

Supine Stander

E420 & E430 Product Manual



E430 Large Supine stander



E420 Small Supine stander



Contents

Warnings and important information	4
Recommended use	5
User and item dimensions	5
Check your order	6
Basic Item components	
Headboard	7
Footboard	8
Small Supine Stander mainboard (E420)	9
Large Supine Stander mainboard (E430)	11
Accessories	
Tray	13
Hand anchors	14
Arm anchors	15
Abduction wedge and block	16
Operation	17
Maintenance, cleaning and warranty	18
Materials	19
User modifications	19

Key for EU 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 caregivers who use Rifton products on a regular basis.
-  **Maintenance Personnel** For anyone who is responsible for service or reordering of Rifton products and parts.

WARNINGS

- Thoroughly read and understand the information in this product manual before attempting to use this product. If the procedures and instructions in this manual are not followed, serious injury could occur.
- A qualified professional must assess the appropriateness and safety of all equipment for each user.
- This product is intended for use by clients of unreliable judgment. Adult supervision is required at all times.
- Do not use this product on rough and uneven terrain, around swimming pools, or near stairways.
- All mobility equipment may become unstable when used improperly.
- Straps and supports are provided for the safety of the user and must be carefully adjusted for comfort and security. The use of straps and supports must be supervised at all times.
- Restraints – Using straps, trays or supports to restrict a client’s movement is considered behavioral restraint, which may raise ethical and legal issues for your facility. Rifton Equipment is not intended for this use.

IMPORTANT

- Please save this product manual. Additional copies are available at www.rifton.com

Recommended use

WARNING

The Supine Stander is not a transportation device.

The Rifton Supine Stander is a Class 1 medical device. It supports the user in the standing position. The Supine Stander differs from a tilt table in that it allows much greater control of the head, trunk, pelvis, knees, and feet while allowing variable weight-bearing. It is especially suitable for users who lack sufficient anti-gravity control of the head and shoulder girdle.

For users who have sufficient head and upper trunk control, the headboard folds down to encourage independence.

The E430 large Supine Stander is recommended for children/adults between 46" and 72" (117 cm – 183 cm) tall and up to 250 lbs.

The E420 small Supine Stander is recommended for children/adults between 30" and 50" (75 cm – 127 cm) tall and up to 100 lbs.

User and item dimensions

User dimensions – inches (cm)	small	large
Height	30–50 (76-127)	46–72 (117-183)
 <p>Key user dimension: height Select the appropriate Stander by the user's overall height. Choose the model that allows for growth.</p> <p>Important: User's weight must not exceed the maximum working load.</p>		

Item dimensions – inches (cm)	small	large
Board length and width	51 x 16½ (130 x 42)	71 x 19 (180 x 48)
Distance between lateral supports	7–13 (18–33)	9–16 (23–41)
Height when horizontal	28½ (72)	21–30 (53–76)
Height when vertical	54½ (138)	74 (188)
Base length and width	37½ x 27 (95 x 69)	46½ x 29½ (118 x 75)
Max. working load in lbs. (kg)	100 (45)	250 (114)

Check your order

This product comes in a single carton, containing:

1. Supine Stander (includes padding, footboard, adjustable armrests, hip strap, chest strap, leg straps, one pair of lateral blocks, one pair of headblocks and double-locking casters).
2. Accessories for the Supine Stander.
3. This product guide.

You may not have ordered all of the available accessories, but use the diagrams that follow to confirm that your order is complete.

If your shipment is incomplete or in any way damaged on arrival, please call Customer Service, 800.571.8198.

Basic item components

Headboard

Installing headboard

Lift the headboard, slide the cleat (A) into frame slot, and tighten the cleat knob (B) (see Figure 7a).

Installing head blocks

1. Loosen two knobs (C) on the head block adjusting clamp.
2. Remove the lateral block with curved bracket (D), turn it upright, and insert bracket into clamp.
3. Slide curved bracket into clamp past the safety dimples to desired spacing. Brackets must overlap if spacing of less than 8" is required.
4. Tighten both knobs (C) to secure head support block.
5. Repeat this procedure on the second head support block.

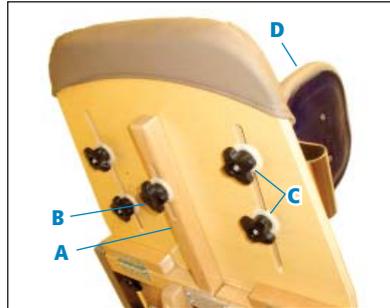


Figure 7a



Figure 7b. Headboard with head blocks installed.

Adjusting headboard

Position headboard by raising it and sliding cleat (A) into the frame slot. Tighten cleat knob (B). If headboard is not needed, slide cleat up, tighten knob, and fold the headboard down.

Adjusting head blocks

Loosen the two knobs on the clamp, slide the block to the desired position, and tighten knobs securely.

Notice: If you are using the Supine Stander for a child whose head does not extend above the main board, remove the head blocks and the two clamps. Remount the clamps in the top slots of the main board. Install the head blocks as described above.

WARNING

The headboard must be in place before tilting user to a horizontal position. When adjusting the headboard, make sure that the area where it contacts the main board is clear.

Footboard

Installing sandals

Either large or medium sandals can be mounted to the footboard.

1. Insert carriage bolts with bushings through the bottom of the footboard.
2. Insert sandal base onto bolts and adjust sandal before tightening knobs (A) securely (see Figure 8a).
3. Place sandal onto base and lock into place with latch (B).

Adjusting sandals

To adjust sandals, loosen knobs (A), move sandals to the desired position, and tighten knobs. Sandal height can be built up or a toe/heel angle achieved by using one or more wedges.

(see Figures 8a and 8b)

Installing sandal wedges

To add a wedge, unlatch and remove sandal from the base, place wedge over the base and latch it into place; any number of wedges can be added. Place and latch the sandal on top of the wedges.

Adjusting footboard

The footboard can be adjusted to accommodate users of varying heights. Loosen the clamp knobs (C), move board to the desired height, and tighten knobs securely. For the user's security, footboard is best left as close as possible to the floor (see Figure 8b).

Adjusting the casters

Swivel casters allow the Supine Stander to be moved easily. The foot-operated brake, locks both the wheel and the swivel simultaneously.

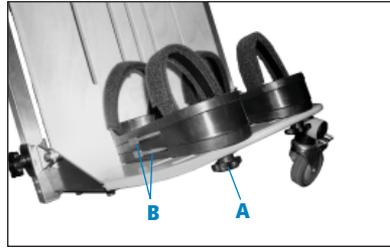


Figure 8a

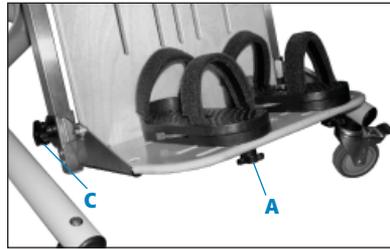


Figure 8b

WARNING

- The footboard must be in place before tilting the user to a vertical position.
- The footboard has a potential crush point. It must be correctly positioned, the height adjusted, and the knobs tightened securely before placing a user on the board.

CAUTION

For safety, all four casters should be locked at all times, whether the item is occupied or unoccupied. Unlock the casters only when moving the Supine Stander from one location to another. To lock caster, depress the bottom part of brake. To unlock, push the top part of brake forward.

Small Supine Stander mainboard (E420)

Adjusting the mainboard

The hand crank (A) controls the transfer height adjustment and the tilt angle of the mainboard. By turning the crank, the board will begin to tilt. Continue to turn the crank until the desired angle is reached (see Figure 9a).

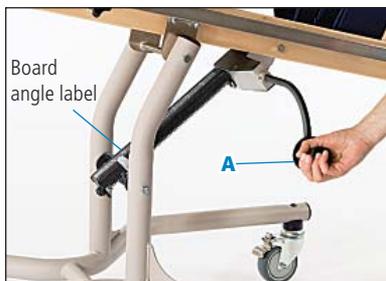


Figure 9a

Installing lateral blocks

Lateral blocks (B) ship unassembled. Follow instructions below to install them.

1. Remove knob and plastic washer, leaving rubber washer on the lateral block.
2. Slide bolt of lateral block through slot in board.
3. Replace knob (C) and plastic washer on bolt on back of board, and tighten knob (C) securely (see Figure 9b).

Notice: Tilt angle is indicated on the board angle label. This can be used to record the correct angle setting for each user.

Adjusting lateral blocks and straps

Any lateral block or strap can be adjusted in and out or up and down. Loosen the appropriate knobs, slide the block or strap to the desired position, and tighten the knobs securely.

To completely remove a lateral block or strap, loosen the clamp knobs enough to slide the bracket out past the safety dimples, or loosen knobs completely and remove the block or strap. The block or strap can then be moved to a different set of clamps and the knobs tightened securely.

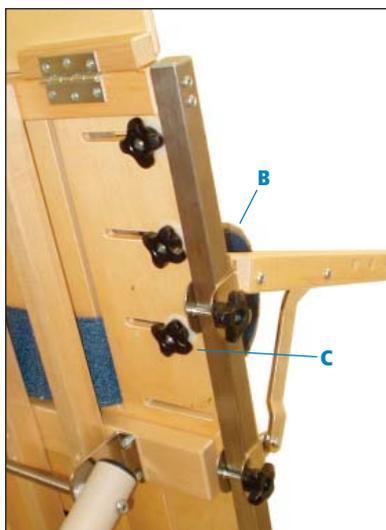


Figure 9b

Adjusting hip strap

It is possible to place the hip strap (A) in line with the lateral blocks. Loosen the clamp knobs enough to allow the hip strap metal bracket to lie on top of the lateral block. Tighten clamp knobs securely.

Adjusting knee straps

To adjust height of knee strap, pull back of strap away from hook-and-loop fabric at back of the mainboard, slide strap to the desired height, and resecure hook-and-loop fabric.

Adjusting arm rests

To adjust height of armrest, loosen both knobs (B), slide armrest to desired position, and tighten knobs securely. To adjust angle of armrest, loosen the bottom knob only, lift or lower front of armrest to desired position, and tighten knob securely (see Figure 10a).

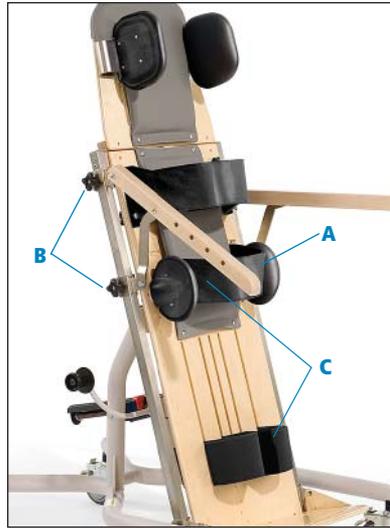


Figure 10a

WARNING

- The strap safety closures (C) must be secured when in use.
- The armrest has a potential crush point. Care should be taken when adjusting armrest while a user is in the stander. After adjustment, be sure knobs are tightened securely.

Large Supine Stander mainboard (E430)

Adjusting the mainboard

The hand crank (A) controls transfer height adjustment and the tilt angle of the mainboard. By turning the crank, the board in its horizontal position will move vertically from 21" to 30" (53cm to 76cm) and then begin to tilt. Continue to turn hand crank until desired angle is reached (see Figure 11a).



Figure 11a

Installing lateral blocks

Lateral blocks (B) ship in reverse position.

To reposition lateral blocks:

- Loosen knobs (C) and slide blocks out from under the clamp.
- Rotate blocks into correct position and replace them under the clamp.
- Retighten knobs (see Figure 11c).

Use knobs (C) to adjust the blocks laterally and vertically.

Adjusting blocks and straps

Any support block or strap can be adjusted in and out or up and down. Loosen the two knobs on the appropriate clamp, slide block or strap to the desired position, and tighten knobs securely.

To completely remove a support block or strap, loosen clamp knobs enough to slide bracket out past the safety dimples (D). The block or strap can then be moved to a different set of clamps and the knobs tightened securely (see Figure 11c).

Notice: Tilt angle is indicated on the board angle label. This can be used to record the correct angle setting for each user.

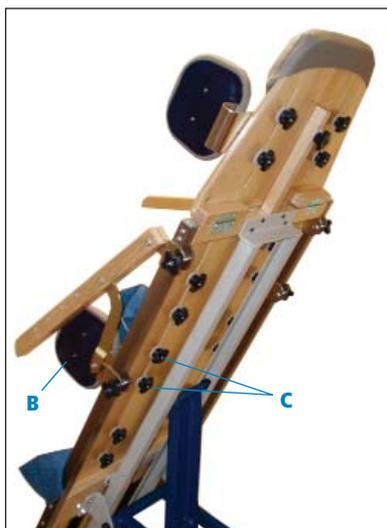


Figure 11b



Figure 11c

Adjusting the hip strap

It is possible to place the hip strap (A) in line with the lateral blocks. Loosen the clamp knobs enough to allow the hip strap metal bracket to lie on top of the lateral block. Tighten clamp knobs securely.

Adjusting knee straps

To adjust height of knee strap, pull back of strap away from hook-and-loop fabric at back of mainboard, slide strap to the desired height, and resecure hook-and-loop fabric.

Adjusting arm rests

To adjust height of armrest, loosen both knobs (B), slide armrest to desired position, and tighten knobs securely. To adjust angle of armrest, loosen the bottom knob only, lift or lower front of armrest to desired position, and tighten knob securely.

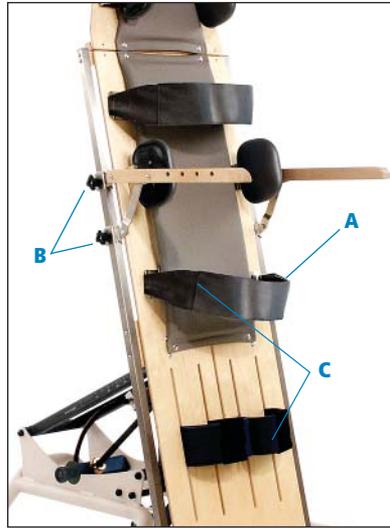


Figure 12a

WARNING

- The strap safety closures (C) must be secured when in use.
- The armrest has a potential crush point. Care should be taken when adjusting armrest while a user is in the stander. After adjustment, be sure knobs are tightened securely.

Accessories

Tray

Installing the tray

A clear or opaque tray may be fitted to the armrests. Position both armrests at the same height and angle. Attach tray by inserting the tray latches into appropriate armrest holes (see Figure 13a and 13b).

Adjusting the tray

The tray can be adjusted in and out by opening the tray latches and moving them to a different set of holes in the armrests (see Figure 13b).



Figure 13a



Figure 13b

Hand anchors

Recommended use

Hand Anchors can be used on any of our available trays. They give the client an anchor to control excessive movement of the arms and encourage stabilization of the shoulder girdle. The client may hold on with both hands for stabilization training or with one hand, keeping the other hand free.

Operation

On a clean smooth Rifton table or tray, press down on suction cup and turn handhold clockwise until secure. To remove, turn handhold counterclockwise.

Notice: Surface must be very smooth and completely clean to get a strong seal. If suction cup does not hold well, wipe with a damp cloth or apply a thin layer of petroleum jelly around the rim of the rubber pad to enhance the vacuum.



WARNING

- Adult supervision is required at all times.
- This accessory is intended for use on Rifton trays only and is not to be used as a primary support or as a standing support.

CAUTION

- Suction cup may release.
- Do not use on thin glass.

Arm Anchors

Recommended use

The arm Anchor is intended to stabilize one arm on a table or tray, or as a pair to stabilize both arms. Providing increased stability to the forearm, arm anchors may be beneficial for head and trunk control and to allow functional use of an unanchored arm.

Adjustment

Arm and wrist straps can be adjusted and secured with hook-and-loop fasteners. Move handhold backward and forward or rotate by loosening the knob.

Operation

On a clean smooth table or tray, press down on suction cup, and lower lever. Place arm on arm anchor pad and secure it with arm and wrist straps. If suction cup does not hold well, wipe with a damp cloth or apply a thin layer of petroleum jelly around the rim of the rubber pad to enhance the vacuum.



WARNING

- Not a primary support.
- Straps and supports are provided for the safety of the user and must be used with supervision. They must be carefully adjusted for the comfort and security of the user.
- Not to be used as a standing support.

CAUTION

- Suction cup may release.
- Do not use on thin glass.

Adjustable abduction wedge

Installing

Remove the knobs (A) and one washer off each threaded stud.

1. Place abduction wedge in appropriate slot with one plastic washer on each threaded stud between wedge and Stander.
2. Put the second washer on each of the threaded studs between knobs and Stander.
3. Thread and tighten knobs securely.

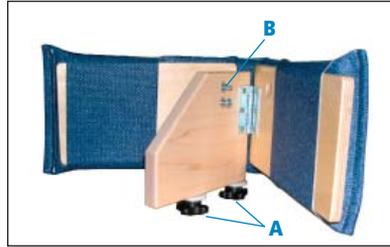


Figure 16a. Adjustable abduction wedge

Adjusting

To adjust the amount of abduction, raise one wing of the wedge to expose the adjustment screw (B). Turn screw out to increase abduction. Raise the second wing, and adjust it in the same way.



Figure 16b. Round abduction block

Round abduction block



Installing

To install the round abduction block, remove the knob and place where appropriate. Re-tighten knobs securely.

Collar

Installing

To attach the collar to the abduction block, wrap it around the block, and fasten snaps.



Figure 16a. Collar

Operation

1. Lock all four casters.
2. Crank the Supine Stander to desired horizontal height for ease of transfer.
3. Slide the armrest and the lateral block away from the transfer area. Open the chest, hip and knee straps.

WARNING

- Make sure that both the headboard and footboard are in place before transferring the user.

4. Transfer the user onto the Supine Stander in a horizontal position, make final adjustments to all straps and close.
5. Adjust the head block and lateral blocks.

WARNING

- Make sure the safety closures on the straps are secure.

6. Secure the user's feet in the sandals and adjust positioning.
7. Adjust the armrests to the user's elbow height, and set to the appropriate angle.

WARNING

- Make any final adjustments, make sure that everything is in place, and that all knobs are tight and secure.

8. Crank the Supine Stander to the desired angle as indicated on the board angle label.
9. A tray may now be installed on the armrests (see page 13).

Maintenance

This product is designed and tested for an expected life of 5 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 failures and SERIOUS INJURIES, do not use Rifton components and products for any purpose other than for their intended use. Inspect Rifton components and products regularly for loose or missing screws or rivets, metal fatigue, cracks, broken welds, missing attachments, loose staples and general instability. Immediately remove from use when any condition develops that might make operation unsafe. 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.

Twice a year lubricate all four casters. Apply a drop of light oil to the ball bearings and to the axle on each side of the caster wheel.

Once a year, check the lubrication of the threaded rod. If it seems dry, apply a general purpose grease to the length of the rod.

Cleaning

Clean the Supine Stander, pads, and straps with disinfectant wipes or a solution of up to 10% bleach. Do not use excessive water on pads and wooden surfaces.

Clean trays with mild soap or detergent. Avoid abrasive cleaners and aromatic spirits. Disinfectants can be used, but no solvents. Never scrape with razor blades or other sharp instruments. Do not clean in hot sun or at elevated temperatures. Do not send through a dishwasher.

The components of the arm anchor can be removed for cleaning. Wipe clean with disinfectant wipes or a solution of up to 10% bleach.

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 fire-retardant polyurethane foam with a fire-retardant cover made from expanded vinyl.
- Frames are typically steel or aluminum tubing, welded together, and coated with a baked-on paint finish. Some frame components may also be stainless steel.
- Tires are tubeless, filled with polyurethane foam, and do not require inflation.
- Straps are typically made of polypropylene or nylon webbing.
- Wooden components are typically birch plywood, solid maple, or laminated hardwood veneers, finished with a clear polyurethane lacquer.
- Tabletops are typically high-pressure laminate (Formica).
- Plastic components are typically injection molded from a variety of industrial resins.

All materials are latex, lead and phthalates free.

User modifications

CAUTION: Rifton Equipment cannot 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 since we are unable to validate the safety and efficacy of the modified or altered product. The modification or alteration of our components and products, or the use of our components or products in conjunction with products from other manufacturers, may make the components and products unsafe, which could result in SERIOUS INJURIES.

Rifton Contact Information



Email

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

To order replacement parts

1. **Locate the serial 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 studies on the therapeutic benefits of standing at:
www.rifton.com/supinestander