevent the wheelchair from moving when they are engaged.
- ☐ Inspect the seat and back for rips and sagging.
- ☐ Ensure the warning label on the seat is not damaged or missing.
- ☐ Inspect the seat and back for loose or broken hardware.
- ☐ Inspect the back cane Invacare Americas for wear, looseness, and deterioration.
- ☐ Inspect the seat-positioning strap for signs of wear. Ensure the buckle latches. Verify the hardware that attaches the strap to the frame is secure and undamaged. Replace the strap if necessary.

- ☐ Inspect the tires for flat spots and wear.

> ⚠ **CAUTION!**
> **Risk of Injury**
> – As with any vehicle, periodically check the wheels and tires for cracks and wear. Replace them if they are damaged.

- ☐ Check pneumatic tires for proper inflation.
- ☐ If equipped, ensure the quick-release axles properly lock. Lubricate as necessary.
- ☐ Ensure there is no excessive side movement or binding in the rear wheels when lifted and spun.
- ☐ Inspect the rear wheels for cracked, broken, or loose spokes.
- ☐ Ensure all spokes are uniformly tight.
- ☐ Inspect the handrims for signs of rough edges or peeling.
- ☐ Inspect the axle assembly for proper tension by spinning the caster. Note the caster should come to a gradual stop.
- ☐ Adjust the front casters or forks bearing the system if the wheel noticeably wobbles or binds to a stop.
- ☐ Ensure the wheel bearings are clean and free of moisture.
- ☐ Check the head tube locknuts for tightness.
- ☐ Inspect the casters for cracks and wear.
- ☐ Inspect the front casters for cracked, bent, or broken spokes.
- ☐ Ensure the casters are free of debris.

- ☐ Clean the upholstery and the armrests.

> ⚠ **CAUTION!**
> **Risk of Damage**
> – Clean the upholstery with mild soap and water or spray disinfectant using a sponge. DO NOT use bleach or wash the upholstery in a washing machine.

- ☐ Ensure all labels are present and legible. Replace them if necessary.

7.2.2 Weekly Inspections and Adjustments

- ☐ Ensure the wheel locks prevent the wheelchair from moving when they are engaged.
- ☐ Inspect the tires for flat spots and wear.
- ☐ Check pneumatic tires for proper inflation.
- ☐ If equipped, ensure the quick-release axles properly lock. Lubricate them as necessary.
- ☐ Inspect the rear wheels for cracked, broken, or loose spokes.
- ☐ Ensure all spokes are uniformly tight.
- ☐ Inspect the axle assembly for proper tension by spinning the caster. Note the caster should come to a gradual stop.
- ☐ Inspect the front casters for cracked, bent, or broken spokes.
- ☐ Ensure the casters are free of debris.

7.2.3 Monthly Inspections and Adjustments

- ☐ Ensure the wheelchair rolls straight with no excessive dragging or pulling to one side.
- ☐ Ensure the wheel locks do not interfere with the tires when rolling.

- ☐ Ensure the wheel lock pivot points are free of wear and looseness.
- ☐ Inspect the seat and back for loose or broken hardware.
- ☐ Inspect the cane Invacare Americas for wear, looseness, or deterioration.
- ☐ Inspect the seat-positioning strap for signs of wear. Ensure the buckle latches. Verify the hardware that attaches the strap to the frame is secure and undamaged. Replace the strap if necessary.
- ☐ Adjust the front casters or forks bearing the system if the wheel noticeably wobbles or binds to a stop.
- ☐ Ensure the wheel bearings are clean and free of moisture.
- ☐ Check the head tube locknuts for tightness.

7.2.4 Periodic Inspection and Maintenance

- ☐ Ensure the wheelchair rolls straight with no excessive dragging or pulling to one side.
- ☐ Inspect for loose or missing hardware on the frame and cross braces.
- ☐ Inspect for a bent frame or cross braces.
- ☐ Ensure the wheel locks are easy to engage.
- ☐ Ensure the casters are free of debris.
- ☐ Inspect the casters for cracks and wear.
- ☐ Inspect the seat and back for rips and sagging.
- ☐ Ensure the warning label on the seat is not damaged or missing.
- ☐ Ensure there is no excessive side movement or binding in the rear wheels when lifted and spun.
- ☐ Inspect the handrims for signs of rough edges or peeling.

- ☐ Adjust the front casters or forks bearing the system if the wheel noticeably wobbles or binds to a stop.
- ☐ Ensure the wheel bearings are clean and free of moisture.
- ☐ Clean the upholstery and the armrests with mild soap and water.
- ☐ Ensure all labels are present and legible. Replace them if necessary.

8 Service

Because the product is fully assembled by the manufacturer, refer to this section to reinstall certain components. If you are not comfortable or do not have the appropriate tools to service the product, contact your provider or a qualified technician.

WARNING!
Risk of Injury or Damage
– After any adjustments, repair, or service and before use, make sure all attaching hardware is securely tightened. Otherwise, injury or damage may occur.

8.1 Removing and Installing the Armrests

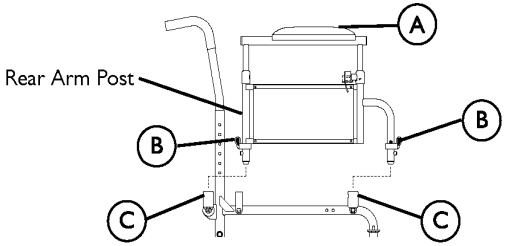


Fig. 8-1

8.1.1 Removing the Armrests

1. Unlock the armrest Ⓐ by turning the armrest release levers Ⓑ toward the outside of the wheelchair.
2. Lift the armrest Ⓐ completely out of the arm sockets Ⓒ.
3. Repeat steps 1-2 for the other armrest.

8.1.2 Installing the Armrests

The armrest release levers Ⓑ MUST be in the unlocked position when placing the armrest Ⓐ into the arm sockets Ⓒ.

1. Place the armrest Ⓐ into the arm sockets Ⓒ located on the side of the wheelchair.
2. Lock the armrest Ⓐ by turning the armrest release levers Ⓑ toward the inside of the wheelchair.
3. Repeat steps 1-2 for the other armrest.

8.2 Installing or Removing the Elevating Legrest Assembly

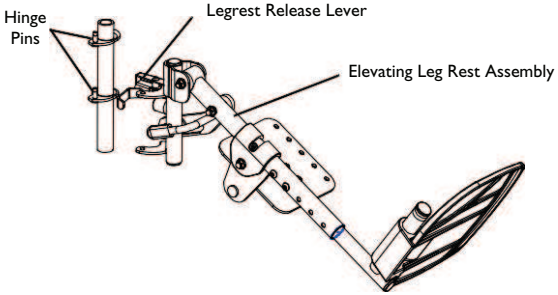


Fig. 8-2

8.2.1 Installing the Elevating Legrest Assembly

1. Place the elevating legrest assembly on the outside of the wheelchair and install the hinge plates onto the hinge pins on the wheelchair frame.
2. Rotate the elevating legrest assembly toward the inside of the wheelchair until it locks in place.

3. Repeat steps 1-2 for the other legrest assembly.

   The footplates will face each other when they are locked in place.

4. While sitting in the wheelchair, adjust the legrest to the correct height. Refer to *5.1 Adjusting the Elevating Legrest Assembly, page 40*.

8.2.2 Removing the Elevating Legrest Assembly

1. Ensure the elevating legrest is in the lowered position. Refer to *5.1 Adjusting the Elevating Legrest Assembly, page 40*.
2. To release the elevating legrest assembly:
   A. Push the legrest release handle toward the inside of the wheelchair (facing the front of the wheelchair).
   B. Swing the legrest assembly to the outside of the wheelchair.

8.3 Installing or Replacing the Front Casters and Forks

This procedure can be performed if replacing the exact same size front caster.

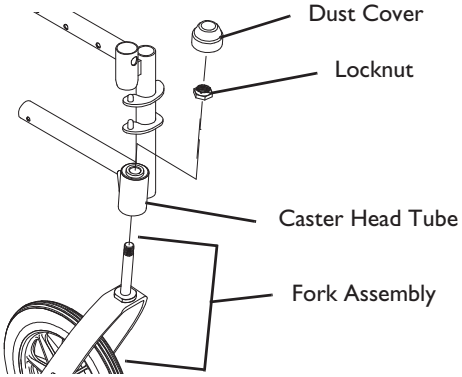


Fig. 8-3

1. Remove the dust cover.
2. Remove the locknutthat secures the fork to the caster head tube.
3. Drop the fork assembly out of the caster head tube.
4. Slide the new fork assembly into the caster head tube.
5. Reverse steps 1-3 to reassemble.
6. Repeat steps 1-5 for the other front caster.
7. To adjust the forks by properly tightening the caster journal system to guard against flutter:
    A. Tip the back of the wheelchair to the floor.
    B. Simultaneously pivot both forks and casters to the top of their arcs.

C. Let the casters drop to the bottom of their arcs (wheels should swing once to one side and then immediately rest in a straight downward position).
D. Adjust the locknuts according to the freedom of the caster swing.
E. Repeat steps C and D until the wheels swing once to one side and then immediately rest in a downward position.

8. Test the wheelchair for maneuverability.
9. Readjust the locknuts if necessary.
10. Repeat steps 7-9 until the maneuverability is correct.
11. Snap the dust cover over the locknut and stem.

8.4 Replacing the Front Casters

If replacing the same size front caster, note the mounting position on the fork assembly for proper reinstallation of the new front caster.

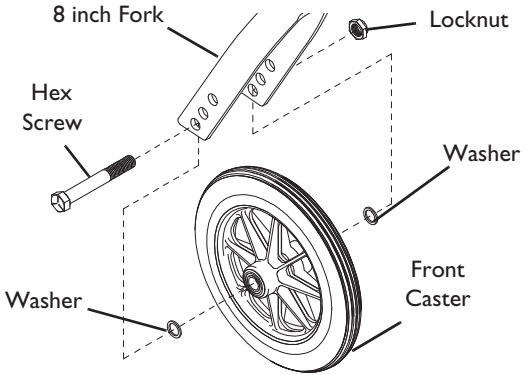


Fig. 8-4

1. Remove the hex screw, washers and locknut that secure the front caster to the fork.
2. To reinstall the new front caster onto the fork, reverse step 1.
3. Repeat steps 1 and 2 for the other caster.

8.5 Removing and Installing the Rear Wheels

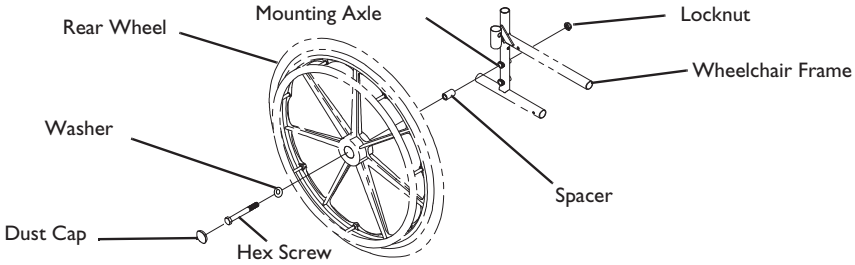


Fig. 8-5

1. Remove the dust cap, hex screw, washer, spacer, and locknut that secure the rear wheel to the wheelchair.
2. Repeat step 1 for the other rear wheel.
3. To reinstall the rear wheel onto the wheelchair, reverse steps 1 and 2 and torque the locknut to 40 ft-lb.
4. Adjust the wheel locks. Refer to *5.2 Using the Wheel Locks, page 40*.

8.6 Replacing the Rear Wheel Handrim

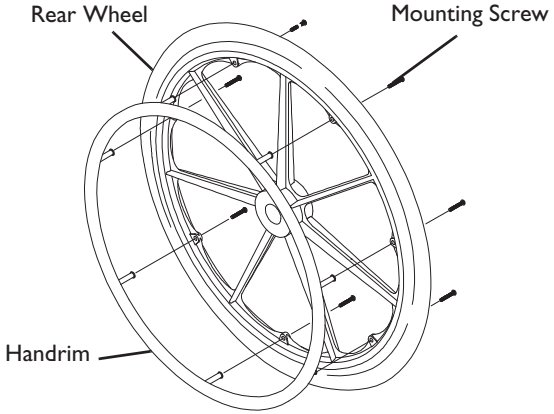


Fig. 8-6

1. Remove the dust cap, hex screw, washer, spacer, and locknut that secure the rear wheel to the wheelchair.
2. Repeat step 1 for the other rear wheel.
3. To reinstall the rear wheel onto the wheelchair, reverse steps 1 and 2 and torque the locknut to 40 ft-lb.
4. Adjust the wheel locks. Refer to *5.2 Using the Wheel Locks, page 40*.

8.7 Installing and Adjusting the Anti-Tippers

WARNING!
Risk of Injury or Damage
– Invacare strongly recommends that anti-tippers be used at all times.
– Anti-tippers MUST be fully engaged and release buttons fully protruding out of the adjustment holes.
– Ensure both anti-tippers are adjusted to the same mounting hole.
– Note the manual wheelchair is intended for indoor and outdoor use on firm surfaces. When outdoors on wet, soft ground or on gravel surfaces, anti-tippers may not provide the same level of protection against tip-over. DO NOT operate on soft surfaces such as sand, grass, or gravel.

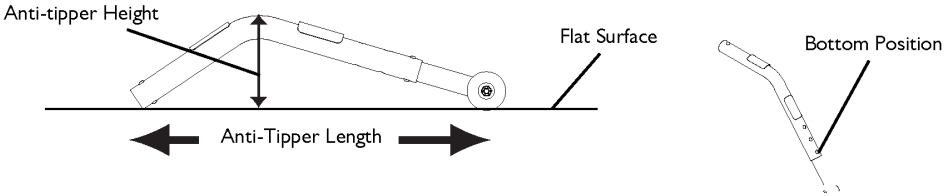


Fig. 8-7

8.7.1 Installing the Anti-tippers

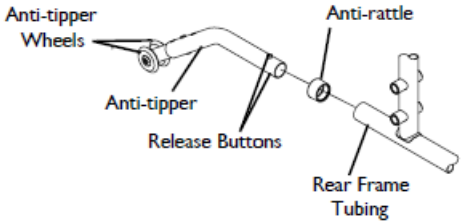


Fig. 8-8

1. Press the release buttons and insert the anti-tippers with the anti-tipper wheels pointing toward the ground or floor into the wheelchair frame tubing.
2. Ensure the anti-tipper release button fully protrudes out of the hole in the bottom of the wheelchair frame tubing.
3. Place the wheelchair on a flat surface.
4. Measure the distance between the bottom of the anti-tipper wheels and the ground or floor.
5. If the distance between the bottom of anti-tipper wheels and the ground or floor is not 1 ½ to 2 inches, adjust the anti-tippers. Refer to *8.7.2 Adjusting the Anti-tippers, page 66*.

   A 1½- to 2-inch clearance between the bottom of the anti-tipper wheels and the ground or floor MUST be maintained at all times.

8.7.2 Adjusting the Anti-tippers

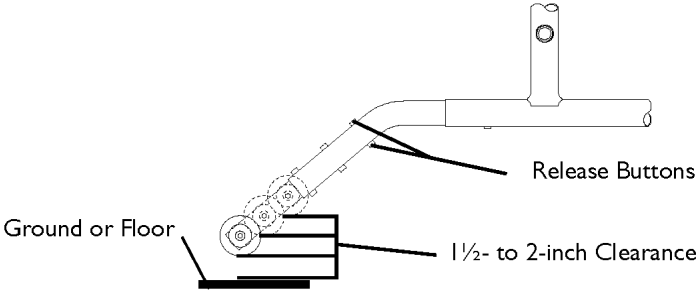


Fig. 8-9

A 1½- to 2-inch clearance between the bottom of the anti-tipper wheels and the ground or floor MUST be maintained at all times.

1. Place the wheelchair on a flat surface.
2. Press the release buttons on the wheeled portion of the anti-tipper and slide it up or down to the desired adjustment hole.
3. Ensure the release buttons are fully engaged in the adjustment holes.
4. Measure the distance between the bottom of the anti-tipper wheels and the ground or floor.
5. If the distance between the bottom of anti-tipper wheels and the ground or floor is not 1 ½ to 2 inches, repeat steps 2-5 until the distance measures 1 ½ to 2 inches.

   If the 1½- to 2-inch distance cannot be achieved with the anti-tippers, a different model may be required. Contact an Invacare dealer or a qualified technician.

8.8 Adjusting the Wheel Locks

The wheelchair has one wheel lock on each of the fixed rear wheels.

WARNING!
Risk of Injury or Damage
– DO NOT attempt to stop a moving wheelchair with wheel locks. Wheel locks are not brakes.
– If the wheelchair is equipped with push-to-lock wheel locks, elevating legrests, and wheel lock extension handles, the wheel lock extension handles MUST be removed before swinging the elevating legrests to the side; otherwise, injury or damage may result. Interference between the top of the elevating legrest and the wheel lock extension handle may cause the wheel lock to disengage.

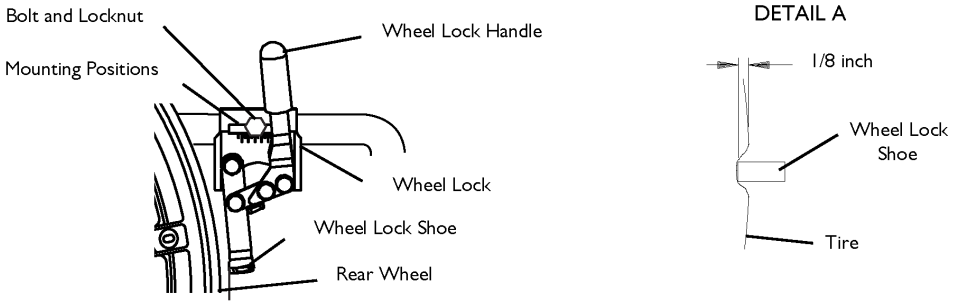


Fig. 8-10

1. Ensure the wheel lock is in the unlocked position.
2. Loosen the bolt and locknut that secure the wheel lock assembly to the wheelchair frame.
3. Reposition the wheel lock so that when engaged, the wheel lock shoe embeds the tire 1/8 inch and holds the wheelchair.

4. Securely tighten the bolt and locknut securing the wheel lock to the wheelchair frame.
5. Engage the wheel lock.
6. Measure the distance the wheel lock is embedded into the tire as shown in Detail A.
7. Repeat steps 1-6 until the wheel lock shoe embeds the tire 1/8 inch and holds the wheelchair.

   Ensure the adjusted wheel lock is embedded in the wheel lock shoe at least 1/8 inch into the tire when engaged.

8. Repeat steps 1-7 for the opposite wheel lock.
9. Engage both wheel locks and ensure the occupied wheelchair stays in place when pushed.

WARNING!
Risk of Injury or Damage
– If the wheel locks DO NOT hold the occupied wheelchair in place, contact a qualified technician; otherwise, injury or damage may occur.

9 Troubleshooting

Continual use of your Invacare wheelchair requires maintenance, especially if the factory adjustments are altered. The information in this section lists several common problems that may occur and offers corrective actions for each.

If you are unsure of the solution or are unable to diagnose the problem, contact your Invacare provider.

Wheelchair Symptoms						Caster Symptoms	Probable Solutions
Feels loose	Squeaks or rattles	Turns or performs sluggishly	Veers left	Veers right	Rolls on three wheels	Flutters	
X	X	X				X	Check for loose nuts and bolts.
			X	X	X		Ensure the rear wheels are equally spaced away from seat frame.

WARNING!
Risk of Death, Serious Injury, or Damage
Use only Invacare replacement parts.

CAUTION!
Risk of Injury or Damage
A complete inspection of your wheelchair, including maintenance, service, and safety checks, should be performed by your Invacare provider at least every six months.

WARNING!
Risk of Death, Serious Injury, or Damage
Unauthorized modification or the use of non-Invacare replacement parts could change the structure of the wheelchair, void the warranty, and create a hazardous condition that could result in serious personal injury.

10 Warranty

10.1 Limited Warranty

PLEASE NOTE: THE WARRANTY BELOW HAS BEEN DRAFTED TO COMPLY WITH FEDERAL LAW APPLICABLE TO PRODUCTS MANUFACTURED AFTER JULY 4, 1975.

This warranty is extended only to the original purchaser who purchases this product when new and unused from Invacare or a dealer. This warranty is not extended to any other person or entity and is not transferable or assignable to any subsequent purchaser or owner. Coverage under this warranty will end upon any such subsequent sale or other transfer of title to any other person.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

Invacare warrants the mechanical and electrical components of this product when purchased new and unused to be free from defects in materials and workmanship for a period of one year from date of purchase from Invacare or a dealer, with a copy of the seller’s invoice required for coverage under this warranty.

Invacare warrants this product when purchased new and unused to be free from defects in materials and workmanship for a period of one year from date of purchase from Invacare or a dealer, with a copy of the seller’s invoice required for coverage under this warranty. If within such warranty periods any such product shall be proven to be defective, such product shall be repaired or replaced, at Invacare's option. This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product. Invacare's 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 Invacare product. In the event you do not receive satisfactory warranty service, please write directly to Invacare at the address on the back cover, provide dealer's name, address, and the 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, PRODUCTS MODIFIED WITHOUT INVACARE'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 INVACARE, OR TO A PRODUCT DAMAGED BY CIRCUMSTANCES BEYOND INVACARE'S CONTROL, AND SUCH EVALUATION WILL BE SOLELY DETERMINED BY INVACARE. THE WARRANTY SHALL NOT APPLY TO NORMAL WEAR AND TEAR OR FAILURE TO ADHERE TO THE PRODUCT INSTRUCTIONS.

THE WARRANTY DOES NOT EXTEND TO NON-DURABLE COMPONENTS , SUCH AS RUBBER ACCESSORIES AND CASTERS, WHICH ARE SUBJECT TO NORMAL WEAR AND REQUIRE PERIODIC REPLACEMENT.

THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES WHATSOEVER, WHETHER 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 APPLICATION OF ANY IMPLIED WARRANTY WHATSOEVER SHALL NOT EXTEND BEYOND THE DURATION OF THE EXPRESS WARRANTY PROVIDED HEREIN. INVACARE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER.

Some states do not allow the exclusion or limitation of incidental or consequential damage, or limitation of how long an implied warranty lasts, so the above exclusion and limitation may not be applicable.

THIS WARRANTY SHALL BE EXTENDED TO COMPLY WITH STATE/PROVINCIAL LAWS AND REQUIREMENTS.

Notes

Notes

Notes

Contact Information

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