



1707B –Emergency & Recovery Trolley

User's Manual

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INTRODUCTION

About this User Manual

This user manual contains instructions for the proper and safe use of the trolleys, and for patient & user safety and comfort, which has to be strictly followed.

This User Manual has to be read and followed by every person using or handling these trolleys. In case of any query, kindly contact Midmark India Pvt. Ltd.

ABOUT THIS PRODUCT

These trolleys have a two-section top with a removable X-ray permeable stretcher top made of the pre-treated laminated board supported on the tubular frame. The reverse Trendelenburg tilt position is actuated by screw mechanism and backrest on a ratchet mechanism

These trolleys are non – invasive medical devices used for patients to lie down, and for their examination and treatment by doctor/ medical/ paramedical/ hospital personnel. These trolleys are patient support and patient rest facility which help medical experts in carrying out their medical procedures comfortably.

These trolleys are manufactured and supplied in non – sterile condition for use in a normal hospital environment.

These trolleys are manually operated for short term carrying/ transfer of patients and used in trauma care unit/ critical care units.

Trolleys Features



Please refer to the 1710-1710A-1707B catalogue for the salient features of this product.

Technical Data



Please refer to the 1710-1710A-1707B catalogue for the technical data of this product.

Add-On Accessories



Please refer to the 1710-1710A-1707B catalogue for the technical data of this product.

DEFINITIONS

Operator

The operator is the person appointed by the owner (i.e. clinic, hospital management. etc.) who will be responsible for the safe operation of these trolleys

User

A user is a person who is capable of assessing the clinical condition of the patient e.g. specialist medical personnel, doctors, nursing staff, attendants, etc. based on their training experience or through the instructions, they are entitled to operate the trolleys on their responsibility or to carry out work on it and can recognize and control possible risks to the patient as well as the trolleys.

Patient

A patient is a person who is ill, infirm, disabled, or in need of medical assistance

SAFETY

In this User Manual, the following safety symbols are used



Danger: This symbol will appear wherever safety instructions are designed to protect people from physical harm. The symbol stands for imminent danger of death or serious injury



Caution: This symbol will appear where situations are described, which might be dangerous, and which might inflict slight injuries.



Advice: This symbol will appear in front of additional helpful pieces of advice

- A dot in front of the text implies the action that is required to be taken.

Safety Instructions

- Always use original accessories that have been designed and approved for use with the trolleys
- Ensure that the trolleys are assembled and installed following the instructions given in this user manual (wherever required)
- Restrict child visitors without proper attendants. Supervision is necessary to avoid any mishap due to unintended movement of the trolleys
- Persons with reduced physical or mental abilities and children must not be allowed to use and handle the trolley without proper supervision
- Do not allow any visitor to sit on the trolley, as it may cause overloading (Refer section operation)
- Do not keep any articles below the trolley mainframe except in the storage tray wherever provided. It can cause damage to the user and device
- Ensure that these trolleys are moved on a smooth steeples floor without any obstructions in its path, to prevent any inconvenience to user and damage to the ward care accessories and peripherals
- Accessories or any devices used along with the trolleys should be as per its intended use specified and approved by Midmark India Pvt. Ltd.
- Keep some gap between walls and the trolleys while in a stationary position and also while moving from one place to another
- Always place the head side of two sections removable stretcher top correctly above the oxygen cylinder cage provision to avoid any injuries to the patient during emergencies
- Keep the user manual handy with the operator/user for ready reference
- A notice to the user and/or patient that any serious incident that has occurred In relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.



is used for patient comfort. Before operating the trolley, make sure the patient is safely positioned on the mattress to avoid any inadvertent entrapment or imbalance

Midmark India Pvt. Ltd. recommends the use of original Mattresses that have been designed & tested specifically for these trolleys. Mattress's impermeability could be affected by needle sticks. Users should be instructed to avoid punctures caused by improper use of needle sticks.














Failure to do so could result in cross-infection & patient injury. The mattress should be regularly inspected for punctures, rips, tears or other such damage & replaced with the suitable original mattress if required



The shape and height of the side railings are optimized to provide patient safety from an accidental rollover at the same time facilitating the user to provide easy access for emergency treatment and easy access to the patient

DESCRIPTION OF SYMBOLS: -

Symbol & Title	Definition
	Catalog number
	Batch/lot code
	Caution
	Consult instructions for use Follow operating instructions
	Manufacturer and date of manufacture
	In-house use
	Working temperature limits
	Working humidity level
	Medical device
	Refer to instructions for use
	CE logo

ENVIRONMENTAL SPECIFICATIONS

Usage, Storage and Transport

Temperature	-10° C to 50°C
Relative Humidity	0% to 95% non-condensing
Atmospheric Pressure	800 to 1060 hPa
Altitude	< 200Qm

INSTALLATION

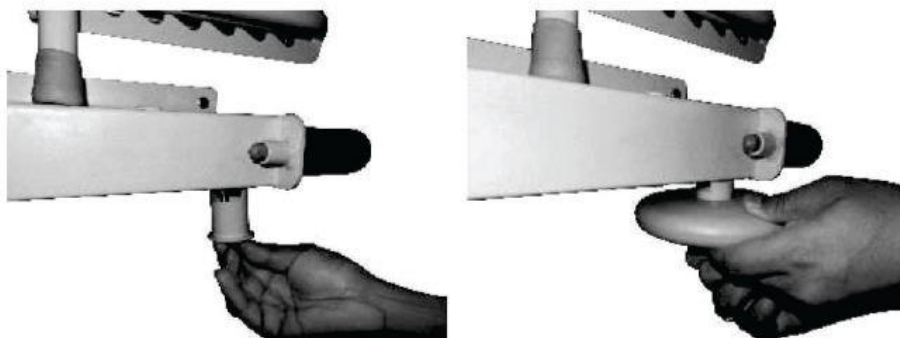


1. Unpack all the components carefully.
2. If the packing is drenched by rain, water, or other liquids, inform this matter to the operator
3. Each 1704 trolley is supplied with the following components as per packing list

Rubber Buffer - 4 Nos. Telescopic IV pole - 1 No. Stretcher top
- 1 No. Removable handle - 1 No. Hardware - 1 packet

4. Buffers

- Remove the buffer holder from the frame. Fix the rubber buffer in the buffer holder with bush and bolt at all 4 corners as shown above

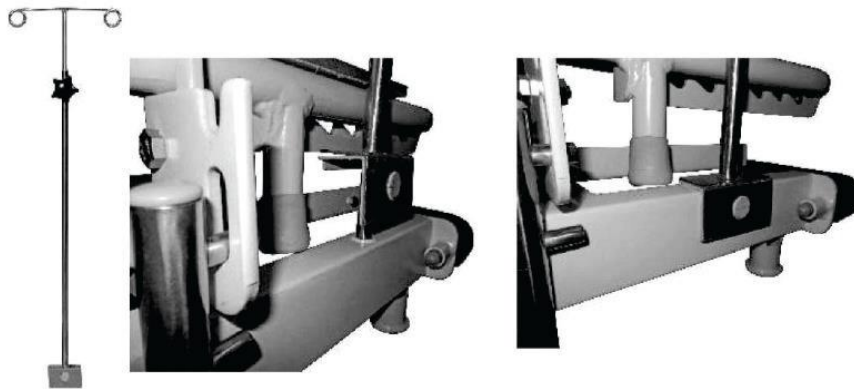


5. Oxygen cylinder cage (Add-On accessories)

6. Telescopic IV pole

Insert the telescopic IV pole in any one of the four provisions on the top frame

The IV pole has a safe working load of 5Kgs. Do not exceed the load capacity of the IV pole. If the IV pole is overloaded, personal injury or equipment damage may occur.



7. Safety side railings (Add-On Accessories)

- Fit the safety side railings on both the sides in the bracket provided for the same

8. Rexine covered mattress (Add- On Accessories & product specific)

- Rexine covered mattress of the suitable size to be positioned on the stretcher top



Ensure the patient is secured to the stretcher top and mattress with the safety belts provided

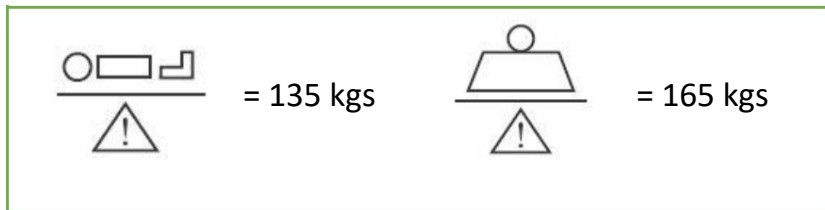


Notify if any damage has occurred during transportation either to the authorized agent or directly to Midmark India Pvt. Ltd.



Disposal of the packing material waste following the local waste disposal regulations prevailing

LOAD BEARING CAPACITY



Do not exceed the safe working load mentioned above

Operation

Before putting the trolleys into use for the first time ensure that all the transport securing devices and packing film are removed

Clean and disinfect the trolleys before the first time use
The trolleys should be used on a flat floor

The force required to move the trolleys from one place to another with/without patient may vary depending on the flooring conditions

Adjusting the Backrest Section: The backrest section is adjustable on a ratchet system. Five different positions can be achieved by adjusting backrest rod to the suitable slot



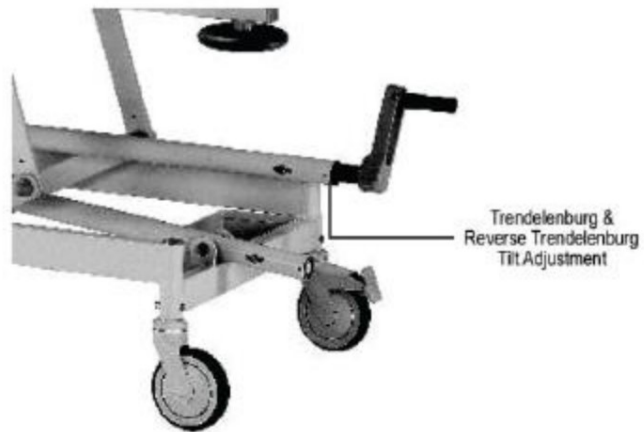
A person operating the trolley should take care to avoid entrapment of fingers/ hand in between stretcher top and mainframe/ IV pole



Trendelenburg or Reverse Trendelenburg Tilt Adjustment: Turn the handle in an anti-clockwise direction for Trendelenburg position and clockwise direction for reverse Trendelenburg position



The degree of Trendelenburg and Reverse Trendelenburg tilt provided in various trolleys are optimized based on various factors in manufacturing and usage

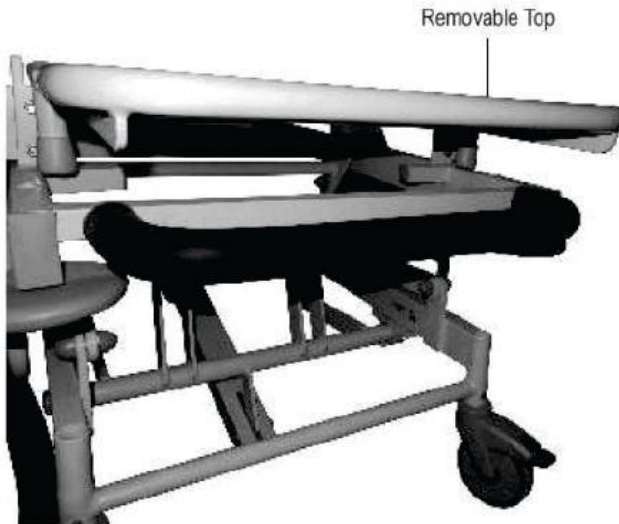


Adjusting the height: Turn the handle into the anti-clockwise direction to raise the height and clockwise direction to lower the height



Provision of X-ray cassette holder: X-ray cassette holder is provided which can be moved under the stretcher along the length

Removable stretcher: The stretcher is removable from the trolley by lifting it from both ends



Castors and braking mechanism: The trolley is equipped with the four 125 mm high-grade synthetic castors; two diagonally opposite castors are with brakes. To lock the castors press the latch, and to unlock release the latch

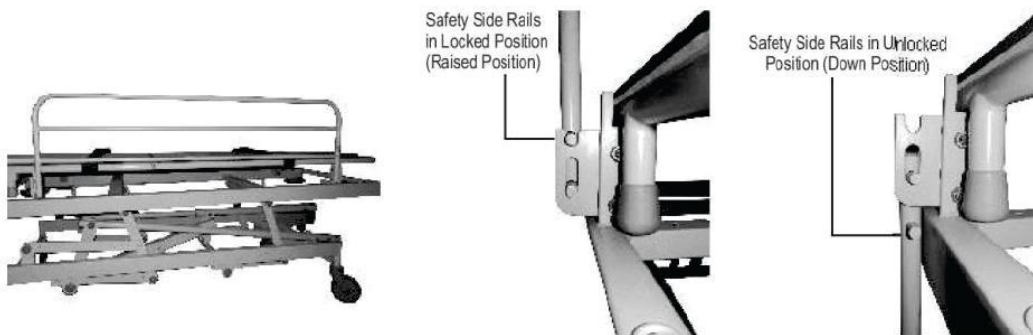


Swing-away type safety side railings: These railings are provided for the safety of the patient

To use the safety side railings

- Immobilize the trolley
- To raise the safety side rails, lift the railing upwards and lock the railing in the slot provided in the bracket
- To lower the safety side rails, lift the railing to unlock and gently place it down

Safety Side Rails (Product Specific)



The shape and height of the safety side railings are optimized to provide patient safety from an accidental rollover at the same time facilitating the user to provide easy access to emergency treatment and assistance to the patient



Please take care of finger and hand entrapment while operating the safety side rails



Do not use the safety railings to lift or move the trolley



Although the safety side railings have been designed to reduce the risk of patient injury, the potential exists for patient entrapment, particularly in agitated or disoriented patients, patients who have a cognitive disability or have uncontrolled body movement as well as patients who lack the physical strength to extract themselves if they get entrapped



Do not use the trolleys for purposes other than the intended use as it may cause damage to the patient/equipment



With due consideration to environmental limitation, materials used to make the device are not affected by contact with any biochemicals or biowaste when used as per its intended purpose, all materials used in the product and accessories do not facilitate breeding or growth of bio-contaminants on their own.

MAINTENANCE & CLEANING

Maintenance

Each time before putting the trolleys into service the user must check that –

All the functions are in satisfactory working condition before the trolley is allotted to the next patient

Lubrication of all the mechanical joints/pins / moving parts / tightening of the bolts should be carried out at least once in three months, to avoid unnecessary sound and wear & tear of the Trolleys

At regular intervals carry out a visual inspection and check for any mechanical damage (e.g loose / missing rivets, screws, etc.)

If any damage or malfunction is observed, immediately report this matter to the operator

If the trolleys are not in use, it should be stored in a dry and rodent free indoor environment on a flat surface with a gradient not more than 5 degrees

If the trolleys are not in use for a long term, it is necessary to conduct a test to check for functioning and any mechanical damage that may have been caused

Depending on the usage, certain moving parts may require replacement due to wear & tear. We recommend timely replacement with original spares for safety and trouble-free operation

Cleaning & Disinfecting

The trolleys are not suitable for machine wash or steam cleaning
Do not use water jet for cleaning

The trolleys cannot tolerate the influence of strong solvent, basic or alkaline liquids & caustic agents

The cleaning agents must not contain any substances which bring about any change in the structure or adhesive property of the plastic

The trolleys should be properly cleaned and disinfected to avoid infection and stains before allotment to a new patient

Immobilize the trolley and remove all the detachable accessories and components before cleaning. Any prolonged contact of urine or acid on mild steel can easily corrode the surface.

Keep the surface dry at all times

Wearing suitable protective clothing, clean the surface with a disposable cloth soaked in a neutral detergent and hot

We recommend the use of approved disinfectant and cleaning agents to clean the trolleys.

Start by cleaning the upper sections of the trolley and work along all horizontal surfaces. Work methodically towards the lower sections of the trolley. Take extra care to clean areas that may trap dust or dirt. All detachable accessories and its component can be cleaned separately



Do not expose the trolleys to excessive moisture as corrosion may cause personal injury or equipment damage.

Disposal:



Product and its defective parts especially elements made of plastic, steel, rubber material should be disposed of following the statutory rules and regulations prevailing for such disposal. The user is advised to contact Midmarkindia Pvt. Ltd. for further assistance.



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Routine Inspection Check List: Inspection by the User (Recommended Frequency: Every new allotment but not later than three months)

Checks	Observation	OK	Not OK	Description of faults
Visual check of the mechanical components				
Main Frame	Damage, Deformation			
Screws and Rivets	Missing/ Loose			
Performance check of mechanical components				
Side railing (product specific)				
Castors				
Height (product specific)				
Tilt (product specific)				
Backrest (product specific)				
Rexine covered mattress (product specific)				
Sign			Date	



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Troubleshooting Guide

Problem	Possible Causes	Remedy
Height Function	Hydraulic pump Failure Jammed screw mechanism, tight to rotate The screw mechanism is bent or broken	Replace hydraulic pump Check and do little oiling and greasing Replace the screw mechanism
Tilt function not working (product specific)	Gas spring operating lever tight or out of alignment	Adjust the lever Replace gas spring
Castors	Cracked or broken	Replace or repair the castors

WARRANTY & SERVICE

Midmark India Pvt. Ltd. warrants solely to the end-users of this trolleys that for a period specified in the warranty certificate, such trolleys shall perform as per its intended use. The foregoing warranties shall not apply if the Product has been subjected to:(a) physical abuse, misuse, abnormal use, or use not consistent with Midmark India Pvt. Ltd.'s published directions, (b) any modification by anyone other than Midmark India Pvt. Ltd., or third parties designated by Midmark India Pvt. Ltd., or (c) fraud, tampering, negligence or accidents, depending upon the nature of the products.

Limitation Of Liability: In no event shall Midmark India Pvt. Ltd., be liable or obligated to the end-user in any manner for any special, non-compensatory, consequential, indirect, incidental, statutory or punitive damages of any kind. Including, without limitation. For injury or loss of life, lost profits lost sales. Lost revenue, loss of any software or data. or loss of use of any hardware, software or data, regardless of the form of action, whether in contract, tort, negligence, strict product liability, or otherwise, even if Midmark India Pvt. Ltd., has been informed of or is aware of the possibility of any such damages in advance. Midmark India Pvt. Ltd.'s total aggregate liability under this agreement and in relation to anything which Midmark India Pvt. Ltd., has done or not done in connection with this agreement shall be limited to the price of the products purchased and paid for by the end-user during the period in which such liability arises. The limitations set forth above shall be deemed to apply to the maximum extent permitted by applicable law and notwithstanding the failure of the essential purpose of any limited remedies.

In order to maintain functional safety and right to claim under the warranty only original 'Midmark' replacements parts may be used for ordering replacement parts, customer service request and further question, please contact our technical support department.



Disclaimer

Every effort has been made to ensure that the information in this user manual is valid. Midmark India Pvt. Ltd., reserves the right to change the information in this document without prior notice."

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