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Bx4000 – Basic Fowler Bed

User's Manual

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INTRODUCTION

About this User Manual

This User Manual contains instructions for the proper and safe use of Bx4000 Basic Fowler Bed, 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 this Bed. In case of any query, kindly contact Midmark India Pvt. Ltd.

ABOUT THIS PRODUCT

- These Basic Fowler Beds comes with 4 sections, and has backrest and upper leg (knee rest) that can be raised/lowered manually by the Medical/Paramedical/hospital authorities for the comfort of the Patient.
- These Basic Fowler Beds are non-invasive medical devices used for resting and treatment of the patients by medical/paramedical/hospital personnel to help and support the patient in diagnosis, prevention, monitoring, treatment or alleviation of the disease.
- These Basic Fowler Beds are manufactured and supplied in non-sterile condition for use in normal hospital environment.
- These Basic Fowler Beds are not diagnostic, measuring, monitoring or a therapeutic device or we say that it can prevent or alleviate disease
- These Basic Fowler Beds are used in general wards of hospitals and nursing homes.

Bx4000 Basic Fowler Bed Features



Please refer Bx4000 catalogue for salient features of this product.

Technical Data

Please refer Bx4000 catalogue for Technical Data of this product.

Optional Accessories

Please refer Bx4000 catalogue for various accessories available and compatible with this product.

Bx4000 Basic Fowler Bed Variants

Bx4000 - 2090 mm x 920 mm x 600 mm (L x W x H)

Bx4000S - 1850 mm x 850 mm x 600 mm (L x W x H)

(Design and features of variants in this series & its optional accessories remain same, except their dimensions)

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 Bed

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 Bed 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 Bed.

Patient

The patient is a person who is ill, infirm, disabled or in need of care & occupying this Bed. Each time the Bed is allotted to a new patient it is recommended that the patient is instructed by the operator or the user about the functions important for his/her comfort and safety.

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 Bed.
- Ensure that the Bed 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 Bed.
- Persons with reduced physical or mental abilities & children must not be allowed to use & handle the Bed without proper supervision.
- Do not allow any visitor to sit on the Bed, as it may cause overloading. (Refer section – Operation)
- Accessories or any devices used along with the Bed should be as per its intended use specified and approved by Midmark.
- The Bed should always be kept and used in normal indoor hospital environment.
- Keep some gap between walls and Bed 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 use a mattress of the correct size and type. Before operating the Bed, make sure that the patient is safely positioned to avoid entrapment or imbalance.



Use of water mattress is prohibited.

ENVIRONMENTAL SPECIFICATIONS

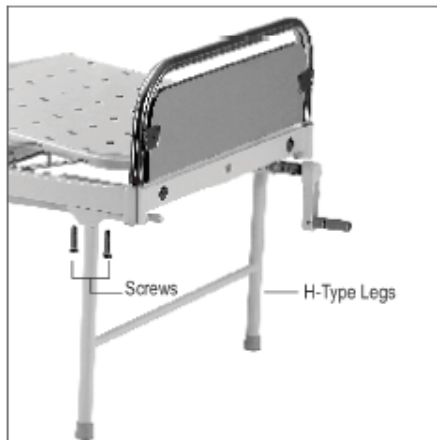
Usage, Storage and Transport

Temperature	-10°C to 50°C
Relative Humidity	0% to 95% non condensing
Atmospheric Pressure	800 to 1060 hPa
Altitude	< 2000m

INSTALLATION

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 Basic Fowler Bed is supplied with the following components as per packing list :

Bed frame with Screw Mechanism	- 1 No.
Legs H-Type	- 2 Nos.
Head and Foot Board – Product Specific	- 2 Nos.
Removable Handle	- 1 Set
Miscellaneous Items	- 1 Packet
4. Notify if any damage has occurred during transportation either to the authorized agent or directly to Midmark India Pvt. Ltd.
5. Fit the H-Type Leg to the main frame as shown in the figure



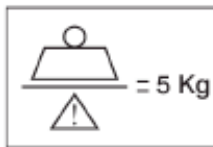
Installation of the Basic Fowler Bed should be done only by Midmark India Pvt. Ltd., trained technicians.



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

OPTIONAL ACCESSORIES

I.V. Pole:



I.V. Poles are used to hang I.V. bags for infusion of liquid substances directly into a vein. The I.V. pole is removable, telescopic pole that can be installed in any of the sockets located at four locations provided on the main frame of the bed. The I.V. pole has a safe working load of 5 kgs.



Do not exceed the load capacity of the I.V. pole. If I.V. pole is over loaded, personal injury or equipment damage may occur.

Mattress



Midmark India Pvt. Ltd., recommends the use of 'Midmark' make Mattresses that have been designed & tested specifically for the Bx4000 Basic Fowler Bed.



Ensure Mattress of correct size and firmness, to eliminate gaps causing entrapment risk, prevent accidental roll-over events in case of low height of railing, and safe patient transfers in & out of the bed



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



Patients should not be allowed to smoke in bed as it may cause fire hazard and personal injury or equipment damage could occur. Mattress, sheets & pillows generally do not have flame retardant properties.

Urine Bag Holder



Urine bag holder is used to hang the urine bag. The urine bag can be placed on the hooks provided on the urine bag holder.

S.S Lifting Rod



The lifting rod is used by the patients who have difficulty in getting up from the bed on their own.

Orthopaedic Traction Pulley



The orthopaedic traction pulley is used in orthopaedic treatment for physical therapy.

Castors with Rubber buffer



The Basic Fowler Bed comes with the option of 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.



We recommend rubber buffers on all four corners when castors are used.



The castors are intended for indoor use only. Outdoor use may cause temporary or permanent damage to the wheels. The bed is designed to transport on smooth step less floor through 1000mm wide door way.



To prepare the bed for transport (without patient) –

- All fixed equipments and accessories should be secured properly to the bed before transportation.
- All detachable accessories should be safely removed from the bed before transportation.
- The safety side rails should be in lowered position.
- Unlock the brakes on the castors before moving the bed.
- If the bed is not equipped with the castors, it should be lifted from its main frame & transported from one place to another

Head & Foot Boards (Removable Type):



(0181-Conventional Bow)

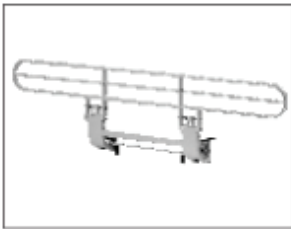


(0182-S.S. Laminated Bow)

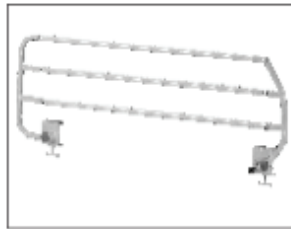


(0183-Polymer Moulded Bow)

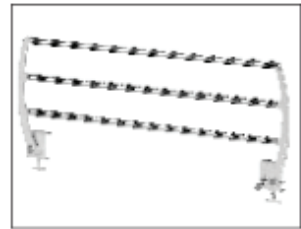
Safety Side Rail Options (0354, 0356A, 0358)



(0354-Swing Down Type)



(0356A-Collapsible Type)



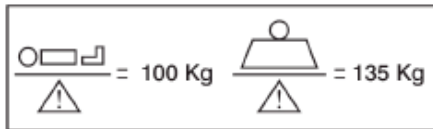
(0358-Collapsible
Type with S.S. Tubes)



Use the Bed accessories in accordance with the manufacturer's instructions for patient safety and comfort. Use recommended spares and accessories of suitable design manufactured by "Midmark India Pvt. Ltd." to eliminate hazards.

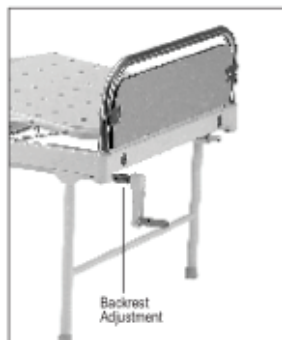
OPERATION

- Before putting the Basic Fowler Bed into use for the first time ensure that all the transport securing devices and packing film are removed.
- Clean and disinfect the Basic Fowler Bed prior to the first time use.
- The Basic Fowler Bed should be used on a flat floor.
- The force required to move the Basic Fowler Bed from one place to another with/without patient, may vary depending on the flooring conditions.
- Check if all the operations are functioning properly.
- This Basic Fowler Bed should be operated only by an authorized and trained person who has knowledge of its operation.



Do not load the Bed more than the Safe Working Load as mentioned above.

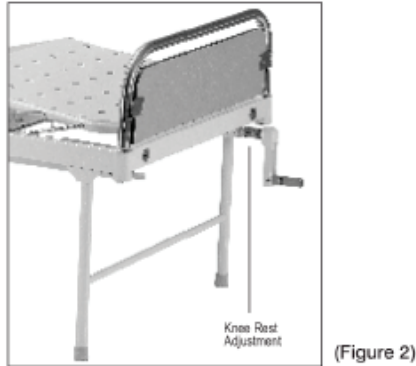
Back Rest



(Figure 1)

For adjusting the Backrest Section, first insert the handle on the screw head below the frame on the leg end of the Basic Fowler Bed then rotate the handle anticlockwise direction to raise or clockwise direction to lower the Backrest Section (See Figure 1).

Kneerest



For adjusting the Kneerest section, first insert the handle on the screw head below the frame on the leg end of the bed then rotate the handle anticlockwise direction to raise or clockwise direction to lower the Kneerest Section (See Figure 2).



Do not turn the handle beyond its limits in any direction as it may cause damage to the mechanism. Always remove the handle when not in use or while transporting the bed. It may hurt people passing by or the handle can also be damaged.

Head & Foot Boards (Removable Type):

Head Boards:



(0181-Conventional Bow)



(0182-S.S. Laminated Bow)



(0183-Polymer Moulded Bow)

- The Head Board is located at the head end of the bed frame.
- The Head Board can be removed or attached in a single step by extending equal force with both the hands in the bracket by ensuring the proper matching of the brackets with board holder fitted on the main frame.
- The Head Board can be removed for the ease of access to the patient from head side.

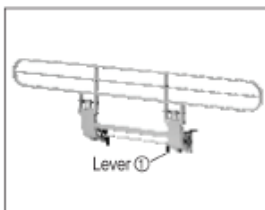
Foot Boards:

- The Foot Board is located at the foot end of the bed frame.
- The Foot Board protects the patients during transport and room docking.
- The Foot Board can be removed or attached in a single step by extending the equal force with both the hands in the bracket by ensuring the proper matching of the brackets with board holder fitted on the main frame.

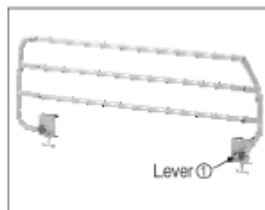


- Do not hang any heavy items on the Head & Foot Boards.
- To facilitate easy movement of Over Bed Table over the bed,
 - The conventional and S.S. Laminated Bows at foot end are designed with low height.
 - The Polymer Moulded Bow at foot end has to be removed.

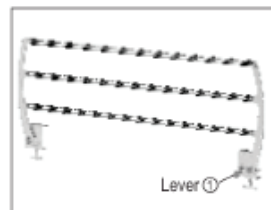
Safety Side Rails (0354, 0356A, 0358)



(0354-Swing Down Type)



(0356A-Collapsible Type)



(0358-Collapsible Type with S.S. Tubes)

0354 - Swing Down Type Safety Side Rails

1. To lock the Railing, pull the Railing upwards by extending equal force with both the hands. On pulling the Railing completely upwards the Lever (1) will lock the Railing.
2. To unlock the Railing, pull the Lever (1) with one hand & hold the Railing with the other hand. On releasing the Lever, place the Railing downward.

0356A – Collapsible Type Safety Side Rails (M.S. Powder Coated)

1. To lock the Railing, pull up the Railing with the hand till the Plunger lock (1) will place on the locking slot.
2. To unlock the Railing, pull out the Plunger lock (1) with one hand & hold the Railing with the other hand. Place the Railing downward completely till it rests on the bed.

0358 – Collapsible Type Safety Side Rails (with S.S. Tubes)

1. To lock the Railing, pull up the Railing with the hand till the Plunger lock (1) will place on the locking slot.
2. To unlock the Railing, pull out the Plunger lock (1) with one hand & hold the Railing with the other hand. Place the Railing downward completely till it rests on the bed.



- Safety Side Rails should be fitted and properly secured by a trained technician.
- Always use the Safety Side Rails with the mattress of the correct size, which is approved for use with this bed for the safety of the patient.
- While operating the Safety Side Railing, ensure that there is no hindrance in the path of the railing.
- Do not use the Safety Side Rails to move or lift the bed.



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.

Users should carefully evaluate the need for Safety Side Rails and periodically check patients in accordance with facility protocols for safe positioning.



If these safety measures are not observed, injuries can be caused to hands, knees, fingers, feet, legs or other body parts of patient due to unintended and unintentional entrapment. In children or weak patients who are less than 146 cms tall, non observance of these guidelines may even lead to death.



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.

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 Bed 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 Bed.
- 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 Bed 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 Bed 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 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 Bed is not suitable for machine wash or steam cleaning.
- Do not use water jet for cleaning.
- The Bed 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 Bed should be properly cleaned and disinfected to avoid infection and stains before allotment to a new patient.
- Immobilize the Bed & 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 Bed. E.g. Bacilloid or other similar agents.
- Start by cleaning the upper sections of the Bed & work along all horizontal surfaces. Work methodically towards the lower sections of the Bed. 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 Bed 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.

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 components				
Main Frame	Damage, deformation			
Mattress	Damage			
Screws and Rivets	Loosened, missing			
Head & Footboards (Product Specific)	Secure retention			
Rubber Shoes	Damage, deformation			
Performance check of components				
Legs	Secure retention			
Screw Mechanism	Smooth movement			
Leg Rest	Engagement			
Removable Handle	Damage, deformation			
Castors (Optional)	Locking, release (mobilization)			
IV Rod with Clamp (Optional)	Damage, bent			
Safety Side Railings (Product Specific)	Engagement, release, secure fastening			
Accessories	Fastening, damage, missing			
Sign	Result of inspection		Date	

Troubleshooting Guide

Problem	Possible Causes	Remedy
Screw Mechanism not working	<ul style="list-style-type: none"> • Mechanism is jam, very tight to rotate • Mechanism is bent or broken 	<ul style="list-style-type: none"> • Check & do little oiling or greasing • Replace the screw mechanism
Castors not working	<ul style="list-style-type: none"> • Castors are damaged • Castors are not locking 	<ul style="list-style-type: none"> • Replace the Castors • Check the Locking lever for any damage & replace 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 replacements parts may be used. For ordering replacement parts, customer service request and further question, please contact our technical support department.

MANUFACTURER'S ADDRESS

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