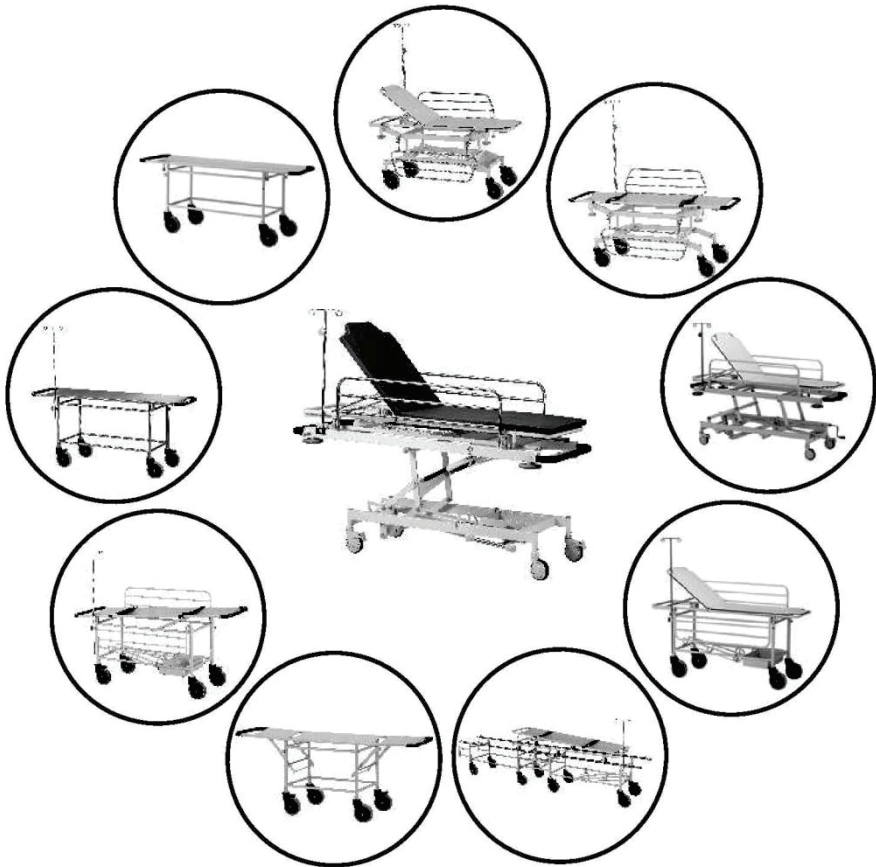




JANAK[®]
Because we care.



**Trolleys - For Patient
User's Manual**

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2. About this Product
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INTRODUCTION

About this User Manual

This User Manual contains instructions for the proper and safe use of Trolleys 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 are non-invasive medical devices used for the patients to lie down, and for their examination & 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 normal hospital environment
- These Trolleys are manually operated for short term carrying / transfer of patients, and used in Trauma Care Unit / Critical Care Units

Trolley Features

- **1710, 1710A and 1707B** - Please refer product catalogue **TS-A** for salient features of these products
- **1704, 1703, 1702, 1702A, 1735 and 1736** - Please refer product catalogue **TS-B** for salient features of these products
- **1711 and 1712** - Please refer product catalogue **TS-C** for salient features of these products

Technical Data

- **1710, 1710A and 1707B** - Please refer product catalogue **TS-A** for Technical Data of these products
- **1704, 1703, 1702, 1702A, 1735 and 1736** - Please refer product catalogue **TS-B** for Technical Data of these products
- **1711 and 1712** - Please refer product catalogue **TS-C** for Technical Data of these products

Optional Accessories

- **1710, 1710A and 1707B** - Please refer product catalogue **TS-A** for various accessories available and compatible with these products
- **1704, 1703, 1702, 1702A, 1735 and 1736** - Please refer product catalogue **TS-B** for various accessories available and compatible with these products
- **1711 and 1712** - Please refer product catalogue **TS-C** for various accessories available and compatible with these products

Trolleys - for Patient – Variants

1. 1710/1710A – Emergency & Recovery Trolley (Height on Hydraulic Pump)



In this Trolley there is a two section top with removable X-Ray permeable stretcher, height adjusted by foot operated hydraulic pump, gas spring assisted Trendelenburg / Reverse Trendelenburg tilt positions and backrest raised on ratchet mechanism.

1710A – Specifications are the same as in 1710, except for the bigger width of stretcher.

2. 1707B – Emergency & Recovery Trolley (Height on Screw Mechanism)



In this Trolley there is a two section top with removable X-Ray permeable stretcher top made of pre-treated laminated board supported on tubular frame. Height, Trendelenburg / Reverse Trendelenburg tilt positions adjusted by screw mechanism and backrest raised on ratchet mechanism.

3. **1702 – Stretcher Trolley with Tilttable Top**



This Stretcher Trolley is provided with tilttable top, and oxygen cylinder cage is supported on M.S. tubular frame. The tilttable top is hinged at one end of the Main Frame, and the other end can be raised on ratchet mechanism.

4. **1702A - (Stretcher Trolley with Two Section Removable Stretcher Top)**



This Stretcher Trolley has removable stretcher top in two section made of X-Ray permeable pre-laminated board supported on tubular frame. Backrest can be raised on ratchet mechanism.

5. 1703 - (Stretcher Trolley with Removable Stretcher Top)



This Trolley has removable stretcher top made of powder coated aluminium sheet supported on M.S. tubular frame. This Trolley is available with 200 mm swivel castors, two with brake and two without brakes.

6. 1704 - (Stretcher Trolley with Removable Stretcher Top) (Fully S.S.)



This Trolley has removable stretcher top made of stainless steel sheet supported on S.S. tubular frame.

7. 1711 – Transfer Trolley System



This Transfer Trolley consists of two under carriages and one tiltable stretcher mounted on M.S. tubular frame. The under carriages can be interlocked lengthwise and the stretcher rolled over from one carriage to another on rollers. Tiltable stretcher can be raised at one end on ratchet mechanism.

8. 1712 – Stretcher Trolley (Folding on both ends)



This Folding Stretcher Trolley has fixed foldable stretcher top made of powder coated aluminium sheet bolted on tubular trolley framework. It has folding ratchets at both ends.

9. **1735 - Stretcher trolley with single top**

This trolley has removable stretcher top made of powder coated aluminum sheet supported on M.S. tubular frame. This trolley is available with 200 mm swivel castors, two with brakes and two without brakes.



10. **1736 - Stretcher trolley with two section X-ray permeable top**

This trolley has removable stretcher top in two section made of x-ray permeable pre-laminated board supported on tubular frame. Backrest can be raised on ratchet mechanism.



DEFINITIONS

Operator

Operator is the person appointed by the owner (i.e. clinic, hospital management, etc.) who will be responsible for the safe operation of this Trolley.

User

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

Patient

The patient is a person who is ill, infirm, disabled or in need of medical assistance & occupying this Trolley.

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 Trolley
- Ensure that the Trolley is assembled and installed in accordance with the instructions given in this User Manual
- Restrict child visitors without proper attendants. Supervision is necessary to avoid any mishap due to unintended movement of the Trolley
- Persons with reduced physical or mental abilities & children must not be allowed to operate the Trolley without proper supervision
- Do not allow any visitor to sit on the Trolley, as it may cause overloading. (Refer section – Operation)
- Accessories or any devices used along with the Trolley should be as per its intended use specified and approved by Midmark India Pvt. Ltd.
- Do not keep any articles below the Trolley main frame except in the storage tray wherever provided. It can cause damage to the User and Device

- Ensure that the Trolley is moved on a smooth stepless floor without any obstructions in its path, to prevent any inconvenience to the patient and damage to undercarriage of the Trolley
- Ensure that the castors with brake are always locked when the Trolley is in Stationery position
- Keep some gap between walls and Trolley while in stationary position and also while moving from one place to another
- Keep the User Manual handy with the Operator/User for ready reference
- Always place the head side of Two Section Removable Stretcher Top correctly above the Oxygen Cylinder Cage provision in order to avoid any injuries to patient during emergencies



Always use a mattress of the correct size and type with these Trolleys. Before operating the Trolley, make sure the patient is safely positioned on the mattress to avoid any inadvertent entrapment or imbalance.



Janak Healthcare Pvt. Ltd. recommends the use of original Mattresses that have been designed & tested specifically for these Trolleys. Mattress 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 & replace with suitable mattress if required.



The shape and height of Side Railings is optimized to provide patient safety from accidental roll over at the same time facilitating the User to provide easy access for emergency treatment and assistance to the patient.

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	< 2000m

Installation

- Unpack all the components carefully
- If the packing is drenched by rain, water or other liquids, inform this matter to the operator
- Installation of the Trolley should be done only by Midmark trained technicians



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



Dispose the packing material waste in accordance with the local waste disposal regulations prevailing.



Packing List for 1710 / 1710A

Each 1710 / 1710A Trolley is supplied with the following components as per packing list:

Rubber Buffer	- 4 Nos.
Oxygen Cylinder Cage	- 1 No.
Telescopic Saline Rod	- 1 No.
Stretcher Top	- 1 No.
T-Paddle	- 1 No.

Packing List for 1707B

Each 1707B Trolley is supplied with the following components as per packing list:

Rubber Buffer	- 4 Nos.
Telescopic Saline Rod	- 1 No.
Stretcher Top	- 1 No.
Removable Handle	- 1 No.
Hardware	- 1 Packet

Packing List for 1702, 1702A, 1703, 1704, 1712, 1735 and 1736

Each 1702, 1702A, 1703, 1704, 1712 Trolley is supplied with the following components as per packing list:

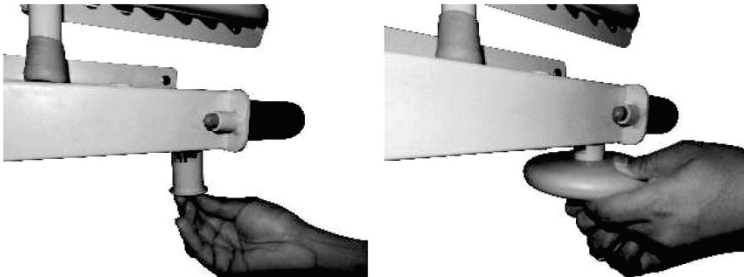
Tubular Main Frame	- 2 Nos.
Transverse Tubes	- 4 Nos.
Stretcher Top	- 1 No.
Oxygen Cylinder Cage (1702/1702A)	- 1 No.
Storage Tray (1702/1702A)	- 1 No.
I.V. Rod (1702/1702A/1704)	- 1 No.
Heavy Duty IV Rod (1735, 1736)	- 1 No.
Hardware	- 1 Packet

Packing List for 1711

Each 1711 Trolley is supplied with the following components as per packing list :

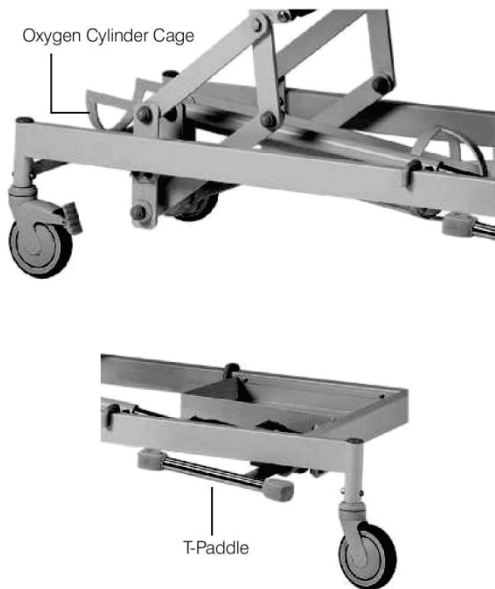
Tubular Main Frame (Sky Blue)	- 2 Nos.
Transverse Tubes (Sky Blue)	- 4 Nos.
Tubular Main Frame (Broken White)	- 2 Nos.
Transverse Tubes (Broken White)	- 4 Nos.
Interlocking Side Bracket (Broken White)	- 1 No.
Tilttable Stretcher with Rollers	- 1 No.
Oxygen Cylinder Cage	- 1 No.
I. V. Rod	- 1 No.
Hardware	- 1 Packet

Buffers (1710, 1710A, 1707B, 1735 and 1736)



- 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

Oxygen Cylinder Cage (1710, 1710A & 1736)



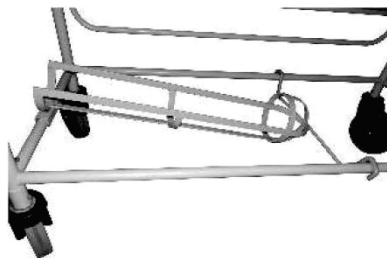
- Remove the Screw fitted on the Pump, insert the Paddle on the Pump & align the hole. Fix the Paddle with the Screw

Installation of Undercarriage (1702, 1702A, 1703, 1704, 1712, 1735 & 1736)



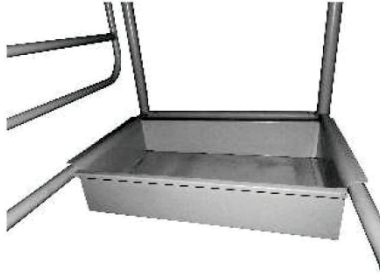
- Place the rectangular tubular frame (1) on the ground
- Fit the 4 nos. Transverse tubes (2) to the four nos. welded sleeves provided on the rectangular tubular frame (1) with bolts and nuts provided
- Fit the 2nd rectangular tubular frame to the four ends of Transverse tubes to complete the structure
- Upright the assembled frame structure on its castors
- Place the stretcher on the assembled frame structure
- For 1702 having tiltable top, the rectangular tubular frame has provision for bolting the stretcher top to the frame at one end, and ratchet mechanism for locking the stretcher top in tilting position at the other end

Oxygen Cylinder Cage (Optional in 1703, 1704, 1735, 1736)



- Place the cylinder cage on the base of the tubular frame as shown in the image above

Storage Tray (Optional for 1703, 1704, 1712 and 1736)



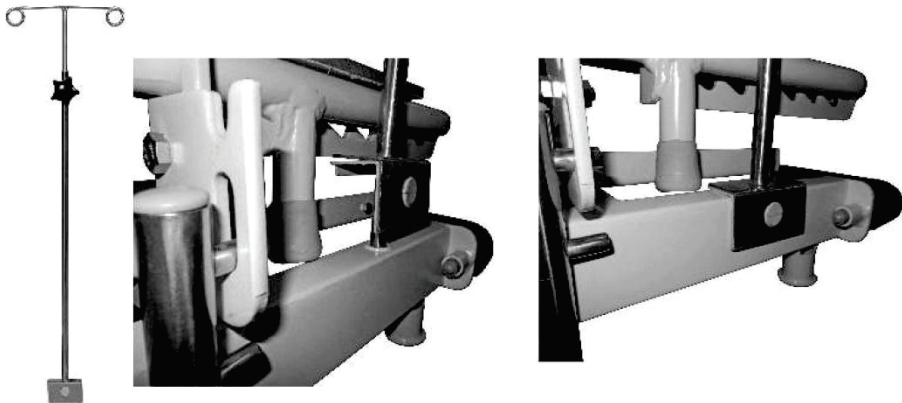
- Place the storage tray on the base of the tubular frame as shown in the image above

I.V. Rod (1702, 1702A and optional in 1703, 1704, 1712)



- Insert the I.V. Rod in any one of the two provisions given on sides of the tubular frame, and tighten with the knob

Telescopic I.V. Rod (1710, 1710A & 1707B)

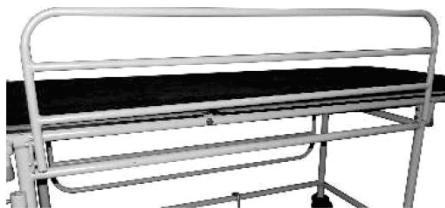


- Insert the Telescopic I.V. Pole in any one of the four provisions on the top frame



The I.V. Rod has a safe working load of 5 kgs. Do not exceed the load capacity of the I.V. Rod. If I.V. Rod is over loaded, personal injury or equipment damage may occur.

Safety Side Railing (1702, 1702A and optional in 1703, 1704, 1735, 1736)



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

Rexine Covered Mattress (Optional & Product Specific)



- Rexine covered mattress of 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

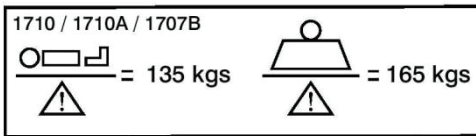
1711 Transfer Trolley Installation



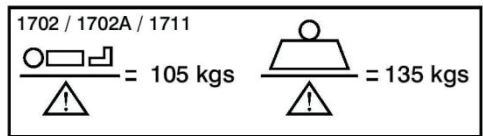
- Place the rectangular tubular Main frame Sky Blue (1) on the ground
- Fit the 4 nos. Transverse tubes Sky Blue (2) to the four nos. welded sleeves provided on the rectangular tubular Main frame Sky Blue (1) with bolts and nuts provided
- Fit the 2nd rectangular tubular Main frame Sky Blue to the four ends of Transverse tubes Sky Blue to complete the structure
- Upright the assembled Sky Blue Trolley on its castors

- Repeat the above steps for the assembly of Broken White Trolley on its castors
- Fit the interlocking side bracket in the Broken White Trolley at the location shown
- To interlock both the Sky Blue and Broken White Trolleys, align the Sliding Rail ends of both Trolleys in position and clamp the interlocking side bracket in place
- Place the stretcher on the Sliding Rails of the assembled trolleys, and check for smooth movement of stretcher from one trolley to the other
- Ensure that the Sliding Rail stoppers at extreme ends of both the Trolleys are in upright position to act as stoppers for the stretcher
- Place the Oxygen Cylinder Cage in the Broken White Trolley undercarriage as shown in the figure
- Fix the I.V. Rod in the provision made in the Broken White Trolley as shown in the figure

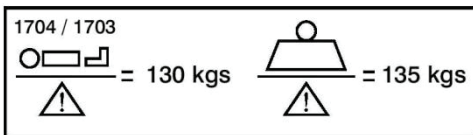
Load Bearing Capacity of Trolleys



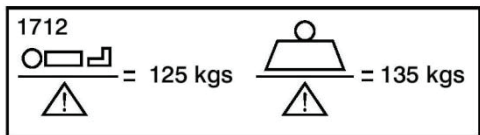
1710 / 1710A / 1707B



1702 / 1702A / 1711



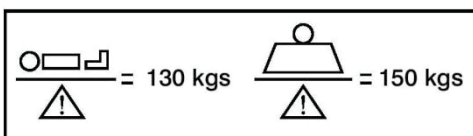
1704 / 1703



1712



Do not load the Trolley more than the Safe Working Loads as mentioned above



1735 / 1736

Adjusting the Backrest Section (1710, 1710A, 1707B, 1702A & 1736):



- Backrest section is adjustable on ratchet system. 5 different positions can be achieved by adjusting backrest rod to suitable slot



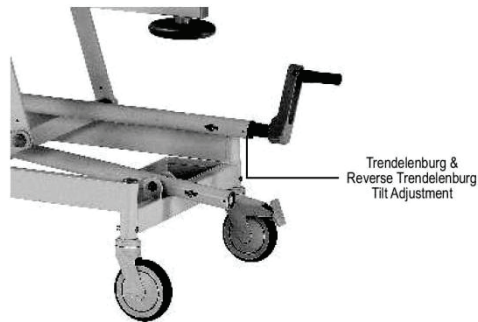
Person operating the Trolley should take care to avoid entrapment of fingers / hand in between Stretcher Top and Main Frame / I.V. Rod

Trendelenburg or Reverse Trendelenburg Tilt Adjustment: 1710 & 1710A



- Pull the gas spring activating handle towards the rubberized handle and raise or lower the top frame. Release the gas spring activating handle when desired position is achieved

Trendelenburg or Reverse Trendelenburg Tilt Adjustment: 1707B

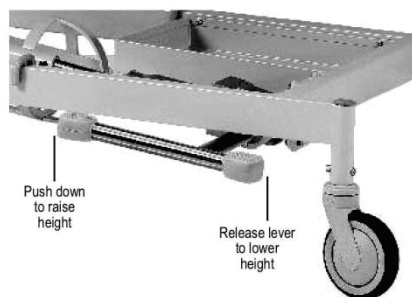


- Turn handle in anti-clockwise direction for Trendelenburg position and in clockwise direction for reverse Trendelenburg position



The degree of Trendelenburg and Reverse Trendelenburg Tilt provided in various Trolleys is optimized based on various factors in manufacturing and usage

Adjusting the Height: 1710 & 1710A



- The height can be lowered & raised as desired with the help of pedal fixed on the hydraulic pump. Pump the pedal to raise the height and press release lever to lower the height
- Pump the pedal and press the release lever gently. Do not step on it with force



Do not open or tamper the hydraulic pump. Functioning can get affected and dust particles can damage its valve

Adjusting the Height: 1707B



- Turn handle in anti-clockwise direction to raise the height and in clockwise direction to lower the height

Provision of X-Ray Cassette (1710, 1710A, 1736 and optional in 1707B)

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

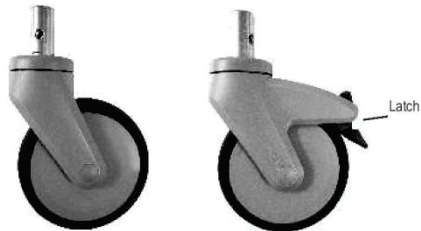
Removable Stretcher (1710, 1710A, 1707B, 1703, 1704, 1702A, 1735 & 1736)



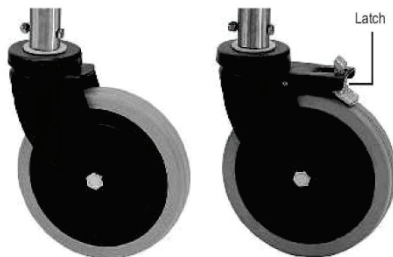
- The stretcher is removable from the trolley by lifting it from both ends

Castors & Braking Mechanism

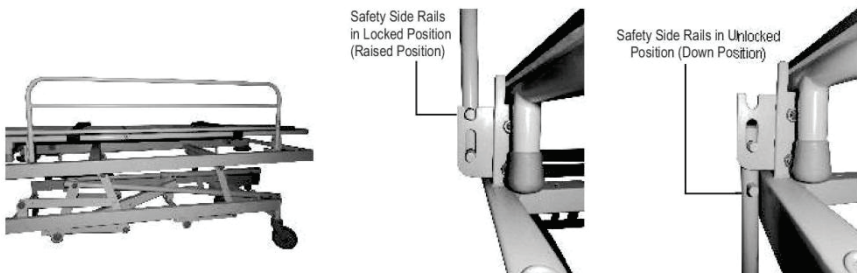
- 1710 and 1707B trolleys is equipped with four 125 mm High Grade Synthetic Castors; two diagonally opposite castors are with brakes. To lock the Castors press the latch, and to unlock release the latch



- 1702, 1702A, 1703, 1704, 1711, 1712, 1735 and 1736 is equipped with four 200 mm Swivel Castors; two diagonally opposite Castors are with brakes. To lock the Castors press the latch, and to unlock release the latch



Safety Side Rails (Product Specific)



Swing away Type S.S. Railing - 1735 & 1736



- Swing away type safety side rails are provided for 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 side railings lift the railing to unlock and gently place it down



The shape and height of Side Railings is optimized to provide patient safety from accidental roll over at the same time facilitating the User to provide easy access for emergency treatment and assistance to the patient.



Please take care of finger and hand entrapment while operating the Safety Side Railings.



Do not use the Safety Side Railing 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 cognitive disability or have uncontrolled body movement as well as patients who lack the physical strength to extract themselves if they get entrapped.



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

OPERATION of 1711

- The Broken White Trolley is used to transport the Patient from Ward or ICU to the Operation Theatre
- The Sky Blue Trolley is normally kept inside the Operation Theatre and used for transferring the patient in and out of operation theatre
- To transfer the patient in and out of operation theatre, first align the Sliding Rail ends of both Trolleys in position and secure both the Trolleys with the interlocking side bracket
- Slide the Stretcher with patient from one Trolley to the other
- Once the transfer is complete, unlock both the Trolleys
- Depending on the patient requirement, the Stretcher can be raised at one end on Ratchet as shown



Be careful of the hand / fingers getting pinched in between the ratchet and the top frame.



Ensure the patient is secured to the stretcher top with the safety belt provided.

Operation of 1712



- The Stretcher Top is foldable at both ends on Ratchet mechanism
- The Backrest Section can be adjusted at different angles as per patient requirement by locking the same in place in suitable slots provided in the Backrest Ratchet mechanism
- The Legrest Section can also be adjusted at different angles as per patient requirement by locking the same in place in suitable slots provided in the Legrest Ratchet mechanism

MAINTENANCE & CLEANING

Maintenance

Each time before putting the Bed 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 play, sound and wear & tear of the Trolley
- 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 Trolley is not in use, it should be stored in a dry and rodent free indoor environment on a flat surface with gradient not more than 5 degrees
- If the Trolley is not in use for long term, it is necessary to conduct a test to check for functioning and any mechanical damage that may have been occurred
- 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 Trolley is not suitable for machine wash or steam cleaning
- Do not use water jet for cleaning
- The Trolley 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 Trolley should be properly cleaned and disinfected to avoid infection and stains before the next use
- Immobilize the Trolley & remove all the detachable accessories and components before cleaning. Any prolonged contact of urine or acid on mild steel can 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 water. We recommend use of approved disinfectant and cleaning agents to clean the Trolley
- Start by cleaning the upper sections of the Trolley & 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 Trolley to excessive moisture as corrosion may cause personal injury or equipment damage.

Disposal:



Product and its defective parts especially elements made of plastic, steel and rubber material should be disposed off in accordance with the statutory rules and regulations prevailing for such disposal. The user is advised to contact Midmark India 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 one month)

Checks	Observation	OK	Not OK	Description of faults
Visual check of the mechanical components				
Main Frame	Damage, Deformation			
Screws and Rivets are tightened	Missing / Loose			
Performance check of mechanical components				
Side Railing (Product Specific)	Secure Engagement, Release			
Castors	Locking, Release. Remove Cotton Thread, Hairs etc. from Axle			
Height (Product Specific)	Test as per instruction for operation			
Tilt (Product Specific)	Test as per instruction for operation			
Backrest (Product Specific)	Test as per instruction for operation			
Rexine Covered Mattress (Product Specific)	Tear, Puncture, Soiled, Torn			
Sign	Result of Inspection		Date	



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Troubleshooting Guide

Problem	Possible Causes	Remedy
Height function not working (product specific)	<ul style="list-style-type: none">Hydraulic pump failure (1710, 1710A)Foot pedal loose, damaged (1710, 1710A)Screw mechanism is jam, very tight to rotate (1707B)Screw mechanism is bent or broken (1707B)	<ul style="list-style-type: none">Replace hydraulic pumpTighten the foot pedal or replaceCheck and do little oiling & greasingReplace the Screw mechanism
Tilt function not working (product specific)	<ul style="list-style-type: none">Gas Spring operating lever tight or out of alignmentGas Spring Fail (1710, 1710A)	<ul style="list-style-type: none">Adjust the leverReplace Gas Spring
Castors	<ul style="list-style-type: none">Cracked or broken	<ul style="list-style-type: none">Replace or repair the Castor



WARRANTY & SERVICE

Midmark India Pvt. Ltd., warrants, solely to the end users of this product that for a period specified in the warranty certificate, such product 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 replacement 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.

Corporate Office:

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