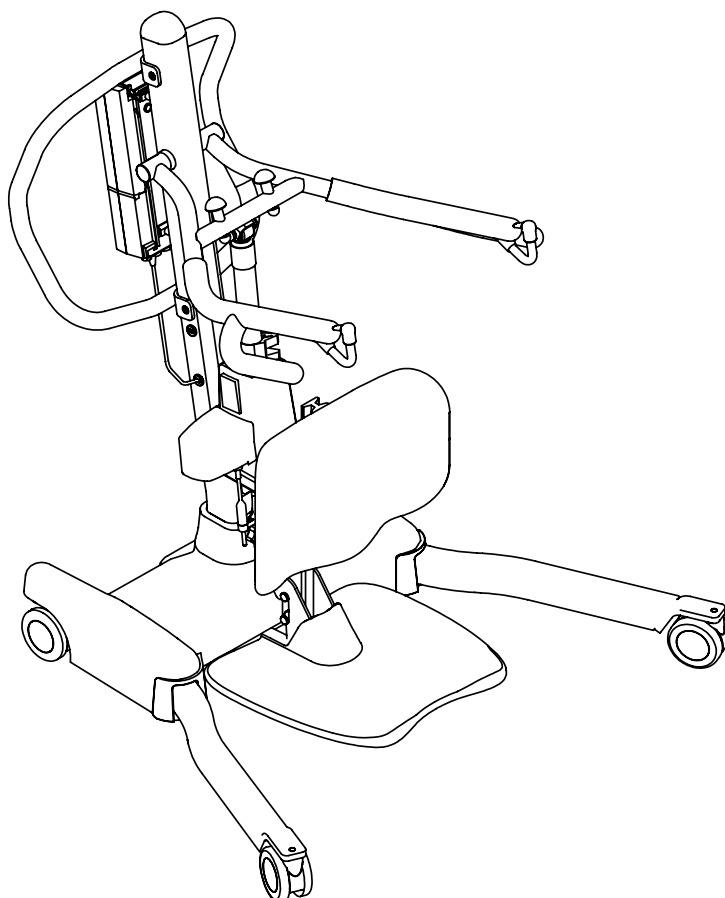


# **Roze™ Stand Up Patient Lift**



**DEALER:** This manual **MUST** be given to the user of the patient lift.

**USER:** BEFORE using this patient lift, read this manual and save for future reference.

For more information regarding  
Invacare products, parts, and services,  
please visit [www.invacare.com](http://www.invacare.com)



***Yes, you can.®***

## **WARNING**

**DO NOT OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING THIS MANUAL. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS AND INSTRUCTIONS CONTACT A QUALIFIED DEALER OR INVACARE TECHNICAL SUPPORT BEFORE ATTEMPTING TO USE THIS EQUIPMENT - OTHERWISE INJURY OR DAMAGE MAY RESULT.**

---

## **ACCESSORIES WARNING**

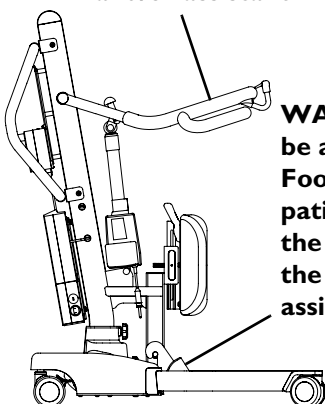
Invacare products are specifically designed and manufactured for use in conjunction with Invacare accessories. Accessories designed by other manufacturers have not been tested by Invacare and are not recommended for use with Invacare products.

---

# **SYMBOL LEGEND**

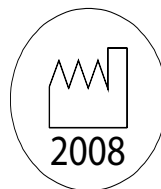


**"ATTENTION, see instructions for use".**



**WARNING - ALWAYS** be aware of the Lift Arms. Injury to the patient and/or assistant may occur.

**WARNING - ALWAYS** be aware of the Footrest, especially the patient's position on the footrest. Injury to the patient and/or assistant may occur.



**"Date of Manufacture"**

**Device contains Lead Acid batteries. DO NOT** dispose of batteries in normal household waste. They **MUST** be taken to a proper disposal site.

**Contact your local waste management company for information.**



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## REGISTER YOUR PRODUCT

The benefits of registering include:

1. Safeguarding your investment.
2. Ensuring long-term maintenance and servicing of your product.
3. Receiving updates with product information, maintenance tips and industry news.

**Register ONLINE at [warranty.invacare.com](http://warranty.invacare.com)**

Please have your model number and purchase date available to complete your registration.

Any registration information you submit will only be used by Invacare Corporation and protected as required by applicable laws and regulations.

## SPECIAL NOTES

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

SIGNAL WORD	MEANING
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 property damage or minor injury or both.

### NOTICE

**THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.**

### RADIO FREQUENCY INTERFERENCE

Most electronic equipment is influenced by Radio Frequency Interference (RFI).


**CAUTION** should be exercised with regard to the use of portable communication equipment in the area around such equipment. If RFI causes erratic behavior, **PUSH** the **RED** Emergency Stop Button **IMMEDIATELY**. **DO NOT** turn the Red Emergency Stop Button **OFF** while transmission is in progress.

### MAINTENANCE

Maintenance **MUST** be performed **ONLY** by qualified personnel.

# LABEL LOCATION

**⚠ WARNING**

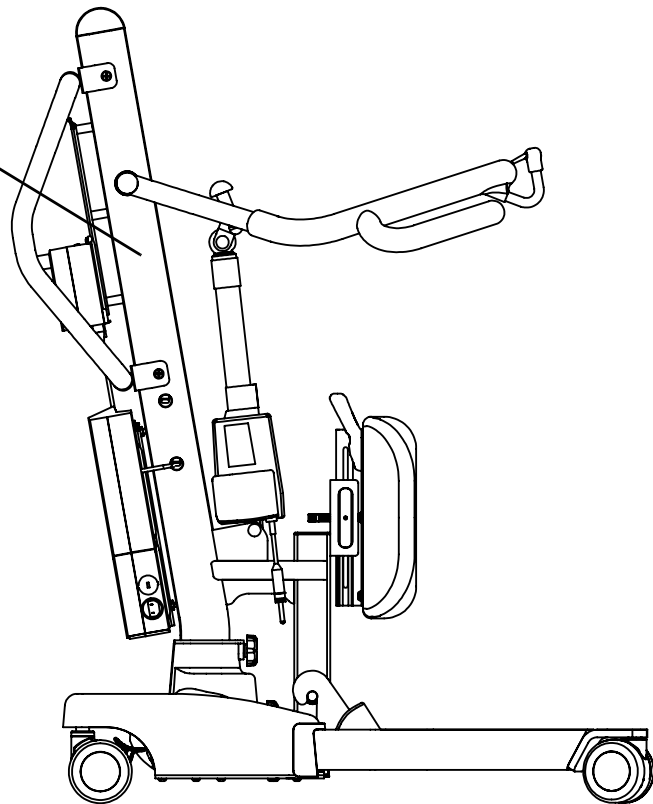


**BEFORE** using the Patient Lift, **READ** and **UNDERSTAND** the Owner's Manual for proper operation and safety procedures.

**⚠ WARNING**

**WEIGHT LIMITATION 450 lbs.**  
 The Invacare Patient Lift is **NOT** a transport device. Moving a person suspended in a sling over **ANY** distance is **NOT RECOMMENDED**.  
**DO NOT** roll casterbase over deep carpet, raised carpet bindings, door frames or any uneven surfaces that may cause the Patient Lift to tip over.  
**DO NOT** lock the casters of the Patient Lift when lifting an individual. Casters **MUST** be left unlocked to allow the Patient Lift to stabilize during lifting procedures.  
**USE ONLY INVACARE SLINGS and LIFT ACCESSORIES.**  
**USE ONLY** the appropriate Patient Lift components for maintenance and replacement. Refer to Owner's Manual for periodic maintenance procedures.

Customer Service:  
 1-800-333-6900  
 1154560 REV. A



*NOTE: Sling Size label is located on cross bar (not shown).*

## Sling Sizes



Small  
Navy



Medium  
Purple



Large  
Green



XL  
Blue



XXL  
Black

**⚠ WARNING**

**USE ONLY INVACARE SLINGS and LIFT ACCESSORIES.**  
 1154553 REV. A

# PRODUCT PARAMETERS

## Roze Stand Up Patient Lift

Height at Sling Hook-up - MAX.:	63.5 inches
Height at Sling Hook-up - MIN.:	37 inches
Base Width OPEN:	44 inches
Base Width CLOSED:	26 inches
Base Height (Clearance):	4.8 inches
Base Length:	38.8 inches
Overall Height:	49.1 inches
Overall Length:	42 inches
Overall Width:	26 inches
Caster Size (FRONT/REAR):	4.0 inches
Sling Options:	Standing or Transfer
Sling Material:	Polyester
Weight Capacity:	450 lbs
Weight Out of Carton:	117 lbs
Battery:	24V DC (RCHBL)
Charger Input:	100-240V AC
Charger Output/Charging Time:	29.5V DC Max 6 hours
Audio/Visual Low Battery Alarm:	Yes
Motor Safety Devices:	Anti-Entrapment
*Approx. Lifts per Charge:	*100-200 Cycles per charge
Warranty Pump/Electronics:	2 Years
Emergency Stop Button:	Yes

*\*NOTE: Varies depending upon load and stroke.*

# SECTION I—GENERAL GUIDELINES

---

## **WARNING**

**SECTION I - GENERAL GUIDELINES** contains important information for the safe operation and use of this product.

---

Check all parts for shipping damage before using. In case of damage, DO NOT use the equipment. Contact the Dealer for further instructions.

The Invacare patient lift is NOT a transport device. It is intended to transfer an individual from one resting surface to another (such as a bed to a wheelchair). Moving a person suspended in a sling over ANY distance is NOT recommended.

DO NOT attempt any transfer without approval of the patient's physician, nurse or medical assistant. Thoroughly read the instructions in this Owner's Manual, observe a trained team of experts perform the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a patient.

Invacare Stand Assist and Transfer slings are specifically designed to be used in conjunction with Invacare patient lifts. Slings and accessories designed by other manufacturers are not to be utilized as a component of Invacare's patient lift system. Use of these products is prohibited and will void the lift's warranty. Use the sling that is recommended by the individual's doctor, nurse or medical assistant for the comfort and safety of the individual that is being lifted.

## **Weight Limitation**

DO NOT exceed maximum weight limitation of the patient lift. The weight limitation for the Roze Patient Lift is 450 lbs.

## **Assembling the Lift**

DO NOT overtighten mounting hardware. This will damage mounting brackets.

## **Using the Sling**

Individuals that use the Stand Assist Sling MUST be able to support the majority of their own weight, otherwise injury may occur.

Stand Assist Slings: DO NOT use the stand assist sling in combination with the patient lift as a transport device. It is intended to transfer an individual from one resting surface to another (such as a bed to a wheelchair). Moving a person using the stand assist sling in combination with the patient lift over ANY distance is NOT recommended.



Stand Assist Slings: Before lifting the patient, make sure the bottom edge of the stand assist sling is positioned on the lower back of the patient and the patient's arms are outside the stand assist sling.

Stand Assist Slings: The belt **MUST** be snug, but comfortable on the patient, otherwise the patient can slide out of the sling during transfer, possibly causing injury.

Transfer Slings: Before lifting the patient, make sure the bottom edge of the transfer sling is at the base of the spine and the patient's arms are outside the transfer sling.

Transfer Slings: **DO NOT** raise the patient to a full standing position while using the transfer sling, otherwise injury may occur.

**DO NOT** use any kind of plastic back incontinence pad or seating cushion between patient and sling material that may cause the patient to slide out of the sling during transfer.

After each laundering (in accordance with instructions on the sling), inspect sling(s) for wear, tears, and loose stitching.

Bleached, torn, cut, frayed, or broken slings are unsafe and could result in injury. Discard immediately.

**DO NOT** alter slings.

Be sure to check the sling attachments each time the sling is removed and replaced, to ensure that it is properly attached before the patient is removed from a stationary object (bed, chair or commode).

If the patient is in a wheelchair, secure the wheel locks in place to prevent the chair from moving forwards or backwards.

When connecting slings equipped with color coded straps to the patient lift, the shortest of the straps **MUST** be at the back of patient for support. Using long section will leave little or no support for patient's back. The loops of the sling are color coded and can be used to place patient in various positions. The colors make it easy to connect both sides of the sling equally. Make sure that there is sufficient head support when lifting a patient.

## **Operating the Lift**

Make sure there is an audible click when mounting battery on the battery charger to confirm proper mounting. Otherwise, injury or damage may occur.

Use the handles to push or pull the patient lift.

## **Lifting the Patient**

Before positioning the legs of the stand up lift around the patient, make sure that the patient's feet are out of the way of the foot plate, otherwise injury may occur.

Adjustments for safety and comfort should be made before moving the patient. Patient's arms should be outside of the sling straps.

Before lifting a patient from a stationary object (wheelchair, commode or bed), slightly raise the patient off the stationary object and check that all sling attachments are secure. If any attachment is not correct, lower the patient and correct the problem, then raise the patient and check again.

During transfer, with the patient suspended in a sling attached to the lift, DO NOT roll caster base over objects such as carpet, raised carpet bindings, door frames, or any uneven surfaces or obstacles that would create an imbalance of the patient lift and could cause the patient lift to tip over. Use steering handle on the mast at ALL times to push or pull the patient lift.

Invacare recommends locking the rear swivel casters ONLY when positioning or removing the sling (stand assist or transfer) from around the patient.

Invacare does NOT recommend locking of the rear casters of the patient lift when lifting an individual. Doing so could cause the lift to tip and endanger the patient and assistants. Invacare DOES recommend that the rear casters be left unlocked during lifting procedures to allow the patient lift to stabilize itself when the patient is initially lifted from a chair, bed or any stationary object.

## Transferring the Patient

Before transferring, check that the product's weight capacity can withstand the patient's weight.

Wheelchair wheel locks MUST be in a locked position before lowering the patient into the wheelchair for transport.

## Performing Maintenance

Regular maintenance of patient lifts and accessories is necessary to assure proper operation.

After the first 12 months of operation, inspect all pivot points and fasteners for wear. If the metal is worn, the parts MUST be replaced. Perform this inspection every six months thereafter.

DO NOT overtighten mounting hardware. This will damage mounting brackets.

Casters and axle bolts require inspections every six months to check for tightness and wear.

# SECTION 2— ASSEMBLY

## Assembling the Patient Lift

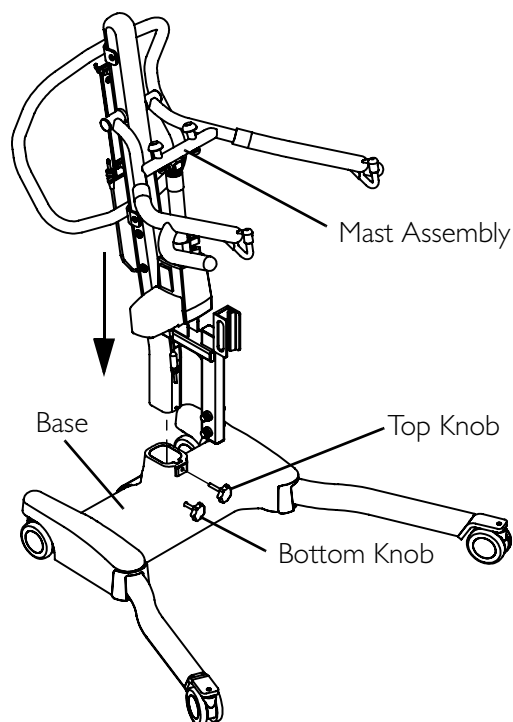
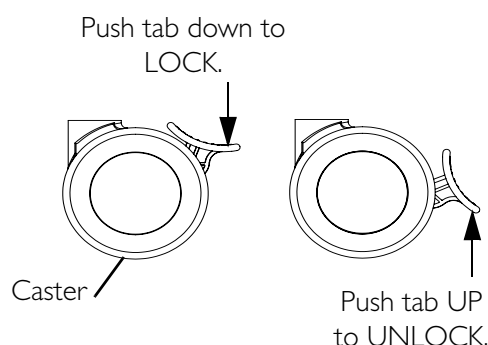
### Assembling the Mast Assembly to the Base

*NOTE: The mast assembly may be removed from the base for storage or transporting. The mast assembly **MUST** be properly secured to the base assembly before use.*

*NOTE: For this procedure, refer to FIGURE 2.1.*

1. Put the base on a level surface so all casters make contact with the floor.
2. Lock the rear casters (Detail “A” of FIGURE 2.1).
3. Unscrew the top knob and remove it from the base.
4. Loosen the bottom knob, but leave it screwed into the base.
5. Put the tube of the mast assembly into the hole in the base.
6. While supporting the mast assembly, tighten the bottom plastic knob.
7. Screw the top plastic knob into the hole in the base.

#### DETAIL “A” - LOCKING/UNLOCKING REAR CASTERS



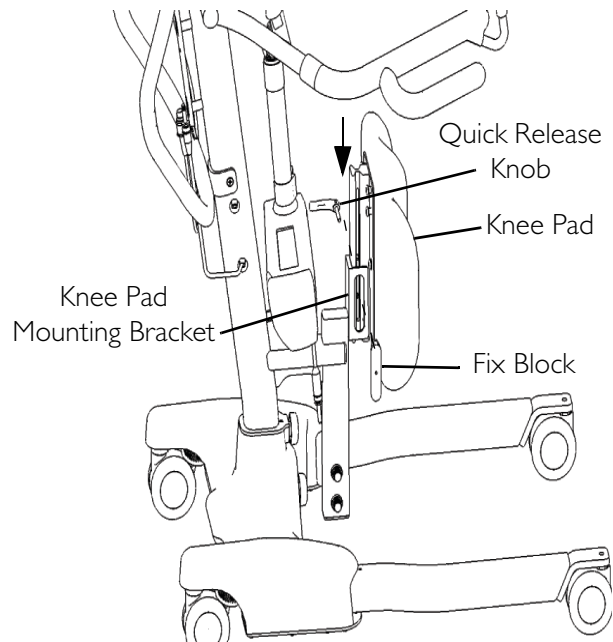
**FIGURE 2.1** Assembling the Mast Assembly to the Base

## Assembling the Knee Pad to the Mast Assembly

*NOTE: For this procedure, refer to FIGURE 2.2*

*NOTE: The knee pad may be removed from the patient lift for storage or transporting. The knee pad MUST be properly secured to the mast assembly before use.*

1. Push the knee pad down into position on the knee pad mounting bracket on the mast assembly.
2. Put the fix block in place on the knee pad mounting bracket.
3. Insert the quick release knob through the mounting bracket, kneepad and fix block.
4. Tighten the quick release knob.

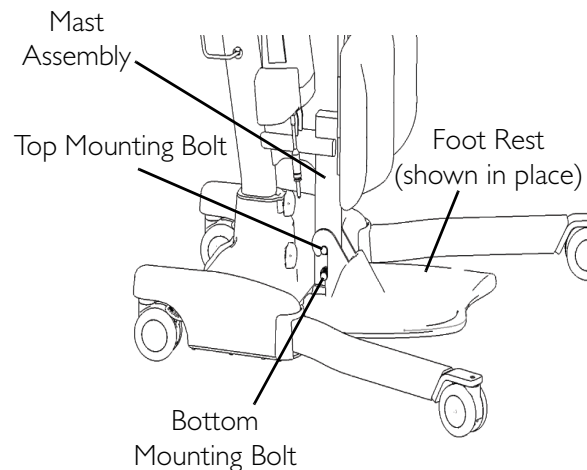


**FIGURE 2.2** Assembling the Knee Pad to the Mast Assembly

## Assembling the Foot Plate to the Mast Assembly

*NOTE: For this procedure, refer to FIGURE 2.3*

1. Rotate the foot plate up and place the hooks on the foot plate onto the top mounting bolts in the mast assembly.
2. Rotate the foot plate down towards the mast assembly. The bottom of the foot plate will rest against the bottom bolts on the mast assembly.
3. Ensure that the foot plate is level and secure.



**FIGURE 2.3** Assembling the Foot Plate to the Mast Assembly

## Attaching the Battery Charger Mounting Bracket to the Wall

*NOTE: For this procedure, refer to FIGURE 2.4.*

1. Place the battery charger mounting bracket on the wall at the desired position.
2. With a pencil, mark the middle hole position.
3. Measure down 6½ inches from the pencil mark and drill one mounting hole.
4. Install the bottom mounting screw until there is an approximate 1/8-inch gap between the screw head and the wall.
5. Put the battery charger mounting bracket onto the bottom mounting screw.
6. Drill the other two mounting holes.
7. Screw the mounting screws through the battery charger mounting bracket and into the wall. Tighten securely.

---

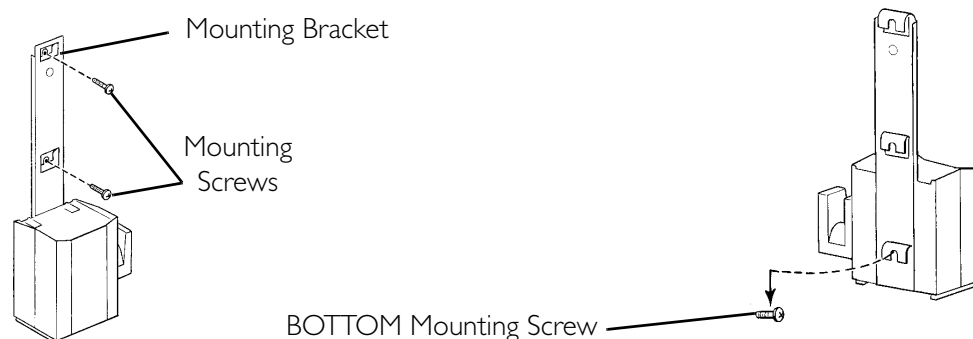
### CAUTION

**Make sure there is an audible click when mounting battery on the battery charger to confirm proper mounting. Otherwise, injury or damage may occur.**

---

8. Put the battery charger in place on the mounting bracket.
9. Plug the battery charger into an electrical outlet.

*NOTE: An LED will illuminate when power is applied to battery charger.*



**FIGURE 2.4** Attaching the Battery Charger Mounting Bracket to the Wall

## Attaching the Battery Charger to the Mast Assembly

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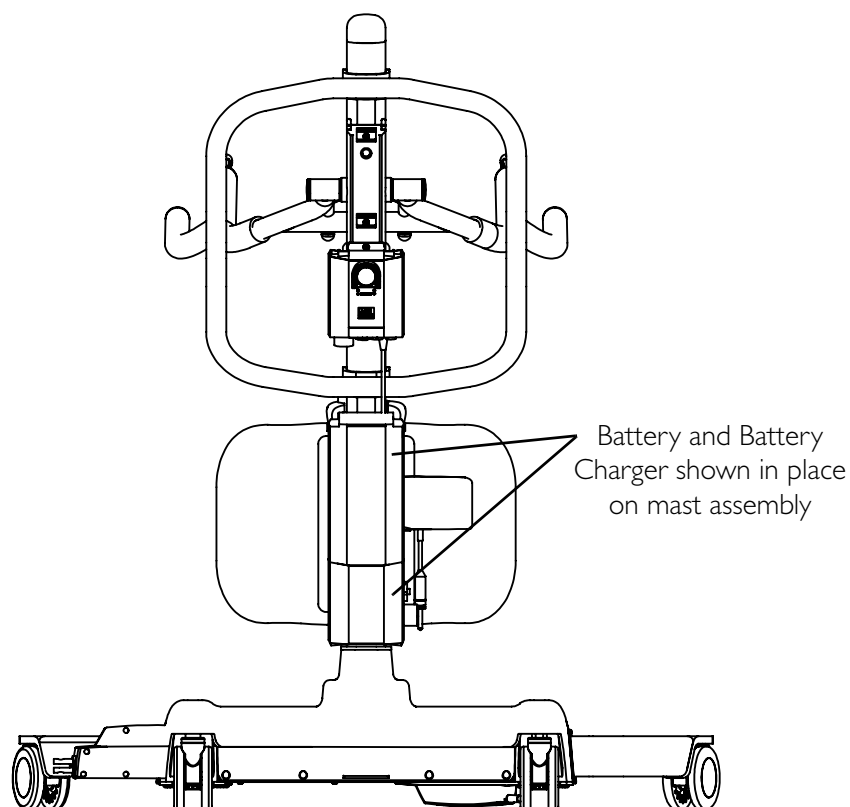
### **⚠ WARNING**

**If the battery charger is attached to the mast assembly and is plugged into a wall outlet, make sure to unplug the battery charger from the wall outlet **BEFORE** using the patient lift. Failure to unplug the battery charger may result in injury or damage.**

---

*NOTE: For this procedure, refer to FIGURE 2.5.*

1. Remove the two mylar pieces covering the mounting holes on the back of the mast assembly.
2. Insert the hook screws into mounting holes.
3. Tighten the hook screws.
4. Mount the battery charger mounting bracket on the hook screws.
5. Charge the battery. Refer to Charging the Battery on page 18.



**FIGURE 2.5** Attaching the Battery Charger to the Mast Assembly

# SECTION 3— OPERATION

## Introduction

---

### **⚠ WARNING**

**DO NOT** attempt to transfer a patient without approval of the patient's physician, nurse, or medical assistant. Thoroughly read the instructions in this owner's manual, observe a trained team of experts performing the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a patient.

The legs of the stand up lift **MUST** be in the maximum open position for optimum stability and safety. If the patient is in a sling and it becomes necessary to move through a narrow passage, close the legs of the stand up lift only as long as it takes to move through the passage. When the stand up lift is through the passage, return the legs to the maximum open position.

---

*NOTE: Invacare recommends that two assistants be used for all lifting preparation and transferring to/from procedures; however, the patient lift can be operated by one assistant. The use of the patient lift by one assistant should be based on the evaluation of the health care professional for each individual case.*

## Operating the Patient Lift

### Locking/Unlocking the Rear Casters

*NOTE: For this procedure, refer to Detail "A" of FIGURE 3.1.*

- To Lock the Caster:  
Push tab down.
- To Unlock the Caster:  
Push tab up.

### Raising/Lowering the Patient Lift

*NOTE: For this procedure, refer to Detail "B" of FIGURE 3.1.*

- To Raise the Patient Lift:  
Press the up (↑) button on the hand control.

*NOTE: If the patient lift is raised to the highest level, it may be necessary to pull down gently on the lift arms before the mast will begin to lower. Pull down gently on both arms at the same time to avoid making the lift unstable.*

- To Lower the Patient Lift:  
Press the down button (↓) on the hand control.

### Closing/Opening the Legs

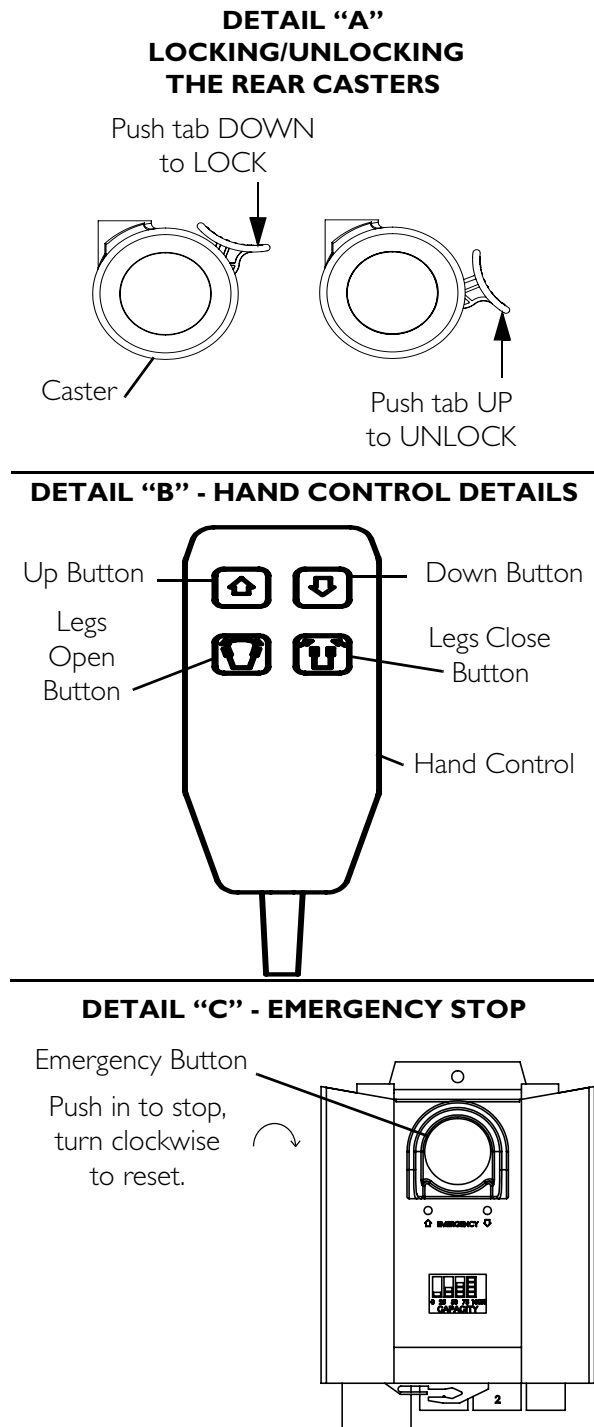
*NOTE: For this procedure, refer to Detail "B" of FIGURE 3.1.*

- To Close the Legs:  
Press the close button on the hand control.
- To Open the Legs:  
Press the open button on the hand control.

### Using the Emergency Stop

*NOTE: For this procedure, refer to Detail "C" of FIGURE 3.1.*

- Push the RED emergency button in to stop the lift arms from raising or lowering.
- To reset, rotate the emergency button clockwise.



**FIGURE 3.1** Operating the Patient Lift



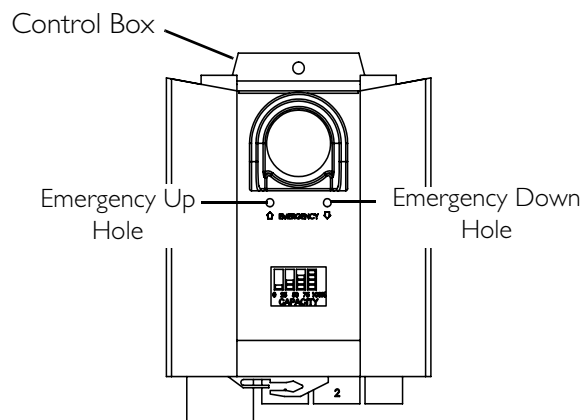
## Activating a Mechanical Emergency Release

### Primary Emergency Release

*NOTE: For this procedure, refer to FIGURE 3.2.*

*NOTE: This procedure will bring the boom down or lift it up if the hand control is not functioning properly.*

To activate the primary emergency release, insert a pen into the hole labeled Emergency Up or Emergency Down on the control box.



**FIGURE 3.2** Primary Emergency Release

### Secondary Emergency Release

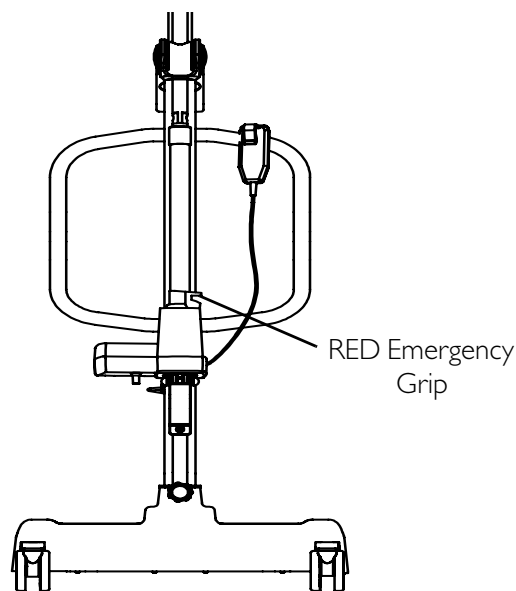
*NOTE: For this procedure, refer to FIGURE 3.3.*

*NOTE: All patient lift actuators are equipped with a mechanical emergency release. The mechanical release will enable the actuator to retract without power.*

*NOTE: Use the primary emergency release first before using the secondary emergency release procedure. This procedure should only be used if the primary emergency release procedure is not functioning or is unreachable.*

*NOTE: The lift MUST be under a load for the mechanical release to function.*

To activate the secondary emergency release, pull up on the RED emergency grip and pull down on the boom at the same time.



**FIGURE 3.3** Secondary Emergency Release

## Charging the Battery

*NOTE: For this procedure, refer to FIGURE 3.4.*

*NOTE: Invacare recommends the battery be recharged daily to prolong battery life.*

*NOTE: An audible alarm will sound when battery is low.*

1. Lift UP on the handle on the back of the battery.
2. Lift the battery up and away from the control box.

### CAUTION

**Make sure there is an audible click when mounting battery on the battery charger to ensure proper mounting. Otherwise, injury or damage may occur.**

3. Place the battery on the battery charger. Push the top of the battery against the mounting bracket until there is an audible click.

*NOTE: The charge LED will illuminate. When charged, the LED will stop illuminating.*

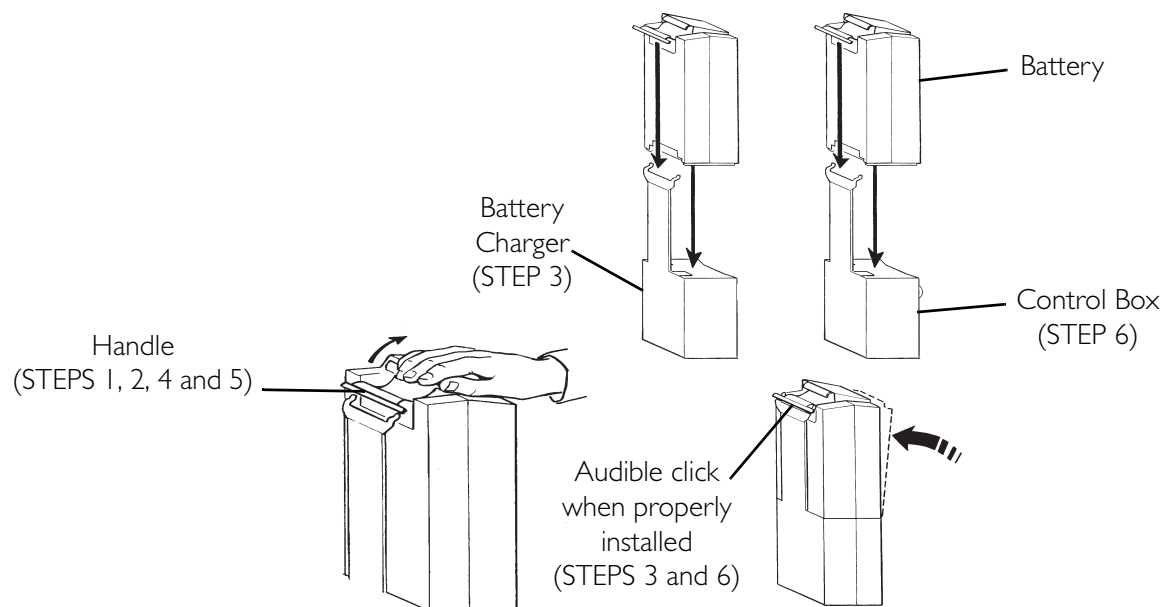
*NOTE: It will take approximately four hours to charge a battery that requires a full charge.*

4. Lift UP on the handle on the back of the battery.
5. Lift the battery up and away from the battery charger.

### CAUTION

**Make sure there is an audible click when mounting battery onto the control box to ensure proper mounting. Otherwise, injury or damage may occur.**

6. Place the battery on the control box. Push the top of the battery against the mounting bracket until there is an audible click.



**FIGURE 3.4** Charging the Battery

---

## SECTION 4— LIFTING THE PATIENT

---

### **WARNING**

**DO NOT** exceed the maximum weight limitation of 450 lbs.

**DO NOT** attempt to any transfer without approval of the patient's physician, nurse or medical assistant.

**ALWAYS** keep hands and fingers clear of moving parts to avoid injury.

Invacare patient slings are made specifically for use with Invacare patient lifts. For the safety of the patient, **DO NOT** intermix patient slings and patient lifts of different manufacturers.

Individuals that use the standing patient sling **MUST** be able to support the majority of their own weight, otherwise injury may occur.

Before lifting the patient, make sure the bottom edge of the standing patient sling is positioned on the lower back of the patient and the patient's arms are outside the standing patient sling. The belt **MUST** be snug, but comfortable on the patient, otherwise the patient can slide out of the patient sling during transfer possibly causing injury.

**DO NOT** use any kind of material (such as a plastic back incontinence pad or seating cushion) between the patient and sling material that may cause the patient to slide out of the sling during transferring.

After **EACH** laundering (in accordance with laundering instructions on the patient sling), inspect the patient sling for wear, tears and loose stitching. Discard any patient sling that meets these criteria **IMMEDIATELY**.

Bleached, torn, cut, frayed or broken slings are unsafe and their use could result in injury or damage. Discard any patient sling that meets these criteria **IMMEDIATELY**.

**DO NOT** alter patient slings.

**DO NOT** move the patient if the patient sling is not properly connected to the attachment points on the patient lift. Check that the patient sling is properly connected to the attachment points **BEFORE** lifting the patient.

During transfer, with the patient suspended in the patient sling, **DO NOT** roll the base of the patient lift over carpet, raised carpet bindings, door frames or any uneven surfaces or obstacles that would cause the patient lift to become unstable.

Use the steering handle on the mast assembly at all times to push or pull the stand up lift.

---

*NOTE: Refer to the patient sling Owner's Manual, P/N 102891, for more information.*

*NOTE: Invacare recommends that two assistants are present and assist in ALL lifting procedures.*

## Positioning the Stand Up Lift

*NOTE: For this procedure, refer to FIGURE 4.1.*

*NOTE: Refer to General Guidelines on page 8 before proceeding and observe all warnings indicated.*

*NOTE: Before positioning the legs of the patient lift under a bed, make sure that the area is clear of any obstructions.*

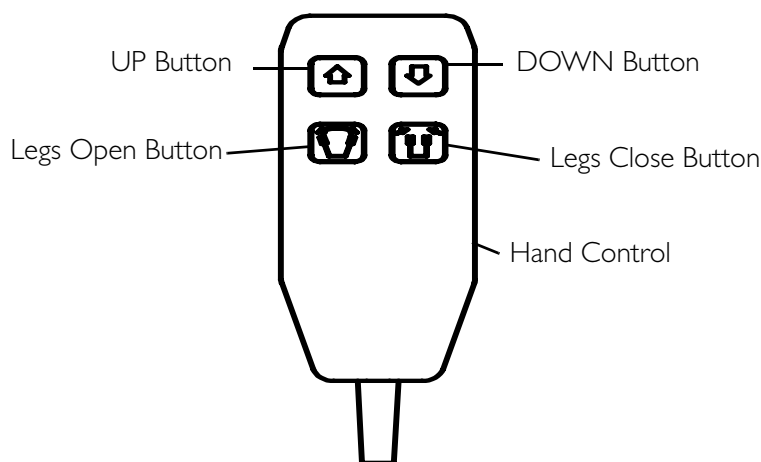
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### **⚠ WARNING**

**The legs of the stand up lift *MUST* be in the maximum open position for optimum stability and safety. If it is necessary to close the legs to maneuver the stand up lift under a bed, close the legs only as long as it takes to position the stand up lift over the patient and lift the patient off the surface of the bed. When the legs of the stand up lift are no longer under the bed, return the legs to the maximum open position.**

---

1. Press the legs open button on the hand control to open the legs of the stand up lift to the maximum open position.
2. Position the stand up lift using the mast handle.
3. Press the down arrow button on the hand control to lower the lift arms for easy attachment to the sling.
4. Lower the patient lift for easy attachment of the patient sling.



**FIGURE 4.1** Hand Control Buttons

## Lifting the Patient

---

### **WARNING**

**DO NOT** exceed the maximum weight limitation of 450 lbs.

Individuals that use the standing patient sling **MUST** be able to support the majority of their own weight, otherwise injury may occur.

**DO NOT** lock the rear casters of the stand up lift when lifting an individual. Locking the rear casters could cause the stand up lift to tip and endanger the patient and assistants. Unlocking the rear casters during lifting procedures allows the lift to stabilize itself while the patient is initially lifted from a wheelchair, bed or any stationary object.

**DO NOT** move the patient if the sling is not properly attached to the attachment points on the stand up lift. Make sure that the sling is properly attached **BEFORE** lifting the patient. If any attachments are not properly in place, correct the problem. When the sling is elevated a few inches off the stationary surface and before moving the patient, check again to make sure the sling and all attachments are securely in place. If any problem is found, lower the patient back onto the stationary surface and correct the problem - otherwise, injury or damage may occur.

Adjustments for safety and comfort should be made before moving the patient.

Invacare patient slings are made specifically for use with Invacare patient lifts. For the safety of the patient, **DO NOT** intermix patient slings and patient lifts of different manufacturers.

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*NOTE: For this procedure, refer to FIGURE 4.2 on page 22.*

*NOTE: The patient **MUST** be in a seated position first. Use the head section of the bed to get the patient upright then move legs over the side of the bed.*

1. Instruct the patient to hold onto the hand grips on both sides of the stand up lift (Detail "A" of FIGURE 4.2).
  2. Instruct the patient to lean back into the standing or transfer sling.
- 

### **WARNING**

**Standing Slings** - Before lifting the patient, make sure the bottom edge of the standing sling is positioned on the lower back of the patient and the patient's arms are outside the sling.

**Transfer Slings** - Before lifting the patient, make sure the bottom edge of the transfer sling is at the base of the spine and the patient's arms are outside the sling.

---

3. Ensure the following:
    - A. The patient's knees are secure against the knee pad.
    - B. The patient's feet are properly positioned on the foot plate.
-

### C. Slings:

- Standing Sling - the bottom edge of the standing sling is positioned on the patient's lower back.
- Transfer Sling - the bottom edge of the transfer sling is at the base of the patient's spine.
- Either Sling Style - the patient's arms are outside the sling.

D. The rear casters are unlocked.

E. The legs are in the maximum open position.

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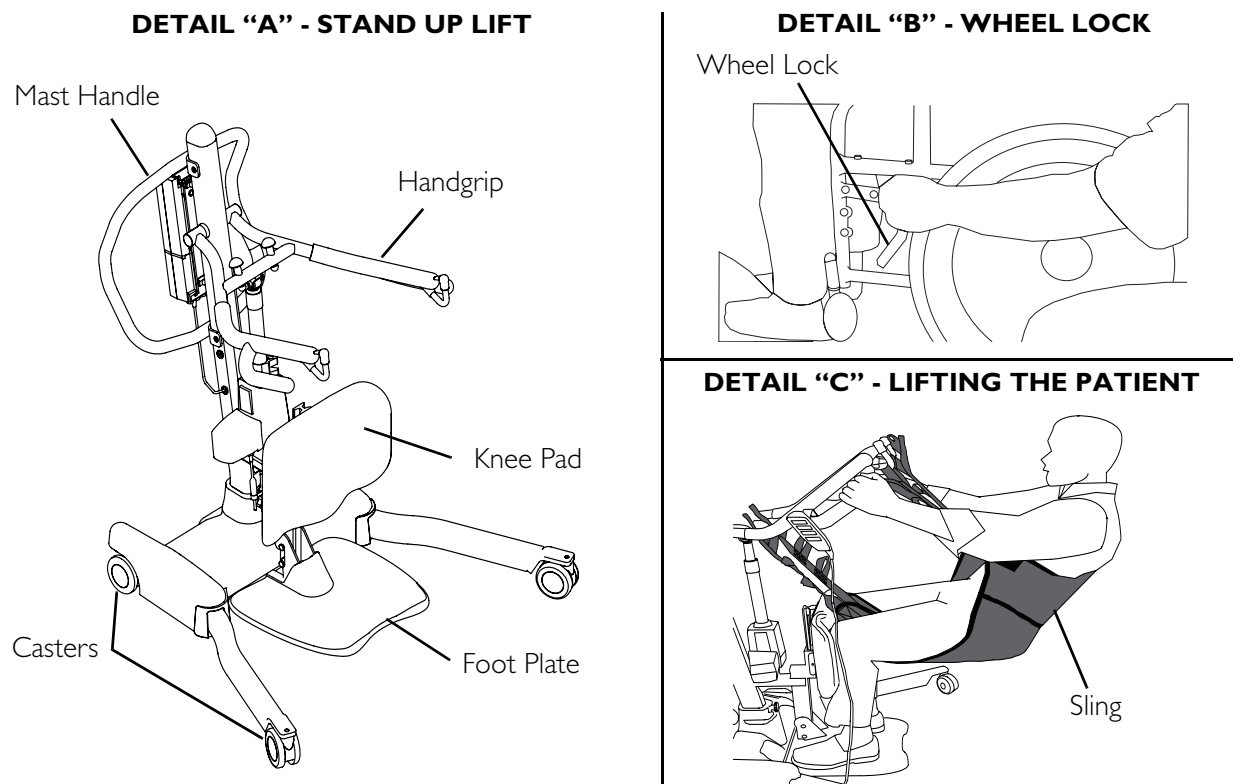
### **⚠ WARNING**

**If transferring a patient from a wheelchair, the wheelchair wheel locks **MUST** be in the locked position before lowering the patient into the wheelchair. Otherwise, injury may occur.**

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4. If transferring from a wheelchair, lock the wheel locks on the wheelchair (Detail "B" of FIGURE 4.2).
5. Press the UP arrow button on the hand control to raise the patient above the surface (bed, wheelchair or commode). The patient's weight will be fully supported by the stand up lift (Detail "C" of FIGURE 4.2).

*NOTE: The lower center of gravity provides stability making the patient feel more secure and the lift easier to move.*



**FIGURE 4.2** Lifting the Patient

## Moving the Patient

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### **WARNING**

The legs of the stand up lift **MUST** be in the maximum open position for optimum stability and safety. If the patient is in a sling and it becomes necessary to move through a narrow passage, close the legs of the stand up lift only as long as it takes to move through the passage. When the stand up lift is through the passage, return the legs to the maximum open position.

**DO NOT**, during transfer of a patient suspended in the lift sling, roll caster base over objects such as carpet bindings, door frames, or any uneven surfaces or obstacles that would create an imbalance of the lift. This could cause the lift to tip over. Use the mast handle at all times to push or pull the lift.

---

1. Ensure the legs of the stand up lift are in the maximum open position. If not, press the OPEN LEGS button on the hand control to move the legs to the maximum open position.
2. Move the stand up lift away from the surface they were lifted from.
3. Slowly move the patient to the desired surface.

# SECTION 5—TRANSFERRING THE PATIENT

## Introduction

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### **WARNING**

**DO NOT** attempt any transfer of a patient without the approval of the patient's physician, nurse or medical assistant.

**DO NOT** move the patient if the sling is not properly connected to the attachment points of the stand up lift. Check that the sling is properly connected to the attachment points prior to lifting a patient. If any attachments are not properly in place, correct the problem. When the sling is elevated a few inches off the stationary surface and before moving the patient, check again to make sure that all sling attachments are secure. If any attachments are not properly in place, lower the patient back onto the stationary surface and correct this problem - otherwise, injury or damage may occur.

Adjustments for safety and comfort should be made before moving the patient. The patient's arms should be inside the straps.

**DO NOT** use slings and stand up lifts of different manufacturers. Invacare slings are made specifically for use with Invacare stand up lifts. Otherwise, injury or damage may occur.

**DO NOT** lock the rear casters of the stand up lift when lifting an individual. Locking the rear casters could cause the stand up lift to tip and endanger the patient and assistants.

The legs of the stand up lift **MUST** be in the maximum open position for optimum stability and safety. If the patient is in a sling and it becomes necessary to move through a narrow passage, close the legs of the stand up lift only as long as it takes to move through the passage. When the stand up lift is through the passage, return the legs to the maximum open position. If it is necessary to close the legs to maneuver the stand up lift under a bed, close the legs only as long as it takes to position the stand up lift over the patient and lift the patient off the surface of the bed. When the legs of the stand up lift are no longer under the bed, return the legs to the maximum open position.

Be sure to check the sling attachments each time the sling is removed and replaced to ensure that it is properly attached before the patient is removed from a surface.

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Invacare recommends that two assistants be used for all lifting preparation and transferring to/from procedures; however, our equipment will permit proper operation by one assistant. The use of one assistant is based on the evaluation of the health care professional for each individual case.



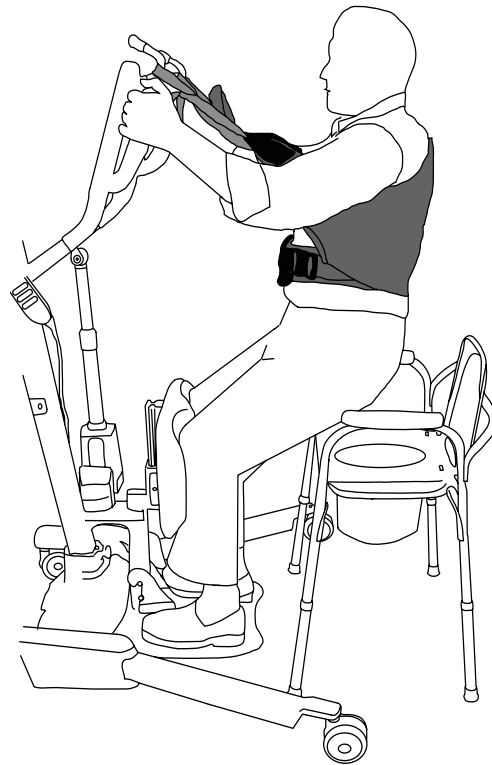
## Transferring to a Commode

### **⚠ WARNING**

**Invacare recommends locking the rear swivel casters only when positioning or removing the sling from around the patient.**

*NOTE: For this procedure, refer to FIGURE 5.1.*

1. Lift the patient from the side of the bed. Refer to [Lifting the Patient](#) on page 21.
  2. Press the UP button on the hand control to elevate the patient high enough to clear the arms of the commode chair. Their weight will be supported by the stand up lift.
  3. Guide the patient onto the commode chair. This may require two assistants.
  4. Press the down arrow button to lower the patient onto the commode chair.
  5. Lock the rear swivel casters on the stand up lift.
  6. Perform one of the following:
    - Standing Sling - unhook the standing sling from the attachment points on the stand up lift.
    - Transport Sling -
      - i. Unhook the transport sling from the bottom attachment points on the stand up lift.
      - ii. Lift up on the patient's legs and remove the thigh supports from underneath the patient.
      - iii. If desired, unhook the transport sling from the top attachment points on the stand up lift.
- NOTE: The patient can remain in the upper portion of the transfer sling while using the commode.*
7. Instruct or assist the patient in lifting their feet off the foot plate.
  8. Remove the sling from around the patient.
  9. Unlock the rear casters and pull the stand up lift away from the commode.
  10. When complete, recheck the sling for correct attachments.
  11. To lift the patient from the commode, refer to [Lifting the Patient](#) on page 21.



**FIGURE 5.1** Transferring to a Commode

## Transferring to a Wheelchair

*NOTE: For this procedure, refer to FIGURE 5.2.*

1. Ensure the legs of the lift with the patient in the sling are in the open position. Press the legs open button until in maximum open position.
2. Move the wheelchair into position.
3. Engage the wheel locks of the wheelchair to prevent movement of the chair (Detail "A" of FIGURE 5.2).

### **⚠ WARNING**

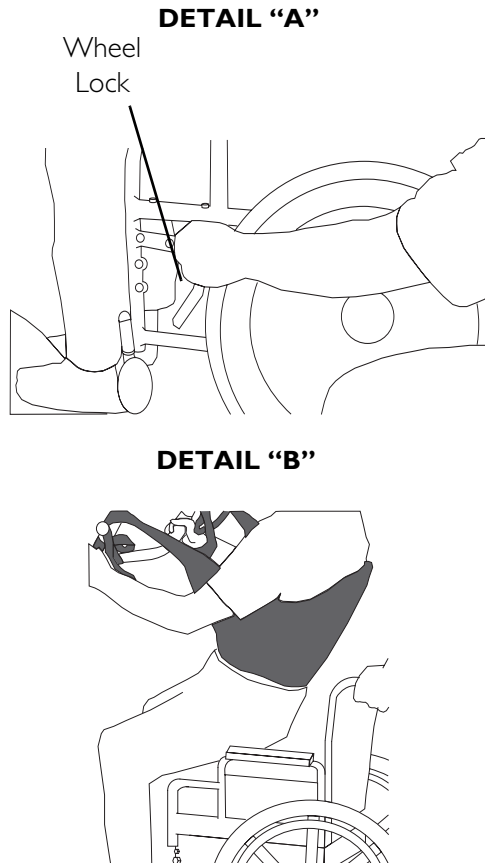
**DO NOT** place the patient in the wheelchair if the locks are not engaged. The wheelchair wheel locks **MUST** be in a locked position before lowering the patient into the wheelchair for transport. Otherwise, injury may result.

4. Position the patient over the wheelchair (Detail "B" of FIGURE 5.2).
5. Press the down arrow button and lower the patient into the wheelchair.

### **⚠ WARNING**

**Lock the rear swivel casters ONLY** when positioning or removing the sling (standing or transfer) from around the patient. Otherwise, injury may occur.

6. Lock the rear swivel casters.
7. Unhook the sling from all attachment points on the stand up lift.
8. Instruct patient to lift their feet off the foot plate. Assist the patient if necessary.
9. Remove the sling from around the patient.
10. Unlock the rear casters and pull the stand up lift away from the wheelchair.



**FIGURE 5.2** Transferring the Patient to a Wheelchair

## Transferring to a Bed

*NOTE: The lower center of gravity provides stability making the patient feel more secure and the lift easier to move.*

1. Position the patient as far over the bed as possible.

*NOTE: If patient is being transferred from a surface that is lower than the bed, press the up arrow button to raise the patient above the surface of the bed. The patient should be elevated just high enough to clear the bed with their weight fully supported by the lift.*

2. Press the down arrow button and lower the patient onto the bed.

---

### **WARNING**

**Invacare recommends locking the rear swivel casters *ONLY* when positioning or removing the sling from around the patient.**

---

3. Lock the rear swivel casters.
4. Unhook the standing or transport sling from all attachment points on the stand up lift.
5. Instruct the patient to lift their feet off of the foot plate.

*NOTE: Assist the patient if necessary.*

6. Remove the standing or transport sling from around the patient.
7. Unlock the rear casters and pull the stand up lift away from the bed.

## SECTION 6— TROUBLESHOOTING

SYMPTOMS	FAULTS	SOLUTION
Noisy or dry sound from pivots.	Needs lubrication.	Refer to <a href="#">Lubricating the Lift</a> on page 30.
Electric actuator fails to lift when button is pressed.	Hand-control or actuator connector loose.  Battery low.  RED emergency stop button pressed IN.  Battery not connected properly to control box.  The connecting terminals are damaged.  Electric actuator in need of service or load is too high.	Charge batteries. Refer to <a href="#">Charging the Battery</a> on page 18.  Rotate RED emergency stop button CLOCK-WISE until it pops out.  Reconnect the battery to the control box. Refer to <a href="#">Charging the Battery</a> on page 18.  Replace the battery pack. Refer to <a href="#">Charging the Battery</a> on page 18.  Refer to <a href="#">Replacing the Electric Actuator</a> on page 30.
Unusual noise from lift arm actuator.	Actuator is worn or damaged or spindle is bent.	Refer to <a href="#">Replacing the Electric Actuator</a> on page 30.
Lift arms will not lower in uppermost position.	Lift arms require a minimum weight load to lower from the uppermost position.	Pull down slightly on the lift arms.
Legs don't open and close properly.	Leg actuators may be worn or damaged or spindle is bent.	Refer to <a href="#">Replacing the Leg Actuators</a> on page 31.

*NOTE: If problems are not remedied by the suggested means, please contact your dealer or Invacare.*

# SECTION 7— MAINTENANCE

## Maintenance Safety Inspection Checklist

ITEM	INITIALLY	INSTITUTIONAL INSPECT/ADJUST MONTHLY	IN-HOME INSPECT EVERY SIX (6) MONTHS
<b>THE BASE</b> Inspect for missing hardware. Legs open/close with ease. Inspect casters and axle bolts for tightness and wear. Inspect casters for smooth swivel and roll. Inspect wheels are clear of debris.	X X X X X	X X X X X	X X X X X
<b>THE MAST</b> Mast MUST be securely assembled to lift arms. Inspect for bends or deflections.	X X	X X	X X
<b>THE LIFT ARMS AND LINKAGE</b> Check all hardware and attachment points. Inspect for bends or deflections. Inspect bolted joints of lift arms for wear. Inspect to ensure that the lift arms are centered between the base legs.	X X X X	X X X X	X X X X
<b>ELECTRIC ACTUATOR</b> Check for wear or deterioration. (IF DAMAGED, CONTACT DEALER) Cycle to ensure smooth quiet operation.	X X	X X	X X
<b>CLEANING</b> Whenever necessary.	X	X	X
<b>SLINGS</b> CHECK ALL SLING ATTACHMENTS each time it is used to ensure proper connection and patient safety. Inspect sling material for wear. Inspect straps for wear.	X X X	X X X	X X X

*NOTE: Follow the maintenance procedures described in this manual to keep your patient lift in continuous service.*

The Invacare Patient Lift is designed to provide a maximum of safe, efficient and satisfactory service with minimum care and maintenance.

All parts of the Invacare Lift are made of the best grades of steel, but metal to metal contact will wear after considerable use.

There is no adjustment or maintenance of the casters, other than cleaning, lubrication and checking axle and swivel bolts for tightness. Remove all debris, etc. from the wheel and swivel bearings. If any parts are worn, replace these parts IMMEDIATELY.

If you question the safety of any part of the lift, contact your Dealer IMMEDIATELY.

## Cleaning the Sling and the Lift

The sling should be washed regularly in water temperature not exceeding 180°F (82°C) and a biological solution. A soft cloth, dampened with water and a small amount of mild detergent, is all that is needed to clean the patient lift. The lift can be cleaned with non-abrasive cleaners.

## Detecting Wear and Damage

It is important to inspect all stressed parts, such as slings, lifting arm and any pivot for slings for signs of cracking, fraying, deformation or deterioration. Replace any defective parts IMMEDIATELY and ensure that the lift is not used until repairs are made.

## Lubricating the Lift

The Invacare lift is designed for minimum maintenance. However, a six month check and lubrication should ensure continued safety and reliability.

Keep lift and slings clean and in good working order. Any defect should be noted and reported to your dealer as soon as possible.

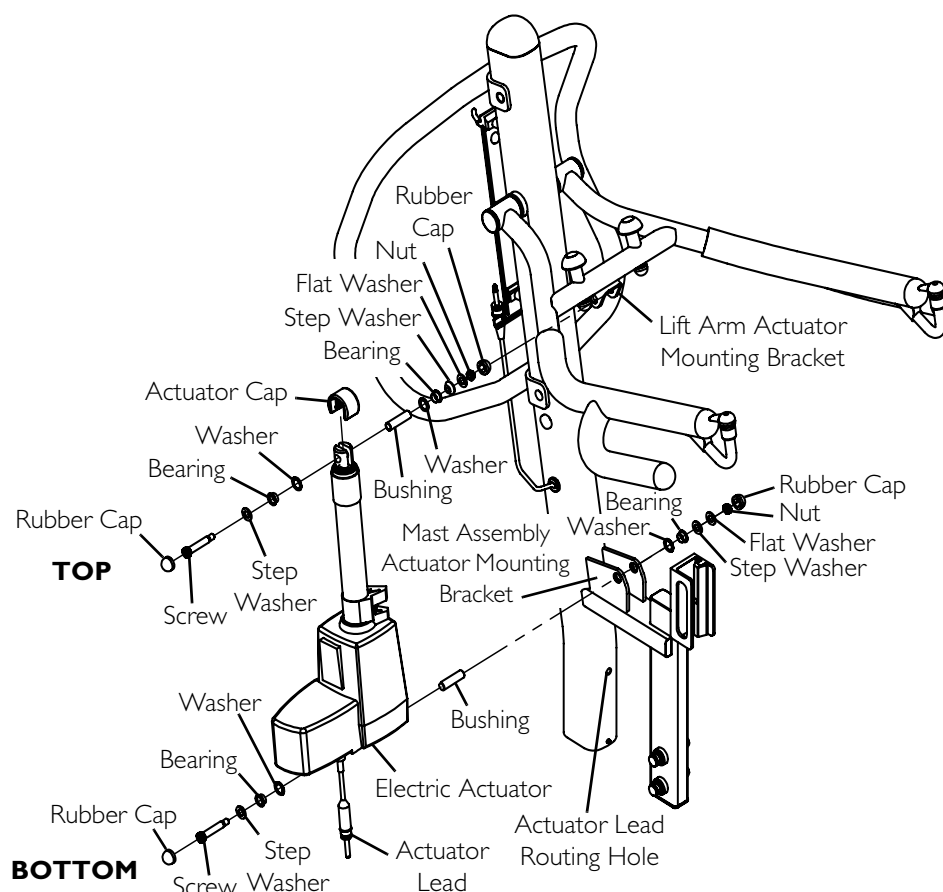
The casters MUST swivel and roll smoothly. A light grease (waterproof auto lubricant) may be applied to the ball bearing swivel of the casters once a year. Apply more frequently if the casters are exposed to extreme moist conditions.

## Replacing the Electric Actuator

*NOTE: For this procedure, refer to FIGURE 7.1 on page 31.*

1. Unplug the electric actuator from the control box on the mast assembly. Thread the actuator lead through the actuator lead routing hole in the mast assembly.
2. Remove the hardware that secures the top of the electric actuator to the lift arm actuator mounting bracket.
  - A. Remove the rubber caps from the nut and screw that attach the electric actuator to the lift arm actuator mounting bracket.
  - B. Remove the screw, step washer, bearing, washer, actuator cap, bushing, washer, bearing, step washer, flat washer and nut.

*NOTE: The actuator cap will become loose when the attaching hardware is removed. Inspect the actuator cap for damage. Replace the actuator cap if damage is found.*
3. Remove the hardware that secures the bottom of the electric actuator to the mast assembly actuator mounting bracket.
  - A. Remove the rubber caps from the nut and screw that attach the electric actuator to the mast assembly actuator mounting bracket.
  - B. Remove the screw, step washer, bearing, washer, bushing, washer, bearing, step washer, flat washer, and nut.
4. To replace the electric actuator, reverse STEPS 1-3.



**FIGURE 7.1** Replacing the Electric Actuator

## Replacing the Leg Actuators

*NOTE: For this procedure, refer to FIGURE 7.2 on page 32.*

*NOTE: If the legs of the patient lift do not open and close properly, it may be necessary to replace one or both of the leg actuators.*

1. Test the operation of the legs:
  - Press the CLOSE button on the hand control to close the legs.
  - Press the OPEN button on the hand control to open the legs.
2. While holding on to the mast handles, carefully tip the patient lift back until it rests on the floor.

*NOTE: It is necessary to remove both small base covers before removing the large base cover.*

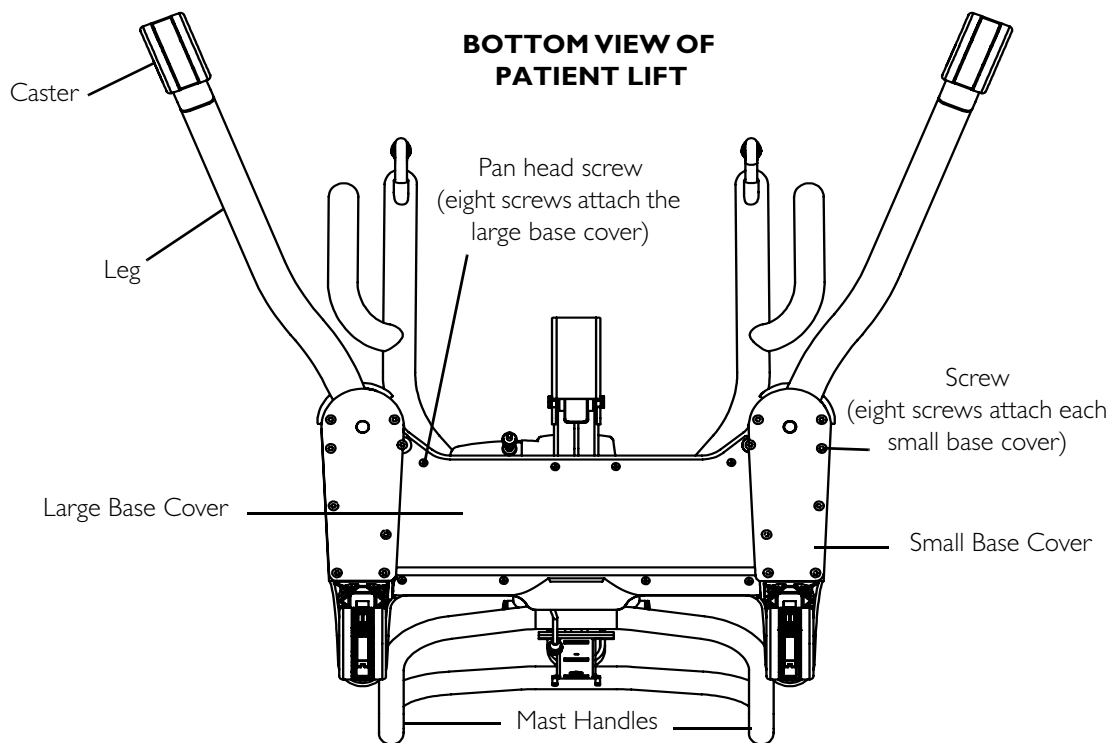
3. Remove the sixteen screws that attach the small base covers to the base.
4. Remove the eight pan head screws that attach the large base cover to the base.

*NOTE: If the left or the right leg of the patient lift does not operate properly, perform the following steps on the side of the base necessary to replace the actuator. If both legs do not operate properly, perform this replacement procedure on both sides of the base.*

5. Locate and disconnect the leg actuator lead wires.

*NOTE: The actuator lead wires will be visible after the large base cover is removed.*

6. Remove the socket head screw and washer that attach the leg actuator to the base.
7. At the other end of the actuator, remove the socket head screw and nut that attach the leg actuator to the leg bracket.
8. If necessary, repeat STEPS 5-7 on the opposite side of the base to remove the other leg actuator.
9. To replace the actuator(s), reverse STEPS 5-7.



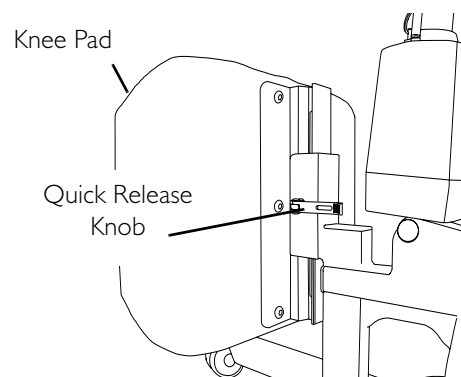
**FIGURE 7.2** Replacing the Leg Actuators

## Adjusting the Knee Pad Height

*NOTE: For this procedure, refer to FIGURE 7.3.*

*NOTE: When adjusted properly, the patient's knee will make contact at the center of the knee pad.*

1. While supporting the knee pad, disengage the quick release knob on the side of the knee pad mounting bracket.
2. Choose a height adjustment that will be comfortable for the patient and will provide the necessary support. Engage the quick release knob into position until the knee pad is secure in place.



**FIGURE 7.3** Adjusting the Knee Pad Height



# NOTES

# NOTES

# 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/user of our products.

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

Invacare warrants the products manufactured to be free from defects in materials and workmanship for a period of three years on the lift and one year on the electric components from the date of purchase. If within such warranty period 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, date of purchase, indicate nature of the defect.

Invacare Corporation will issue a serialized return authorization. The defective unit or parts **MUST** be returned for warranty inspection using the serial number, when applicable as identification within 30 days of return authorization date. **DO NOT** return products to our factory without our prior consent. C.O.D. shipments will be refused; please prepay shipping charges.

**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 PROBLEMS ARISING FROM NORMAL WEAR OR FAILURE TO ADHERE TO THE INSTRUCTIONS IN THIS MANUAL.**

**THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, IF ANY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE DURATION OF THE EXPRESSED WARRANTY PROVIDED HEREIN AND THE REMEDY FOR VIOLATIONS OF ANY IMPLIED WARRANTY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT PURSUANT TO THE TERMS CONTAINED HEREIN. INVACARE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER.**

**SOME STATES DO NOT ALLOW EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGE, OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE EXCLUSIONS AND LIMITATIONS MAY NOT APPLY TO YOU.**

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



***Yes, you can.®***

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