ST1™ and ST1-X™ Series Stretcher

Operations Manual

REF 6300

CE

EN

KK-6300-en Rev 04 2021-10

Symbols

	Refer to instruction manual/booklet
	Operating instructions/Consult instructions for use
	General warning
	Caution
	Warning; crushing of hands
	No pushing
	Do not lubricate
REF	Catalogue number
SN	Serial number
US Patents	For US Patents see www.stryker.com/patents
CE	CE mark
EC REP	Authorized representative in the European Community
MD	European medical device
	Manufacturer (XXXX indicates year of manufacture)
	Safe working load
	Maximum patient weight
	Mass of equipment with safe working load
	Type B applied part
	Wash by hand

	Do not tumble dry
	Do not dry clean
	Do not iron
	Allow to completely air dry
	Chlorinated bleach
	Lubricate

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Warning/Caution/Note Definition

The words **WARNING**, **CAUTION**, and **NOTE** carry special meanings and should be carefully reviewed.

WARNING

Alerts the reader about a situation which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

CAUTION

Alerts the reader of a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the product or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

Note - Provides special information to make maintenance easier or important instructions clearer.

Summary of safety precautions

Always read and strictly follow the warnings and cautions listed on this page. Service only by qualified personnel.

WARNING

- Always allow the product to reach room temperature before you set up the product or test functional operations. Permanent product damage may occur.
- Always operate the product only when all operators are clear of the mechanisms.
- Always use mattress (6300-0-100, 6300-0-102, 6300-0-103, or 6300-0-104) on the Stryker Model 6300 **ST1** and **ST1-X** Series stretcher. Use of any other mattress may result in patient injury.
- Always use caution when you use a mattress thicker than 6.35 cm (2.5 inches) with **ST1-X** option. Operator supervision is recommended to reduce the risk of patient falls due to lesser siderail coverage.
- Always use linens with the mattress.
- Do not stick needles into the mattress cover. Holes may allow body fluids to enter the inside (inner core) of the mattress and may cause cross-contamination or product damage.
- Always use the mattress with a compatible frame as indicated in the specification section of this manual.
- Always apply the brakes when a patient is getting on the product or off the product or when the product is not moving. Injury could result if the product moves while a patient is getting on the product or off the product.
- Always position the patient in the center of the product.
- Always put the product in the lowest position with the siderails up and latched when you leave a patient unattended. Do not leave the product at a higher height.
- Always remove any devices that may be in the way before you raise or lower the litter.
- Do not sit on the end of the product. The product may tip.
- Always lock the siderails in the full up position with the sleep surface flat in the lowest position when you transport a patient.
- Do not transport the product laterally on an incline greater than 6 degrees (10%) to avoid tipping. Always make sure that the litter is horizontal (no Trendelenburg/Reverse Trendelenburg) at the lowest height when you transport a patient.
- Always apply the brakes on both the surface with the patient and the surface the patient will be transferred to before you transfer a patient from one patient support platform (bed, stretcher, gurney, operating table) to another patient support platform.
- Always make sure that the patient support platforms are the same height before you transfer a patient.
- Always keep hands and fingers clear of the foot end push handles when you use the defibrillator tray/chart holder or upright oxygen bottle holder.
- Always keep the patient’s limbs away from the siderail spindles when you raise or lower the siderail.
- Do not allow the siderails to lower on their own.
- Always keep hands and fingers clear of the Fowler backrest release handles and the Fowler backrest frame when you lower the Fowler backrest.
- Always use caution when you raise a pneumatic Fowler backrest while a patient is on the product. Use proper lifting techniques and get help, if necessary.
- Do not place items between the Fowler backrest and the litter frame when the Fowler backrest is raised.
- Do not hang IV bags that exceed the safe working load of 18 kg on the IV pole.
- Do not hang IV bags that exceed the safe working load of 4.5 kg on any hanger on the IV pole.
- Always make sure that the IV pole is at a low height to pass through door openings when you transport a patient.
- Do not use the IV pole as a push/pull device. Product damage may occur.
- Always use qualified personnel to assemble and attach accessories.
- Always use caution if the defibrillator tray/chart holder or upright oxygen bottle holder is attached to avoid pinching your fingers when you position the foot end push handle option.
- Do not place items that exceed the safe working load of 14 kg on the defibrillator tray/chart holder.
- Do not use the defibrillator tray/chart holder as a push/pull device. Product damage may occur.
- Do not hang IV bags that exceed the safe working load of 6 kg on the IV pole.
- Do not hang IV bags that exceed the safe working load of 3 kg on any hanger on the IV pole.
- Do not place objects that exceed the safe working load of 18 kg in the upright oxygen bottle holder for all types.
- Do not use the upright oxygen bottle holder as a push/pull device. Product damage may occur.

- Do not use the paper roll holder as a push/pull device. Product damage may occur.
- Do not hang items that exceed the safe working load of 1.5 kg on the paper roll holder.
- Always use caution when you attach restraint straps. Patient or operator injury may occur. Physical restraints, even if secured, may result in serious harm to patients and operators, including entanglement, entrapment, physical injury, or death.
- Always attach restraint straps or devices only at the identified attachment points of the product. Failure to do so may result in patient or operator injury. Do not attach restraint straps to the siderail.
- Always refer to applicable state and federal restrictions and regulations and the appropriate facility protocols before you use any restraint strap or device.
- Always refer to applicable state and federal restrictions and regulations for safety before you use the X-ray option with radiation generating devices. Radiation generating devices may produce residual, stray, or scattered radiation.
- Always use caution when you take X-rays with the Fowler backrest in the upright position or when you use a lateral cassette.
- Do not wash the internal components of this mattress. Discard the mattress if contamination is found inside.
- Do not immerse the mattress in cleaning or disinfectant solutions.
- Do not allow liquid to pool on the mattress.
- Do not iron, dry clean, or tumble dry the mattress cover.
- Do not clean, service, or perform maintenance while the product is in use.
- Do not steam clean, hose off, or ultrasonically clean the product. Use of these methods of cleaning is not recommended and may void the product's warranty.
- Always disinfect the mattress following your hospital protocols to avoid the risk of cross-contamination and infection.
- Do not use **Virex® TB** to disinfect this product.
- Do not use accelerated hydrogen peroxides or quaternaries that contain glycol ethers as they may damage the mattress cover.
- Always inspect the mattress each time you clean the mattress cover. Follow your hospital protocols and complete preventive maintenance each time you clean the mattress cover. If compromised, remove the mattress from use and replace the product to prevent cross-contamination.

CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
- Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.
- Always transport the **ST1** and **ST1-X** Series stretcher on floors made of wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30% to avoid electrostatic discharge.
- Do not use the hydraulics on the base to raise the product with a patient lift under the product.
- Do not place objects that exceed 60 lb (27 kg) in the base hood.
- Do not sit, step, or stand on the base hood.
- Always use authorized accessories with the **ST1** and **ST1-X** Series stretcher.
- Always use the 6300-1-000 mattress cover on the foam core.
- Always make sure that you wipe the product with clean water. Dry each product after cleaning. Some cleaning agents are corrosive in nature and may cause damage to the product. Failure to follow these cleaning instructions may void your warranty.
- Do not use cleaning agents and disinfectants with aggressive chemicals as they will reduce the expected life of the mattress cover.
- Do not allow liquid to seep into the zipper area or watershed cover barrier when you clean the mattress bottom. Fluids allowed to come in contact with the zipper may leak into the mattress.
- Always dry the mattress cover before you store, add linens, or place a patient on the surface. A dry product helps to prevent impaired product performance.
- Do not overexpose the mattress cover to high concentrations of disinfectant solutions as they may degrade the mattress cover.
- Failure to follow the manufacturing cleaning instructions and Stryker operational instructions may affect useful life of the mattress.

Pinch points

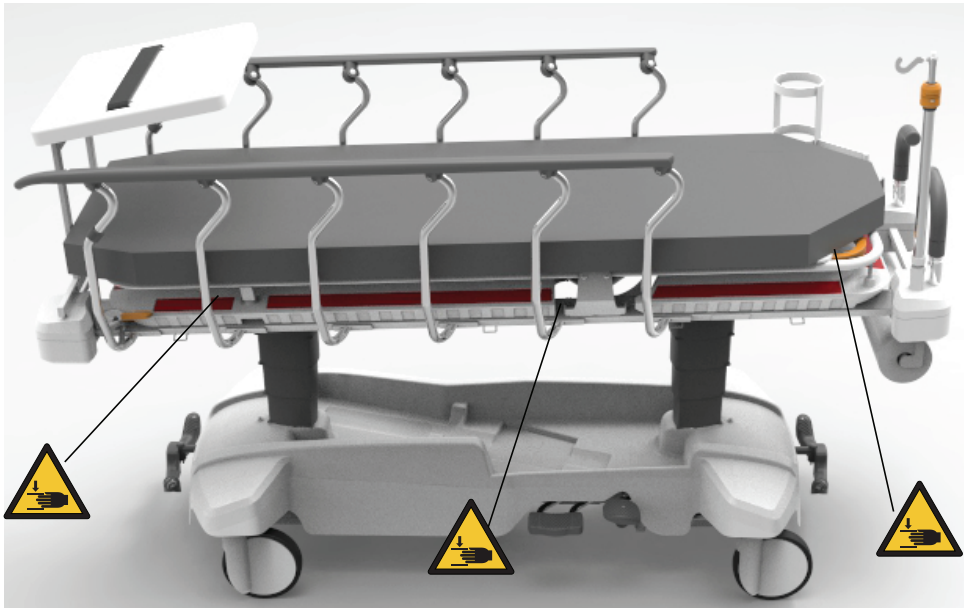


Figure 1 – Pinch points for X-ray option only

Introduction

This manual assists you with the operation or maintenance of your Stryker product. Read this manual before operating or maintaining this product. Set methods and procedures to educate and train your staff on the safe operation or maintenance of this product.

CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
- Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.

Note

- This manual is a permanent part of the product and should remain with the product even if the product is sold.
- Stryker continually seeks advancements in product design and quality. This manual contains the most current product information available at the time of printing. There may be minor discrepancies between your product and this manual. If you have any questions, contact Stryker Customer Service or Technical Support at 1-800-327-0770.

Product Description

The Stryker Model 6300 **ST1** and **ST1-X** Series stretcher is a wheeled device that consists of a platform mounted on a wheeled frame to support patients in a horizontal position. The stretcher provides the operator with a method to transport patients within the interior of a healthcare facility by health professionals or trained representatives of the facility. The Stryker Model 6300 **ST1** and **ST1-X** Series stretcher with the retractable fifth wheel optimizes traction and cornering to improve overall mobility.

Indications for use

The stretcher is for use by human patients in a MedSurg setting, including those mildly to critically ill. The stretcher is for use in hospitals, institutions, and clinics as a short-term outpatient clinical evaluation, treatment, minor procedure, and short-term outpatient recovery platform. The stretcher may also be used to transport deceased patients within an enclosed healthcare facility. Operators for the stretcher include healthcare professionals (nurses, nurse aides, and medical doctors) and bystanders who can use bed motion functions (service or maintenance personnel).

The stretcher may include use in, but is not limited to:

- Emergency department (ED)
- Trauma area
- Post-anesthesia care unit (PACU)

The **ST1** and **ST1-X** Series stretcher frame, litter mounted accessories, mattresses, and siderails can contact human skin.

See the specifications table for the intended environmental conditions.

The **ST1** and **ST1-X** Series stretcher is not for use for long-term (more than 24 hours) inpatient treatment and recovery.

This product is not for use in a home healthcare environment, as a sterile product, in a home health setting, in the presence of flammable anesthetics, as a support for a patient in a prone position, with patients who have unstable spinal cord injuries, or with an oxygen tent.

The **ST1-X** Series stretcher with X-ray deck option provides an articulating radiographic patient support surface and a platform below the patient support surface for X-ray cassette placement. The **ST1-X** Series stretcher with X-ray deck option allows the capture of clinical X-rays (AP full body, optional full body lateral, and optional upright chest) when used with a medical X-ray system.

Clinical benefits

Patient transport, facilitate treatment, and diagnostic

Expected service life

The **ST1** and **ST1-X** Series stretcher with X-ray deck option has a 10 year expected service life under normal use, conditions, and with appropriate periodic maintenance.

The casters have a minimum expected service life of 5 years dependent on normal use, conditions, and with appropriate periodic maintenance.

Expected life

The **ST1™** and **ST1-X™** foam mattress has a 1 year expected life under normal use, conditions, and with appropriate periodic maintenance.

Disposal/recycle

Always follow the current local recommendations and/or regulations governing environmental protection and the risks associated with recycling or disposing of the equipment at the end of its useful life.

Contraindications

None known.

Specifications

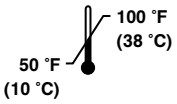
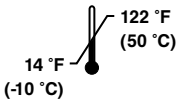
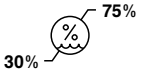
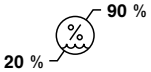
	Safe working load indicates the sum of the patient, mattress and accessory weight	250 kg	
	Maximum patient weight	215 kg	
Overall length		2170 mm ± 10 mm	
Overall width (siderails up)		790 mm ± 10 mm	
Overall width (siderails down)		735 mm	
Height		Non X-ray	X-ray
Minimum height		560 mm + 15 mm, - 25 mm	610 + 15 mm, - 25 mm
Maximum height		860 ± 10 mm	910 ± 10 mm
Fowler angle		0° to 90° (± 5°)	
Trendelenburg/Reverse Trendelenburg		+16°/-16° (± 3°)	
Minimum clearance	Nominal	15.4 cm ± 5 mm	
	Under the hydraulic jacks	4.6 cm ± 5 mm	

Compatible mattresses	6300-0-100	6300-0-102	6300-0-103	6300-0-104
Length	193 cm	193 cm	193 cm	193 cm
Width	62 cm	62 cm	62 cm	62 cm
Thickness	8 cm	10 cm	8 cm	10 cm
Weight	3.7 ± 1.0 kg	4.4 ± 1.0 kg	4.3 ± 1.0 kg	4.8 ± 1.0 kg
Foam	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Cover	Polyurethane and polyamide coated polyester	Polyurethane and polyamide coated polyester	Polyurethane and polyamide coated polyester	Polyurethane and polyamide coated polyester
Model with flame barrier	No	No	Yes	Yes

Note

- See mattress label for applicable flammability standards.
- This product is not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- Specifications listed are approximate and may vary slightly from product to product.

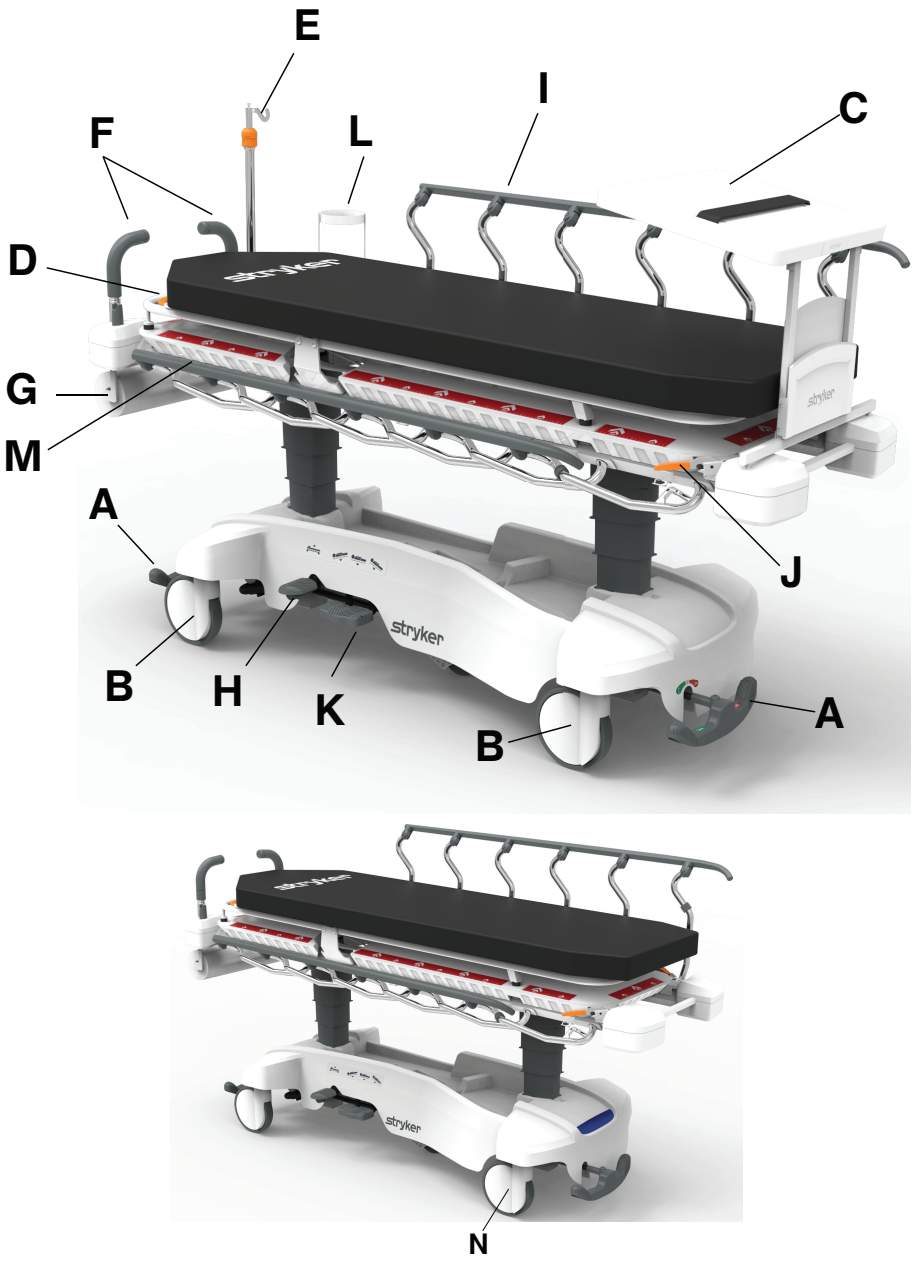
Stryker reserves the right to change specifications without notice.

Environmental conditions	Operation	Storage and transportation
Temperature		
Relative humidity		

In accordance with the European REACH regulation and other environmental regulatory requirements, the components that contain declarable substances are listed.

Description	Number	Substance of very high concern (SVHC) chemical name
2 stage IV pole assembly	HM-19-108	bis(2-ethyklhexyl) phthatlate (DEHP)
3 stage IV pole assembly	HM-19-115	bis(2-ethyklhexyl) phthatlate (DEHP)

Product illustration



A	Brake/steer control pedal	H	Pump pedal
B	Caster	I	Siderail
C	Defibrillator tray/chart holder	J	Siderail release handle
D	Fowler backrest release handle	K	Uni-lower pedal
E	IV pole	L	Upright oxygen bottle holder
F	Pop up push handle	M	X-ray deck
G	Paper roll holder	N	Antistatic caster

Applied parts

Figure 2 – Type B applied parts

Contact information

Contact Stryker Customer Service or Technical Support at: +1 800-327-0770.

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2. Cad. No:17 38070
Kayseri, Turkey
Email: infosmi@stryker.com
Phone: + 90 (352) 321 43 00 (pbx)
Fax: + 90 (352) 321 43 03
Web: www.stryker.com

Note - The user and/or the patient should report any serious product-related incident to both the manufacturer and the Competent authority of the European Member State where the user and/or patient is established.

To view your operations or maintenance manual online, see https://techweb.stryker.com/.

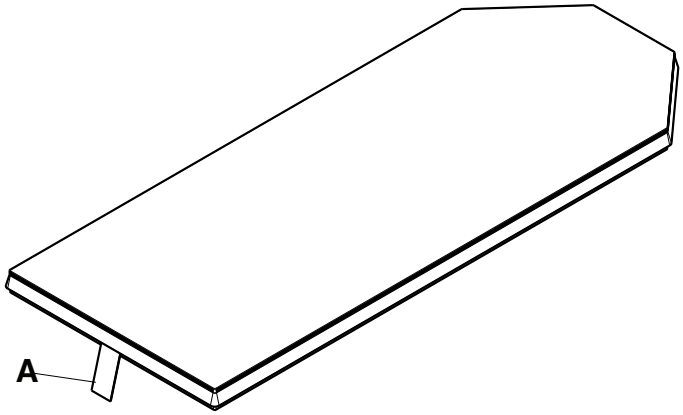
Have the serial number (A) of your Stryker product available when calling your Stryker Customer Service. Include the serial number in all written communication.

Serial number location

Figure 3 – Serial number location

Serial number location

Unzip the mattress cover to locate the product label and serial number.



Setup

To unpack your product, see the unpacking instructions that are attached to the product inside of the shipping crate.

WARNING

- Always allow the product to reach room temperature before you set up the product or test functional operations. Permanent product damage may occur.
- Always operate the product only when all operators are clear of the mechanisms.
- Always use mattress (6300-0-100, 6300-0-102, 6300-0-103, or 6300-0-104) on the Stryker Model 6300 **ST1** and **ST1-X** Series stretcher. Use of any other mattress may result in patient injury.
- Always use caution when you use a mattress thicker than 6.35 cm (2.5 inches) with **ST1-X** option. Operator supervision is recommended to reduce the risk of patient falls due to lesser siderail coverage.

CAUTION - Always transport the **ST1** and **ST1-X** Series stretcher on floors made of wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30% to avoid electrostatic discharge.

Make sure that the product works before you put the product into service.

1. Apply the brake. Push on the product to make sure that all four casters are locked.
2. Release the brake. Push on the product to make sure that all four casters are unlocked.
3. Raise and lower the litter with the hydraulic lift system.
4. Raise the product to the highest position and put the product in the Trendelenburg position. Make sure that the head end lowers to the full down position.
5. Raise the product to the highest position and put the product in the Reverse Trendelenburg position. Make sure that the foot end lowers to the full down position.
6. Apply the fifth wheel and make sure that the fifth wheel guides and pivots the product.
7. Make sure that the siderails raise, lower, and lock in place.
8. Raise and lower the manual Fowler backrest (head section).

Setup the mattress

WARNING

- Always use linens with the mattress.
- Do not stick needles into the mattress cover. Holes may allow body fluids to enter the inside (inner core) of the mattress and may cause cross-contamination or product damage.
- Always use the mattress with a compatible frame as indicated in the specification section of this manual.

To setup the mattress:

1. Place the mattress on a compatible stretcher.
2. Make sure that you align the mattress with the Stryker logo at the head end of the stretcher.
3. Align the hook and loop fastener onto the bottom cover of the mattress to the litter deck of the stretcher.
4. Make sure that the water shed flaps cover the zipper.
5. Place linens on the mattress before patient use. Follow your hospital protocols.

Operation

Applying and releasing the brakes

WARNING – Always apply the brakes when a patient is getting on the product or off the product or when the product is not moving. Injury could result if the product moves while a patient is getting on the product or off the product.

To apply the brakes, push down on the brake (red) side of the brake/steer pedal. Push on the product to make sure that the brakes work.

To release the brakes, push down on the steer (green) side of the brake/steer pedal.

Figure 4 – Brake steer pedal

Base controls

Figure 5 – Brake steer pedal

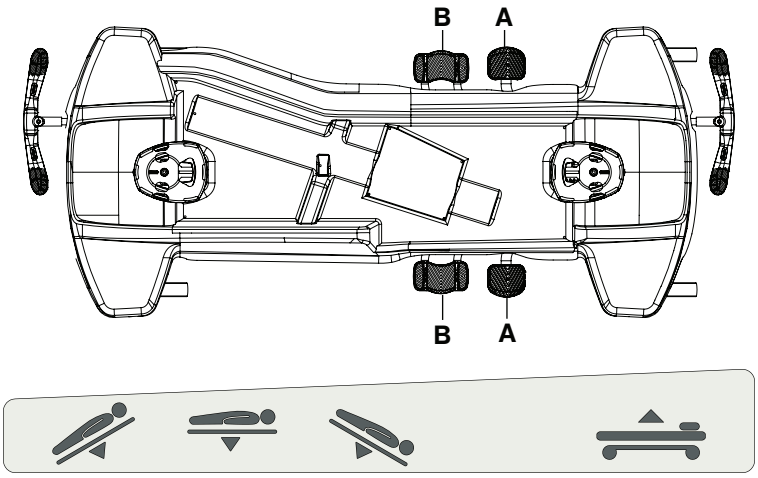


Figure 6 – Raising the litter with the side control hydraulics

Raising the litter

WARNING

- Always position the patient in the center of the product.
- Always put the product in the lowest position with the siderails up and latched when you leave a patient unattended. Do not leave the product at a higher height.
- Always remove any devices that may be in the way before you raise or lower the litter.
- Do not sit on the end of the product. The product may tip.

CAUTION - Do not use the hydraulics on the base to raise the product with a patient lift under the product.

To raise the litter, press down on the pump pedal (A) until you achieve the desired height (*Base controls* (page 14)).

Lowering the litter

WARNING

- Always position the patient in the center of the product.
- Always put the product in the lowest position with the siderails up and latched when you leave a patient unattended. Do not leave the product at a higher height.
- Always remove any devices that may be in the way before you raise or lower the litter.
- Do not sit on the end of the product. The product may tip.

CAUTION - Do not use the hydraulics on the base to raise the product with a patient lift under the product.

To lower the entire litter, press down on the center of the uni-lower pedal (B) (*Base controls* (page 14)).

To lower the head end of the litter, press down on side of the uni-lower pedal (B) closest to the head end of the product.

To lower the foot end of the litter, press down on the side of the uni-lower pedal (B) closest to the foot end of the product.

Positioning the product in Trendelenburg

WARNING - Always remove any devices that may be in the way before you raise or lower the litter.

CAUTION - Do not use the hydraulics on the base to raise the product with a patient lift under the product.

To position the product in the Trendelenburg position (head down), raise the litter to the highest height (*Raising the litter* (page 15)).

Note - Raise the litter to the highest height for a greater Trendelenburg angle.

To lower the head end of the product, push down on the side of the uni-lower pedal (B) closest to the head end (*Base controls* (page 14)).

To lower the product from Trendelenburg position, push down on the center of the uni-lower pedal (B) until the litter is flat.

Positioning the product in Reverse Trendelenburg

WARNING - Always remove any devices that may be in the way before you raise or lower the litter.

CAUTION - Do not use the hydraulics on the base to raise the product with a patient lift under the product.

To position the product in the Reverse Trendelenburg position (foot down), raise the litter to the highest height (*Raising the litter* (page 15)).

Note - Raise the litter to the highest height for a greater Trendelenburg angle.

To lower the foot end of the product, push down on the side of the uni-lower pedal (B) closest to the foot end (*Base controls* (page 14)).

To lower the product from Reverse Trendelenburg position, push down on the center of the uni-lower pedal (B) until the litter is flat.

Transporting a patient with the retractable fifth wheel

WARNING

- Always position the patient in the center of the product.
- Always remove any devices that may be in the way before you raise or lower the litter.
- Always lock the siderails in the full up position with the sleep surface flat in the lowest position when you transport a patient.
- Do not transport the product laterally on an incline greater than 6 degrees (10%) to avoid tipping. Always make sure that the litter is horizontal (no Trendelenburg/Reverse Trendelenburg) at the lowest height when you transport a patient.

CAUTION - Do not use the hydraulics on the base to raise the product with a patient lift under the product.

To transport a patient with the retractable fifth wheel:

1. Push down on the steer side of the brake/steer pedal to apply the fifth wheel.
2. Put the pedal in the neutral position to move the product laterally. Move the product to the desired location.

   Note - Do not attempt to move the product laterally with the retractable fifth wheel applied.
3. Apply the brakes to lock the product in place.

   Note - Always make sure that the brake is released before you move the product to avoid operator or patient injury.

Transferring a patient between surfaces

WARNING

- Always apply the brakes on both the surface with the patient and the surface the patient will be transferred to before you transfer a patient from one patient support platform (bed, stretcher, gurney, operating table) to another patient support platform.
- Always make sure that the patient support platforms are the same height before you transfer a patient.

To transfer a patient between surfaces:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Lower the siderail facing the mating support surface to the lowest position.
3. Transfer the patient to the mating support surface.
4. Raise the siderail to the up and latched position.

Positioning or stowing the head end push handles option

To position or stow the head end push handles:

1. Pull straight up on the head end push handles one at a time.
2. Pivot the head end push handles (A) to the use position (Figure 7).
3. Push down on the handles one at a time to lock the push handles into position.

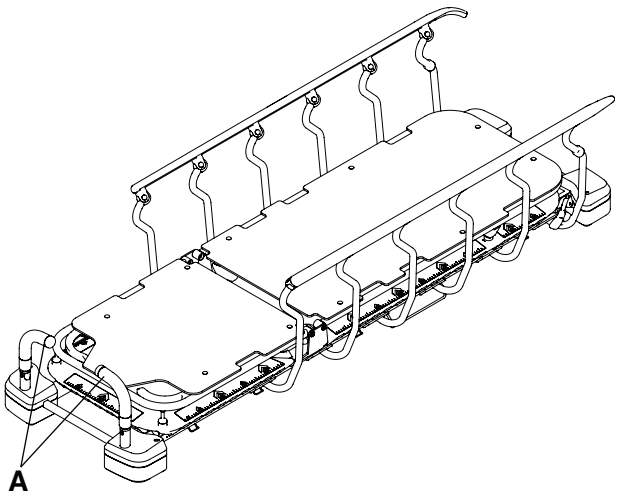


Figure 7 – Positioning the head end push handles

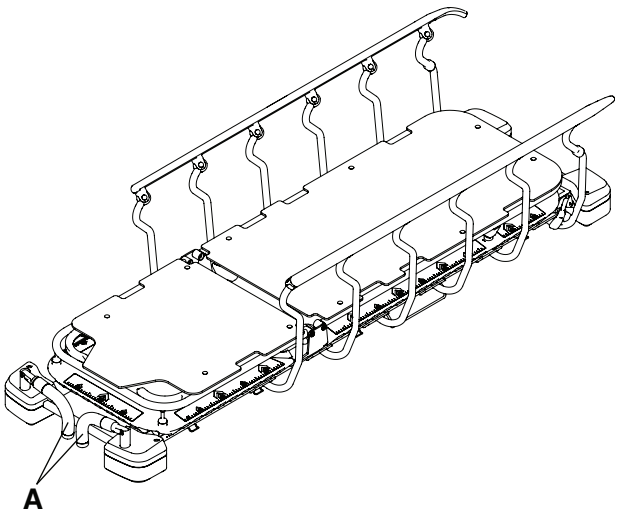


Figure 8 – Stowing the head end push handles

4. Reverse steps to stow the head end push handles (A) (Figure 8).

   Note - Only use the push handles as push/pull devices unless otherwise specified to avoid product damage.

Positioning or stowing the foot end push handles option

WARNING - Always keep hands and fingers clear of the foot end push handles when you use the defibrillator tray/chart holder or upright oxygen bottle holder.

To position the foot end push handles:

1. Pull straight up on the foot end push handles (A) one at a time (Figure 9).
2. Pivot the foot end push handles (A) to the use position.
3. Push down on the handles one at a time to lock the push handles into position.

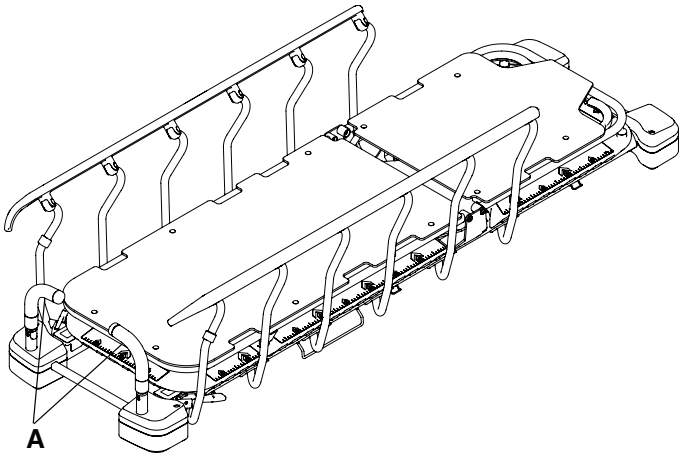


Figure 9 – Positioning the foot end push handles

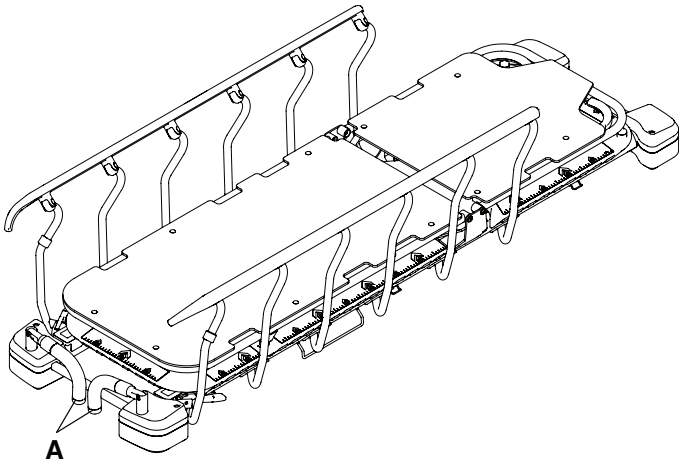


Figure 10 – Stowing the foot end push handles

4. Reverse steps to stow the foot end push handles (A) (Figure 10).

Raising the siderail

WARNING

- Always put the product in the lowest position with the siderails up and latched when you leave a patient unattended. Do not leave the product at a higher height.
- Always lock the siderails in the full up position with the sleep surface flat in the lowest position when you transport a patient.
- Always keep the patient's limbs away from the siderail spindles when you raise or lower the siderail.
- Do not allow the siderails to lower on their own.

To raise the siderail:

1. Use two hands to grasp the siderail.
2. Lift the siderail toward the foot end of the product until the release latch clicks into place. Pull on the siderail to make sure that the siderail is latched.

Note

- Do not use siderails as restraint devices to keep the patient from exiting the product. The siderails keep the patient from rolling off the product. The operator must determine how much restraint is needed to make sure that the patient is safe.
- You can use the foot end of the siderails as a push/pull device.
- Siderails only lock in the full up position.

Lowering the siderail

WARNING

- Always put the product in the lowest position with the siderails up and latched when you leave a patient unattended. Do not leave the product at a higher height.
- Always lock the siderails in the full up position with the sleep surface flat in the lowest position when you transport a patient.
- Always keep the patient's limbs away from the siderail spindles when you raise or lower the siderail.
- Do not allow the siderails to lower on their own.

To lower the siderail:

1. Use one hand to grasp the siderail.
2. Use the other hand to pull up on the release latch.
3. Lift and guide the siderail toward the head end of the product until the release latch clicks into place. Pull on the siderail to make sure that the siderail is latched.

Note

- Do not use siderails as restraint devices to keep the patient from exiting the product. The siderails keep the patient from rolling off the product. The operator must determine how much restraint is needed to make sure that the patient is safe.
- You can use the foot end of the siderails as a push/pull device.
- Siderails only lock in the full up position.

Raising or lowering the Fowler backrest

WARNING

- Always operate the product only when all operators are clear of the mechanisms.
- Always keep hands and fingers clear of the Fowler backrest release handles and the Fowler backrest frame when you lower the Fowler backrest.
- Always use caution when you raise a pneumatic Fowler backrest while a patient is on the product. Use proper lifting techniques and get help, if necessary.
- Do not place items between the Fowler backrest and the litter frame when the Fowler backrest is raised.

To raise the Fowler backrest, squeeze one or both of the Fowler backrest release handles and pull the Fowler backrest up to the desired position (0° to 80°).

To lower the Fowler backrest, squeeze one or both of the Fowler backrest release handles and push the Fowler backrest down to the desired position (80° to 0°).

Storing objects in the base hood

CAUTION

- Do not place objects that exceed 60 lb (27 kg) in the base hood.
- Do not sit, step, or stand on the base hood.

You can store patient belongings in the base hood (A) (Figure 11).

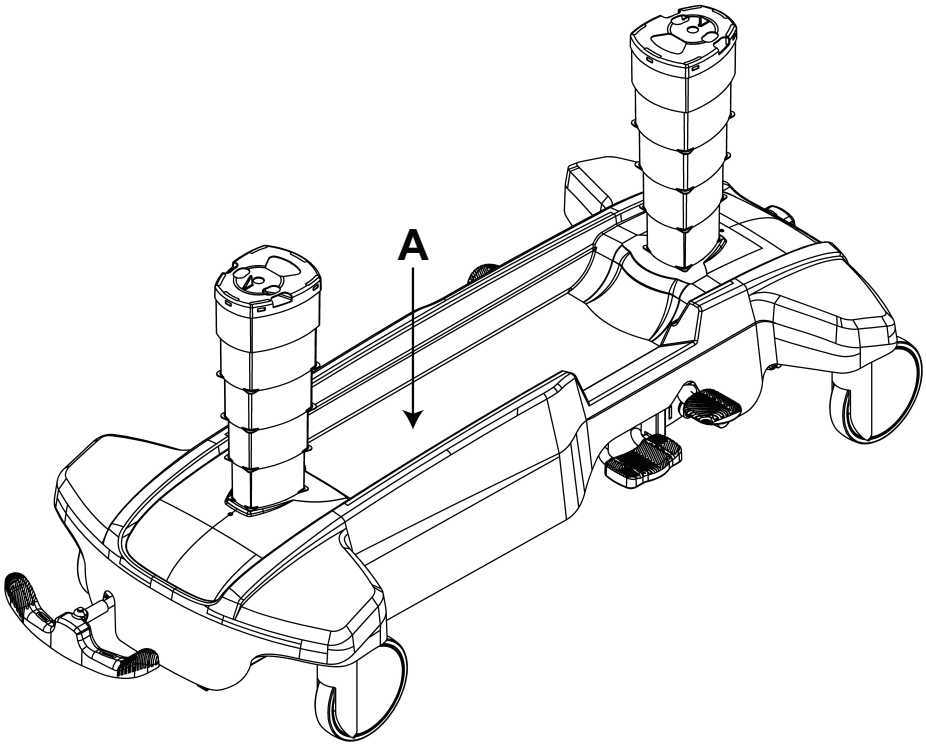


Figure 11 – Base hood storage

The stretcher base hood can store any international oxygen bottle within these specifications:

For the ST1-X model:

- Diameter maximum 14 cm

- Length maximum 90 cm

Specifications	Bottle size
Diameter 100 to 140 mm / length 465 to 670 mm	3L, 5L
Diameter 140 mm / length 870 mm	UK-F
Diameter 140 mm/ length 900 mm	UK HX
Diameter 140 mm / length 420 to 900 mm	E
Diameter 140 mm / length 420 to 670 mm	C, CD
France 5L, Germany regular 5L O2 bottle, European 5L	

For the ST1 non-X-ray model:

- Diameter maximum 14 cm
- Length maximum 64 cm

Specifications	Bottle size
Diameter 100 mm to 140 mm / length 465 mm to 640 mm	3L, 5L
Diameter 100 mm to 140 mm / length 420 mm to 640 mm	C, CD
Germany regular 5L oxygen bottle, European 5L	

Positioning the two-stage permanently attached IV pole option

WARNING

- Do not hang IV bags that exceed the safe working load of 18 kg on the IV pole.
- Do not hang IV bags that exceed the safe working load of 4.5 kg on any hanger on the IV pole.
- Always make sure that the IV pole is at a low height to pass through door openings when you transport a patient.
- Do not use the IV pole as a push/pull device. Product damage may occur.

You can purchase the product with the two-stage IV pole option permanently attached at the head end, foot end, or both ends of the product. The IV pole is equipped with a telescopic pole that extends to provide a second height position. You can fold and store the IV pole when not in use.

To position the two-stage IV pole (Figure 12):

1. Lift and pivot the pole from the storage position.
2. Push the IV pole down until the IV pole locks in place.
3. To raise the height of the IV pole, pull up on the telescoping portion (A) until the pole locks in place at the highest position.
4. Rotate the IV hangers (B) to the desired position and hang the IV bags.
5. To lower the IV pole, hold the telescoping portion of the IV pole, turn the latch (C), and lower the telescoping portion.
6. Pull up on the IV pole and pivot the IV pole to the stowed position.

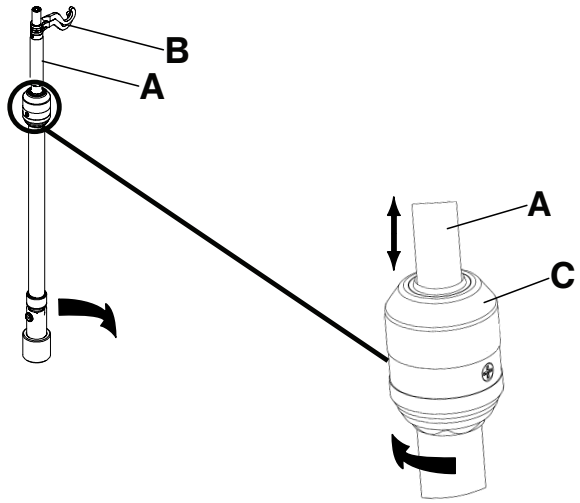


Figure 12 – Positioning the 2-stage permanently attached IV pole

Positioning the three-stage permanently attached IV pole option

WARNING

- Do not hang IV bags that exceed the safe working load of 18 kg on the IV pole.
- Do not hang IV bags that exceed the safe working load of 4.5 kg on any hanger on the IV pole.
- Always make sure that the IV pole is at a low height to pass through door openings when you transport a patient.
- Do not use the IV pole as a push/pull device. Product damage may occur.

You can purchase the product with the three-stage IV pole option permanently attached at the head end, foot end, or both ends of the product. The IV pole is equipped with a telescopic pole that extends to provide a second and third height position. You can also fold and store the IV pole when not in use.

To position the three-stage IV pole (Figure 13):

1. Lift and pivot the pole from the storage position.
2. Push the IV pole down until the pole locks in place.
3. To raise the height of the IV pole, pull up on the telescoping portion (A) until the pole locks into place at the fully raised position.
4. For a higher IV pole, pull up on section (B). Release section (B) at any desired height to lock the pole in place.
5. Rotate the IV hangers (C) to the desired position and hang the IV bags.
6. To lower the IV pole, push up on the yellow portion of the grip (D) while holding on to section (B) until the pole lowers.
7. Turn the latch (E) and lower the IV pole telescoping portion.

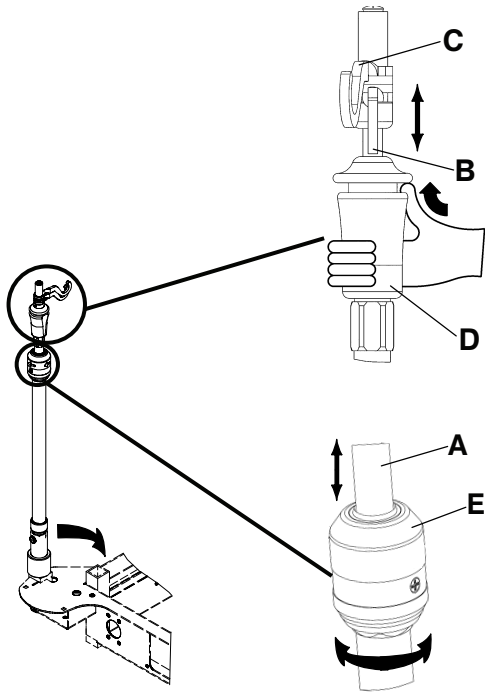


Figure 13 – Positioning the three-stage permanently attached IV pole

Accessories and parts

WARNING - Always use qualified personnel to assemble and attach accessories.

CAUTION - Always use authorized accessories with the **ST1** and **ST1-X** Series stretcher.

These accessories may be available for use with your product. Confirm availability for your configuration or region.

Name	Part number
Defibrillator tray with chart holder	MM047
IV pole, removable	MM050
Mattress	6300-0-100
Mattress	6300-0-102
Mattress	6300-0-103
Mattress	6300-0-104
Oxygen bottle holder, upright	MM045
Oxygen bottle holder, upright	MM044
Oxygen bottle holder, upright	MM046
Paper roll holder	MM048
Restraint strap, ankle	MM052
Restraint strap, body	MM053
Restraint strap, wrist	MM054
Restraint strap package	MM055

Attaching the defibrillator tray/chart holder

WARNING

- Always use caution if the defibrillator tray/chart holder or upright oxygen bottle holder is attached to avoid pinching your fingers when you position the foot end push handle option.
- Do not place items that exceed the safe working load of 14 kg on the defibrillator tray/chart holder.
- Do not use the defibrillator tray/chart holder as a push/pull device. Product damage may occur.

To attach the defibrillator tray/chart holder, insert the defibrillator tray/chart holder pins (A) into the sockets at the foot end of the product.

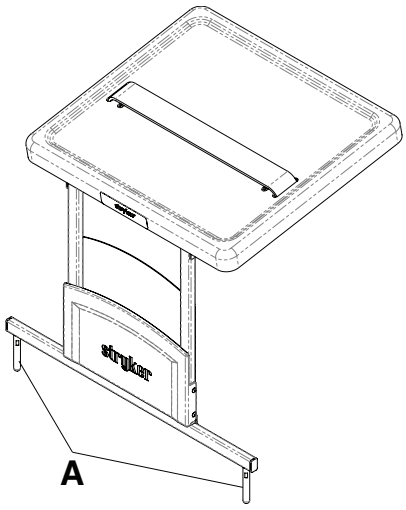


Figure 14 – Attaching the defibrillator/chart holder

Attaching and positioning the removable IV pole

WARNING

- Do not hang IV bags that exceed the safe working load of 6 kg on the IV pole.
- Do not hang IV bags that exceed the safe working load of 3 kg on any hanger on the IV pole.
- Do not use the IV pole as a push/pull device. Product damage may occur.

To attach and position the removable IV pole (Figure 15):

1. Insert the IV pole into a socket at the head end or foot end of the product.
2. Turn the knob (A) counterclockwise and pull up on the telescoping portion (B) until you reach the desired height.
3. Turn the knob (A) clockwise to lock the telescoping portion in place.

Note

- Always make sure that the IV pole is at a low height to pass through door openings when you transport a patient.
- Use the Rue ring cotter after you place the IV pole on the stretcher adapter.

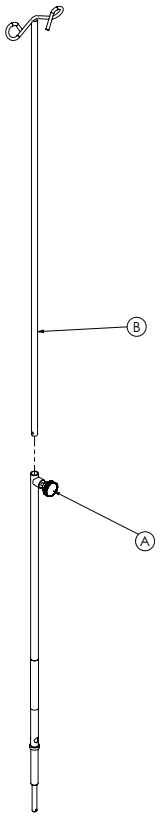


Figure 15 – Removable IV pole

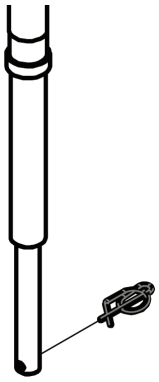


Figure 16 – Rue ring cotter

Attaching the upright oxygen bottle holder

WARNING

- Do not place objects that exceed the safe working load of 18 kg in the upright oxygen bottle holder for all types.
- Always use caution if the defibrillator tray/chart holder or upright oxygen bottle holder is attached to avoid pinching your fingers when you position the foot end push handle option.
- Do not use the upright oxygen bottle holder as a push/pull device. Product damage may occur.

The upright oxygen bottle holder supports an oxygen bottle in a vertical position.

To attach the upright oxygen bottle holder:

1. Insert the support bar (A) into the oxygen bottle holder socket at the head end of the product.

2. Insert the cotter pin (B) through the hole in the support bar to secure the bottle holder to the product.

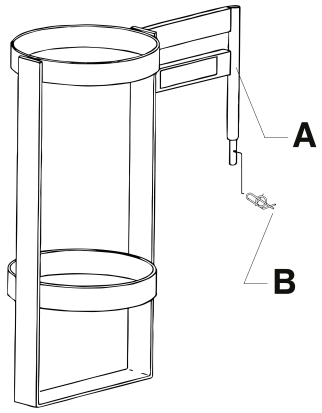


Figure 17 – Attaching the oxygen bottle holder

Note - The upright oxygen bottle holders support the following oxygen bottle sizes:

Specifications	Part number
Maximum diameter 120 mm, maximum length 900 mm	MM045
Maximum diameter 120 mm, maximum length 640 mm	MM044
Maximum diameter 140 mm, maximum length 640 mm	MM046

Attaching the paper roll holder

WARNING

- Do not use the paper roll holder as a push/pull device. Product damage may occur.
- Do not hang items that exceed the safe working load of 1.5 kg on the paper roll holder.

The paper roll holder dispenses paper as a protective layer over the stretcher surface for hygienic purposes.

To attach the paper roll holder:

1. At the head end of the product, position the bar (B) on the paper roll holder against the frame between the pop-up push handles.
2. Using a Phillips screwdriver, with two self-tapping screws (A; HM-06-121), secure the paper roll holder to the frame.
3. Slide the paper roll onto the paper roll holder (C).

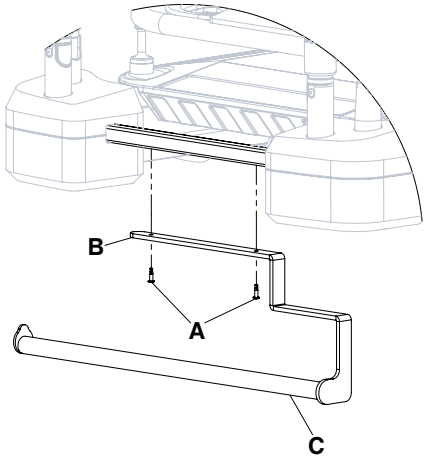


Figure 18 – Attaching the paper roll holder

Locating the patient restraint strap tie-ins

WARNING

- Always use caution when you attach restraint straps. Patient or operator injury may occur. Physical restraints, even if secured, may result in serious harm to patients and operators, including entanglement, entrapment, physical injury, or death.
- Always attach restraint straps or devices only at the identified attachment points of the product. Failure to do so may result in patient or operator injury. Do not attach restraint straps to the siderail.
- Always refer to applicable state and federal restrictions and regulations and the appropriate facility protocols before you use any restraint strap or device.

There are eight patient restraint strap tie-in locations on the litter assembly to attach the patient restraint straps (Figure 19 or Figure 20).

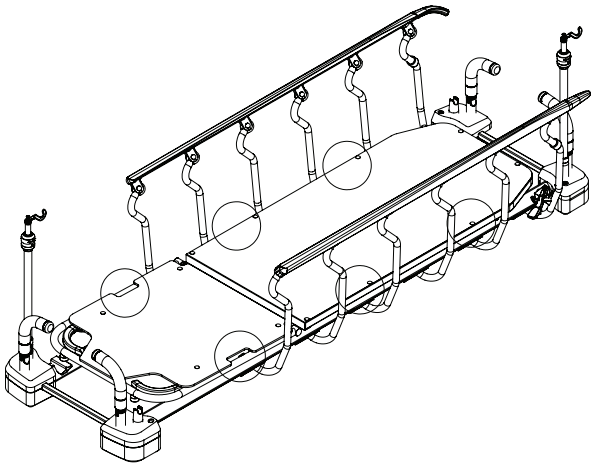


Figure 19 – Non-X-ray option restraint strap locations

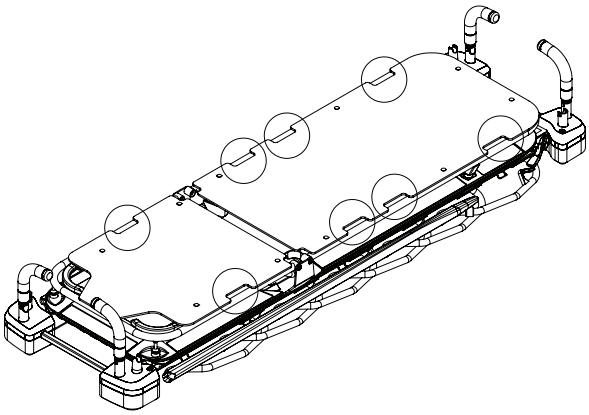


Figure 20 – X-ray option restraint strap locations

Note - Restraint straps are Type B applied parts.

Inserting or removing X-ray cassettes

WARNING

- Always refer to applicable state and federal restrictions and regulations for safety before you use the X-ray option with radiation generating devices. Radiation generating devices may produce residual, stray, or scattered radiation.
- Always use caution when you take X-rays with the Fowler backrest in the upright position or when you use a lateral cassette.

The X-ray option provides both an articulating radiographic support surface and a platform below the patient support surface for X-ray cassette placement. Working with medical X-ray systems, the radiographic support surface allows the capture of clinical X-rays (AP full body, optional full body lateral, and optional upright chest) while the patient is on the product. You can insert cassettes from the head end, foot end, and either side of the product.

To insert an X-ray cassette:

1. Center the patient on the product with the position indicator labels located on all sides of the product (Figure 21).
2. Insert an X-ray cassette below the patient surface.

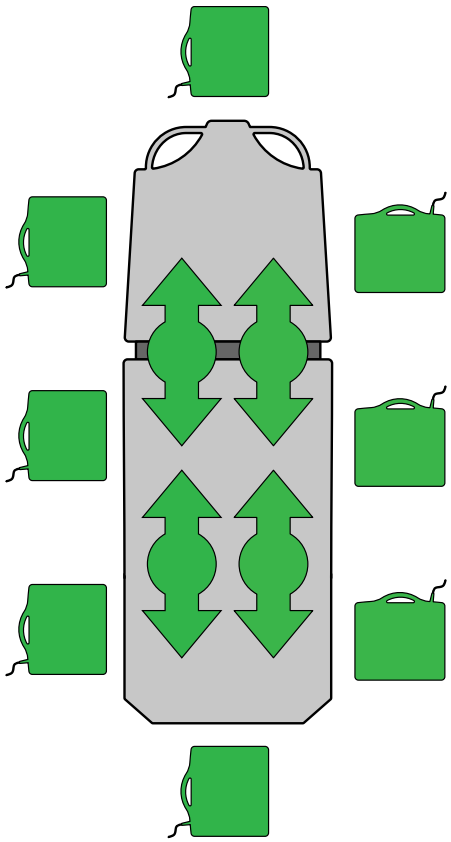


Figure 21 – Inserting or removing X-ray cassettes

Note

- Always use the mattress 6300-0-100, 6300-0-102, 6300-0-103, or 6300-0-104 on the Stryker Model **ST1** and **ST1-X** Series stretcher.
- Do not use a C-Arm with the X-ray option. The X-ray option is not compatible with a C-Arm.
- Maximum X-ray cassette dimensions are 35 cm x 43 cm x 2.5 cm.

Cleaning

Cleaning the product

These instructions provide recommended cleaning methods for the Stryker Model 6300 **ST1** and **ST1-X** Series stretcher.

This product is power washable. The product may show some signs of oxidation or discoloration from continuous washing. However, no degradation of the product's performance characteristics or functionality will occur due to power washing as long as the proper procedures are followed.

Recommended cleaning method

1. Remove the mattress from the product.
2. Follow the cleaning solution manufacturer's dilution recommendations.
3. Hand wash all surfaces of the product with warm water and mild detergent.
4. Avoid over-saturation and make sure that the product does not stay wet longer than the cleaning solution manufacturer's guidelines for proper cleaning.
5. Do not place the mattress on the product until the product is dry.
6. Check functionality before you return the product to service.

    - Raise and lower the product
    - Lock and unlock the brake/steer pedal in both positions
    - Latch and unlatch the siderails
    - Raise and lower the Fowler backrest
    - Make sure that all components have proper lubrication
    - Make sure that jack does not stick due to dust or debris
    - Make sure that all labels are intact

    Note
    - Direct skin contact with visibly soiled, permeable material may increase the risk of infection.
    - Do not steam clean the product.
    - Clean the base hood storage area.
    - Clean the bottom of the brake pads to prevent wax or floor remnant buildup.
    - Some cleaning agents are corrosive in nature and may cause damage to the product. If you do not rinse and dry the product well, a corrosive residue may be left on the surface of the product that could cause premature corrosion of critical components. Failure to follow these cleaning instructions may void your warranty.

Remove iodine

1. Make a solution of 1 to 2 tablespoons of sodium thiosulfate in a pint of warm water. Use the solution to wipe down the stained area.
2. Clean the stain as soon as possible after the stain occurs.
3. If stains are not immediately removed, allow solution to soak or stand on the mattress before you wipe the mattress.
4. Rinse the mattresses which have been exposed to the solution with clear water before you return the mattresses to service.

    Note - Failure to follow these directions when you use these types of cleaners may void this product's warranty.

Special instructions

Velcro®	Saturate with disinfectant, rinse with water, and allow the solution to evaporate.
Solids or stains	Use neutral soaps and warm water. Do not use harsh cleansers, solvents, or abrasive cleaners.
Hard-to-clean spots	Use standard household cleansers or vinyl cleansers and a soft bristle brush on troublesome spots or stains. Pre-soak dried-on soil.
Laundering	Laundering is not recommended. Laundering may substantially decrease the useful life of the mattress.

Cleaning the mattress

Cleaning and disinfecting are two separate processes. Clean before disinfecting to make sure that the cleaning agent is effective.

WARNING

- Do not wash the internal components of this mattress. Discard the mattress if contamination is found inside.
- Do not immerse the mattress in cleaning or disinfectant solutions.
- Do not allow liquid to pool on the mattress.
- Do not iron, dry clean, or tumble dry the mattress cover.

CAUTION

- Always use the 6300-1-000 mattress cover on the foam core.
- Always make sure that you wipe the product with clean water. Dry each product after cleaning. Some cleaning agents are corrosive in nature and may cause damage to the product. Failure to follow these cleaning instructions may void your warranty.
- Do not use cleaning agents and disinfectants with aggressive chemicals as they will reduce the expected life of the mattress cover.
- Do not allow liquid to seep into the zipper area or watershed cover barrier when you clean the mattress bottom. Fluids allowed to come in contact with the zipper may leak into the mattress.
- Always dry the mattress cover before you store, add linens, or place a patient on the surface. A dry product helps to prevent impaired product performance.

Always follow hospital protocols for cleaning and disinfecting.

To clean the mattress cover:

1. Wipe the mattress cover with a clean, soft, damp cloth with a mild soap and water solution to remove foreign material.
2. Wipe the mattress cover with a clean, dry cloth to remove excess liquid or cleaning agent.
3. Allow the mattress cover to dry.

Note - Laundering is not recommended as it may decrease the useful life of the mattress.

Disinfecting the product

WARNING

- Do not clean, service, or perform maintenance while the product is in use.
- Do not steam clean, hose off, or ultrasonically clean the product. Use of these methods of cleaning is not recommended and may void the product's warranty.

Recommended disinfectants

- Quaternaries (2100 ppm active ingredient - ammonium chloride) with no glycol ether
- Chlorinated bleach solution - 1000 ppm active
- 70% isopropyl alcohol (700,000 ppm)

Recommended disinfection method

1. Follow the disinfectant solution manufacturer's dilution recommendations.
2. Hand wash all surfaces of the product with a disinfectant solution.
3. Avoid over-saturation and make sure that the product does not stay wet longer than the chemical manufacturer's guidelines for proper disinfecting.
4. Dry thoroughly. Do not replace the mattress on the product until the product is dry.
5. Disinfect the hook and loop fasteners after every use. Saturate the hook and loop fasteners with disinfectant, rinse with water, and allow the disinfectant to evaporate (appropriate disinfectant is determined by the facility).
6. Check functionality before you return the product to service.
    - Raise and lower the product
    - Lock and unlock the brake/steer pedal in both positions
    - Latch and unlatch the siderails
    - Raise and lower the Fowler backrest
    - Make sure all components have proper lubrication
    - Make sure that the jack does not stick due to dust or debris
    - Make sure all labels are intact

Note

- Direct skin contact with visibly soiled, permeable material may increase the risk of infection.
- Some cleaning agents are corrosive in nature and may cause damage to the product. If you do not rinse and dry the product well, a corrosive residue may be left on the surface of the product that could cause premature corrosion of critical components. Failure to follow these cleaning instructions may void your warranty.

Disinfecting the mattress

WARNING

- Always disinfect the mattress following your hospital protocols to avoid the risk of cross-contamination and infection.
- Do not immerse the mattress in cleaning or disinfectant solutions.
- Do not allow liquid to pool on the mattress.
- Do not use **Virex® TB** to disinfect this product.
- Do not use accelerated hydrogen peroxides or quaternaries that contain glycol ethers as they may damage the mattress cover.

CAUTION

- Always make sure that you wipe the product with clean water. Dry each product after cleaning. Some cleaning agents are corrosive in nature and may cause damage to the product. Failure to follow these cleaning instructions may void your warranty.
- Always dry the mattress cover before you store, add linens, or place a patient on the surface. A dry product helps to prevent impaired product performance.
- Do not overexpose the mattress cover to high concentrations of disinfectant solutions as they may degrade the mattress cover.
- Do not allow liquid to seep into the zipper area or watershed cover barrier when you clean the mattress bottom. Fluids allowed to come in contact with the zipper may leak into the mattress.
- Do not use cleaning agents and disinfectants with aggressive chemicals as they will reduce the expected life of the mattress cover.
- Failure to follow the manufacturing cleaning instructions and Stryker operational instructions may affect useful life of the mattress.

Recommended disinfectants:

- Quaternaries without glycol ethers - 2100 ppm active
- Chlorinated bleach - 1000 ppm active
- 70% Isopropyl alcohol (700,000 ppm)

Always follow hospital protocols for cleaning and disinfecting.

To disinfect the mattress cover:

1. Clean and dry the mattress cover before you apply disinfectants.
2. Apply recommended disinfectant solution with pre-soaked wipes or damp cloth. Do not soak the mattress.

   Note - Make sure that you follow the disinfectant manufacturer's instructions for appropriate contact time and rinse requirements.
3. Wipe the mattress cover with a clean, dry cloth to remove any excess liquid or disinfectant.
4. Allow the mattress cover to dry.

Preventive maintenance

WARNING - Always inspect the mattress each time you clean the mattress cover. Follow your hospital protocols and complete preventive maintenance each time you clean the mattress cover. If compromised, remove the mattress from use and replace the product to prevent cross-contamination.

Remove product from service before you perform the preventive maintenance inspection. Check all items listed during annual preventive maintenance for all Stryker Medical products. You may need to perform preventive maintenance checks more often based on your level of product usage. Service only by qualified personnel.

Note - Clean and disinfect the exterior of the mattress before inspection, if applicable.

Inspect the following items:

_____ Zipper and cover (top and bottom) are free of tears, cuts, or holes

_____ Unzip the cover to check internal components for signs of stains from fluid ingress or contamination

_____ Foam and other components have not degraded or come apart

_____ All welds

_____ All fasteners are secure

_____ All product labels are in place and legible

_____ All weldments (base frame, brake, litter, jack, carriage, IV pole pivot weldment, and push handle weldments) are not damaged

_____ Siderails move and latch

_____ Siderail latches are secure

_____ Siderail is not damaged

_____ Siderail latch is not damaged, no burrs or debris in latch assembly

_____ Antistatic caster is not worn or damaged

_____ Casters lock with brake pedal applied

_____ Casters are secure and swivel

_____ Casters are free of wax and debris

_____ Casters are not worn or damaged

_____ Caster mounting joint is not damaged

_____ Casters, brake mechanism, and brake rod are not damaged or cracked

_____ Fowler raises, lowers, and latches in place

_____ Fowler does not drift or drop unexpectedly

_____ No leaks at the Fowler backrest cyclinders

_____ Fowler gas cylinder pin is not stuck

_____ Brake/steer pedals are not bent or damaged

_____ Brake mechanism works

_____ Steer function works

_____ Fifth wheel is not worn or damaged and works

_____ Fifth wheel linkage is not bent or overtraveled

_____ No debris or wax buildup in fifth wheel

_____ Carriage bolt is secure

_____ Base frame is not damaged

_____ Pump pedal is not loose, worn, or damaged

_____ Hydraulic release pedals are not loose or damaged

_____ Jack release valve is free of dust, debris, does not stick

_____ Jack linkages are not out of adjustment or damaged

_____ Jack adjustment valves and spring work

_____ Jacks are not damaged

_____ Head end and foot end jacks raise and lower at the same time

_____ Litter raises and lowers from all locations

_____ Litter components are in place and not damaged (fastener, holding pin, pin, bushing not backing out, loose, worn out, or damaged)

_____ Trendelenburg/Reverse Trendelenburg operates from all locations

_____ Check skins for cracks

_____ Hook and loop fastener is in place, intact, and secure

_____ Fowler raises, lowers, and latches in place

_____ Fowler subsystem (handle, wire, base weldment, cylinder, fasteners, etc.) are not damaged

_____ Hydraulic jacks are holding

_____ No interference between wire and mechanical components on the Fowler backrest

_____ No leaks at hydraulic connections

_____ Lubricate where required

_____ Push handles are not loose or damaged

_____ Body restraints latch and are secure (optional)

_____ IV pole is intact, is not damaged, and adjusts and latches in all positions (optional)

_____ Oxygen bottle holder is intact and opens and closes (optional)

_____ No rips or cracks in the mattress cover

_____ Accessories and mounting hardware are in good condition

Product serial number:
Completed by:
Date:

Retractable fifth wheel lubrication

Tools required:

- MPG-3 grease
- Bungee cords

Procedure:

1. Raise the product to the highest position.

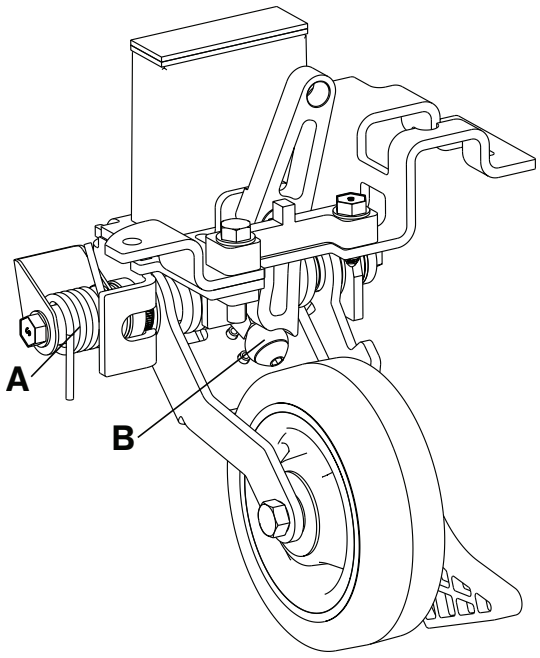


Figure 22 – Retractable fifth wheel lubrication

2. Raise the base hood and support the hood with bungee cords.
3. Apply MPG-3 grease to the spring (A) and roller (B) (Figure 22).
4. Remove the bungee cords and lower the hood.
5. Verify proper operation before you return the product to service.

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