

E-Pacer

# E-Pacer

## K660 Product Manual



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## **WARNING**



- Thoroughly read and understand the information in this product manual before attempting to use this product. If the procedures and instructions in this product manual are not followed, serious injury or death could occur.
- The E-Pacer may not be appropriate for all clients. The client's therapist or physician should assess the appropriateness and safety of the E-Pacer for each user. For example:
  - The E-Pacer must only be used for clients who meet the weight and height limits specified in this manual.
  - Clients will experience some pressure to soft tissues when lifted with the E-Pacer. It may not be appropriate for individuals with fragile skin.
- The E-Pacer should be operated only by and under the direct supervision of a qualified caregiver who has reviewed and understands this manual.
- To prevent falls and injuries:
  - Do not use the E-Pacer on rough or uneven terrain, around swimming pools or near stairways.
  - Stop lifting immediately if the body support system slides up under the armpits while lifting. This may be caused by slippery outer clothing, a client with low muscle tone or a body shape and size that is inappropriate for the E-Pacer.
  - Lift the client no higher than is necessary to perform the intended transfer.
  - Always retract the base legs when maneuvering the E-Pacer while it is supporting a client in the seated posture; expand the base only when necessary.
  - When using the E-Pacer for walking support, the base frame should be expanded to increase sideways stability if required by the condition or stature of a particular client; the caregiver must make this judgment on an individual basis.
  - Never leave a client unattended in the E-Pacer.
  - Ensure the use of straps and supports at all times. Straps and supports are provided for the safety of the user and must be carefully adjusted for comfort and security.
  - The E-Pacer is equipped with two non-removable back belts with safety buckles. Always ensure that the back belts are in place and that the release tabs on all buckles are fully latched before initiating a lift or transfer.
  - When the E-Pacer is used in the posterior configuration, with the client facing rearward in the device, the client can access the back belt safety buckles. The E-Pacer should not be used in the posterior configuration with clients of unreliable judgment who may unintentionally release the safety buckles while supported by the device. The caregiver must assess whether posterior use is appropriate for an individual client.

## **WARNING**

- For safe use of the E-Pacer, prior to initiating a transfer, move the origin and destination of the transfer as close to each other as possible. For example: a client who is to be transferred from a wheelchair to a toilet should be wheeled close to the toilet prior to lifting to minimize time spent in transfer. Never use the E-Pacer for long distance transport of a lifted client.
- Using straps, trays, or supports to restrict a client's movement is considered behavioral restraint. Rifton products are not intended for this use.
- This product is intended for indoor use only and must not be used in or around water other than for bathing and shower transfers in accordance with instructions provided.
- To avoid pinching or crushing:
  - Ensure that all hands and feet are clear of the vertical lifting column before activating the up/down switch.
  - Ensure that all hands and feet are clear of the base frame expansion system and the base legs before expanding or retracting the base.
- To prevent head and neck injury, never use the E-Pacer to lift a client within a vertically confined space such as inside a vehicle; always check that adequate head clearance exists before initiating a lift or transfer.
- Never use a broken or damaged E-Pacer. Regular maintenance in accordance with this manual is necessary for safe use of the E-Pacer.

## **Key for users**

Use this key to determine which sections of this product manual apply to you.



**Technical Users** For professionals who order and set up Rifton products.



**Home Users** For care-givers who use Rifton products on a regular basis.



**Maintenance Personnel** For anyone who is responsible for service or re-ordering of Rifton products and parts.

## **IMPORTANT**

Please save this product manual for future reference. Additional copies are available at <http://www.rifton.com/customer-service/product-manuals>.

## Recommended use

The E-Pacer is a Class 1 medical device. It is a mobility and transfer device. As a mobility device it helps a caregiver raise a client to a standing position, and then provides support for standing or ambulation. For transfers it enables a qualified caregiver to lift a client in the seated posture and transfer the client between wheelchairs, chairs, toilets, beds or therapy tables.

## User and item dimensions

### User dimensions – inches (cm)



#### Key user dimension: Girth

**Girth: 22–55** (56–140)

**Important:** User's weight and height must not exceed:  
maximum height: 77 (196), maximum weight: 350 lbs (160 kg)

### Key dimensions – inches (cm)

### K660 E-Pacer

|                                                       |                                   |
|-------------------------------------------------------|-----------------------------------|
| E-Pacer overall length                                | 44 ¾ (113.5)                      |
| E-Pacer overall width                                 | 31 ½–51 ¾ (80–131.5)              |
| E-Pacer overall height                                | 32 ¾ min. – 59 max.<br>(83.5–150) |
| E-Pacer weight – lbs (kg)                             | 72 (32.5)                         |
| Turning diameter                                      | 50 (127)                          |
| Floor to top of base leg                              | 8 ¾ (22.5)                        |
| Min. user armpit height (when standing or ambulating) | 31 ½ (80)                         |
| Max. user height (when standing or ambulating)        | 77 (196)                          |
| Max. working load – lbs (kg)                          | 350 (160)                         |

## Check your order

Please check that your E-Pacer has been outfitted as you ordered it. Every E-Pacer comes with a battery and a battery charger.

All components are retrofittable with the exception of the scale, which must be ordered at the time of purchase. Please follow the instructions included in this manual to ensure that your E-Pacer is assembled and used correctly.

**If your shipment is incomplete or in any way damaged on arrival, please call customer service, 800.571.8198.**

## Basic item



## Body support system

### **WARNING**

To avoid injury, never operate the E-Pacer without the back belts in place. Always ensure that the buckles are fully latched before initiating a lift or transfer.

**Figure 7a:** The E-Pacer's body support system includes the body support pads, patient hand grips, ring clips, and the back belts, buckles and back pad.

**Figure 7b:** The back belts have a single point release with a safety cover over the buckle buttons to prevent accidental release. The straps are woven through a padded back pad, which spaces the straps apart and adds support and comfort for the user.

**Figure 7c:** For smaller users, the straps can be threaded through the middle slots as shown, or the pad can be removed completely.

The following can also be attached to the body support system, depending on how the E-Pacer is to be used:

- Thigh straps (see figure 16a, and pp. 23 – 24 for use)
- Pelvic support (see figure 16b and 16c, and p. 25 for use)
- Hip positioner (see figure 16d)
- Arm prompts (see pp. 17 – 18)
- Arm platforms (see p. 19)



Figure 7a



Figure 7b



Figure 7c

## Control box

**⚠ WARNING** To prevent inadvertent operation of the up/down switch when the E-Pacer is not in use, press the E-Stop button (A) to disconnect the battery.

**Figure 8a:** The control box houses the microprocessor and rechargeable battery which power and control the E-Pacer's electric actuator. Up/down arrows (B) on the control box control the E-Pacer's vertical movement.



Figure 8a

**Figure 8b:** To insert the battery, slide it into the control box, then push the battery back until it clicks into place. To remove it, squeeze the lever on the back and lift it out.

**NOTICE** To prevent long-term battery damage, remove the battery from the control box and place it in the charger every night, even if the battery level indicator is still green.

### Battery level indicator

**⚠ CAUTION** To prevent injury:

- Charge or change the battery immediately if the battery level light turns red; do not attempt further lifts or transfers with a red light.
- Prior to every use of the E-Pacer, activate the up/down button to turn on the battery level light, and verify that the light is green. If it is not, change or charge the battery.



Figure 8b



Figure 8c

**Figure 8c:** The battery level light indicates the charge remaining in the battery. A green light means the charge level is adequate for use, yellow indicates that the battery should be charged soon, and red indicates a very low charge. An audible beep indicates that the battery is entirely depleted. A fully charged battery will give approximately 70 complete lift cycles.

## NOTICE

To prevent damage to the battery, charge it when the light turns yellow. The indicator light will extinguish 10 minutes after the last activation of the up/down switch. It will turn on again if the up/down switch is used or if a battery is inserted into the control box.

If the battery level becomes critically low, indicated by the battery level light turning red, the microprocessor will disable the up/down switch. However, the emergency lowering button will continue to function.

The emergency lowering button will continue to function even if the battery level has dropped below the threshold for operation of the up/down switch. It overrides all other inputs.

## CAUTION

To prevent injury, all caregivers should become familiar with the location and operation of the emergency stop button and the emergency lowering button before using the E-Pacer.

### Emergency stop button

**Figure 9a:** To stop the E-Pacer motor in the event of an emergency, press the round red emergency stop button located on the front of the control box. Twist it clockwise to reset it.

### Emergency lowering button

**Figure 9b:** The emergency lowering button (A), located on the front of the control box, provides a means of lowering the body support if the up/down switch fails.

Press the emergency lowering button to lower the body support as required.



Figure 9a



Figure 9b

## Base frame expansion system

**⚠ WARNING** To avoid injury, ensure that all hands and feet are clear of the expansion handle and the base legs before expanding or retracting the base.

**Figure 10a:** The base frame expansion system adjusts the width of the base frame from  $31\frac{1}{2}$ – $51\frac{3}{4}$  (80–131½ cm). It expands so that clients can be lifted from wide chairs and wheelchairs, and retracts for maneuverability, and to enable the E-Pacer to pass through narrow doorways.

Swing the expansion handle to the right to expand the frame, and to the left to close it.

**Tip:** Disengage direction locks prior to moving the expansion handle.



Figure 10a

## Casters

### Adjustments

Figure 11a:

**Swivel lock (A)** prevents the caster from swiveling.

- **To engage the swivel lock:** press button (A).
- **To disengage,** press button (B).

Locking all four casters will keep the client traveling in a straight line.

Locking the rear casters (those behind the client) will help stabilize the client, while still allowing for turning.

**To engage caster brake (C),** press lower part of brake pedal. To release the brake, press upper part of brake pedal.

**To engage caster drag** rotate dial (D).

**Directional lock (E)** allows the caster to turn in one direction only, helpful for clients who may involuntarily roll backward while trying to walk. To engage the directional lock:

- Push lever down until it snaps into place.
- When the directional lock is engaged, the caster or wheel will make a clicking noise while moving forward, and lock when pushed backward.

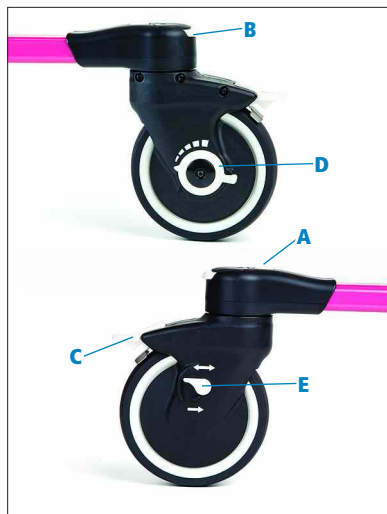


Figure 11a

# Components

## Front handle

**⚠ WARNING** To prevent pinching or crushing, ensure that all hands and feet are clear of the vertical lifting column before activating the up/down switch.

**Figure 12a:** The front handle enables a caregiver to maneuver the E-Pacer. It includes the up/down switch (A), located on top of the right hand-grip, which adjusts the height of the body support. Push the rocker switch up to raise the body support and down to lower it.



Figure 12a

## Attaching

The front handle is removed for shipping and must be attached to the E-Pacer frame with four bolts:

1. **Figure 12b:** With the Allen wrench found in the accessory carton, remove the four bolts from the cover plate and take it off.
2. **Figure 12c:** Hold the front handle against the attachment point as shown, insert the bolts in the holes, and tighten them snugly with the Allen wrench, starting with the top bolts.
3. **Figure 12d:** Insert the electrical jack plug into its receptacle on the actuator control box. The release tab on the plug must be facing towards you.



Figure 12b



Figure 12c



Figure 12d

## Scale

**Figure 13a:** The scale has two purposes: it can be used to measure a client's weight, and to measure the weight a client is bearing during ambulation.

To use the scale, turn on the display and use the lb/kg button to display either pounds or kilograms. Before approaching the client who will be weighed, attach all the components you will need for this particular client, (leg straps, arm supports, etc.) and then press the ZERO button to zero the scale. Proceed to lift the client. Once a client is completely supported by the E-Pacer, the client's weight will be displayed.

### **There are two ways to measure weight-bearing during ambulation:**

**Method 1:** Turn on and zero the scale as previously described. Once the client is lifted and in the walking position, the weight displayed is the amount of weight that the E-Pacer is bearing.

**Method 2:** Using the thigh supports and the seated transfer procedure, lift the client with the E-Pacer. With the client's full weight displayed on the scale, press the zero button. Next, re-position the client for ambulation. The weight the client is bearing will be displayed as a negative number.

**Figure 13b:** To replace the scale batteries, push outward on the small tab at the rear of the scale housing and lift the battery cover (a small, flat head screwdriver inserted into the slot at the back of the lid may be used to gently pry it up). Insert fresh AA Alkaline batteries; the cells must be oriented as shown by the inscription in each battery receptacle.



Figure 13a



Figure 13b

## Scale Information

- To obtain an accurate weight measurement, the client must be lifted clear of all weight-bearing surfaces, and the feet or legs must not be in contact with the base frame of the E-Pacer.
- The scale uses four AA Alkaline batteries. The battery life is approximately 100 hours of continuous use, or approximately 500 weight recordings.
- The scale will automatically turn off if it does not sense a change in weight for more than 10 minutes.
- The scale is accurate to one percent if used correctly.
- Rifton recommends that the scale be calibrated by a qualified technician at three to five year intervals, depending on frequency of use. For instructions on service and calibration, please contact Rifton customer service.

## Gait Tracker

The Gait Tracker app allows data from the E-Pacer scale to be displayed on mobile phones and tablets via a Bluetooth connection. The app has two primary functions.

1. It displays the weight measured by the scale, averaged over a 10 second interval for smoothness.
2. **Figure 15a:** It calculates the average weight on the E-Pacer over the course of a gait training session. This value can be used to record and track a client's weight bearing capability over time.

### To use the Gait Tracker app:

#### Figures 15b and 15c:

1. Install the app on your phone or tablet.
2. Activate Bluetooth on the scale by pressing the "BT" button (A).
3. Open the Gait Tracker app on your mobile device. Your device will pair with the scale when you open the app.
4. Press "start" on the app when you are ready to begin the gait training session.
5. Use the "pause" and "resume" commands as needed until the session is over.
6. Before pressing the "reset" button at the end of the session, be sure to make an external record of the session average if needed for tracking purposes. Pressing "reset" will clear all stored data from the app.

**Figure 15d:** To provide a client with access to the scale data, a phone may also be mounted on the client handlebar using a phone mount for a bicycle handlebar.



Figure 15a



Figure 15b



Figure 15c



Figure 15d

## Thigh straps

**Figure 16a:** Thigh straps are used to make seated transfers. Choose either narrow (5") or wide (7"), depending on the needs of your client. Additional straps can be purchased for individual clients.



Figure 16a

## Pelvic support

**Figure 16b:** The pelvic support is used for sit-to-stand transfers and supported ambulation. It is attached by hooking the rings to the color-coded clips of the body support system.



Figure 16b

**Figure 16c:** Note that the pelvic support may fit best when the straps are crossed.



Figure 16c

## Hip positioner

**Figure 16d:** The hip positioner is used to encourage optimum pelvic positioning during gait training. It has an optional pad for comfort. It is attached by hooking the back rings onto the grey clips of the body support system and the front rings onto two of the remaining four clips (including the yellow ones in the front). Adjust the four straps for further positioning.



Figure 16d

## Odometer

**Figure 16e:** The odometer displays distance traveled. To reset display to 0, press button (A). To display total lifetime distance traveled, press and hold button (A) for one second. Lifetime distance will be displayed in kilometers or thousands of feet, depending on unit setting.



Figure 16e

To switch between feet or meters, press and hold button (A) until units change (approximately 10 seconds).

## Arm prompts

**Figure 17a:** Arm prompts provide positioning support for clients who have low muscle tone. Arm prompts adjust in many directions and angles to accommodate different positioning requirements.

If arm prompts were purchased initially with the E-Pacer they will be attached and ready for use. If they were purchased separately, mounting brackets must be installed onto the body support.

### Attaching arm prompts and mounting brackets:

- **Figure 17b:** Remove the plastic hole cover (A) from the body support channel by unscrewing wing knob (B) inside the channel.
- **Figure 17c:** Install the mounting bracket (C) on the body support channel with the large, lipped end up.
- Securely tighten the attachment knob (D) on the threaded stud, which will now be protruding inside the body support channel.
- **Figure 17d:** Install the mounting arm by pressing the red adjustment button (E) and sliding it over the mounting bracket from the top or bottom

**Tip:** Arm supports generally give the most lifting support when adjusted with the client's elbow directly below the shoulder.



Figure 17a



Figure 17b



Figure 17c



Figure 17d

## Adjustments

Figure 18a:

### Height adjustment

Press button (A) and slide the post to the desired height.

### Loosen knob (B) to:

- Slide the arm pad toward or away from the user.
- Rotate up or down.
- Rotate in or out.
- Move the arm pad backward or forward.

### To adjust the handgrip:

1. Loosen knob (C).
2. Slide the handgrip (F) forward or back to match the client's forearm length.
3. Rotate the handgrip from side to side.

**Arm strap (D) and wrist strap (E) are used to secure the client's arm in the arm prompt.**

### To remove the mounting brackets:

1. **Figure 18b:** Unscrew the attachment knob (G) located inside the body support channel. Remove the arm prompt mounting bracket (H).
2. **Figure 18c:** Install the oval shaped hole cover (I) (found in accessory carton) by inserting the threaded stud through center hole and tightening the wing knob (J) inside the body support channel onto the stud.



Figure 18a



Figure 18b



Figure 18c

## Arm platforms

**Attaching/detaching** see pp 17-18

### Adjustments

#### Height adjustment:

**Figure 19a:** Press the red button (A) and slide the post to the desired height.

**Figure 19b:**

#### Loosen knob (B) to:

1. Tilt forward or backward slant.
2. Rotate horizontally.
3. Slide the arm platform toward or away from the client along the post.

#### To move the arm platform between backward and forward positions:

- Loosen knob (B).
- Remove the arm platform pad from the post.
- Spin the ratchet mechanism 180° so that the sleeve is in the opposite position.
- Remount the arm platform pad to the post.

**Figure 19a:** The arm straps (C) and wrist strap (D) secure the client's arm in the arm platform. They can be removed completely, if desired; unfasten the strap and pull it out of the slot beneath the platform.

#### To adjust the optional handgrip:

1. Loosen knob (E).
2. Slide handgrip forward or back for different forearm lengths, or rotate the it from side to side. The arm straps (C) and wrist strap (D) secure the client's arm in the arm platform.

**Tip:** Arm supports generally give the most lifting support when adjusted with the client's elbow directly below the shoulder.



Figure 19a

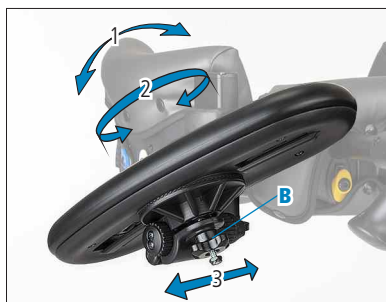


Figure 19b

## Switch pole



**WARNING** To prevent serious injury, a qualified caregiver must determine whether it is safe to place the up/down switch within reach of the client. Do not use the switch pole with clients of unreliable judgment.

The switch pole is designed to place the up/down switch within reach of a client in the E-Pacer, enabling either the client or the caregiver to adjust the height of the body support. To attach it:

1. Feed the wire through the mounting bracket on the control box.
2. Insert the switch pole into the mounting bracket, facing it either forwards or backwards.
3. **Figure 20a:** Plug the cord into the receptacle at the bottom of the control box.

### Adjustments (Figure 20b)

1. To change the orientation of the switch, lift the switch pole out of the mounting bracket and rotate it 180°.
2. Re-insert the switch pole into the bracket.



Figure 20a



Figure 20b

## Ankle prompts

### Attaching

Figure 21a:

Pull back white latches (A) and release into slots under frame legs.



Figure 21a

### Adjustments

Figure 21b:

- To secure, loosen or tighten strap around the ankle of the client, use buckle adjuster (B).
- Strap (C) can be adjusted to help guide the stride of the client.
- To limit or increase the stride of the client, squeeze and slide spring adjusters (D) along rods.

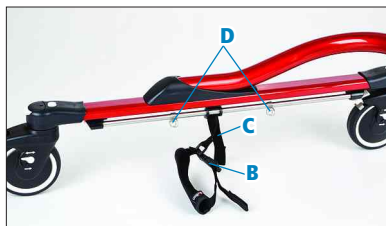


Figure 21b

## Operation

### WARNING

To avoid injury, do the following before and during every transfer:

- Move the origin and the destination of the transfer as close to each other as possible.
- Ensure that the body support system is positioned comfortably, correctly and securely, and that the safety buckles are properly engaged.
- Lift the client only high enough to perform the transfer.
- Check that the straps are snug and the body support system does not slide up or cause discomfort.

The E-Pacer offers three essential functions: **gait training**, **sit-to-stand transfer** and **seated transfer**. The following two pages illustrate these functions.

## Using thigh straps for a seated transfer:

1. **Figure 22a:** Clip one end of each thigh strap onto the yellow clips at the front of the E-Pacer's body support system.

**Tip:** To prevent outward movement of the thighs, the straps can be crossed in front and attached to the yellow clips on opposite sides.

2. **Figure 22b:** Position the body support system pads around the client's rib cage a few inches below the armpits.
3. **Figure 22c:** Secure snugly with both buckles and adjustment straps. Lock the caster brakes.
4. **Figure 22d:** Make sure both thigh pads are positioned well under the client's thigh, gray side up. Attach the other end of each thigh strap to one of the colored clips along the sides of the body support system. For clients with lower tone, choose a clip further back for greater support. Pull the adjustment straps snugly, and adjust them equally.

**Tip:** To ensure the straps are as far back as possible, help your client to raise one leg and place it on the curved tube in front or on your knee. This will make it easier.

**Tip:** In some cases, placement of the straps under the thighs may be performed first, before bringing the E-Pacer up to the client.



Figure 22a



Figure 22b



Figure 22c



Figure 22d

5. **Figure 23a:** Raise the client. Watch closely to make sure the client remains comfortable and does not sag (see Figure 23c). Unlock the caster brakes. Move the client to the transfer location. The E-Pacer base legs should be retracted for travel.



Figure 23a

6. **Figure 23b:** Gently lower the client onto the seat. Avoid lowering too far, so the body support system doesn't push down on the client's hips. (The E-Pacer will automatically stop and beep if it meets resistance.) Lock the caster brakes. Unclip the back ring on the thigh straps and pull the straps out from under the client. Release the back buckles.



Figure 23b



Figure 23c **Incorrect positioning**

**Tip:** If the client sags or feels insecure, add an additional strap as shown. Tighten both strap adjustments while standing behind the client.



## Using pelvic support for sit-to-stand or walking:

1. **Figure 24a:** Position the pelvic support under the client, either by lifting the client using the first five steps on page 22–23, or by folding the saddle, shifting the client to one side and positioning the saddle under the client one half at a time.
2. **Figure 24b:** Attach the pelvic support rings to the colored clips on the body support system. For thinner clients, positioning will be improved by crossing the front and rear straps as shown. Tighten all the straps snugly.
3. **Figure 24c:** As you raise the client, pull the E-Pacer gently toward you to mimic the natural sit-to-stand arc. Watch closely to make sure the client is comfortable and well supported throughout the lift.
4. **Figure 24d:** Adjust the body support height so the client can walk comfortably; the body support system should not be positioned too high under the armpits (shorten pelvic support straps as necessary). Make sure the saddle is positioned under the client as shown. If desired, use arm supports for additional support or positioning.



Figure 24a



Figure 24b



Figure 24c



Figure 24d

# Battery charger

**⚠ WARNING** To prevent shock or electrocution, do not charge batteries in a wet area.

## Installation

1. Remove the battery from the charger to access the mounting bracket.
2. **Figure 25a:** Attach the charger to the wall near an outlet, using two screws (A). Two screws are provided with the charger, however, they may not be suitable for every situation.
3. **Figure 25b:** Place the battery in the charger.
4. Plug the charger cord into a wall outlet.

## Charging

- Charge the battery for 24 hours before first use.
- Recharge the battery each night even if the control box light is still green.
- To charge the battery, remove it from the control box and place it onto the wall-mounted charger.
- The charger and indicator light will shut off automatically when charging is complete.
- Charging normally takes approximately six hours.
- During long periods of inactivity or storage, batteries will lose charge. Allowing batteries to deep cycle (become nearly or completely dead) will destroy them. To prevent this, store batteries in the charger. If you purchased an extra battery, consider purchasing a second charger.

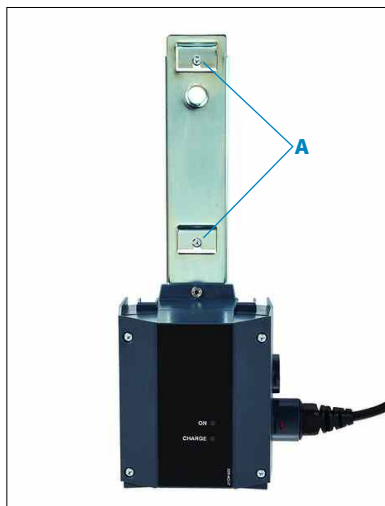


Figure 25a



Figure 25b



Old batteries should be disposed of properly at an appropriate recycling facility.

# Troubleshooting

## Scale display is blank

Make sure four new AA batteries are inserted correctly.

## E-Pacer veers to the side.

If the floor is uneven and E-Pacer veers to one side, we recommend the use of one or more swivel locks. Make sure all caster brakes are disengaged and casters spin freely.

## Lift column

Some play in the lift column is normal when the column is at the bottom of its stroke or unloaded.

## Control box and battery

- **Lift only goes up or only goes down. Green light on control box is on.**

This problem might be caused by a faulty switch on the caregiver handle/switch pole. If the up and down switches on the control box work, then replace the caregiver handle or switch pole.

- **Lift does not go up or down when battery is inserted and green light on control box is on.**

The problem could be either a faulty switch or lift actuator. First ensure that the wires at the bottom of the control box are plugged in properly. Then check to see if the up and down switches on the control box work. If they work, replace the caregiver handle or switch pole. If the control box up/down switches don't work, replace the control box.

- **Lift does nothing when battery is inserted. Green light on control box does not go on.**

The problem may be a faulty or dead battery or a failed control box. First make sure battery is latched securely into control box (see page 8). Then charge the battery or find an alternative battery. If the battery is more than three years old, consider replacing it. If the E-Pacer still does not function, replace the control box.

- **Lift does not go up or down. Light on control box is red.**

This indicates a critically low battery level. Recharge the battery. When the light is red, the E-Pacer can still be lowered using the emergency lowering button on the control box.

- **Lift goes up or down without pressing the switch.** (The red emergency stop button will always stop all movement.)

Unplug the front handle or switch pole cord. The cord is on the left and has a plug similar to a phone cord or network cable. If this stops the motion, the caregiver handle or switch pole should be replaced. If not, the control box should be replaced.

- **Light on control box is green when battery is inserted but goes off when the up button is pressed. Battery doesn't seem to hold a charge.**

When the battery is at the end of its useful life, the voltage may drop so rapidly that the indicator will no longer show orange or even red. Its performance will diminish, and it may no longer hold a charge. Replace the battery.

The E-Pacer battery has a maximum life of five years. This life span is shortened if the battery discharges too deeply. Charge your battery as often as possible and store it on the charger when not in use.

- **Lift beeps when down button is pushed.**

For safety, the E-Pacer's actuator control system continuously monitors the force exerted by the actuator as the body support is lowered. It stops if an excessive rise in force is detected, for example the body support pushing down on the client's hips. The control box will beep if this happens, and will continue beeping until the down button is released.

This system is sensitive and may occasionally issue a false alert, especially if the E-Pacer is cold or has been idle for some time. If a false alert occurs, re-engage the down button.

## Charger

The green light on the charger means the charger is plugged in. The yellow light means the battery is charging. If the yellow light does not come on when the battery is placed in the charger, the battery could be already fully charged, or the battery is completely dead and must be replaced.

## Technical data

- **Lifting speed:** 1.5" (4 cm) / sec with no load.
- **Battery:** 24V, 2.9 Ah valve-regulated lead-acid gel-type batteries. (Replacement batteries available from Rifton)
- **Battery charger:** Wall-mounted charger, 100 - 240 V AC, max 650 mA.
- **Motor:** 24 V, 6A, permanent magnet motor.
- **Emergency lowering:** Electrical
- **Casters:** 5½" diameter
- **Motor duty cycle:** Two minutes continuous use followed by 18 minutes idle.
- **Turning diameter:** 50" (127 cm)
- **Mass of E-Pacer:** 72 lbs (32.5 kg)

31½"  
(80 cm)

24¾"  
(63 cm)

51¾"  
(131.5 cm)



7"  
(18 cm)

59"  
(150 cm)

8¾"  
(22.5 cm)

32¾"  
(83.5 cm)

44¾"  
(113.5 cm)



# Maintenance

This product is designed and tested for an expected life of five years when used and maintained in accordance with this manual. At all times, users must ensure that the product remains in a safe and useable condition, including regular maintenance and inspections as specified in the manual.

To prevent structural failure, which may result in serious injury or death:

- Inspect this product and components regularly for loose or missing screws, metal fatigue, cracks, broken welds, missing attachments, general instability or other signs of excessive wear.
- Immediately remove this product from use when any condition develops that might make operation unsafe.
- Do not use Rifton components or products for any purpose other than their intended use.
- Replace or repair components or products that are damaged or appear to be unstable.
- Use only Rifton authorized replacement parts. Order information for replacement parts is provided on the back of this product manual.

Do not use petroleum-based or solvent-based lubricants on casters, but lubricate when necessary with silicone spray or graphite.

# Cleaning

## CAUTION

To minimize risk of infectious disease transmission, clean and disinfect the E-Pacer between uses by different patients.

## NOTICE

To avoid damaging the product:

- Do not use excessive amounts of water when cleaning the E-Pacer.
- Wash casters with water after outdoor use. Avoid mud and sand.
- Do not use high-pressure spray or steam cleaning.
- Do not clean the piston rod of the E-Pacer's electric actuator.

The E-Pacer and its components may be cleaned with broad spectrum, multi-purpose disinfectant sprays and wipes or a solution of up to 10% bleach. Do not use solutions containing perfumes or staining ingredients.

The leg straps and pelvic support may be machine washed in cold water and air dried. The straps with hook and loop closures may also be laundered. Engage the closures before washing.

# Maintenance and inspection checklist

| Check every six months                                                                                                                                                                                 | Year 1 |      | Year 2 |      | Year 3 |      | Year 4 |      | Year 5 |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|--------|------|--------|------|--------|------|--------|------|
|                                                                                                                                                                                                        | Date   | Date | Date   | Date | Date   | Date | Date   | Date | Date   | Date |
| Wheels secure and brakes function.                                                                                                                                                                     |        |      |        |      |        |      |        |      |        |      |
| No metal cracks or broken welds. (Visually inspect the frame especially the welds on the ends of the curved tubes that secure the legs to the column.)                                                 |        |      |        |      |        |      |        |      |        |      |
| All hardware and bolted connections secure – no loose joints.                                                                                                                                          |        |      |        |      |        |      |        |      |        |      |
| Leg spreader functions smoothly through its full range.                                                                                                                                                |        |      |        |      |        |      |        |      |        |      |
| Actuator raises and lowers through its full range with no wobble or unusual noise.                                                                                                                     |        |      |        |      |        |      |        |      |        |      |
| Emergency lowering button (see page 9) functions. With the Up button pressed and the column extending, press the emergency lowering button to ensure it overrides the Up button and lowers the column. |        |      |        |      |        |      |        |      |        |      |
| The emergency stop button, when pressed, should stop the actuator.                                                                                                                                     |        |      |        |      |        |      |        |      |        |      |
| All straps (including the body support straps) and their attachment points are intact and there is no fraying or loose seams.                                                                          |        |      |        |      |        |      |        |      |        |      |
| Both body support buckles clip together securely.                                                                                                                                                      |        |      |        |      |        |      |        |      |        |      |

## Warranty statement

If a Rifton product breaks or fails in service during the first year, we will replace it free of charge.

## Materials

- Steel hardware items (nuts, bolts, screws, etc.) are typically zinc or nickel plated, or stainless steel.
- Upholstery items (pads, support blocks, padded prompts, etc) are typically polyurethane foam with a fire-retardant cover made from expanded polyurethane and tough nylon.
- Non-upholstered pads are made of a closed-cell, injection molded foam.
- Frames are typically steel or aluminum tubing, welded together and are finished with powder coated paint. Some frame components may also be stainless steel.
- Straps are typically made of polypropylene or nylon webbing.
- Plastic components are typically injection molded from a variety of industrial resins.

All components are lead free and not made with natural rubber latex.

## User modifications

**To prevent serious injury or death, do not modify or alter Rifton products or components, or use Rifton products or components in conjunction with products from other manufacturers. Rifton does not accept responsibility for any modifications or alterations made to our components or products after they leave our premises. Customers modifying or altering our components or products, or using them in conjunction with products from other manufacturers, do so at their own risk.**

## Rifton Contact Information



### Email

[sales@rifton.com](mailto:sales@rifton.com)



### Phone

**800.571.8198**  
9–5 EST



### Mail

Rifton Equipment  
PO Box 260  
Rifton NY 12471–0260



### Fax

**800.865.4674**



### Online

[www.rifton.com](http://www.rifton.com)

## To order replacement parts

1. **Locate the ID number** of the product on the small white label.
2. Have this number available when you call **800.571.8198** for your customer service representative.

### Use only replacement parts supplied by Rifton Equipment.

We are glad to supply replacement parts. Although Rifton makes every effort to supply correct parts and instructions for repairing or refurbishing your equipment, you are responsible to make sure that the repairs or modifications are correctly and safely completed.



Find letters of medical necessity  
and informative articles at:  
**[www.rifton.com/E-Pacer](http://www.rifton.com/E-Pacer)**