



Bradshaw Junior™ Bed

Item # BSBOAK-STD-FULL
(includes BSBOAK-STD, BSBOAK-RAILS
and BSB-JUNIOR-MAT)

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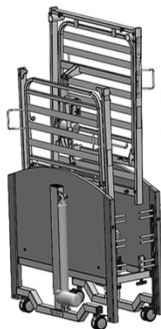
WARNING!

Read ALL instructions before using this product

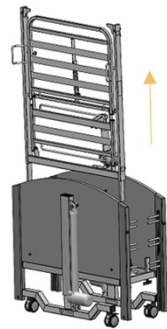
1. Apply brakes



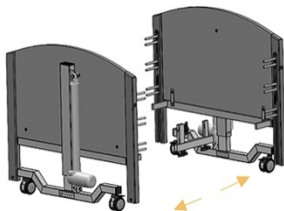
2. Loosen grub screw with Allen Key and thumb screw that face each other between the two frame sections. Repeat on other side.



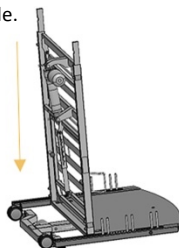
3. Lift and remove head section from transport stand.



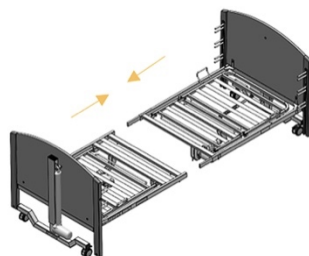
4. Lift and remove foot section from transport stand.



5. Carefully loosen the four (4) thumb screws on the transport stand. Remove transport stand and pull bed ends apart.

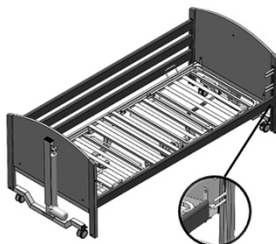


6. Lower head and foot bed ends and lay flat on the floor. Attach head platform section to head end and foot platform section to foot end with the eight (8) longer grub screws on all sides.

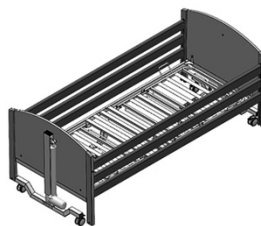


7. Push both sections together and secure the connection with the grub screws tightly. Grub screws are in the middle underneath the frame. Ensure sections ends are fully pushed up against bed end corner posts. **Note:** You may need to lift middle of the platform section in order to get the two pieces flush and tight.

8. Lift up head platform section, remove caps from electric control box then connect all cables (Section 6.3).



9. To install side rails, follow finger kit directions for installation in section 6.4.



10. Fit side rails to finger set.

11. Fully raise side rails and check again if ends are still fully pushed up against platform

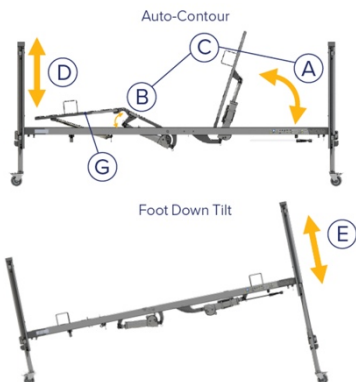
*For lockbox fitting Instructions see section 15.2

Operation

- | | |
|---|---|
| A- Backrest Position (Up/Down) | D- Raise/Lower Bed |
| B- Kneebreak section Position (Up/Down) | E- Foot Down Tilt/Reverse Trendelenburg |
| C- Auto Contour (backrest and kneebreak together) | |



The Bradshaw Junior bed is intended to be used with patients up to 363 lb (165kg) and of height in the range of 49-65 in (125-165 cm). The Bradshaw Junior bed requires a power supply of 100-240V at 50/60Hz, with no more than 2A. Ensure labels on the bed are checked when routing cables from actuators to the control box to ensure functionality of the bed is as intended.



Information for Regular Use:

Brake System:

The bed has four castors with brakes. To apply the brakes - Press the brake pedal down.
To release the brakes - Lift the brake pedal up.

Side Rails:

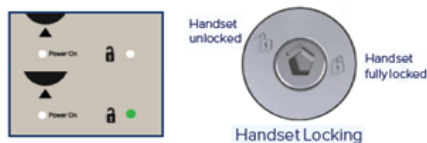
When lowering the safety side rails, they must first be lifted to release the catch to allow them to slide down the channels. Always lower them gently to the bottom stop.

Leg Stay Function (G):

The calf section of the bed can be raised to enable the users calf to remain elevated. Once the knee break has been set at the desired angle, the leg stay angle can be set by lifting and releasing this section manually on the ratchet. To release, raise the leg section to the highest height and then lower.

The handset is supplied with a lockout function which disables bed functions if they are deemed unsuitable for the occupant.

To lock/unlock a function, turn the handset over and insert the handset key provided into the recess. Turn to the required position (clockwise to lock, counter-clockwise to unlock). As the key is rotated the light will illuminate green to show the handset is unlocked. In addition, a Lockbox (see section 15.2) can be used to securely store the handset key, providing an extra layer of security. The Lockbox ensures that the handset is not easily accessible by unauthorized individuals, adding further protection to the lockout functionality.



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1. INTRODUCTION

Thank you for your trust and purchase of our product. The user should carefully read this instruction manual before using the bed. Please ensure that you understand all instructions. In case of any doubts concerning the installation, use or maintenance of the bed, please contact the seller or the manufacturer.

1.1. PRODUCT DESCRIPTION

This manual covers the Bradshaw Junior Bed, featuring a 4-section mattress platform with metal slats, an electrically operated backrest and knee-break, and mechanically adjustable lower leg section. Two bed ends support the mattress platform, electrical system, and full-length wooden side rails for patient safety.

The bed has a safe working load of 440 lb (200 kg) and is equipped with four lockable wheels for maneuvering. While it can be disassembled into four separate parts for transport and storage using the provided transport stand, the bed is not intended for patient transport.

1.2. FEATURES

- 4-section adjustable mattress platform (head, foot, backrest, and knee-break)
- Electrically operated backrest and thigh section
- Mechanically adjustable lower leg section
- Auto contour – simultaneous adjustment of backrest and knee-break sections
- Height-adjustable bed with reverse Trendelenburg tilt
- Lockable handset (remote control)
- Disassembles into four separate parts for transport and/or storage using the transport stand
- Full-length wooden 3-bar side rails
- Transport stand for convenient storage and mobility
- IPX4-rated electrical system (splash resistant)

1.3. USE

The Bradshaw Junior bed is designed to provide users with independence and freedom of movement while supporting the carer in manual handling tasks. It operates via a nine-button handset.

1.4. ENVIRONMENT OF USE

The Bradshaw Junior bed is intended for use within domestic and long-term care environments (e.g. care homes, rehabilitations homes). The bed largely relieves the care person owing to a fully electrically contoured mattress platform, allowing for the needs of the patient.

1.5. INTENDED PATIENT GROUP

The Bradshaw Junior bed is designed for users with a height from 49 inches (125 cm) to 64.9 inches (165 cm) and a maximum weight of 363 lb (165 kg). The lower (or upper) age limit is not defined. The usability of the bed depends on the physical size of the patient in relation to the various proportions and spaces around the bed's frame.

The bed is intended for one person only!



- **The Bradshaw Junior bed may not be suitable for patients who fall outside the specified patient parameters, as its proportions could pose an entrapment risk. A risk assessment should be conducted for each individual patient to determine the bed's suitability.**
- **If you are unsure whether the bed is appropriate for use, please consult a healthcare professional, your equipment provider, or Drive DeVilbiss Healthcare Ltd.**

1.6. INTENDED USE

The bed is designed to support the patient's weight (as described above) while sleeping or resting. It assists in the care and/or ensures comfort for the patient or caregiver.

1.7. CONTRAINDICATIONS

It is the carer's responsibility to determine that the patient is both mentally and physically capable of occupying the bed with minimal risk of personal injury.

The contraindications for using the Bradshaw Junior bed include:

- Cervical or skeletal traction
- Unstable spine fractures (if bed functions are unlocked)
- General skeleton fractures (if bed functions are unlocked)
- Patients who lack capacity
- Confusion, agitation or unstable emotional state of the patient – if side rails are installed and / or they are in the highest position
- Exceeding the maximum patient's weight
- Inadequate height of the patient - below 49.2 in (125 cm) or above 64.9 in (165 cm).

Consider the presence of other contraindications that are specific for the patient of the care environment.

2. GENERAL WARNINGS



Warnings in this instruction manual are potential hazards that if neglected, can lead to injury or death.



Cautions in this instruction manual are potential hazards that if neglected, can lead to damage of the device.

2.1. GENERAL WARNINGS



Read the Manual:

- Carefully review the instruction manual before use or installation. The user must adhere to the provided guidelines.

Installation and Use:

- Ensure proper installation and usage as per the instructions, maintaining compliance with the intended purpose.
- Height and Weight Limits: The bed is unsuitable for users below 49.2 inches (125 cm) or above 64.9 inches (165 cm) in height, or exceeding 363 pounds (165 kg). Contact the distributor or manufacturer for clarification if needed.

Equipment Precautions:

- Use only original spare parts and compatible accessories.
- Avoid using additional mechanical or electrical devices not intended for the bed.
- Misused electrical equipment may pose risks such as electrocution or fire.

Cable Safety:

- Secure all cables to dedicated brackets, ensuring they do not fray or touch the floor.
- Plug the main cable directly into an appropriate power source. If using an extension cable, ensure it is CE marked and does not exceed the maximum rating.
- Never kink or shear cables, as exposed wires can be hazardous.

Liquid Hazards:

- Avoid placing sockets under the bed frame; liquid seepage into sockets can pose electrical/fire risks.

Pre-Use Checks:

- Verify all screws are intact, and lock the wheels before use.

- Ensure the bed is on a flat, horizontal surface with all castors touching the ground.

Safety Settings:

- When unattended, set the bed to its lowest position to minimize fall risks.
- Lock handsets if the patient cannot safely control bed functions; use a lockbox as necessary.
- Ensure side railings are activated and securely locked when the patient is unattended.

Prohibited Actions:

- Do not sit on raised sections of the bed or lean against rails to avoid accidents.
- Never modify the bed frame without manufacturer approval.
- Avoid using damaged or worn electrical components.
- Do not use the under-bed clearance as storage space.

Handling and Maintenance:

- Only trained personnel may conduct maintenance or repair.
- Replace damaged rails or electrical components immediately.
- Actuators must operate within specified time limits (2 minutes operation, 18 minutes rest) to prevent damage.

Environmental Precautions:

- Keep the bed away from heat sources, open flames, and flammable gases.
- Ensure external equipment cables are safely routed to prevent damage.

Patient Safety:

- Do not leave patients in the reverse Trendelenburg (foot down tilt) position.
- Use proper-sized mattresses to prevent entrapment risks.
- Maintain vigilance around small children or limbs near moving parts.

Transportation:

- The bed is not designed for patient transportation but may be moved within the room under specific conditions (lowest platform position, horizontal lying patient).

RF Emissions:

- Although unlikely, interference with sensitive equipment is possible. See section 13 for details.

All the above warnings and cautions should be strictly adhered to.

3. TRANSPORT AND STORAGE

The following conditions should be followed when transporting and storing the bed:

- Store beds on transport stands on flat, level floors.
- Set bed ends to minimum height.
- Secure side rail components (excluding wooden rails) in the aluminum channel or store safely.

Environmental conditions:

	Operational Limits	Transportation/storage limits
Ambient temperature:	from +50°F to +104°F	from -4°F to +122°F
Humidity:	30% - 75%	30% - 75%
Atmospheric pressure:	from 800 to 1060 hPa	from 800 to 1060 hPa
Altitude:	≤ 2000 m	≤ 2000 m

Shelf life:

The expected maximum storage period of the bed before first use is equal to the bed's service life, provided that the above environmental conditions are met.



- The bed is not for patient transport and must not be moved out of the room with a patient in it to prevent injury.
- If moving the occupied bed within the room, conduct a risk assessment per local health and safety policies.
- When transporting the bed on its stand, perform a risk assessment to ensure staff safety, especially on inclines or uneven surfaces.
- The bed should not be transported on the transport stand in the absence of screws or unsecured sections.
- To prevent cross-contamination, wear disposable gloves when handling the bed. Dispose of gloves unless the bed and accessories are confirmed disinfected.
- Before storing, ensure the bed is cleaned and disinfected per local infection control rules or section 10 of this manual.



- Maintain recommended temperatures during use, storage, and transport to prevent electrical damage (see section 14.4). Avoid heat sources, extreme cold, and direct sunlight.
 - If stored or transported at extreme temperatures, let the bed acclimate for at least 2 hours before connecting to power.
 - Keep the bed away from humidity to prevent electrical and frame damage.
 - Prevent dust and debris buildup by cleaning regularly to ensure proper function.
 - Do not use side rails or move the bed over thresholds during transport to avoid damage.
 - Ensure no furniture or objects obstruct bed functions. Maintain adequate distance from walls and furniture to prevent damage, especially when tilting the mattress platform.
 - Remove cable ties before use to prevent frame damage.
- Follow EMC precautions as outlined in section 13.

4. SYMBOL DEFINITIONS

The following symbols are found on this bed:



Warning
Beware of potential hazard



Refer to instructions for use – Recommended
Failure to read the instructions for use could introduce a hazard



Refer to instructions for use – Mandatory
Failure to read the instructions for use could introduce a hazard



Maximum patient weight



Safe working load



W.E.E Label - Found on individual parts of electrical system
(Waste Electrical and Electronic Equipment)



Type BF Applied Part

Applied Part: The parts of the device that come into physical contact with the user/occupant in order for it to carry out its intended function

Type BF: Applied parts which are electrically isolated from earth and other parts of the medical equipment - Complying with specific requirements for protection against electric shock to IEC 60601-1.



Class II electrical device

The user/occupant is protected by at least two layers of insulation between the current carrying parts (e.g. main cable) - if damage is noticed to the control unit or main cable assembly turn off at the main supply and contact your provider immediately.



Marking of the medical device



Mattress suitability



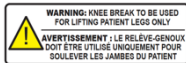
Minimum and maximum patient height



Proper patient positioning

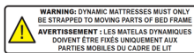


Handset



Warning – knee break intended purpose

Knee break to be used for lifting patient legs only



Warning – dynamic mattress

Dynamic mattresses must only be strapped to moving parts of bed's frame



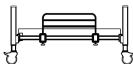
Electrical specification

Including storage and use conditions



Warning – removable side rail

Incompatible and improperly installed side rails may pose a risk of injury or death - see the instruction manual





Total product weight on the transport stand

Heavy weight of the product - be careful when transporting on the transport stand and assembly



Warning regarding the transport on the transport stand

The risk of loss of stability/overturning of the product - be careful when transporting the product on the transport stand



Manufacturer data



DOM

Date of manufacturing



LOT

Serial number



Reference number

Product code

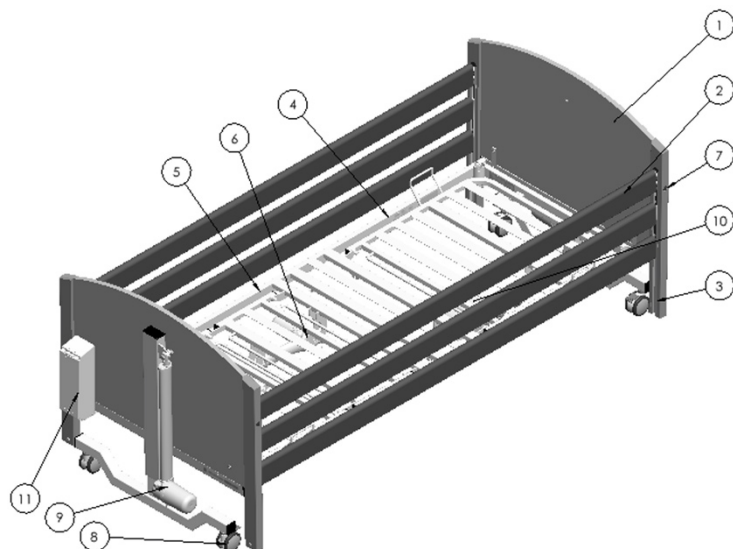


Crush Point

Beware of crush points which may cause injury.

5. PARTS

5.1. PARTS SPECIFICATION



(The figure shows the Bradshaw Junior bed with wooden side rails)

1. Head end
2. Side rail
3. Side rail channel
4. Backrest mattress platform
5. Leg section frame
6. Leg rest actuator
7. Side rail release button
8. Castor
9. High / Low actuator
10. Backrest actuator and control box – (not visible)
11. Handset lockbox



- During assembly / disassembly and regular operation, particular attention should be paid to the risk of hand injury.
- The bed cannot be used in case a screw is missing.

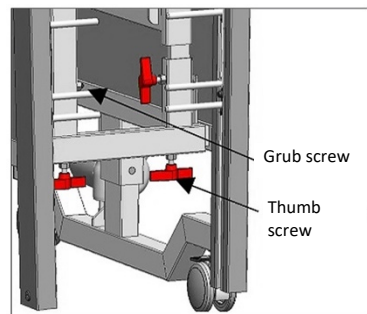
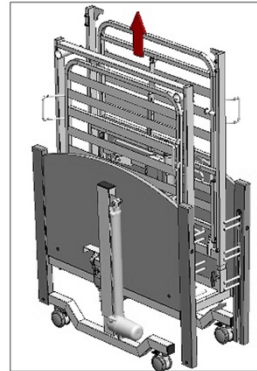
6. BED ASSEMBLY AND PREPARING FOR USE

6.1. REMOVAL FROM THE TRANSPORT STAND



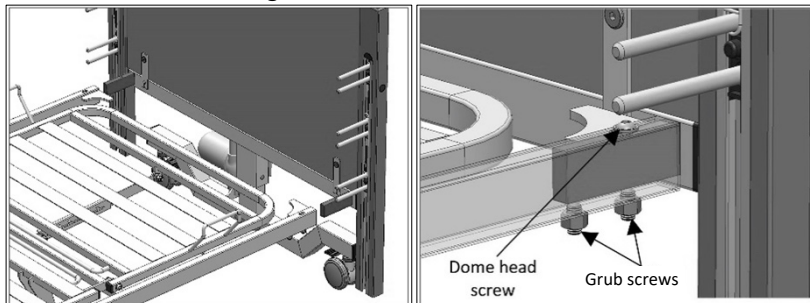
- Be careful while taking bed parts off the transport stand. The parts are heavy.
- The manufacturer recommends that the bed should be assembled by two persons.

- For assembly, clear the intended area, paying particular attention to the fact that any movement of the bed will not be obstructed.
- Apply the brakes to all 4 castors.
- Loosen thumb screws binding leg section then lower it and gently put aside on the floor.
- Loosen grub screws with Allen key (supplied) binding backrest section with the stand. Then lower it and gently put aside on the floor.
- Loosen thumb screws on transport stand. **Caution: Once the transport stand is removed, neither bed ends stay up unsupported.** Lay the bed ends on the floor gently avoiding any damage.
- Remove transport stand off the other bed end and keep it (in the case of possible disassembly of the bed).
- Now the bed is disassembled.

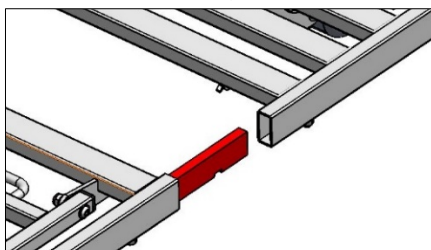


6.2. ASSEMBLING THE BED

- Fit the backrest platform end to the head bed end and secured it in place with the dome head screws and grub screws on both sides of the frame.
- Fit the legrest platform end to the foot bed end and secured it in place with the dome head screws and grub screws on both sides of the frame.



- Release brakes on two wheels for one bed end only.
- Push both the backrest and legrest frame together, and tighten all 4 grub screws at the bottom of the mattress platform.



- Ensure all (12) grub screws and (4) dome screws are tightened. **Grub screws must be tightened before dome head screws.**
- Remove all packaging, e.g. cable ties securing the platform sections.



The bed cannot be used if any of the grub screws or dome head screws are missing – this could risk the bed collapsing



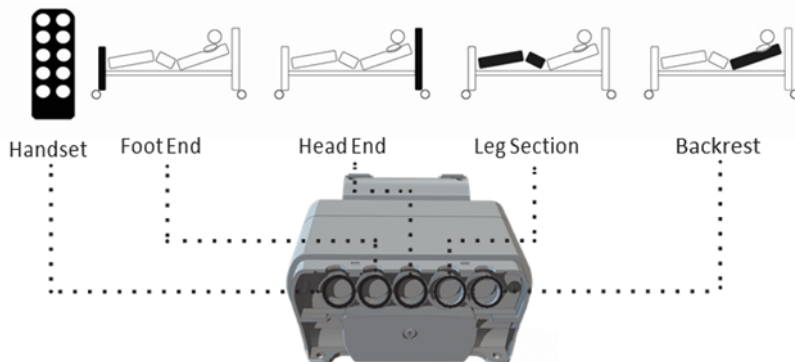
Make sure that all packaging parts that secure movable sections (such as cable ties, foils, tapes, etc.) have been removed before the bed is put into service – otherwise, there is a risk of damaging the bed's frame.

6.3. FITTING ELECTRICAL SYSTEM

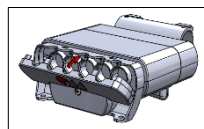
The bed is designed to be connected to a constant power supply.

- Before installation, check the condition of the power cable, handset cable, actuator cables and batteries located in the control box and make sure that they are not damaged.
- Next remove the retaining cable cover to the control box and plug the actuator and handset cables into the control box as shown in the control box label and the picture below.

Caution! The plugs only fit into the ports in one orientation. Ensure the cables are plugged fully into the control box.



- Once all the cables are connected, the retaining cable cover can be placed back on.



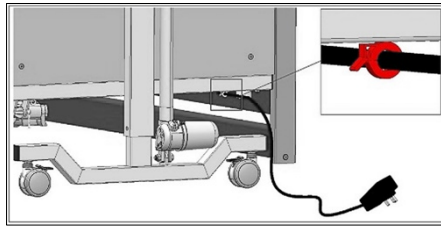
Actuator and handset cables are not shown

- The main cable exiting the control box is to be connected to the power supply plug. Take the 2 plugs and push them together, ensuring the connection is secure.



Drawing source: DewertOkin GmbH

- Secure the main cable into the cable clip on the bottom of the head bed end section. Snap and tighten the clip until you hear a click.



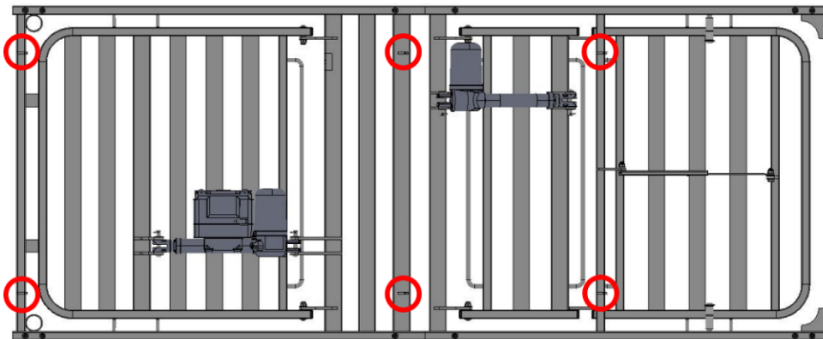
- Ensure actuator and handset cables are not caught in moving parts or under excessive tension, especially the main power and backrest control cables, to prevent damage and electrical hazards.
- Verify both high/low actuators are plugged into the correct ports; incorrect connections may affect the reverse-Trendelenburg function.



- Damage to actuators or the control box will void the warranty.
- Breaking or damaging seals of actuators or the control box will void the warranty.

6.3.1. POWER CABLE ROUTING

Bradshaw Junior bed is equipped with 6 additional cable holders that allow the power cable suspension under the surface of the mattress. The picture below shows the arrangement.





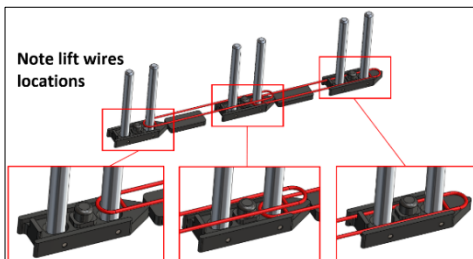
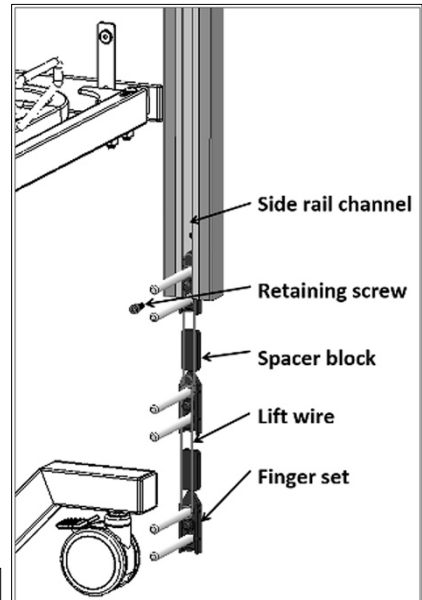
- Secure all cables on designated brackets to prevent rubbing or floor contact.
- Incorrect power cable placement can cause damage and expose live wires, posing an electric shock risk.
- Position actuator and handset cables to prevent entanglement and suffocation hazards.

6.4. FITTING THE SIDE RAILS

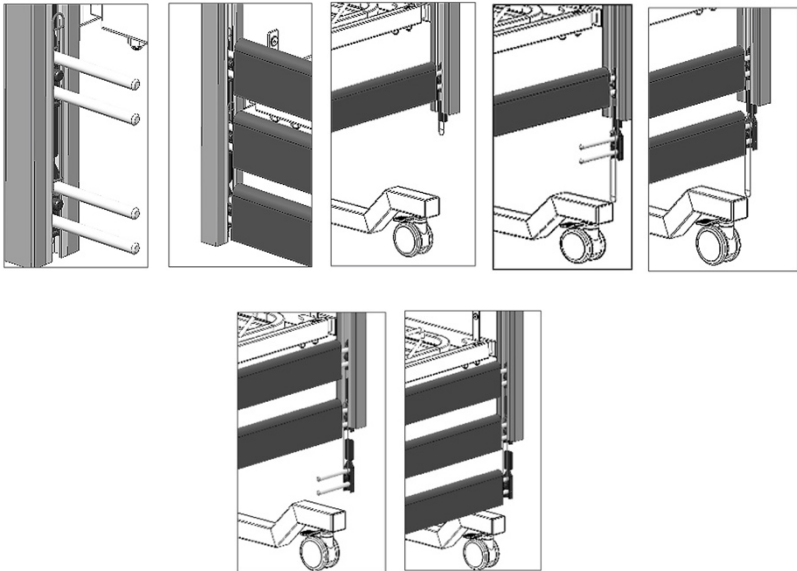
Before installation, make sure the side rails are not damaged, and all hardware are present to attach them to the bed. A lift wire, 2 finger sets, and a spacer block should be installed into all 4 side rail channels already.

- Raise the bed to highest height and lower the finger assemblies to the bottom of the channel by depressing the black release button.
- On the foot end, remove the retaining screw at the bottom of the side rail channel on one side with the Allen Key. **Do not remove head end retaining screws.**

Slide the assembly out the channel and lay on the floor.



- Take an additional lift wire (4 lift wires are included in the bag with IFU) and put it onto the middle and bottom finger sets as shown in the finger kit configuration above. Bottom lift wire must be located outside the side rail channel. Repeat for all side channels.
- Attach the three side rails (rounded face pointing upward) on one by one onto one side of the bed. First, slide the head end finger assembly up until a click is heard and it is locked into place. Depress the release button for the foot end side rail channel and slide the finger assembly to the bottom of the channel. Insert one end of the side rail into the first finger set on the head end. Then insert the other end into the first finger set on the foot end. Slide the foot end finger assembly up into lock position (until a click is heard). Grab another side rail and repeat steps again until all three side rails are assembled onto each side of the bed. It is recommended that a second person holds the rail(s) while the other person attaches them into the finger assembly.



- Re-fit the previously removed retaining screws on all four side rail channels. This ensures that the side rail finger assembly cannot fall out of the channel when in the lowered position.
- Check that the side rails function properly and smoothly. Check that the side rails easily lock into the highest position to make sure that they are mounted in the right way.



If there is any doubt about the assembly of the side rails contact the provider of the equipment, incorrectly fitted side rails can lead to death.

6.5. CHECKING THE BED

The bed is now fully assembled. Before the bed is put into use ensure the bed is correctly assembled:

- Are the grub and dome screws on all 4 corners of the bed fully tightened fully?
- Are the 2 grub screws on each side of the bed connecting the two halves fully tightened?
- Are the retaining screws for the side rails mechanisms inside the aluminium channel fully tightened?
- Has all packaging been removed, e.g. cable ties securing the platform sections?
- Are the cables free of all moving parts and is there sufficient slack in the cables to allow for movement?
- Is the bed clear of obstructions?
- Do the side rails raise/lower smoothly and lock automatically in the raised position?
- Has a risk assessment been performed on the suitability of the bed (and any ancillary equipment) for the user?

- Has the control box cable cover been attached?
- Has the main cable been attached to the securing clip on the head end of the bed?
- Has the bed (if necessary) been cleaned and disinfected before use?

In order to find details about the side rails and the mattress see section 15.1.



The bed cannot be used if any screws are missing.



Make sure that all retaining straps have been removed from any bed parts. If not, the bed can be damaged.

7. FIRST USE

Prior to using the bed for the first time the following risk assessment must be performed based on the status of the patient and their body. This assessment should include, but is not limited to:

- The possibility of patient entrapment
- Fall, strangulation and choking risks
- Product combinations (bed frame, mattress, side rails etc.)
- Handset (and its cable) placement
- The possibility of interference from children (and adults)
- Child patients
- Patient who lack capacity
- Unauthorized persons
- Housing conditions
- Use of side rails and other accessories



- Ensure no unused parts remain after assembly; store spare parts safely to prevent choking hazards.
- Block bed functions if the patient's ability to operate it safely is uncertain.
- Before each use, apply brakes on all castors.
- Do not use the bed if defects pose a safety risk.
- Assess risks if children, cognitively impaired adults, or pets may tamper with the bed.

7.1. GENERAL SAFETY

- When the bed is operated, make sure that objects such as a bedside table or other furniture are not an obstacle.
- Before operating the bed, make sure that the patient has been positioned correctly.
- When the patient is left unattended, make sure that the bed is set at the minimum height.
- Keep distance of at least 5.9 in (15 cm) from the walls.
- Make sure all cables are not under excessive tension.

- If the bed is being used in conjunction with a hoist ensure the under bed clearances are checked before lowering the bed to minimum height - Risk of frames clashing.
- Make sure to use approved mattress provided.



Placing the limbs or other objects between the moving parts of bed may cause damage or accident.



Only mattress provided is allowed. Using other types of mattresses may cause damage to the bed.

7.2. PREPARING FOR START

Prior to using the bed for the first time:

- Ensure the bed and all accessories are at room temperature.
- Ensure the bed has been cleaned and disinfected if necessary (see section 10).
- Ensure the power cable is plugged in appropriately.
- Ensure the brakes on the castors have been applied.
 - **Note:** Before locking the wheels, make sure that they are parallel to the length of the bed and inwards – they cannot pose a tripping risk.
 - **Note:** All four wheels should be locked to eliminate the accidental movement of the bed. If the bed will be used in a tilted position, it is recommended to unlock wheels from the foot bed end to prevent the wheels from rubbing against the floor when tilting. After reaching the required position of the mattress platform's tilting, lock the wheels again.
- Ensure the bed is level, on the flat surface and all electrical functions controlled by handset work properly.
- Ensure the handset's functions are locked/unlocked (depending on the assessment of the patient's condition and the environment – see section 7.5.3).



Note, if the electrical functions do not operate ensure the handset has been 'unlocked' (see section 7.5.3).

Two bed ends (made of powder-coated steel) support the mattress platform, electrical system and a set of side rails to ensure patient's safety. The safe working load is 440 lb (200 kg). The bed is equipped with 4 lockable wheels to allow maneuvering the bed. However, the bed is not intended for transporting the patient. The bed can be disassembled into four separate parts that can be installed on transport stand delivered along with the bed – for easy transport and storage.

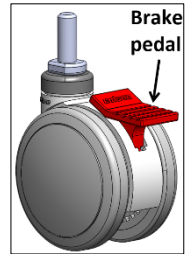
7.3. BRAKE SYSTEM

The bed has 4 braked castors.

- To apply the brakes: Press the brake pedal down.
- To release the brakes: Lift the brake pedal up.

For safety reasons, wheels should be locked with the foot (not with the use of a hand), and the manufacturer recommends wearing adequate footwear.

During normal use, all wheels should be locked – wheels at the foot bed end should be unlocked when using the tilt function.



7.4. SIDE RAILS AND MATTRESSES

The Bradshaw Junior bed comes standard with a full length side rails. Wooden rails extend over the entire length of the bed.

7.4.1. MATTRESS THICKNESS



- With standard length side rails, the approved mattress height is 6 in (152mm).
- Side rails must only be used with proper size and type mattresses approved for use with Bradshaw Junior bed.
- The use of side rails that have not been approved for use with the bed is unacceptable due to the risk of loss of health or life.

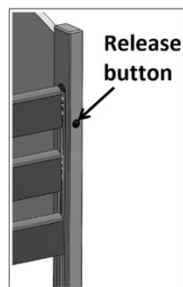
7.4.2. OPERATING THE SIDE RAILS

To lower side rails:

- Lift the side rails gently upwards.
- Press the release button for side rails.
- Gently lower the side rails (the release button can be let depressed when lowering side rails).

To raise the side rails:

- Lift the side rail until it is heard to latch into position at the top height.



- Always lock side rails when raised to prevent injury or entrapment.
- Ensure no limbs or objects are between side rails before use.
- Side rails are not for patient support or lifting.
- Keep side rails free of obstructions when operating.
- Do not hold side rails when exiting the bed to avoid finger trapping or crushing.



- Do not use the side rails to move the bed – the risk of damaging side rails/bed's frame.
- Do not use side rails as a positioning and/or lifting aid – the risk of damaging side rails and/or the bed.
- When lowering do not drop the side rail.

7.5. ELECTRICAL OPERATION

The Bradshaw Junior bed has been equipped with a 9-button easy to use handset. It is intended for use by both the patient and the caregiver. However, the handset should be operated by the care person. During the operation of the bed position by the caregiver, make sure that the user is informed about the change in the position of the mattress platform.

Thanks to the use of the handset, it is possible to control the electronic, linear system of actuators, which are controlled by the central control box. Actuators are attached to moving parts of the bed's frame. This enables to change their position with the use of the handset. Pressing the appropriate button activates the selected function, and releasing completes the operation and stops all movements. The caregiver has the option of blocking the bed's functions (if necessary) in order to reduce the risk of

accidental and/or unintentional operation of the bed. The caregiver is responsible for determining whether the patient is mentally and physically able to operate the bed's functions with a minimal risk of injury or damage to the body.



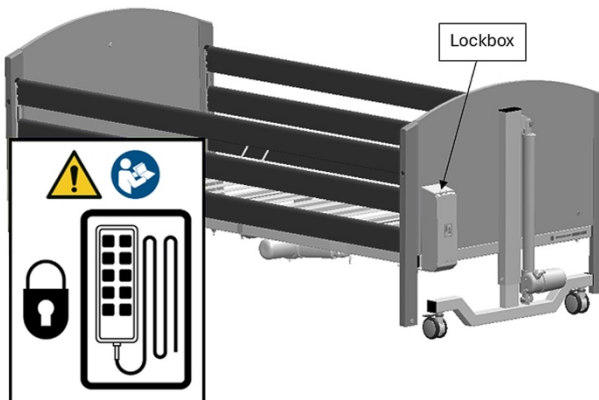
- Assess the suitability of handset use; remove if the cable poses a strangulation risk.
- Ensure no one is under the bed before lowering to prevent crushing injuries.
- Keep feet and limbs away from castor pedals and corner posts when lowering the bed.
- Do not use open flames or burning objects near the bed to avoid fire hazards.
- Avoid using actuators in flammable gas or oxygen-rich environments due to explosion/fire risk.



If the bed is continuously used for an extended period of time and it exceeds the duty cycle the control box and / or lift actuators may become temporarily disabled or irreparably damaged. If this occurs remove the power supply from the wall and allow system to rest for 20-30 minutes before attempting to re-operate.

7.5.1. HANDSET LOCATION

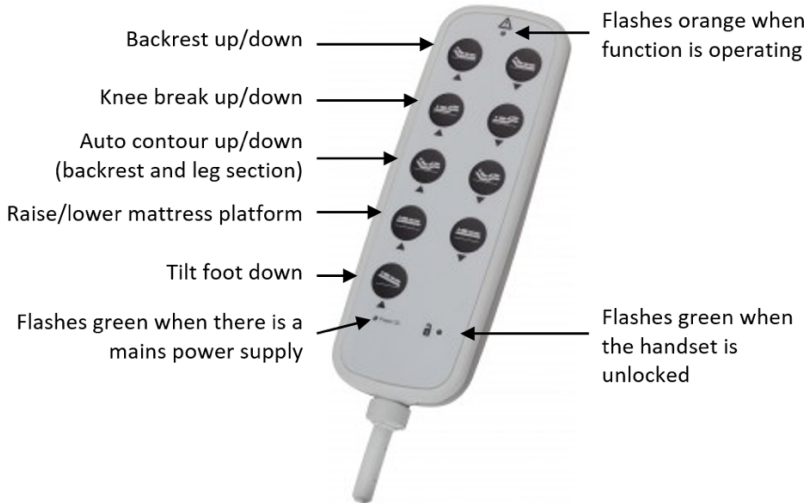
The handset and its cable shall be stored in a secured location out of reach of the child. Storage location of handset is labeled by a marking as shown on the picture.





The manufacturer recommend that the handset is positioned on the handset holder, facing inwards and with all functions locked out when the patient is left unattended to minimize the risk of unauthorized operation and accidental strangulation.

7.5.2. 9-BUTTON HANDSET OPERATION



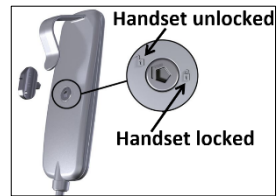
Note: when the bed is in the tilt position, leveling the mattress platform is carried out through the adjustment of the Raise/lower mattress platform button., by lifting the platform upwards (maximum value) or lowering down (maximum value) – until the mattress platform is leveled.



- Engage the lockout function to prevent injury from unintended mattress movement.
- Use the lockout function to prevent tampering by children, adults with learning difficulties, or pets.
- Store the lockout key safely to avoid choking hazards.
- Keep the lockout key secure to prevent unauthorized changes.

7.5.3. HANDSET LOCKOUT

The handset is supplied with a lockout function which enables the care person to disable the handset with a mechanic key (attached to the handset) until the light is on / off. The use of the handset lock function depends on the caregiver's decision.



To lock / unlock the handset: turn the handset over, put the key in the recess on the back of the handset, turn the key (fully) clockwise to lock or counter-clockwise to unlock functions.

Note: Functions should be disabled when the bed is put into service.

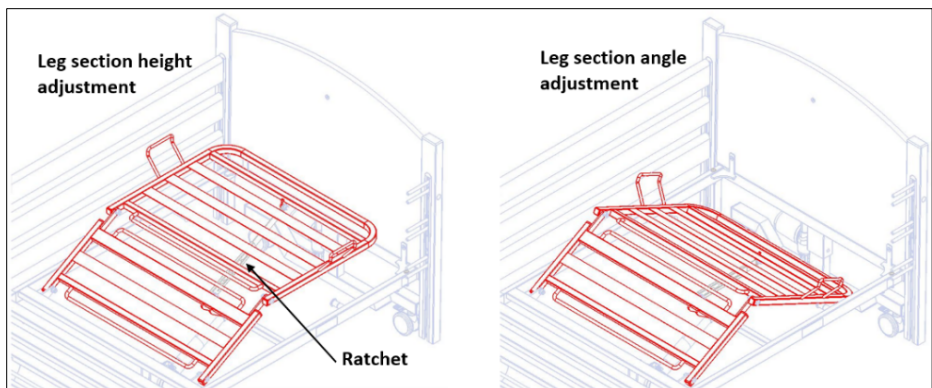


Consider locking the handset function if a patient may be injured due to unintentional movement of the mattress platform.

7.6. LEG SECTION

Note: The operation of the leg section is dependent on the position of the ratchet as detailed below.

The bed is fitted with an adjustable leg section. When the leg section function on the handset is operated the height or angle of the leg section is adjusted, depending on whether or not the leg section ratchet is set.



Setting the bed so that the leg section height adjustment operates:

- Press the leg section button on the handset and raise to maximum height.

- Lift the leg section manually with the use of handles so that the ratchet engages (once engaged the leg section will be supported by the ratchet).
- The leg section will now move parallel to the bed frame as it is driven up / down with the use of the adequate function on the handset.
- Lowering the lower leg section to the lowest position will automatically reset the ratchet's setting.

Setting the bed so that the leg section angle adjustment operates:

- Press the leg section button on the handset and raise the leg section (height not important).
- Lift the foot section manually so that the ratchet disengages (if in doubt lift the leg section to the ratchet's maximum extent).
- Gently lower the leg section down.
- The leg section angle adjustment will now be set.
- To unlock (reset) the ratchet, use handles to lift the thigh section to the maximum position.



Before attempting to lift the leg section either:

- Ensure there is no load on the foot section, or
- Support the foot section with a second able bodied person.



The leg section is only to be used for the lifting of a patient's legs – Any other use may damage the bed frame.

8. ASSEMBLY ONTO THE TRANSPORT STAND



- Before attempting to assemble the bed onto the transport stand ensure these instructions have been read and fully understood.
- Ensure a risk assessment in line with local health and safety policy is undertaken to ensure that staff are not put at risk when performing assembly activities.
- Take care when assembling the bed onto the transport stand, the sections are of considerable weight (see section 14.1).
- It is advisable to assemble the bed with a second able bodied person.

Side rails

- Raise / lower the bed to approximately its middle height - make sure that the mattress's platform is levelled.
- Raise the side rails to its highest position.
- Remove the retaining screw from one of the channels.
- Lower the side rails at this end with care until the finger assembly disengages from the channel.
- Carefully remove all side rails.
- Relocate the finger assemblies into the channel (see section 6.4).
- Re-fit the retaining screw into the channel.
- Repeat for the other side of the bed.

Electrics

- Flatten and lower the bed and the whole mattress platform to its minimum height.
- Unplug the main cable from the main socket.
- Using a flat-headed screwdriver remove the cable cover from the control box.
- Unplug the high / low, leg section actuator and handset cables from the control box.
- Neatly wrap all cabling around the relevant bed sections.

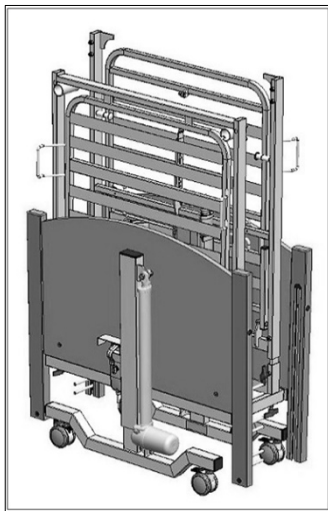
Bed Frame

- With cable ties (or similar), secure the moving parts of the backrest and leg section to the bed frame halves.
- Release the brakes from the castors.
- Loosen the grub screws in the middle of the bed frame.
- Whilst supporting both halves of the bed frame, split the bed in half and gently lower onto the floor.

- Unfasten the grub and dome screws from one end of the bed.
- While supporting the bed end pull the platform half away and gently position both sections on the floor / against a wall.
- Repeat for the remaining half of the bed.

Assembling onto the Stand

- Position both transport stand brackets onto one bed end, taking care to ensure the brackets are both orientated in the correct direction.
- **Tighten both thumb screws on each side.**
- Insert opposite bed end onto both transport stand brackets.
- **Tighten both thumb screws on each side.**
- Lock the castors.
- Loosen the thumb screws on the vertical tube on the transport stands.
- Before lifting backrest and leg sections, make sure that moving parts are secured with cable ties, stretch foil, tape, etc.
- Carefully lift the backrest section and lower the spigots into the open tubes, ensuring the electrics are facing inwards.
- **Tighten the thumb screws on the transport stands.**
- Carefully lift the leg section and lower the open end onto the vertical bars, ensuring the electrics are facing.
- **Tighten the grub screws on the leg section frame.**
- Ensure all cabling is neatly wrapped around the relevant bed sections and is not dragging on the floor or is under excess tension and the instructions for use and the actuator cable retaining clip are safely stored.





- The bed is not for patient transport and must not be moved out of the room with a patient in it to prevent injury.
- If moving the occupied bed within the room, conduct a risk assessment per local health and safety policies.
- When transporting the bed on its stand, perform a risk assessment to ensure staff safety, especially on inclines or uneven surfaces.
- The bed should not be transported on the transport stand in the absence of screws or unsecured sections.
- To prevent cross-contamination, wear disposable gloves when handling the bed. Dispose of gloves unless the bed and accessories are confirmed disinfected.
- Before storing, ensure the bed is cleaned and disinfected per local infection control rules or section 11 of this manual.

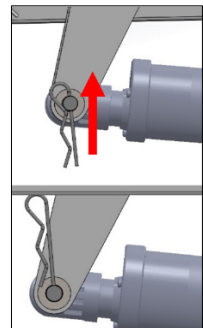
9. POWER FAILURES

The bed does not have battery backup functionality. In the event of a power failure the bed will not function and will remain in the position that it was in prior to the loss of power.

9.1. EMERGENCY LOWERING BACKREST AND LEG SECTIONS

The backrest and knee break are operated via two individual actuators that are located underneath the mattress platform. In the event of power failure and the need to lower please follow the steps below:

- If either the backrest or leg section is raised, locate the actuator supporting the relevant section.
- Address another person for assistance in holding the relevant section.
- Remove the pin that holds the bolt in place (**only on one side!**).
- Remove the bolt that holds the actuator (**only on one side!**).



- Remove the piston by placing it gently on the floor – it can hang down.
- Gently lower the section to the level position



- Conduct a risk assessment before lowering the bed section with a patient in it, following health and safety regulations.
- Ensure someone is ready to support the section weight when pins are removed.
- Two people should perform the operation.
- Watch out for objects and body parts to avoid crushing between the bed headrest and platform.

10. DECONTAMINATION

Infection control and routine cleaning must be carried out in accordance with the Infection Control Policy, the local infection control schedule or recommendations from the local regulatory authorities.



- Disconnect the bed from the main power supply before cleaning.
- Insert cable plugs into all electrical ports to maintain the IP rating.
- Regularly clean and disinfect the bed frame and accessories to prevent infection.
- Clean and disinfect the bed frame/accessories before transferring to another user to prevent cross infection.
- Thoroughly clean and disinfect the bed and accessories before and after any service, maintenance, inspection, or repair.
- Use protective cover during decontamination to avoid skin contact and check the recommended neutralizing agent.
- Unauthorized decontamination poses risks to people and the environment.
- The manufacturer is not responsible for damage from improper decontamination.
- Prevent decontaminator from entering the electronic system to avoid short circuits.

Before the beginning of disinfection and cleaning operations it is advisable to remove any accessories that are fastened to the bed.

These instructions apply to all accessories (with the exception of mattresses).

General Cleaning:

- The bed should be cleaned by starting with the cleanest parts of the bed and systematically moving to the dirtiest parts. Extra care should be taken around areas where excess dirt or dust may gather.
- The cloth should be changed during the cleaning process if it becomes soiled.
- Wipe down with a clean cloth moistened with a mild detergent and dilute with warm water (104°F/40°C).
- Rinse with cold, clean water and a clean cloth, and allow to fully dry before use.

Decontamination:

- Mop up any fluid with paper towels.
- Wipe bed down using cold clean water.
- Wipe down with a 0.1% Chlorine solution (1,000 ppm) in cold water.
- Rinse with cold clean water and a clean cloth and allow to fully dry before use.
- Always ensure the cleaned parts are allowed to dry before putting the mattress back in place.

In cases of blood spills or other bodily fluids it is recommended that a 1% Chlorine solution (10,000 ppm) is used instead. Ensure fabric surfaces are rinsed with clean water after application.

Note: If any of the stages stated above are omitted or combined it will reduce the effectiveness of the clean.

Note: The use of bleach or similar surface cleaners is not recommended as damage may be caused to the cleaned surfaces.

11. MAINTENANCE

The manufacturer recommends that the care person performs frequent visual and operational inspections. If there are any signs of damage or the bed is not performing as it should, it should be withdrawn from service until the bed has been repaired and is fit for use again.

Periodically check to ensure that:

- No parts are missing.
- All fixtures and fittings are tight.
- No parts show signs of excessive wear (including no cracks near welded areas).
- The electrical components display no sign of damage - If so turn off at the main plug and remove the bed from use immediately.
- The frame is mechanically operational.
- The bed operates as per its intended purpose.
- The bed is cleaned following the guidelines in this Instruction Manual.
- All accessories and additional equipment are fitted in a right way.

11.1. GENERAL MAINTENANCE

Please act accordingly with the following instructions:



- Regular inspections are crucial to ensure bed operation and patient safety.
- Disconnect the bed from the power supply before maintenance, except when checking electrical functions.
- Do not modify the bed frame without manufacturer permission to avoid hazards.
- Ensure the bed is vacated before maintenance; if not possible, avoid contact with the patient when working on electrical items.
- Only authorized personnel should replace electrical components.
- Use only manufacturer-approved components for the Bradshaw Junior bed.
- Never attempt to re-wire components.

Check all electrical functions and cables.

- Ensure main cable and plugs are in good condition; replace if damaged.
- Verify actuator and power cable plugs are covered.
- Tighten all nuts, screws, and fasteners; ensure none are missing.
- Ensure all grub screws and knobs are present.
- Check mechanical operation of backrest and leg sections.
- Confirm all labels and stickers are present and legible.
- Raise and lower side rails; ensure smooth movement and automatic lock engagement.
- Check aluminum channels at bed ends.
- Test castor lock function; ensure castors do not move when locked.
- Inspect bed frame for excessive wear or cracks near welds.
- Remove bed from use if any gaps are outside specifications.

If in doubt about correct replacement of a component contact your local distributor. Refer to the parts list for part codes and assembly detail. Copies are available from your local distributor.

11.2. SERVICE LIFE

The service life of the Bradshaw Junior bed is 10 years*, with the exception of the mattress. On the basis that the bed and its associated accessories are serviced and maintained in acceptance with the information detailed in these instructions for use and the individual instructions provided with the accessory in question.

The service life of accessories is also subject to specification. Please see the mattress owner's manual for more information.

At the end of service life, the bed should be discarded appropriately.

*Not applicable to the electrical components – see section 14.4.

11.3 TROUBLESHOOTING

Listed below are a set of electrical faults that may occur within the service life of the bed. If a fault does occur please try the following suggestions, as these may help in diagnosing the fault, or contact the service department.

Fault	Possible cause	Remedy
Electrical functions do not work	Functions locked out on handset	Unlock functions with a mechanical key (see section 7.5.3)
	Main cable not plugged into the control box or socket	Check to see if the 'power on' light on the handset is on and the main cable is plugged in at both ends
	Fuse blown in the main plug	Check to see if the 'power on' light on the handset is on, if not turn off the device, unplug the main cable and contact the approved service department
	Actuator / handset cables not plugged in	Check plug connections on the control box
	Damage to main cable, actuator cable or handset cables	Turn off the device, unplug the main cable and contact the approved service department
	Work cycle of the control box has been exceeded – possible permanent damage	If the control box has exceeded its duty cycle permanent damage may have occurred. Allow power supply to cool for 20-30 minutes before attempting to re-operate. If electrical functions still do not work a replacement power supply and/or control box will be required
Electrical functions working slow	Heavy load on the bed	Remove load
Incorrect functions operate while controlling the handset	Actuator plugs are plugged into the bad ports in the control box	Check that the connected cables correspond to the markings on the control box – correct connection is described in section 6.3
The bed instable	Grub screws loose	Tighten grub screws



Warning

During the adjustment and maintenance attention should be paid to ensure that no part of the body is found in the potentially hazardous section (movable: headrest section, leg section, high / low system, side rails).

12. DISPOSAL OF PARTS

When the bed frame / electrical system has come to the end of its useful life follow local recycling and W.E.E.E. (Waste Electrical and Electronic Equipment) policies.

The electrical system on the bed frame is not to be disposed of in general municipal waste. Some of the electrical components could be harmful to the environment and where viable the components can be recovered and reused / recycled.

The steel, plastic and wooden components are also to be separated and disposed of following the local recycling policy as these can also be recovered and recycled.



The bed is to be decontaminated before disposal to avoid risk of cross contamination.

13. ELECTROMAGNETIC COMPATIBILITY (EMC)

The electrical system has been designed to meet the necessary EMC requirements (IEC 60601-1-2 standard) however it may still be affected by or emit harmful radio frequency (RF) energy. The RF emissions from the electrical system are very low and are not likely to cause any interference to nearby electronic equipment, however interference to sensitive equipment is still possible. Likewise, if the immunity limits of the electrical system are exceeded the system may be seen to operate abnormally.

Interference can be received from fixed transmitters (e.g. commercial radio and television towers) and portable / mobile RF communications equipment (e.g. mobile phones). Due to the increasing number of mobile phones and other wireless devices the possibilities of interference to the electrical system and other surrounding equipment results in the need for special precautions to be taken regarding EMC.

If the bed or any alternative equipment is found to be operating abnormally turn off the piece of equipment that is believed to be causing the interference (if possible) to identify the source of the RF energy. Once identified mitigation measures are to be taken, such as the separation distances being increased and / or the device(s) being re-orientated.

If the bed continues to operate abnormally turn off at the main supply and contact your local distributor or importer.



- Avoid using the bed near or stacked with other medical electrical equipment. If necessary, monitor for normal operation to prevent issues.
- Using non-specified accessories and cables may increase electromagnetic emissions and cause malfunctions.
- Keep portable RF communications equipment at least 30 cm away from the bed and cables to avoid performance deterioration.

14. SPECIFICATION

14.1. BED

DATA

		BRADSHAW JUNIOR
Overall length		84.6" / 2150 mm
Overall width		36.6" / 930 mm
Mattress platform height		15.4" - 31.9" / 390-810 mm
Under bed clearance (to underside of frame)		13.9" / 355 mm
Mattress platform length		74.8" / 1900 mm
Mattress platform width		30.7" / 780 mm
Backrest section tilt		0 - 74°
Thigh section tilt		0 - 34°
Maximum lower leg section height		5.4" / 138 mm
Reverse Trendelenburg position tilt		0 - 12°
Part Weights	Leg rest platform	39.6 lb / 18 kg
	Backrest platform	39.6 lb / 18 kg
	Head end	41.6 lb / 18.9 kg
	Foot end	41.6 lb / 18.9 kg
	Side rails	33 lb / 15 kg
Overall Bed weight		196.2 lb / 89 kg
Overall bed weight on the transport stand (excluding side rail)		167.5 lb / 76 kg

The bed data identify the maximum angles which can be achieved in normal use by each part of the mattress support platform with reference to horizontal. Mattress platform height is defined as the maximum and minimum height from the floor which can be achieved by the mattress support platform in normal use.

14.2. MAXIMUM LOAD

Safe working load	440 lb / 200 kg
Maximum User weight	363 lb / 165 kg

The safe working load is the sum of the weight of: patient/user, mattress, accessories, loads carried by accessories (excluding the patient's weight).



The above-listed maximum loads refer to a bed used by one person only. The bed is not designed to carry the weight of guests seated at the side of the bed. Additional weight can damage components or make the bed unstable – creating a risk of injury.

14.3. TECHNICAL DATA OF SIDE RAILS

Bradshaw Junior bed has been tested and approved with wooden side rails along the entire length of the mattress platform. The table below presents the basic dimensions of side rails that can be used with the bed.

	Length	Height	Width
Bradshaw Junior Side Rail	74.25" / 1886 mm	3.3" / 85 mm	1.1" / 28 mm

The manufacturer recommends to only use the manufacturer's side rails along with their beds. The manufacturer does not recommend the use of Bradshaw Junior bed with side rails for patients with a height of less than 125 cm – the equipment supplier is responsible for ensuring the suitability for use.



- Despite the fact that the manufacturer made every effort to ensure that the design of side rails meets the appropriate safety standards, side rails may still pose a potential risk of death resulting from entrapment and/or suffocation.
- Persons responsible for the sale/purchase, selection for use and adjustment of side rails, should be aware of the potential risk regarding entrapment and/or suffocation when the bed is in use.
- When positioning and adjusting the side rails, make sure that all spaces between side rails, mattress and bed frame will not block the patient's head and body. Furthermore, the size and physiological condition of the patient should be considered. Conduct an assessment in order to ensure that the gaps between side rails are not large enough to create a potential risk of entrapment and/or suffocation. All persons responsible for the patient care must be aware that increased vigilance is required when a patient lies on the bed with side rails.



Only mattress provided is approved to use. The use of other types of mattresses may damage the bed.

14.4. ELECTRICAL DATA

	Power supply plug	Control unit
Voltage in:	100 - 240V, 50/60Hz	24-29V DC
Current in:	2A max	8A max
Standby power:	≤ 0.5W	-
Electric shock protection:	Class II	Class III
Duty cycle:*	10% 2 mins of continuous use followed by 18 mins not in use. 5 switching cycles per one minute	

*Electrically operated beds are intended to be operated intermittently rather than continuously. If the bed is operated continuously for up to 2 minutes, it must then be left for at least 18 minutes before reuse to allow the electrical system to cool sufficiently. If the bed is continuously used for an extended period of time, and it exceeds the duty cycle, the control box may become temporarily disabled or irreparably damaged.

No more than two drives may be operated at rated load simultaneously!

Safety standards: IEC 60601-1, IEC 60601-2-52, IEC 60601-1-11,
IEC 60601-1-2, IEC 60601-1-6, EN 50637, ISO 14791,
EN 62366

Applied part electrical shock protection: Type BF

Applied parts: Mattress platform
Profiling sections
Bed ends
Handset
Side rails

Liquid ingress protection: IPX4 - Splash resistant

Noise level: 67dB(A)

Service life: 5 years*

Environmental conditions:

	Operational/storage limits**	Transportation limits
Ambient temperature:	+50°F to +104°F	-4°F to +122°F
Humidity:	30% - 75%	30% - 75%
Atmospheric pressure:	800 to 1060 hPa	800 to 1060 hPa
Altitude:	≤ 2000 m	≤ 2000 m

* After 5 years, electronic components should be serviced or replaced to ensure safe operation for up to 10 years.

** Always ensure the bed is brought up/down to room temperature before plugging in and operating. It is recommended to leave the bed for at least 2 hours in order to ensure that it reaches room temperature.

15. ACCESSORIES

The Bradshaw Junior bed has been tested and approved with the following accessories:

Foam mattress:

- Bradshaw Junior Contour Foam Mattress BSB-JUNIOR-MAT

Characteristics of the accessories can be found in the relevant accessory's instructions for use.

The manufacturer cannot be held responsible for any injury or incident which relates to the use of any product combinations not approved by the manufacturer.

Please contact the supplier or manufacturer with any questions.



- The manufacturer is not responsible for any injuries or incidents connected with the use of unapproved accessories.
- It is forbidden to use accessories that have not been approved or are not intended for use with the bed – the risk of danger due to incompatibility regarding the combination of products.

15.1. MATTRESSES AND SIDE RAILS

Bradshaw Junior bed has been tested and approved with above mattress. The mattress listed above is the only mattress recommended by the manufacturer.

The Bradshaw Junior Contour Foam Mattress has been tested and approved with side rails characterized by specific dimensions dedicated to the Bradshaw Junior bed (see section 14.3).

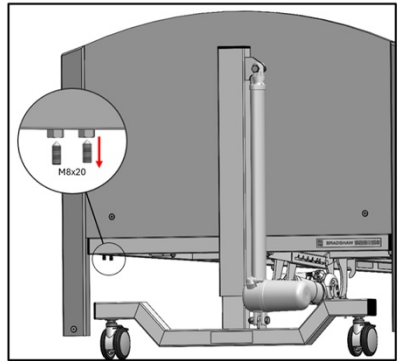


- Non-approved mattresses and side rails pose an entrapment risk.
- Perform a risk assessment to ensure the gap between the mattress and side rail is safe.
- Use the correct size and type of mattress, positioned properly between mattress holders to avoid entrapment or falls.
- Ensure side rails and mattress are correctly selected to prevent entrapment.

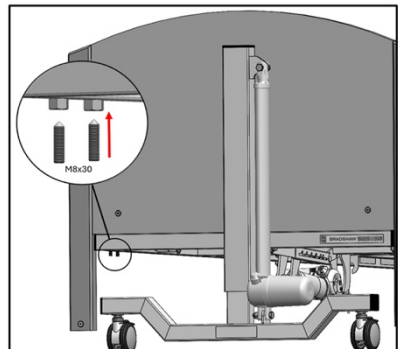
15.2. LOCKBOX

To mount the lockbox onto the bed frame:

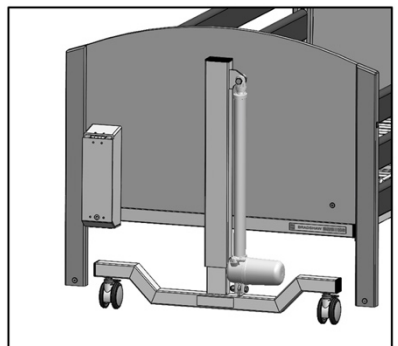
1. Use an Allen key to untighten the original screws which are located on the left side of the bed end.



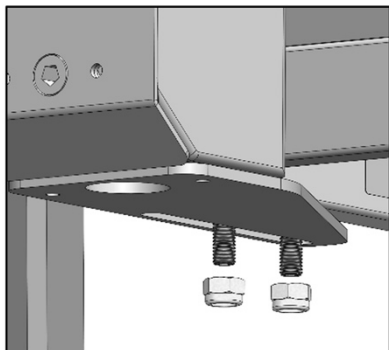
2. Replace them with M8x30 grub screws which are included in the lockbox mounting set.



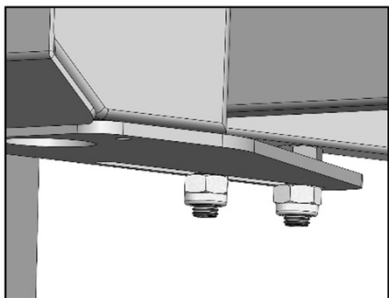
3. Position the lockbox in the required spot on the bed frame, ensuring it fits securely and is aligned to bed end.



4. Insert the two 2x M8 plain nuts onto M8x30 grub screws and tighten them.



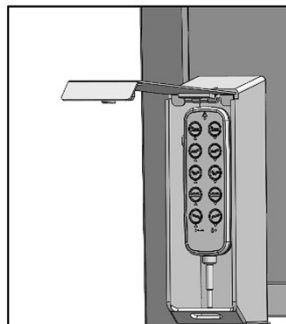
5. Make sure the plain nuts are fastened as tight as possible.



15.2.1. LOCKBOX USE

Handset Storage:

Place the handset inside the Lockbox, ensuring it is fully enclosed to prevent unauthorized access. Use the Hanging Bar to hang the handset. Ensure that the handset is securely placed inside to avoid damage. The handset cable, which passes under the mattress platform and is connected to the control box, should pass through the mounting cable holders. The location of these cable holders is indicated in Section 6.3.1. of the manual.



Handset placement within the lockbox

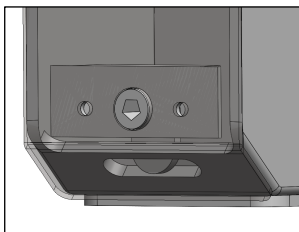


Warning

Handset cable shall not be under tension or strain, avoid wrapping it tightly to prevent damage, unless the cable can be considered as tangling or a tripping hazard.

Locking the Box:

- After storing the handset, close the Lockbox securely.
- The lockbox is locked/unlocked using the lock out key supplied with the handset.



Lockbox locked position

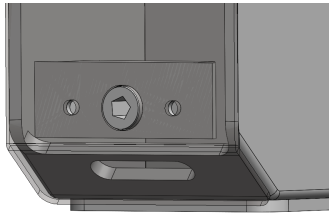


Lock out key

- To lock the lockbox insert and turn the key to the locked position (see above).

Unlocking the Box:

- To unlock the Lockbox, insert the Lockbox Lockout Key into the lock mechanism.
- Turn the key to the unlock position.



Lockbox unlocked position

- Open the Lockbox and remove the handset as needed.
- Ensure the Lockbox is locked again after the handset is stored.



The Lockbox Lockout Key should be stored in a secure location, easily accessible to authorized personnel but out of reach of the patient.

16. WARRANTY

- Lifetime warranty on welds and frame.
- 5 year warranty on motor and hand control.
- 1 year warranty on all other parts and components.

During the warranty period, defective items will be repaired or replaced at Drive's option at no charge.

[illegible]



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