Operation & Maintenance Manual

Titan Transport Stretcher
S-AM1-300X

Amico

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Intended Use

The Titan Series Stretcher (S-AM1-300X) is intended for patients in all areas of the hospital and in ambulatory surgical centers.

Introduction

The Amico Titan Series Stretcher (S-AM1-300X) incorporates distinctive features and a user-friendly design, which bring efficiency to the medical and surgical environment.

The stretcher also features several standard functions such as a central brake locking system, adjustable fowler section, radio lucent board, adjustable knee section, and roller bumpers. Articulation of the Titan Series Stretcher (S-AM1-300X) is controlled by the caregiver through pedals located around the centre of the base.

This manual provides instructions required for normal operation of the Titan Series Stretcher (S-AM1-300X) from Amico Beds Corporation. Prior to operation of this stretcher, it is important that this manual is read and ensure that all safety aspects contained in this manual are strictly adhered to.

Description of Symbols

This document contains different typefaces and symbols designed to improve readability and increase understanding of its content.

WARNING AND CAUTION

WARNING: Identifies situations or actions that may affect patient or user safety. Disregarding a warning could result in patient or user injury.

CAUTION: Points out special procedures or precautions that personnel must follow to avoid equipment damage.

CAUGHT HAZARD WARNING

This symbol highlights a **CAUGHT HAZARD WARNING**.

Description of Symbols

Symbol	Description
	Type B applied part according to IEC 60601-1 (UL 60601-1).
IPX4	According to IEC 60529, rating for protection against fluid ingress and identified as equipment that is protected against spraying and splashing water.
IPX0	Ordinary equipment not rated for fluid ingress per IEC60529. This applies to exam light control box ONLY.
	**CAUTION:** Consult accompanying documents.
	Medical electrical equipment classified by Underwriters Laboratories inc. with respect to electric shock, fire, and mechanical hazards only in accordance with UL60601-1, CAN/CSA C22.2 No. 601.1, IEC60601-1-2-38, and IE60601-2-46.
CPR	CPR control - Activates the CPR function.
	Stretcher down control - Shows which way the stretcher will move when the pedal is pressed.
	Stretcher up control - Shows which way the stretcher will move when the pedal is pressed.
	Trendelenburg control - Puts the stretcher in the Trendelenburg position.
	Reverse Trendelenburg control - Puts the stretcher in the reversed Trendelenburg position.
	Siderail latch release - To lower the siderail.
	Keep hands clear.
	Safe working load - Shows the safe working load of the stretcher.
	**CAUTION:** Do not sit on foot section of stretcher while knee section is raised.

Specifications

Model Number	Model Identification Description	
S-AM1-300X	Manual Stretcher With Hydraulics	
Feature	**Dimension (inches)**	**Dimension (cm)**
Total Length	84.5	214
Maximum Width	33	84
Mattress to Siderail Height	12	30
Maximum Under Bed Clearance	6	15
Surface Dimensions		
Surface Width	25	63.5
Surface Length	75	191
Surface Mattress Thickness	4 to 5	10 to 12.7
Litter Section		
Fowler Length	28.5	72
Fowler Width	25	64
Seat Length	12.25	31
Seat Width	25	64
Knee Gatch Length	12.25	31
Knee Gatch Width	25	64
Foot Section Length	20	51
Foot Section Width	25	64
Caster Size	8" diameter	20 cm diameter
Stretcher Lift Capacity	550 lbs	250 kg
Total Weight Without Surface	300 lbs maximum	136 kg maximum
Head Section Inclination (maximum)	80° ± 5	
Knee Section Inclination (maximum)	35° ± 5	
Stretcher Height Range - Lowest position (without mattress)	21.5	55
Stretcher Height Range - Highest position (without mattress)	34	86
Trendelenburg Position (maximum)	16°	
Reverse Trendelenburg Position (maximum)	16°	
Environmental Conditions for Transport and Storage		
Temperature	-40° F to 158° F (-40° C to 70° C)	
Relative Humidity	95% non-condensing	
Pressure	50 kPa to 106 kPa	
Environmental Conditions for Use		
Temperature	50° F to 95° F (10° C to 35° C)	
Relative Humidity	20% to 85% non-condensing	
Pressure	70 kPa to 106 kPa	
Classification and Standards		
UL 60601-1		
CSA C22.2 No 601.1-M90		
IEC/EN 60601-1		
Equipment Classification per IEC 60601-1	Type B	

Features

Item	Description	Item	Description
1	Foldable siderails with full length bumper	7	Down/Trendelenburg/reverse Trendelenburg control pedals
2	Mattress	8	Oxygen tank holder and patient item storage
3	Transport handles	9	Brake & neutral pedal
4	IV pole mounting socket	10	Knee surface articulation crank
5	8" (203 mm) urethane casters	11	Corner bumpers
6	Hi-Lo pump pedal	12	Directional wheel

Siderail Positions

WARNING: Evaluate patients for entrapment risk according to facility protocol, and monitor patients appropriately. Ensure that all siderails are fully latched when in the raised position. Failure to do either of these could result in serious injury or death.

NOTES: Siderails are intended to be a reminder to the patient of the unit's edges, not a patient-restraining device. When appropriate, Amico recommends that medical personal determine the proper methods necessary to ensure a patient remains safely in the stretcher.

TO RAISE A SIDERAIL

- Lift the siderail towards the up position until the latch locks in place.

TO LOWER A SIDERAIL

- Lift the latch to unlock the siderail. Hold latch in up position while lowering the siderail, then release.

Mattresses

WARNING: Only mattresses that meet Amico specifications and recommendations should be used. Failure to do so could reduce the effectiveness of the safety features and systems incorporated into the stretcher. Personal injury or equipment damage could occur.

Push Handles

The push handles located at the head and foot end of the stretcher are used to move the stretcher.

STORE

1. Lift up on the push handle and rotate it into the push position. The handle should automatically drop into its locked position for pushing.
2. Lower the push handle by pulling up on the handle and rotating it to the stored position.

Brake/Neutral/Steer System

The brake/neutral pedals are located at the head end and foot end of the Titan Series Stretcher (S-AM1-300X) with a central brake system.

WARNING: Unless transporting the patient, always set the brakes when the stretcher is occupied. Reconfirm that the brakes are set before any patient transfer. Failure to do so may result in personal injury or equipment damage.

To set the brakes, press on the RED section of one of the brake pedals. All four casters will lock.

To release the brakes, press on the GREEN section of one of the brake pedals to set it in the neutral position.

The steering system is optional on the Titan Series Stretcher (S-AM1-300X). The steer function is used to keep the stretcher moving in a straight line and to make it easier to turn corners.

Hi-Lo Control

The Hi-Lo function foot pedals are on each side of the stretcher.

1. To raise the stretcher, press the up control pedal and pump it until the desired height is reached.
2. To lower the stretcher, press the down control pedal until the desired height is reached.

WARNING: It is recommended that the stretcher be in the lowest position when the patient is unattended. This may help reduce the severity of any injuries resulting from patient falls.

CAUTION: Use caution when lowering the stretcher. Make sure items in the storage compartment do no interfere with the upper frame. Equipment damage could occur.

Down/Trendelenburg/Reverse Trendelenburg

WARNING: When changing the stretcher's position, make sure hands, feet and equipment are clear of the stretcher's frame assemblies. Failure to do so could result in personal injury or equipment damage.

The Trendelenburg/reverse Trendelenburg function control pedals are on each side of the stretcher.

TO PUT THE STRETCHER IN THE TRENDELENBURG POSITION

a. Put the stretcher in its raised position (see "Hi-Lo" on previous page).

b. Press reverse Trendelenburg control pedal, and hold it until the desired angle is reached.

TO PUT THE STRETCHER IN THE REVERSE TRENDELENBURG POSITION

a. Put the stretcher in its raised position (see "Hi-Lo Control" on page 10).

b. Press reverse Trendelenburg control pedal, and hold it until the desired angle is reached.

TO LEVEL THE SLEEP SURFACE

a. Press the down control pedal to lower the stretcher to its lowest position. The sleep surface levels automatically.

b. If the stretcher is in the Trendelenburg position, press the reverse Trendelenburg control pedal until the stretcher is level.

c. If the stretcher is in the reverse Tredelenburg position, press the Trendelenburg control pedal until the stretcher is level.

Head Section Articulation

WARNING: Surface positions that cause the patient's torso to be at an angle less than 90° to the legs could reduce circulatory efficiency in the lower extremities. Such positions are not recommended for extended periods of time and should be under medical supervision. Patient injury could occur.

WARNING: Make sure to fully control the lift mechanism when there is little or no weight on it. Failure to do so could cause it to rise quickly and cause personal injury or equipment damage.

TO RAISE THE HEAD SECTION

a. Squeeze the bar under the head section and lift up on the head section.

b. Release the bar when the desired position is reached. The head section locks in place.

Head Section Articulation

TO LOWER THE HEAD SECTION

a. Squeeze the bar under the head section and push down on the head section.

b. Release the bar when the desired position is reached. The head section locks in place.

Knee Surface Articulation Crank

TO RAISE THE KNEE SURFACE

a. Pull out the crank handle from its stored position under the foot section.

b. Turn the crank handle clockwise until the knee surface reaches the desired position.

TO LOWER THE KNEE SURFACE

a. Pull out the crank handle from its stored position under the foot section.

b. Turn the crank handle counterclockwise until the knee surface reaches the desired position.

After raising or lowering the knee surface, return the crank to its stored position.

Permanent Telescopic IV Pole

The permanent IV pole is available as an option on the Titan Transport Stretcher (S-AM1-300X).

WARNING: Do not exceed the load capacity of the IV pole. If the IV pole is overloaded, personal injury or equipment damage may occur. The safe working load of the pole is 30 lbs.

TO RAISE THE PERMANENT IV POLE

a. Grasp the stored IV pole and raise it from its stored position. Make sure it is secure in its support bracket. The pole should drop into the support bracket.

b. Grasp the top section of the IV pole, loosen the knob and raise it until the desired height is reached. Tighten the knob to hold the IV pole in position.

TO LOWER THE PERMANENT IV POLE

a. Loosen the knob to release the IV pole.

b. Manually lower the top section of the pole until it fully collapses.

c. Lower the IV pole to its stored position (resting in the IV pole cradle).

Safety Tips

BRAKES

WARNING: Unless transporting the patient, always set the brakes when the stretcher is occupied. Reconfirm that the brakes are set before any patient transfer. Failure to do so may result in injury or equipment damage. Patients often use the stretcher for support when getting out of the stretcher and could be injured if the stretcher moves unexpectedly. After setting the brakes, push and pull the stretcher to make sure it is stable.

SIDERAILS/RESTRAINTS/PATIENT MONITORING

WARNING: Evaluate patients for entrapment risk according to facility protocol, and monitor patients appropriately. Make sure that all siderails are fully latched when in the raised position. Failure to do either of these could result in serious injury or death.

NOTE: Siderails are intended to be a reminder to the patient of the stretcher's edge, not a patient-restraining device. When appropriate, Amico recommends that medical personnel determine the proper methods necessary to make sure a patient remains safely in the stretcher.

Siderails may serve several beneficial uses including providing an edge reminder and stretcher exit assist. The uses of siderails may also provide a sense of security. The use of siderails in any position should be appropriate for the patient's need, after assessing any risk factors according to the facility protocols for safe positioning.

When raising the siderails, a click indicates that the siderails are completely raised and locked in place. Once the click is heard, gently pull on the siderail to make sure it is latched correctly in position.

WARNING: Patient restraints are not intended as substitutes for good nursing practices. Physical restraints, even properly installed, can result in entanglement, physical injury or death, particularly with agitated and disoriented patients. Monitor patients when using physical restraints in accordance with legal requirements and facility protocols.

1. Develop guidelines for all patients, indicating:
   - Which patients may need to be restrained and the appropriate restraint to utilize.
   - The proper method to monitor a patient, whether restrained or not, including time interval, visual check of restraint, etc.
2. Develop training programs for all caregivers concerning the proper use and application of restraints.
3. Clarify the need for restraint devices to families or guardians.
4. Set the stretcher at its lowest position whenever a caregiver is not in the room.

For restraining devices, consult the restraint manufacturer to verify the correct application of each restraining device.

PARTS AND ACCESSORIES

Use only Amico parts and accessories. Modification of the stretcher shall be at the customer's risk and liability.

OPERATING STRETCHER/SURFACE PRECAUTIONS

WARNING: Do not operate the stretcher in the presence of flammable gas or vapors. Doing so could result in personal injury or equipment damage.

Safety Tips

WARNING: Only use Oxygen administering equipment of the nasal, mask or ventilator type, or Oxygen tents that can be contained within the perimeter of the siderails in the stretcher. Failure to do so could result in personal injury or equipment damage.

WARNING: Operate the stretcher within the stated environmental conditions, see "Specifications" on page 3. Failure to do so could result in patient injury or equipment damage.

TRANSPORT

CAUTION: Before moving the stretcher, make sure that power cords, hoses and other equipment are properly stored. Failure to do so could result in equipment damage.

CAUTION: Do not push or pull the stretcher by IV poles, siderails, or other equipment. Use the push handles located at the head or foot of the stretcher.

Use only the transport handles (if installed) to move the stretcher. Failure to do so could result in equipment damage.

Make sure the patient, equipment, and all lines are securely placed within the perimeter of the stretcher for intra-hospital transport. Fully extended IV poles could impact doorways or ceiling fixtures. IV poles should be lowered prior to patient transport.

SLEEP SURFACE/MATTRESS

WARNING: Sleep surface impermeability could be affected by needle sticks. Caregivers should be instructed to avoid punctures caused by improper use of X-Ray cassette holders and/or needle sticks. Failure to do so could result in cross-infection and patient injury.

The sleep surface should be regularly inspected for punctures, rips, tears, or other such damage. Replace the surface as necessary.

FLAMMABILITY

WARNING: Patients should not be allowed to smoke in the stretcher. Sheets and pillows generally do not have flame retardant properties. Personal injury or equipment damage could occur.

Reduce the possibility of fires by observing fire prevention rules and regulations. To help prevent the risk of hospital stretcher fires, make sure facility personnel follow the safety tips in the FDA Public Health Notification: Safety Tips for Preventing Hospital Bed Fires.

SPRAY WASHING

CAUTION: Do not directly spray the hydraulic cylinders. Equipment damage could occur.

CAUTION: Do not exceed 25 psi (172 kPa) when spray washing. Equipment damage could occur.

The stretcher can be spray washed as necessary. Use a maximum nozzle pressure of 25 psi (172 kPa) at a distance of 6" (152 mm). Spray wash comprised of water only should not exceed a temperature of 180° F (82° C). Spray wash comprised of detergent or solvents (no bleach) should not exceed a temperature of 120° F (50° C). After washing, seal any exposed, chipped steel parts, or oxidized areas with a coat of touch-up paint.

Replacements Parts

Description	Part Number
Hydraulic Actuator	B-ST-ACT-01
Siderail Assembly	S-SIDERAIL2
Base Cover	S-X-COVER -BASE-01
Roller Bumper	S-X-ROLLER-BUMPER
Oil Pan	S-X-OILPAN
Wheel Caster	S-CAS-ST-08B1, S-CAS-ST08B2 , S-CAS-ST-08B3, S-CAS-ST-08B4
Foley Bag Hook	S-X-DRAINHOOK
Brake Pedal	NS-H300-BRAKEPEDAL

Preventive Maintenance

WARNING: Only facility-authorized personnel should service the S-AM1-300X Series Stretchers. Servicing performed by unauthorized personnel could result in personal injury or equipment damage.

The Titan Series Stretcher (S-AM1-300X) requires an effective maintenance program. We recommend that you perform annual preventive maintenance (PM) and testing for Joint Commission on Accreditation of Health Care Organizations (JCAHO). PM and testing not only meet JCAHO requirements but will help ensure of a long, operative life for the Titan Series Stretcher (S-AM1-300X). PM will minimize downtime due to excessive wear.

Perform annual preventive maintenance procedures to make sure all Titan Series Stretcher (S-AM1-300X) components are functioning as originally designed. Pay particular attention to safety features, including but not limited to the following:

- Siderail latching mechanisms
- Caster braking systems
- Integrity of sleep surface ticking
- Hydraulic functionality
- Integrity of warning/cautions labels

Cleaning

BLEACH CLEANING INSTRUCTIONS

If none of the approved cleaning products provide the disinfectant level required then use a solution of 5.25% Sodium Hypochlorite diluted to 1 part bleach to 50 parts water (1,000 ppm), (volume to volume).

Bleach products are corrosive and degrading in nature and may cause damage to your product. If bleach is used, measures must be taken to ensure the product is rinsed thoroughly with clean water and thoroughly dried. Failure to rinse and dry the product will leave a corrosive residue on the surface possibly causing corrosion.

- Failure to follow the above directions may void the product's warranty.
- Do not immerse the product in water.
- Do not attempt to clean or degrease the steel.
- Use only approved cleaning products. If bleach is being applied to the product, strictly adhere to the Bleach Cleaning Instructions.
- Do not use a water temperature of more than 50° C or °F.

All Surfaces

- For mattresses please refer to mattress cleaning instructions.

Before Cleaning

- Set the stretcher on brake by pressing on the brake pedals to the brake position.

During Cleaning

- Do not use abrasive cleaning products.
- Do not use oil based products.
- Do not use a steam cleaner, washing tunnel, high-pressure spray or hose.

To Wash

- Wipe with a sponge or soft cloth wetted with warm water containing soap or mild detergent.

To Dry

- Thoroughly wipe with a dry sponge or soft cloth.

To Disinfect

- Wash the surface with one of the approved cleaners or refer to the Bleach Cleaning Instructions if bleach needs to be used.
- Wipe off residue with water using a soft cloth or sponge.
- Thoroughly dry.

Cleaning

MATTRESS CLEANING INSTRUCTIONS

To Wash

- Wipe with a sponge or soft cloth wetted with warm water containing soap or mild detergent.

To Rinse

- After washing, rinse cover with warm water to remove residue.

To Dry

- Thoroughly wipe with a dry sponge or soft cloth.

To Disinfect

- Wash the surface with one of the approved cleaners or refer to the Bleach cleaning instructions if bleach needs to be used.
- Wipe off residue with water using a soft cloth or sponge.
- Thoroughly dry.

Before Cleaning

- Disconnect or unplug the power cord from the mains supply (If electric).
- Set the bed brake on by pressing on the brake pedals to the brake position.

During Cleaning

- Do not use abrasive cleaning products.
- Do not use oil based products.
- Do not use a steam cleaner, washing tunnel, high-pressure spray, or hose.

Warranty Policy

Amico Beds Corporation warrants its Patient Equipment to be free from defects in material and workmanship for a period of twelve (12) months from the date of shipment. Within this period Amico Beds Corporation will provide the parts for repair or replacement of defective parts at Amico Beds Corporation cost.

Shipping and Installation costs after the first twelve (12) months will be borne by the Customer.

This warranty is valid only when the product has been properly installed according to Amico Beds Corporation specifications, used in a normal manner and serviced according to factory recommendations. It does not cover failures due to damage which occurs in shipments or failures which result from accidents, misuse, abuse, neglect, mishandling, alteration, misapplication or damage that may be attributable to acts of God.

Amico Beds Corporation shall not be liable for incidental or consequential damages resulting from the use of the equipment.

Notes

Notes

www.amico.com

Amico Beds Corporation | 85 Fulton Way, Richmond Hill, ON L4B 2N4, Canada
Toll Free Tel: 1.877.462.6426 | Tel: 905.764.0800 | Fax: 905.764.0862
Email: info@amico.com | www.amico.com

AB-IM-TITAN-TRANSPORT-STRETCHER 12.22.2022