

SoloLift

R710 Product Manual



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 rifton®

Contents

Warnings and Important Information	3
Recommended Use	4
Product Information	5
Technical Data	5
Before & During Every Transfer	6
Inspection	6
SoloLift Scale (optional)	6
SoloVest	7
Transfer	8
Operation	10
Charging Batteries	11
Troubleshooting	11
Cleaning	12
User modifications	12

Key for EU users

Use this key to determine which sections of this Product Manual apply to your job.



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



Home Users For clients and 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.

WARNINGS

- Thoroughly read and understand the information in this guide before attempting to use this product. If the procedures and instructions in this guide are not followed, serious injury could occur.
- Proper use of this product requires the prior approval and ongoing supervision of a qualified therapist or physician. Adult supervision is required at all times.
- Straps and supports are provided for the safety of the user. The straps and supports need to be carefully adjusted for the comfort and security of the user, and can never take the place of the care-giver.
- Restraints—Some people use straps, trays or supports to restrict a child’s movement. This is a behavioral restraint and may raise ethical and legal issues which you should check with your particular facility. Rifton Equipment is not intended for this use.
- This product may not be appropriate for all clients; clients must be assessed by a qualified therapist or physician prior to use.
- Clients will experience some shear force to soft tissues when lifted with the SoloLift. Prior to use, a qualified professional must assess each individual with this in mind, especially those with fragile skin.
- Slippery clothing may cause the SoloVest to slide up on the client, making a safe transfer difficult.
- This product is intended for indoor use only and must not be used in or around water.
- Ensure all hands and feet are clear of the foot pedal mechanism and junction of the base tube and legs before adjusting base legs in or out.
- Use only the Rifton SoloVest with the Rifton SoloLift.

IMPORTANT

- Please save this Product Manual. Additional copies are available at www.rifton.com
- Please refer to the Rifton product catalog for our full warranty, or visit www.rifton.com

Recommended Use

The SoloLift is a mobile transfer device. With zero lifting, the SoloLift enables a single caregiver to easily transfer a client weighing up to 350 lbs to and from wheelchairs, chairs, toilets, gait trainers, beds, or the floor. It creates many new opportunities for easier and more dignified transfer by lifting clients in a natural sit-to-stand arc and by lifting entirely from above the waist using the specialized SoloVest.



Product Information

The SoloLift complies with the requirements of MDD 93/42/EEC, IEC 60601-1, IEC 60601-1-2, EN ISO 10535, and Cal 117.

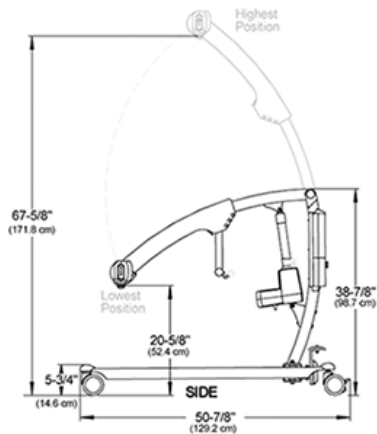
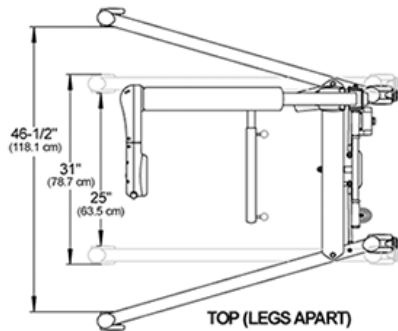
The fabric and foam composite used in the SoloVest are not flame-resistant when assessed by EN1021 Part 2. All materials pass California Flammability Regulation 117.

Transmitting devices (such as cell phones) may interfere with the function of the lift and should not be used nearby during operation.

Maximum User Weight: 350 Lbs (160 kg)

Technical Data

- **Lifting speed:** 2.1 inch/sec with no load
- **Batteries:** 12V, 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, 10 A, permanent magnet motor
- **Emergency lowering:** Mechanical and electrical
- **Frame Material:** Powder coated steel
- **Vest Materials:** Urethane foam covered by PVC and polyurethane coated knit polyester fabrics.
- **Wheels:** Front: 100mm dual
Rear: 100mm dual with brake
- **Duty Cycle:** Two minutes continuous use followed by 18 minutes idle.
- **Degree of protection:** IP 65
- **Turning diameter:** 56" (142 cm)
- **Mass of SoloLift:** 140 lbs (64 kg) with Scale 152 lbs (69kg)
- **Mass of SoloVest:** 5 lbs (2.3 kg)




Before Every Transfer

- Thoroughly inspect the SoloVest for tears, rips and worn areas, giving special attention to the straps and buckles. Remove the product from service if any condition develops that might make use unsafe.
- Assess whether additional caregivers are needed.
- Ensure the SoloVest is positioned correctly and adjusted tightly.
- Lock wheels on client equipment during transfers.

During Each Transfer

- At the beginning of each transfer, while the client is still seated and the straps are taut, check that the SoloVest does not slide up or cause discomfort.
- Lift the client only high enough to perform the transfer.

 **WARNING:** Adult supervision is required at all times

Inspection

Check daily for:

- External damage or wear to the SoloLift and the SoloVest.
- Proper functioning of the emergency stop.

Check periodically for:

- Cracks, breaks, loose, or missing parts and/or malfunctions.
- Remove the product from service when any condition develops that might make operation unsafe.

SoloLift Scale (optional)

Directions for use:

1. Turn on the display and set the measurement unit to pounds or kilograms as desired
2. Attach the appropriate SoloVest. Quickly and lightly depress the zero button to zero out the scale. When the display shows 000.0 the scale is ready for use. If it does not, repeat step two while making sure that nothing else is touching the SoloLift structure.
3. Lift the patient clear of all weight bearing surfaces to read patient weight. Verify that nothing else is touching the SoloLift for accurate reading

SoloVest

Three sizes of the SoloVest are available, to fit a range of clients.
All SoloVests are rated at 350 lbs (160 kg).



Small SoloVest (green)
Girth: 22"–34" (56–86 cm)



Medium SoloVest (light blue)
Girth: 28"–40" (71–102 cm)



Large SoloVest: (dark blue)
Girth: 36"–60" (91–152 cm)

The SoloVest should be positioned on the client with the vest pads underneath the arms and overlapping in the front.

Important: Position the SoloVest well below the client's arms. Secure the buckles and pull the straps until tight.

SoloVest correct size; Pads overlap and straps can be tightened (See Figure 1).



Figure 1. Front view.

CAUTION: The SoloVest is too big for the client if the pads overlap too far and the straps cannot be tightened.

WARNING: A risk assessment must be conducted to ensure the correct size SoloVest is selected and is appropriate for each client being lifted.

WARNING: Do not attempt transfer if the SoloVest slides up on the client during lifting. Sliding up is an indication that the SoloVest may be too big or the straps too loose, or that the product is unsuitable for that client.

SoloLift Scale (cont'd):



Notes:

1. The scale is accurate to one percent if used correctly.
2. Rifton recommends that the scale be checked for accuracy by a qualified technician at intervals of no less than 3–5 years, depending on frequency of use. For instructions on service and calibration please contact Rifton customer service.

Transfer to sitting position using leg straps

1. Position the SoloVest around the client and pull the straps until tight. (Refer to SoloVest section of Product Guide for correct positioning and sizing.)
2. Roll the SoloLift up to the client with the swing arm in the raised position (Figure A). Extend base legs if necessary. Once the SoloLift is in position, rotate the swing arm down behind the client.
3. Attach the SoloVest clips through the holes on the SoloLift swing arm (Figure B).
4. Attach the Leg Straps by hooking the silver rings over the blue hooks on the user handle (Figure C). Adjust the length of the Leg Strap as necessary.
5. Once the client is secure and comfortable, activate the lift by using the hand pendant, verifying that the SoloVest is secure and is not sliding up (Figure D). If the SoloVest slides up, stop lifting immediately. Lift the client only high enough to perform the transfer.



Figure A



Figure B



Figure C



Figure D

Transfer to standing position without leg straps

1. Position the SoloVest around the client and pull the straps until tight. (Refer to SoloVest section of Product Guide for correct positioning and sizing.)
2. Roll the SoloLift up to the client with the swing arm in the raised position (Figure A). Extend base legs if necessary. Once the SoloLift is in position, rotate the swing arm down behind the client.
3. Attach the SoloVest clips through the holes on the SoloLift swing arm (Figure B). Leave the leg straps unattached to lift client into a standing position.
4. Once the client is secure and comfortable, activate the lift by using the hand pendant, verifying that the SoloVest is secure and is not sliding up (Figure E). If the SoloVest slides up, **stop lifting immediately**. Lift the client only high enough to perform the transfer.
5. Push the blue rotation lock lever up to allow rotation of client for loading into a forward-facing gait trainer or other standing device (Figure F). Pull lever back down to lock after rotation is complete. (Figure G)
6. Secure client in the destination device before removing the SoloVest (Figure H).



Figure E



Figure F



Figure G



Figure H

Operation

Rotation lock: Push the blue rotation lock lever up to unlock and allow client to rotate. Pull lever down to lock after rotation is complete.



Hand pendant: Operate the lift by using the up and down buttons on the hand pendant.



Emergency mechanical lowering: If electrical operation fails, lower the client by pulling the red emergency lowering regulator straight up. (This will only work when the SoloLift is loaded.)



Electrical emergency lowering: If the hand pendant fails to operate, lower the client by using a narrow object (such as a ball-point pen) to push the hole marked "EMERGENCY" on the control box.



Emergency stop: To stop the SoloLift in an emergency, push the red emergency stop button on the control box. Reset by turning the button clockwise.

Extending the legs: Step on the upper foot pedal to extend or retract the frame legs.



Charging Batteries

- Charge batteries 24 hours before first use and after any long period of inactivity.
- When the battery needs charging, an indicator light on the hand pendant will illuminate.
- Remove the battery from the control box, and secure to the wall-mounted charger.
- The batteries should be charged frequently to ensure maximum battery life.
- The charger and indicator light will shut off automatically when charging is complete.
- Charging normally takes approximately six hours.
- For best results, recharge fully after each day of SoloLift use.



WARNING: Do not charge batteries in a wet area.



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

Troubleshooting

Lift does not go up or down:

1. Make sure the emergency stop is not depressed in (turn button clockwise to reset).
2. Make sure the electrical cables are secure.
3. Make sure the battery is charged and installed correctly.
4. Make sure the battery contact plate is not damaged or broken.
5. Contact Rifton.

Battery does not charge:

1. Make sure the battery contact plate is not damaged or broken.
2. Make sure the wall charger is plugged securely into the wall socket.
3. Contact Rifton.

Any unusual noise:

Contact Rifton.

Cleaning

All surfaces of the SoloLift and SoloVest can be cleaned with a damp cloth and a mild detergent or disinfectant (a 10:1 water to bleach solution is suitable for the SoloVest). Do not use excessive water.



WARNING: Do not machine wash or submerge SoloVest in water.

User modifications

We recognize that some clients may benefit from modifications made in the field. However, we cannot be responsible for customer-modifications to our products without our supervision, testing, or evaluation.