



INSTRUCTION MANUAL

PA-6000 Series Bed

7A10717100A4



Note: In the illustration, an optional mattress is attached.

Preface

Thank you for purchasing **the PA-6000 Series Bed**.

This instruction manual describes precautions and how to safely use and operate the bed.

- Before using this bed, please read this instruction manual to fully understand the safe and proper operating procedures.
- The correct operating procedures should be explained not only to the persons using the bed but also to caregivers.
- After reading this instruction manual, store it where it can be easily accessed for later reference.
- Users and/or carers are requested to report information about any serious incident related to this bed that occurs within the EU to the manufacturer and the regulating authority of the member country of residence. 'Serious incident' means any incident that directly or indirectly led, might have led or might lead to any the following :
 - a) The death of a user, carer or other person.
 - b) The temporary or permanent serious deterioration of a user's, carer's or other person's state of health.
 - c) A serious public health threat.
- The actual product purchased may differ from detailed descriptions given in this instruction manual due to product improvements.
- Values in the specification such as working range, dimensions, angles and mass are subject to normal manufacturing tolerances. Besides some exemptions, display purpose words such as "approximately", "about" etc. are omitted.
- For any queries, please feel free to directly contact Paramount Bed or your distributor.

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NOTE

- After pages 4, some part names described in the text are abbreviated as follow:
 - Bed side-rail → Side-rail

1 INTENDED USE / PART NAMES

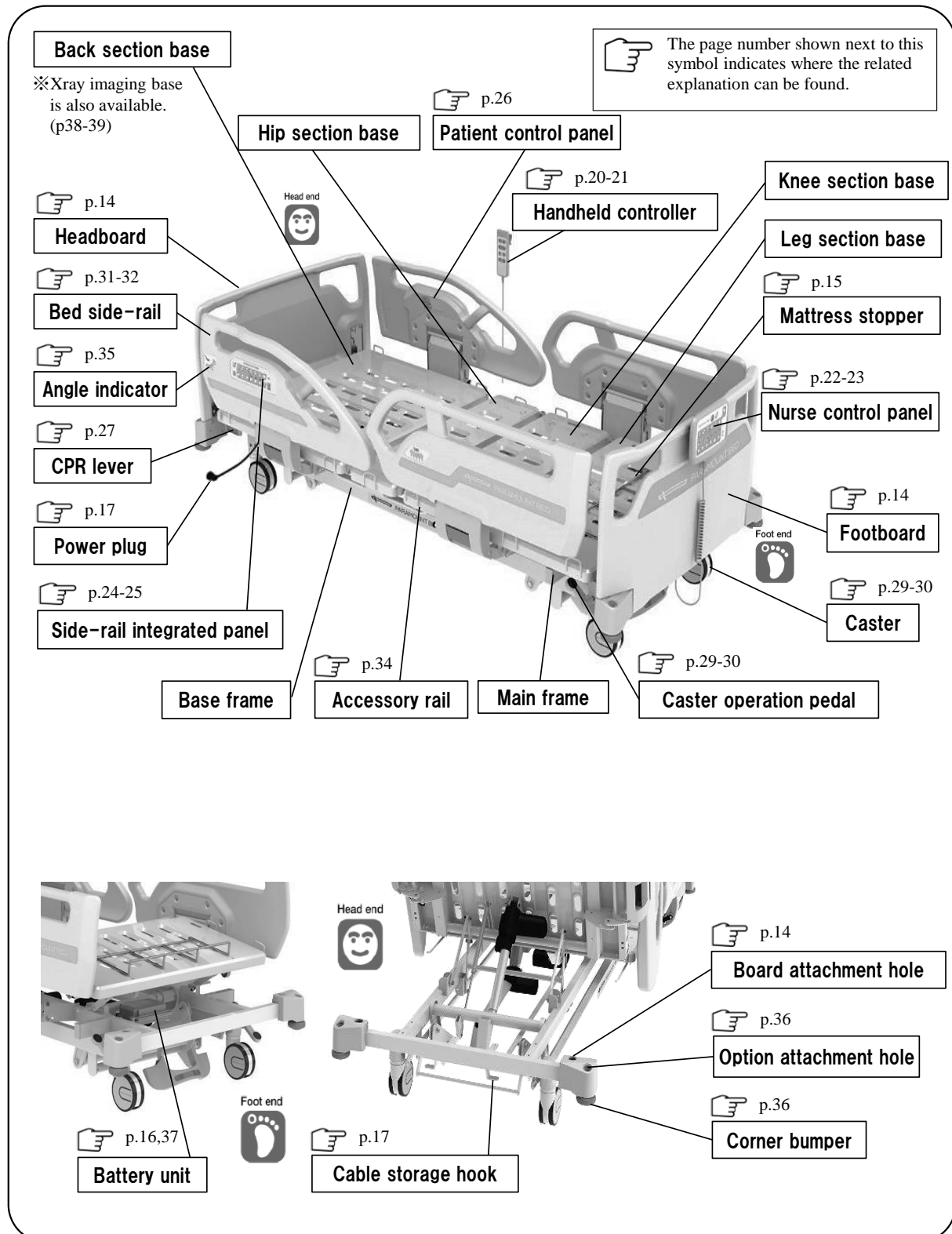
1. Intended Use

■ This bed is designed to be used for patient care in medical institutions and elderly care facilities.

※ Please refer to the SPECIFICATION for the patient target groups, the intended users, and the clinical benefits.

Note: Application environment 1 and 2 in IEC60601-2-52:2009



2. Part Names



2 SAFETY PRECAUTIONS

■ Be sure to read these safety precautions beforehand to ensure proper usage.

- The safety precautions described here are intended to ensure safe use of the product and prevent personal injury and property damage. Precautions are classified as "WARNING" and "CAUTION" to indicate the degree of hazard or injury that may result from improper use. **These are important safety precautions that must be strictly observed.**

 WARNING	Indicates actions that may result in death or serious injury (broken bones, pressure or paralysis) if the indication is ignored.
 CAUTION	Indicates actions that may result in light personal injury (bruises, wounds, or cuts) or property damage if the indication is ignored.
Among items described in SAFETY PRECAUTIONS, are especially important because ignoring them could result in serious life-threatening accidents. Be sure to read these notes and use the product safely and properly. Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.	

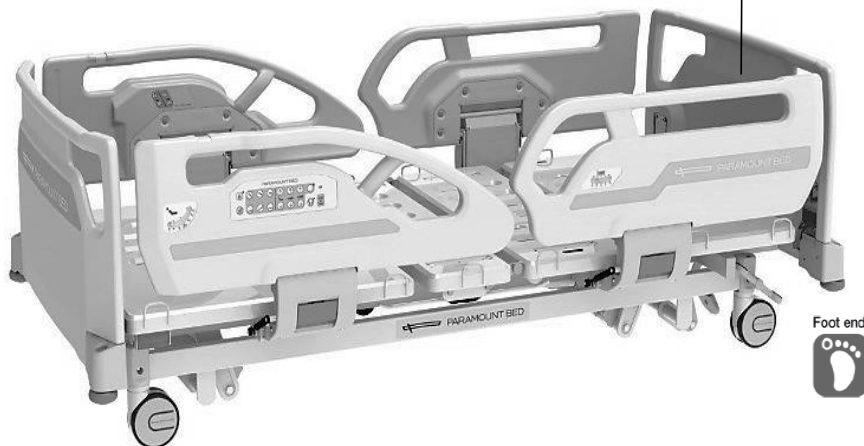
※After reading this instruction manual, store it in a place that can be easily accessed for later reference.

[Safety label]

- Precautions requiring special attention by persons using the bed are affixed as pictured in the figure.
- If the safety label is removed or defaced, replace it with a new one obtained from Paramount Bed or your distributor.



Head end



Foot end



2 SAFETY PRECAUTIONS

WARNING

- Be careful not to allow any part of the body (especially the head or neck) to enter the gap between the side-rail, or the side-rail and the board or the mattress base (especially when raised).



- When the head or neck enters the gap, the patient and/or user might not be able to withdraw, and there is a risk of injury.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

- Be careful not to allow any part of the body to enter the gap in the side-rail and the board.



- If the bed is operated with a body part placed in the gap, the part may get caught, resulting in injury.
- When the head or neck enters the gap, the patient and/or user might not be able to withdraw, and there is a risk of injury.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

- Be careful not to allow any part of the body (especially the head or neck) to enter the gap between the side-rail and the mattress base or the mattress.

- If the bed is operated with a body part placed in the gap, the part may get caught, resulting in injury.
- When the head or neck enters the gap, the patient and/or user might not be able to withdraw, and there is a risk of injury.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.

- When performing the height adjustment or inclination angle adjustment with the side-rail lowered, do not place legs under the side-rail.

- There is the risk that the legs may get caught, resulting in injury.

- Do not insert a hand (fingers) or legs between the bed frame and the mattress base during electrical operation.

- The body part may get caught in the gap between the lowered mattress base and the bed frame or the board, resulting in injury.

- Check the patient's condition when adjusting the base angle or bed height.

- If the patient on the bed moves when the base angle or bed height is adjusted, the patient may fall off the bed or get caught in the gap between the bed and the side-rail or the board, resulting in injury. Perform the adjustment while supporting patients who cannot maintain their posture independently.

- Do not crawl or place your head or hands/legs under the bed.



- There is a risk of getting caught between the moving part on the bed and the frame or the side-rail, resulting in injury. Check to make sure there are no people or objects around the bed before operating the bed.

WARNING

- Be careful not to allow any part of the body to enter the gap between the bed and wall or surrounding obstacles.
 - There is a risk that a part of the body may get caught, resulting in injury.
- Take care to prevent a patient from falling off the bed even when side-rails are raised.
 - A patient may fall off the bed through the gap between the side-rails, or a board and side-rail, resulting in injury.
 - If a patient bends forward over a side-rail, they may fall off the bed, resulting in injury.
 - Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently
- Do not adjust the side-rails from inside the bed.
 - The side-rails may drop suddenly and there is a risk of injury caused by a patient falling off the bed.
- When transporting a patient, raise the side-rails.
 - There is a risk of the patient falling off the bed, resulting in injury.
- Do not sit on the side-rails, the headboard, or the footboard.



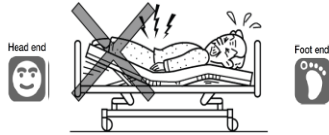
- A patient could fall off the bed, or the bed or side-rails could be damaged or deformed, resulting in injury.

- When leaving the bed area or temporarily taking your eyes off the patient, check the mattress base angle, bed height, and the side-rail status.
 - If a physician, nurse, or caregiver leaves the bed area or temporarily takes their eyes off the patient, flatten the mattress base angle and set the bed height at the lowest position according to the patient's condition because there is a slight chance that the patient could fall off the bed.
 - For patient who cannot maintain their posture independently or have trouble walking, raise all bed side rails.
- Do not allow the bed to be operated by a child aged 12 or under, or someone deemed incapable of comprehending the operation of the bed.
 - If a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as persons with dementia) operates the handheld controller or patient control panel by themselves, there is a risk of unexpected injury such as the body getting caught in the bed by accident. If such person can come into contact with the handheld controller or patient control panel, limit the operation by either of the following method in order to prevent accidents caused by incorrect operation.
 - Press the Lock button (the handheld controller and the patient control panel cannot be used) on the nurse control panel or the side-rail integrated panel to disable the handheld controller and patient control panel operation.
 - Unplug the power plug.

2 SAFETY PRECAUTIONS

WARNING

■ Use the bed in the correct orientation.



- Lying down on the bed with the feet at the head end and the head at the foot end induces an unnatural posture during bed operation (base angle) which may result in injury.

■ Do not perform any angle adjustment when the patient is lying face down or on their side (in any posture other than lying face up).



- There is a risk of injury caused by extending the joints backward.

■ Use the bed according to the patient's medical condition.

- The bed operations may adversely affect the medical conditions of patients with specific symptoms. Before the patient or a family member operates the bed, make sure that the physicians or nurses explain details given in the instruction manual and proper usage to suit the patient's medical condition.

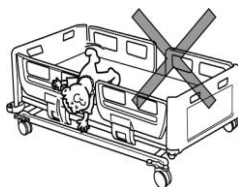
■ Pay attention to prevent the patient from being compressed by back raising.

- Especially before birthing, if the back section base is raised excessively, the patient might be compressed, resulting in injury.

■ Do not perform the bed operation such as raising the back or knee section base with a restraint belt attached to the main frame.

- The patient's body may be squeezed resulting in injury or the bed may get damaged or deformed.
- If a patient or family can come into contact with the handheld controller or patient control panel, limit the operation by either of the following methods in order to prevent accidents caused by incorrect operation.
 - Press the Lock button (the handheld controller and the patient control panel cannot be used) on the nurse control panel or the side-rail integrated panel to disable the handheld controller and patient control panel operation.
 - Unplug the power plug.

■ Do not use the bed for infants or small children.



- This product is not designed for infants or small children. There is a risk of injury caused by the infant or small child getting caught in gap between the side-rails.
- There is a risk that infants may fall off the bed through the gap between the side-rails, even when the side-rails are used.

■ Do not stand on the bed.



- There is a risk of injury caused by the person falling off the bed or falling down, or the bed could be damaged or deformed. Pay close attention to children.

WARNING

- **Do not spill liquids on the bed.**
 - Do not spill liquids on the bed's electrical components, such as the motors, handheld controller. This could cause an electric shock due to a short circuit or product failure. If liquids are spilt accidentally, disconnect the power plug from the power outlet and contact Paramount Bed dealer or your distributor.
- **Make sure that there is nothing in the board attachment holes or the option attachment holes when mounting the boards or the accessories.**
 - If there are obstacles in the attachment holes, you cannot mount the boards or the accessories, and the patient may fall off the bed or get caught in the gap, resulting in injury.
- **Do not use a mobile phone or other wireless device in the vicinity of the bed.**
 - This could cause the bed to malfunction or affect other medical equipment.
- **Do not attach a restraint belt to boards or side-rails.**
 - The belt could unexpectedly come off, resulting in injury, or the bed could get damaged or deformed.
- **When attaching the restraint belt to mattress base, put it through the mounting bracket of the mattress base.**
 - If the restraint belt is attached to the resin part or the mattress stopper, the belt could unexpectedly come off, resulting injury, or the bed could be damaged or deformed.
- **Do not combine the bed with products other than the suitable products specified by Paramount Bed.**
 - For options directly attached to the bed such as mattresses, use suitable products specified by Paramount Bed. Using other products may create unintended gaps, cause interference between products, or lower the product safety, which may result in injury or operational failure.
- **Keep the bed away from fire.**
 - Do not use thermal appliances such as heaters near the bed. Otherwise, the bed may be damaged or deformed, or even catch fire.
- **During motorized operation, be careful not to trap the tubes.**
 - It may cause damage to the tubes and devices or be trapped within the moving bed parts, resulting in injury.
- **When moving the bed, watch your step.**
 - Your leg may bump into the caster operation pedal or your foot may get caught by a caster, resulting in injury.
- **Lock the casters at all times except when moving the bed.**
 - The bed may move when a patient gets into or out of the bed, resulting in an unexpected injury.
 - When moving the bed, operate the caster operation pedal and unlock the casters.
- **Do not step on the caster operation pedal.**
 - There is a risk of injury due to falling or damage to the bed.

2 SAFETY PRECAUTIONS

WARNING

- Do not trip over the power cable or cables of the handheld controller and the nurse control panel.

- The power plug or cables may get damaged and short circuit, resulting in electric shock or fire.
- There is a risk of injury caused by the patient falling down.

- Do not run cables (such as the power cable) of the bed or other electrical appliances under the bed.

- The cables may get caught in casters or moving parts and become damaged and short circuit, resulting in electric shock or fire.

- Do not apply excessive force to the power plug.

- There is a risk of electric shock or a fire due to a short circuit.

- Do not allow dust to accumulate on the power plug pins.

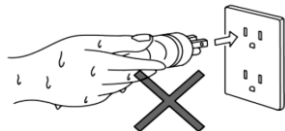


- Dust on the power plug can absorb moisture and conduct electricity, causing a short circuit and possibly resulting in electric shock or fire.
- Wipe away any dust accumulating on the surface of the power plug using a dry cloth.

- Always unplug the power plug before cleaning.

- There is a risk of injury due to accidental operation or electric shock due to a short circuit.

- Do not insert or remove the power plug with wet hands.



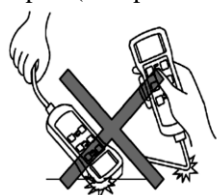
- There is a risk of electric shock or product failure due to a short circuit.

- Do not damage cables (such as the power cable).

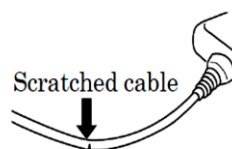
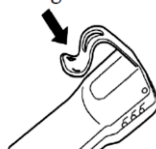
- Damage to the cables may cause electric shock or fire due to a short circuit.
 - Be careful not to allow cables to get caught in the moving parts of the bed.
 - Be careful not to place heavy objects on the cables or apply excessive force to them.
 - Do not run over cables with the bed.
- Request repair (or replacement) of damaged cables.

- Do not bump or damage electrical parts such as the handheld controller or nurse control panel.

- The bed may malfunction, resulting in injury, and there is a risk of electric shock or fire due to a short circuit.
- This may cause operational failure.
- Request repair (or replacement) of a damaged handheld controller or nurse control panel.



Hook damage



Scratched cable

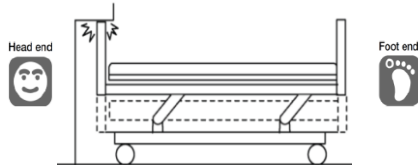
WARNING

- When disconnecting the power plug, hold the power plug body to disconnect.
 - When holding onto only the power cable and pulling it to disconnect the plug from the outlet, the cable could be damaged and there is a risk of electric shock or fire due to a short circuit.
- Always disconnect the power plug for the bed from the power outlet when using electronic medical equipment.
 - Using the bed in conjunction with electronic medical equipment (e.g. microwave or ultrashortwave medical equipment) may cause operational failure or malfunction.
 - Check for safety considerations before using the bed in conjunction with other medical equipment.
- Do not repair or modify the product or its components.
 - This may create unintended gaps or may cause abnormal operation, resulting in injury.
- Inspect the bed regularly.
 - The product exhibits wear and deterioration according to the frequency and conditions of use. Inspect for loose parts, the operation of moving parts on the bed, and the presence of damage regularly. There is a risk of unexpected injury.
- Beds damaged in accidents must be inspected and repaired before being reused.
 - Beds damaged in earthquakes, fires, or floods or other incidents must be inspected and repaired by Paramount bed or your distributor. Otherwise, there is a risk of electric shock or fire due to short circuit or current leakage from electrical parts, or injury due to malfunctioning caused by deformation of the bed.
- The bed should not be used by two or more persons.
 - This bed is designed for use by one person. When used by two or more persons, the bed could be damaged, resulting in injury. User's maximum weight is 175kg. If a physician, nurse, or caregiver needs to get on the bed for a short time, confirm the following conditions beforehand.
 - The total weight of the person to get on the bed must not exceed 175kg.
 - The mattress base has been lowered all the way, and is flat.
- Do not apply more than the safe working load on the bed.
 - The bed could be damaged, resulting in injury. The safe working load of this bed is 2400N (245kgf). The safe working load is the maximum load with which the bed can be operated and is the total load of the user's weight and incidental items including the mattress and options.
- Do not place the bed on the inclination which angle is 6 degree or more.
 - The bed may tip over, resulting in an injury.
- Do not spray a spray-type insecticide directly on the bed.
 - There is a risk that the solvents contained in insecticide may damage, discolor, or dissolve casters or other resin parts of the bed. Check for damage caused by insecticide because damaged or dissolved parts may cause an unexpected injury.
- Do not use electrically powered beds in the presence of flammable gases.
 - There is a risk of explosion.

2 SAFETY PRECAUTIONS

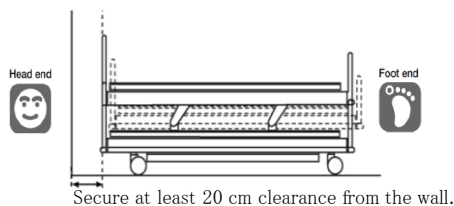
CAUTION

- When performing the height adjustment or inclination angle adjustment, pay attention not to hit the wall, beam, or power outlet on the wall.



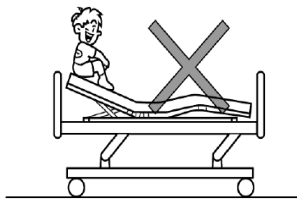
- The bed or wall may be damaged or deformed. Make sure that the bed does not hit the wall, beam, or power plug during the height adjustment or inclination angle adjustment.

- When setting up the bed, make sure that there is at least 20 cm clearance from the wall.



- The main frame moves back and forth during the height adjustment or inclination angle adjustment and could hit the wall, causing damage or deformation of the bed.

- Do not get on the mattress base when it is raised.

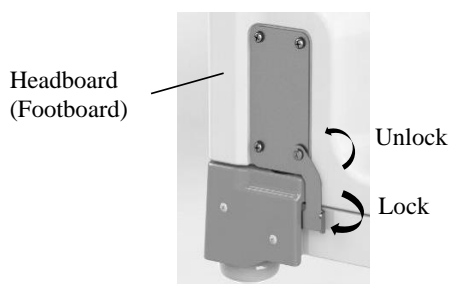


- It applies excessive force to the support of the mattress base, causing damage or deformation.

- Check around the bed before operating the bed.

- The bed operations may damage objects located around the bed, or may cause the bed to be damaged or deformed.

- Make sure that the stoppers of the board are in the lock position.



- If the board is not mounted properly, the board may suddenly disengage when a staff pushes (pulls) the board to move the bed or a patient grabs the board to support their body, resulting in injury due to the patient losing balance and falling down.

- Do not hold the side-rails to move the bed.

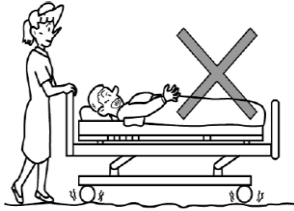
- It applies excessive force to the side-rails, causing damage or deformation.

- Pay attention to the board and devices that install at the attachment holes during tilt angle adjustment.

- During tilt angle adjustment, pay attention the board and accessories attachment holes will become tilted at an angle, which may cause equipment to drop, leading to injury as well as damage and deformity to the equipment.

CAUTION

■ Avoid transporting over uneven floors.



- This may cause damage to the bed, or deformation or failure of the bed. If moving on uneven floor is necessary, move the bed as slow as possible.

■ The handheld controller must be attached to a suitable bed.

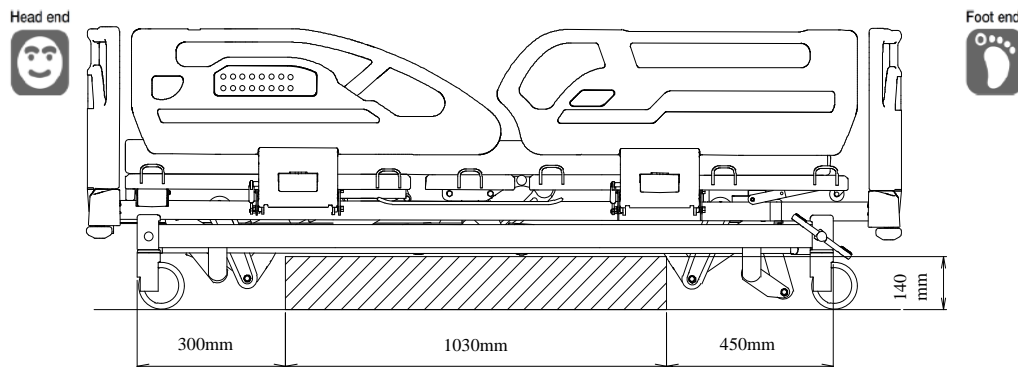
- If it is attached to an unsuitable bed, the bed could operate unexpectedly, resulting in injury or bed failure.
- Even though the bed is the same series, the suitable handheld controller may be different due to a specification changes. Before attaching the handheld controller to the bed, check that the part number and shape of the handheld controller are the same as those of the bed.

■ When using a patient lifter, do not use the leg part height is more than 140mm.

- The leg part of the patient lifter cannot be inserted under the bed and the patient lifter cannot be used safely.

■ When using a patient lifter, it can be used in the area as shown in the picture.

- Do not use the patient lifter in the other area because it may damage or deform.



■ The angle of the leg section base must be adjusted by at least two persons from both sides of the bed.

- If only one person attempts to adjust the angle, the person may get caught between the leg section base and main frame, resulting in injury.

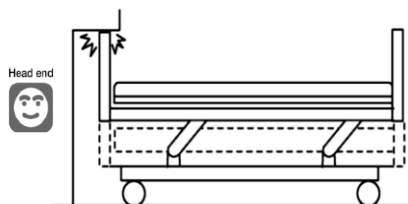
3 INSTALLATION

■ To avoid possible malfunctions, do not install the bed in the following locations.

- Locations expose to direct sunlight
- Locations near heat sources such as a stove or heater
- Locations which is heavily electrically charged such as near an MRI.
- Locations that has a high oxygen level
- Locations exposed to excessive amounts of water vapor or oil vapor
- Locations that tend to be exposed to high temperatures, high humidity, low temperatures or dry conditions
 - ※ The optimum ambient conditions for the bed are as follows.
Temperature 5°C to 40°C / Humidity 20%RH to 90%RH / Atmospheric pressure 700hPa to 1060hPa.
- Locations with large amount of dust, smoke, salt, sulfur, or corrosive substances
- Locations with poor ventilation
- Locations exposed to vibrations or shocks (including during transportaion)
- Locations where the floor is not strong enough
- Locations where the floor is not level

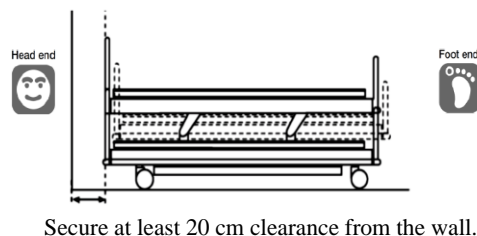
CAUTION

■ When performing the height adjustment or inclination angle adjustment, pay attention not to hit the wall, beam, or power outlet on the wall.



- The bed or wall may be damaged or deformed. Make sure that the bed does not hit the wall, beam, or power plug during the height adjustment or inclination angle adjustment.

■ When setting up the bed, make sure that there is at least 20 cm clearance from the wall.



- The main frame moves back and forth during the height adjustment or inclination angle adjustment and could hit the wall, causing damage or deformation of the bed.

4 ASSEMBLING THE BED

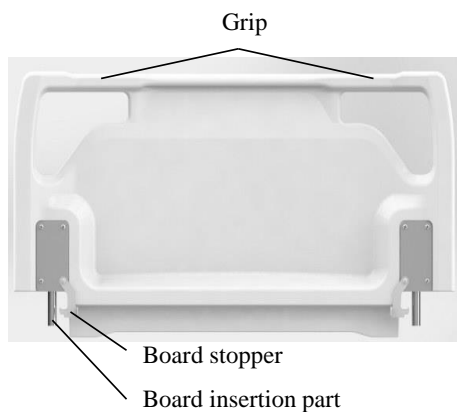
1.Board

CAUTION

- When attaching the board, make sure that the board stoppers are in the lock position. Otherwise, the board may disengage when the bed is moved, resulting in injury due to a fall.
- Do not attach the board to a hole other than the board attachment hole. Attachment could become insufficient and the board could be rattled or come off, resulting in injury.
- When removing the board, do not forcefully lift it while the board is tilted. There is the risk of deformation of the board insertion parts.

■ The boards can be attached or detached.

When washing the patient's hair, detach the headboard. When performing lower limb training or giving a foot bath, detach the footboard.



[Attaching]

- ① Set the board stopper to the release position.
- ② Hold the grip of the board to lift it and properly insert the board insertion part into the board attachment hole of the bed.
- ③ Insert the board stoppers into the slits of the bumper holder and properly lock the stoppers.
- ④ Lightly pull up the board and check that the board is locked.

[Detaching]

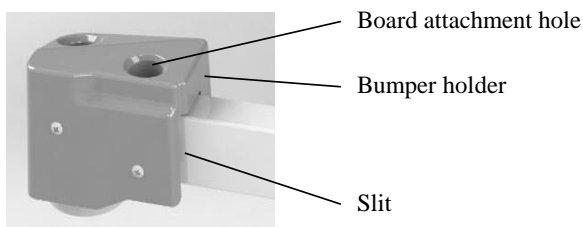
- ① Set the board stopper to the release position.
- ② You can remove the board by holding the grip of the board and pulling it directly up.



Lock position



Release position



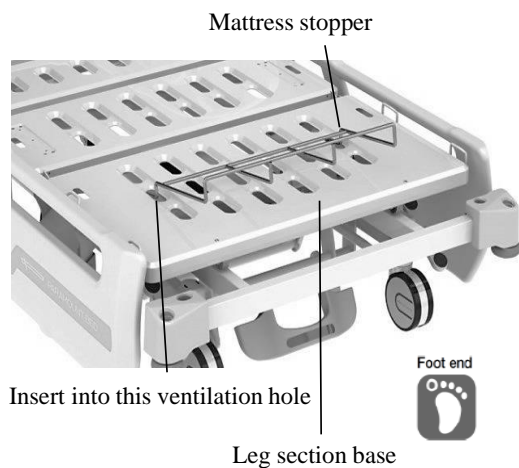
Lock status

4 ASSEMBLING THE BED

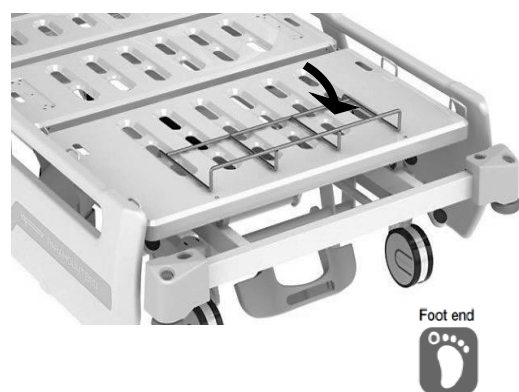
2. Mattress stopper

WARNING

- Do not hold the mattress stopper to lift the leg section base. The mattress stopper may come off and a body part such as a hand may get caught between the leg section base and main frame, resulting in injury.



- ① Refer to the figure on the left to insert the tip of the mattress stopper into the ventilation hole of the leg section base.



- ② Put down the mattress stopper in the direction indicated in the figure on the left.

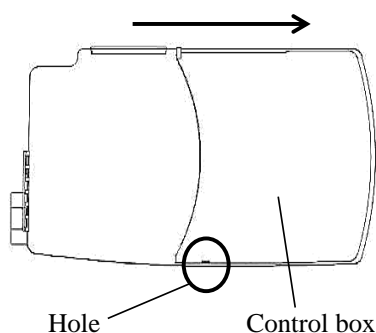
3. Battery unit (PA-62**, PA-64** type)

WARNING

- When connecting the battery cable, unplug the power plug and confirm the patient not on the bed.
There is a risk of injury due to accidental operation or electric shock due to a short circuit.

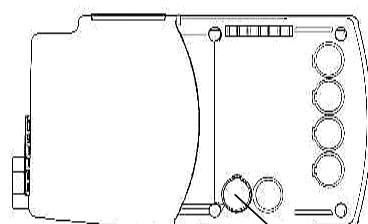
- The battery cable must be connected to the control box to use the battery.

Slide the control box cover

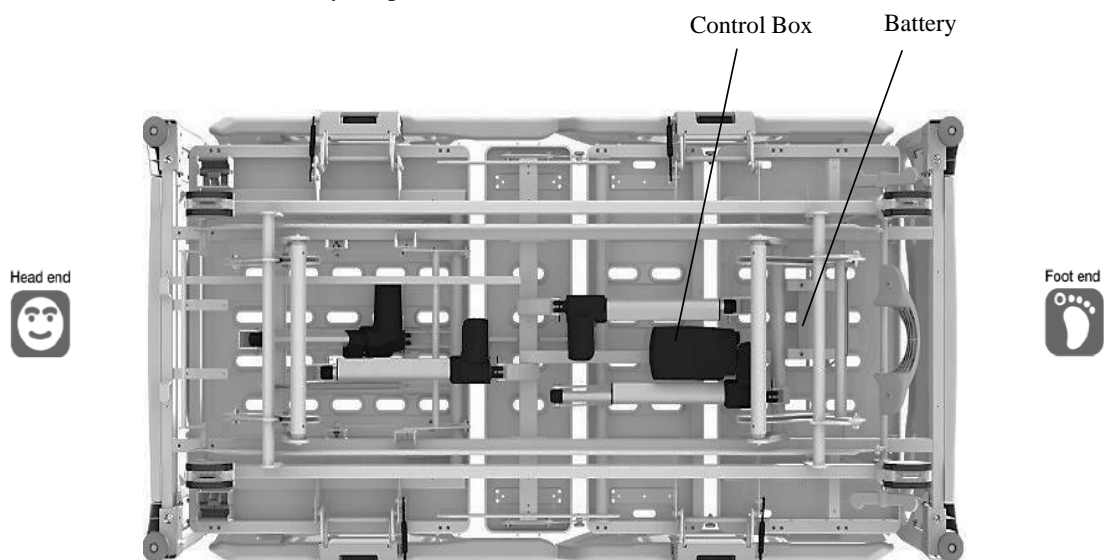


- ① Set minus driver in the hole of side on the control box and slide the control box cover to open it.
- ② Connect the battery cable to the battery adapter of the control box.
- ③ Attach the control box cover.

<After opening the control box cover>



Battery adapter

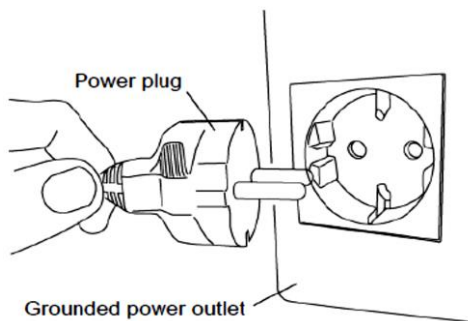
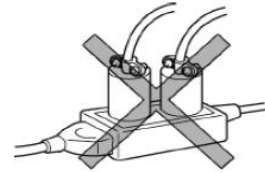


5 CONNECTING TO THE POWER SUPPLY

1. Power outlets

WARNING

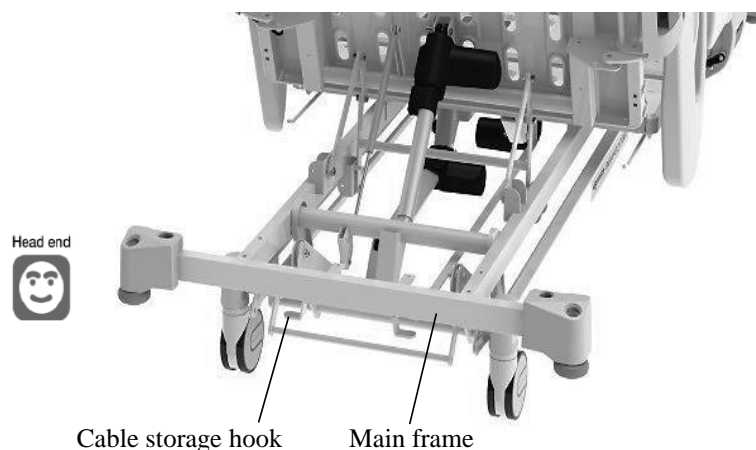
- Do not connect multiple cables to a single power outlet. If other electrical equipment is plugged into a power outlet or an extension cable and its rated capacity is exceeded, it could cause the cable or plug to overheat, resulting in fire.
- Make sure the plug is easily accessible so it can be disconnected quickly in an emergency.



- Each Bed should be plugged into a separate, appropriately wired, grounded power outlet and the power plug must be properly inserted into the outlet.

2. Using the cable storage hook

- Wind the power cable onto the cable storage hook when moving the bed.



※View after detaching the headboard

6 OPERATION PROCEDURES

1. Operation over view

WARNING

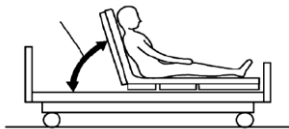
- When performing a position operation, check that the patient's head, arms, feet, or other body parts have not entered the gap of the side-rails, or the space between the back section base and the frame; There is a risk of getting caught, resulting in injury.
- When performing the height adjustment or inclination angle adjustment with the side-rail lowered, do not place legs under the side-rail. There is a risk of getting caught, resulting in injury.
- Do not allow the patient to get into or out of the bed while the bed is in the chair position. There is a risk of injury caused by the patient falling down.
- Setting the bed to the chair position must only be performed under the observation of a physician or a nurse.



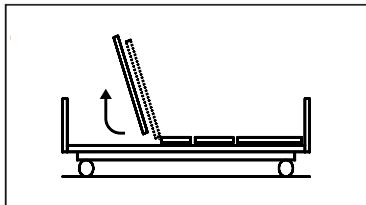
- The angle of the back and knee section bases and the bed height and inclination angle (Trendelenburg and Reverse Trendelenburg) can be electrically adjusted with no increments.
- The angle of the leg section base can be manually adjusted in two levels.

Back raise

0° to 70°



- The angle of the back section base can be adjusted electrically from an angle of 0° to 70°.



* Smart Raise Function

The Smart Raise Function reduces pressure and shearing on the patient with its retraction and extension motion. This action moves in unison with the back section of the frame surface to fit the body as the patient sits up, thus reducing strain on the patient.

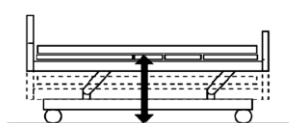
Knee raise

0° to 25°



- The angle of the knee section base can be adjusted electrically from an angle of 0° to 25°.

Height adjustment



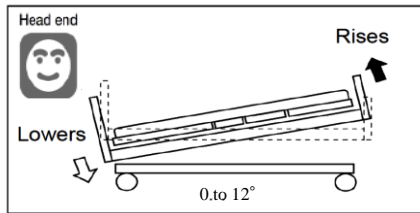
Note: See p.53-p.56.

- The height from the floor to the mattress base surface can be adjusted electrically.

6 OPERATION PROCEDURES

Trendelenburg

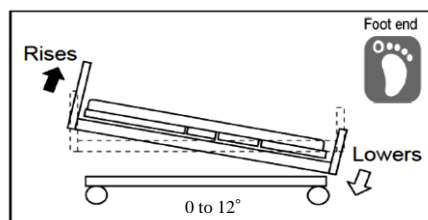
※PA-62**, PA-64**



- The head end of the bed can be lowered.
The angle can be adjusted electrically up to 12°.

Reverse Trendelenburg

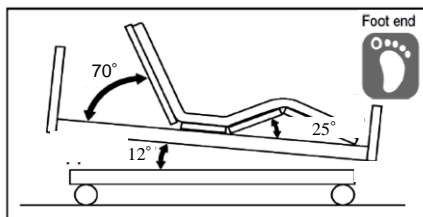
※PA-62**, PA-64**



- The head end of the bed can be raised.
The angle can be adjusted electrically up to 12°.

Chair position

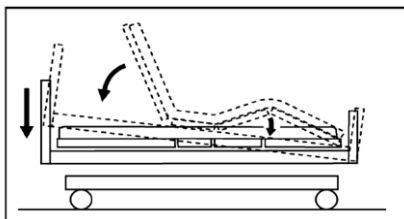
※PA-62**, PA-64**



- As shown in the picture on the left, a near seated posture (chair position) can be created.
- The back section base and knee section base move in conjunction until the angle of the back section base reaches 70° and that of the knee section base reaches 25°. The bed then inclines and the head end base frame reaches 12°.

Flat function

※PA-62**, PA-64**



- The angle of the back section base and knee section base and inclination angle of the bed can be adjusted to 0° (flat).

■ Pause function

- To ensure safety, when lowering the bed, when the bed reaches the set position (position at which the gap between the side-rail and floor becomes small^(Note)), operation stops. When the DOWN button is pressed again, the bed is lowered to its minimum height.
Note: The gap between the lowered side-rail and floor is 120 mm or less.



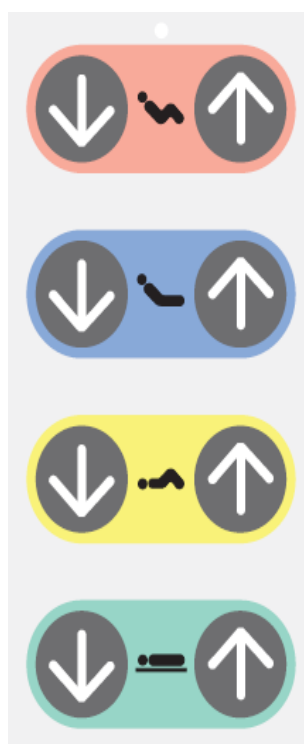
- If the bed is operated below the set position or using the Trendelenburg(TR) / Reverse Trendelenburg(RTR) adjustment button on the nurse control panel or the side-rail integrated panel, the bed is lowered all the way down to the minimum position without stopping.

2. Handheld controller (PA-6*2*, PA-6*4* type)

WARNING

- Do not allow the bed to be operated by a child aged 12 or under, or someone deemed incapable of comprehending the operation of the bed. If a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as persons with dementia) operates the handheld controller by themselves, there is a risk of unexpected injury such as the body getting caught in the bed by accident. If such person can come into contact with the handheld controller, unplug the power plug or switch the handheld controller lock function ON in order to prevent accidents caused by incorrect operation.

- The angle of the back section base, the angle of the knee section base and the bed height can be smoothly adjusted with no increments by using the handheld controller. Pressing the button adjusts the bed, and releasing the button stops adjustment, allowing you to adjust the bed to the desired position. Press the [↑] to raise the desired section and press [↓] button to lower the desired section.



Auto contour button

- The back and knee section base angle can be adjusted simultaneously.

Back raise adjustment buttons

- The angle of the back section base can be adjusted.

Knee raise adjustment buttons

- The angle of the knee section base can be adjusted.

Hi-lo adjustment buttons

- The bed height can be adjusted.



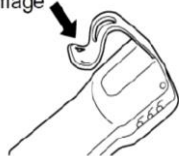
- Pressing two or more buttons simultaneously stops the adjustment. If you stop the adjustment by pressing two or more buttons, remove your hands from all buttons and then perform the adjustment again.

- Store the handheld controller in the handheld controller storage position inside the bed side-rail.

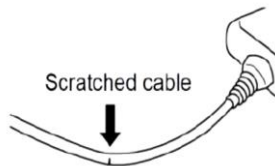
CAUTION

- Do not drop the handheld controller or pull the cable. The handheld controller may get damaged or deformed, causing it to operate incorrectly. Request repair (or replacement) of a damaged handheld controller, if necessary.

Hook damage



Scratched cable

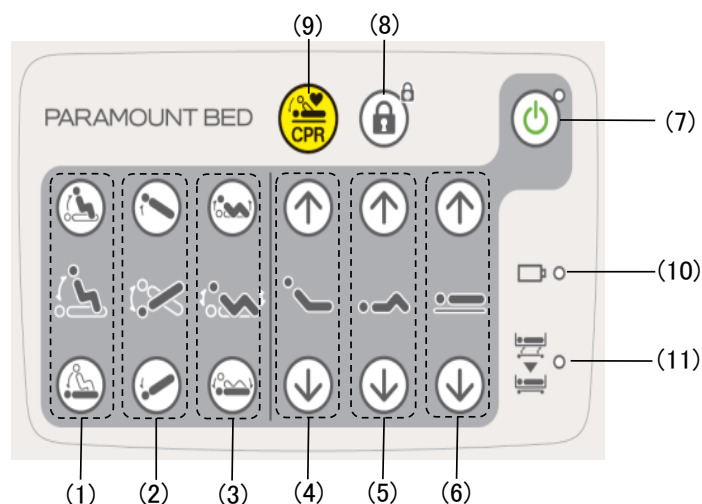


- The handheld controller must be properly set in the storage position or hung the side-rail using one hook with the buttons facing out. Otherwise, when the bed or side-rail is operated, buttons on the handheld controller could be pushed and the bed could be operated unexpectedly, causing damage to the handheld controller.

3. Nurse control panel (PA-6*2*, PA-6*4* type)

WARNING

- Do not allow persons other than doctors and nurses to operate the nurse control panel. There is a risk of injury due to incorrect operation.
- The nurse control panel includes switches for the following bed operations that are performed by doctors and nurses.



- (1) Chair position / Flat position buttons
The bed position is moved into Chair position or Flat position.
- (2) Trendelenburg / Reverse trendelenburg (TR / RTR) adjustment buttons
The inclination angle of the entire bed can be adjusted.
- (3) Auto contour buttons
The back and knee section base angle can be adjusted simultaneously.
- (4) Back raise adjustment buttons
The back section base angle can be adjusted.
- (5) Knee raise adjustment buttons
The knee section base angle can be adjusted.
- (6) Hi-lo adjustment buttons
The bed height can be adjusted.



- When the TR/RTR button is selected with the head end raised and the DOWN button is pressed, the movement stops when the bed becomes flat. To incline the bed further, press the DOWN button again.
- When the TR/RTR button is selected with the head end lowered and the UP button is pressed, the movement stops when the bed becomes flat. To incline the bed further, press the UP button again.
- TR/RTR, Chair/Flat position function can only be operated on the nurse control panel and the side-rail integrated panel.

6 OPERATION PROCEDURES



(7) Start button

Press the button to operate the nurse control panel.

The lamp next to the button lights indicating the nurse control panel can be used.



(8) Lock button

Press the button to switch the handheld controller and the patient control panel lock function ON or OFF. If the lamp next to the button lights up, it indicates that the handheld controller and the patient control panel lock function is ON.



(9) Electric CPR button

Hold down the button for 2 seconds to move the back and knee section bases and inclination bed to flat.



● After the Start button is pressed and the last button has been used, the nurse control panel can be operated for another 30 seconds. After 30 seconds, it goes into "Sleep mode" and the lamp goes out.

● During "Sleep mode" all buttons (except Electric CPR button and Lock button) cannot be operated.

● Pressing two or more buttons simultaneously stops adjustment. If you stop adjustment by pressing two or more buttons, remove your hands from all buttons and then perform adjustment again.



(10) Battery indicator

- Green light : Battery is charged.
- Green flashing : Battery is being charged.
- OFF : Weak battery, need to charge.



(11) Low height indicator

- OFF : Bed height is at the lowest position.
- Orange : Bed height is not at the lowest position.

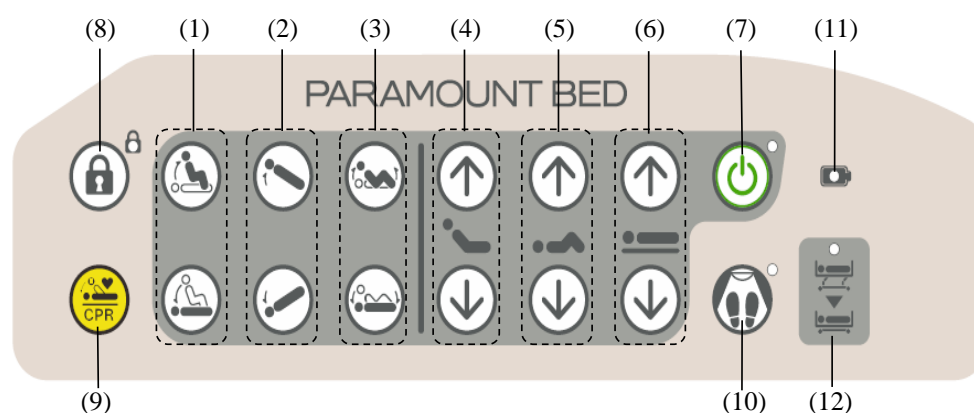
4. Side-rail integrated panel (PA-6*1*, PA-6*3* type)

WARNING

● Do not allow persons other than doctors and nurses to operate the side-rail integrated panel. There is a risk of injury due to incorrect operation.

● The side-rail integrated panel includes switches for the following bed operations that are performed by doctors and nurses.

● The side-rail integrated panel is available in both side-rails near to the headboard, on the right and left side.



(1) Chair position / Flat position buttons

The bed position is moved into Chair position or Flat position.



(2) Trendelenburg / Reverse Trendelenburg (TR / RTR) adjustment buttons

The inclination angle of the entire bed can be adjusted.



(3) Auto contour buttons

The back and knee section base angle can be adjusted simultaneously.



(4) Back raise adjustment buttons

The back section base angle can be adjusted.



(5) Knee raise adjustment buttons

The knee section base angle can be adjusted.



(6) Hi-lo adjustment buttons

The bed height can be adjusted.



● When the TR/RTR button is selected with the head end raised and the DOWN button is pressed, the movement stops when the bed becomes flat. To incline the bed further, press the DOWN button again.

● When the TR/RTR button is selected with the head end lowered and the UP button is pressed, the movement stops when the bed becomes flat. To incline the bed further, press the UP button again.

● TR/RTR, Chair/Flat position function can only be operated on the nurse control panel and the side-rail integrated panel.

6 OPERATION PROCEDURES



(7) Start button

Press the button to operate the side-rail integrated panel.
The lamp next to the button lights indicating the side-rail integrated panel can be used.



(8) Lock button

Press the button to switch the handheld controller and the patient control panel lock function ON or OFF. If the lamp next to the button lights up, it indicates that the handheld controller and the patient control panel lock function is ON.



(9) Electric CPR button

Hold down the button for 2 seconds to move the back and knee section bases and inclination bed to flat.



(10) Foot light button

Press the button to light up the foot light.



- After the Start button is pressed and the last button has been used, the side-rail integrated panel can be operated for another 30 seconds. After 30 seconds, it goes into "Sleep mode" and the lamp goes out.
- During "Sleep mode" all buttons (except Electric CPR button, Lock button and Foot light button) cannot be operated.
- Pressing two or more buttons simultaneously stops adjustment. If you stop adjustment by pressing two or more buttons, remove your hands from all buttons and then perform adjustment again.



(11) Battery indicator

- Green light : Battery is charged.
- Green flashing : Battery is being charged.
- OFF : Weak battery, need to charge.



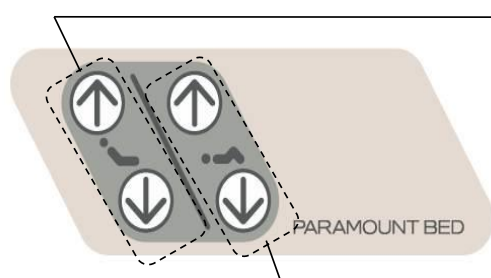
(12) Low height indicator

- OFF : Bed height is at the lowest position.
- Orange : Bed height is not at the lowest position.

5. Patient control panel (PA-6*1*, PA-6*3* type)

WARNING

- Do not allow the bed to be operated by a child aged 12 or under, or someone deemed incapable of comprehending the operation of the bed. If a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as persons with dementia) operates the patient control panel by themselves, there is a risk of unexpected injury such as the body getting caught in the bed by accident. If such person can come into contact with the patient control panel, unplug the power plug or switch the patient control panel lock function ON in order to prevent accidents caused by incorrect operation.
- The patient control panel is available in both side-rails near to the headboard, on the right and left side.
- The angle of the back section base and the knee section base can be smoothly adjusted with no increments by using the patient control panel.
Pressing the button adjusts the bed, and releasing the button stops adjustment, allowing you to adjust the bed to the desired position. Press the [↑] to raise the desired section and press [↓] button to lower the desired section.



Back raise adjustment buttons

- The back section base angle can be adjusted.

Knee raise adjustment buttons

- The knee section base angle can be adjusted.



- Pressing two or more buttons simultaneously stops adjustment. If you stop adjustment by pressing two or more buttons, remove your hands from all buttons and then perform adjustment again.

6 OPERATION PROCEDURES

6. Emergency CPR (back-lowering) function

WARNING

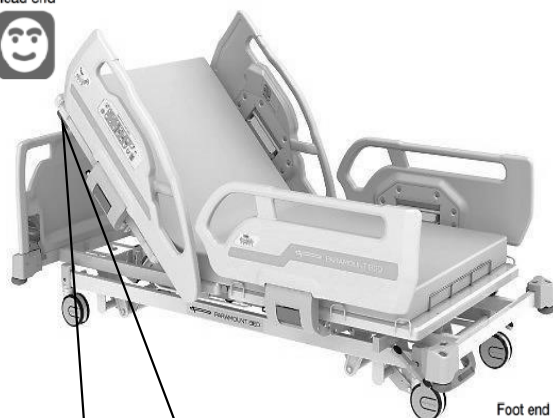
- During the emergency CPR operation, make sure that the patient's and/or user's head, arms, feet or other parts have not entered the gap between the back section base and the frame. There is a risk of getting caught, resulting in injury.

CAUTION

- Do not stop the back-lowering operation halfway through. This may cause malfunction of the bed.
- Do not use the emergency CPR lever to raise back section base.
- Do not operate the bed while holding on to the emergency CPR lever.

- In case of an emergency or a power failure, the raised back section base can be quickly returned to flat status.

Head end



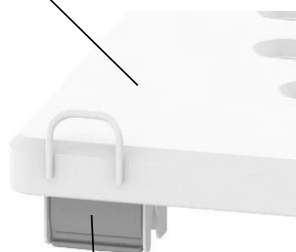
Foot end



<Emergency CPR procedure>

- ① Place one hand on the side of the back section base and pull the emergency CPR lever. Levers are located at both sides of the bed under the back section base and either lever can be used.
- ② Keep pulling the lever until the back section base returns to flat status.

Back section base



Emergency CPR lever



- Depending on the patient's weight, the back section base may not be lowered. In such a case, lightly push down the back section base.

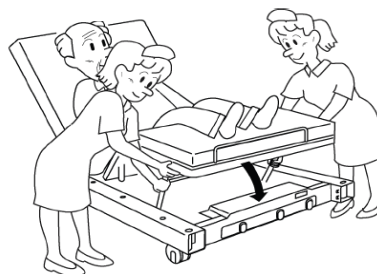
<Operation after emergency CPR>

Back-raising and back-lowering can be operated using the buttons on the handheld controller, the nurse control panel, the side-rail integrated panel and the patient control panel in power on status.

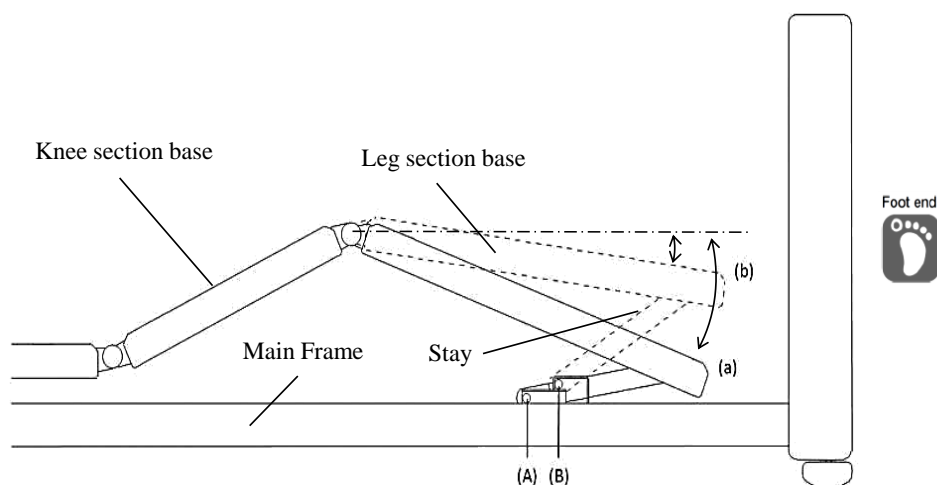
7. Adjusting the angle of the leg section base

CAUTION

- The angle of the leg section base must be adjusted by at least two persons from both sides of the bed. If only one person attempts to adjust the angle, the person may get caught between the leg section base and main frame, resulting in injury.



- The angle of the leg section base can be manually adjusted in two levels.
- Normally, the leg section base comes to the position (b) when the knee section base is raised.
- Adjustment to the position (a) should be performed when the knee section base is raised.
- When adjusting to the position (a), apply one hand to the stay, hold the end of the leg section base with the other hand, and lift a little. Then, lower the leg section base so that the tip of stay enters the position (A).
- When adjusting to the position (b), hold the end of the leg section base and pull it up, lift the end of the stay up. When the end of the stay comes to the position (B), lower the leg section base slowly.



* The angle of Position (a) : 18 deg.
The angle of Position (b) : 8 deg.

6 OPERATION PROCEDURES

8. Casters

⚠ WARNING

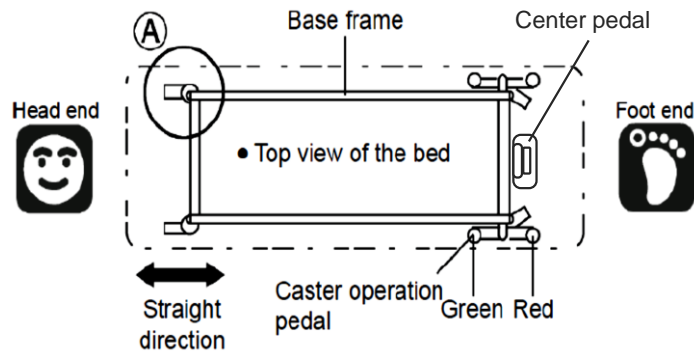
- Lock the casters at all times except when moving the bed. The bed may move when a patient gets into or out of the bed, resulting in an unexpected injury.

⚠ CAUTION

- Do not attempt to forcibly move the bed when the casters are locked (fixed), as doing so will cause malfunctions.

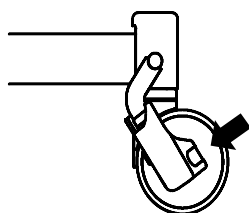
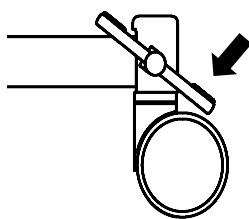
<Total locking system>

- The casters can be set to either of the positions below by operating the caster operation pedal on the both side of the foot end or the center pedal on the foot end.



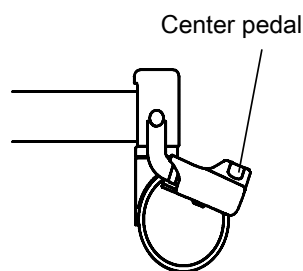
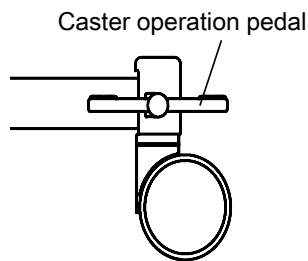
① Locking the four wheels (Lock position)

Depress the red pedal or the center pedal to lock swiveling and rotation of the four wheels.



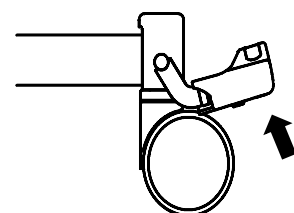
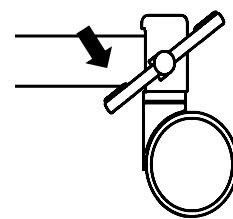
② Unlocking the four wheels (Free position)

Returning the pedal to the horizontal (middle) position unlocks the four wheels, allowing them to swivel and rotate.



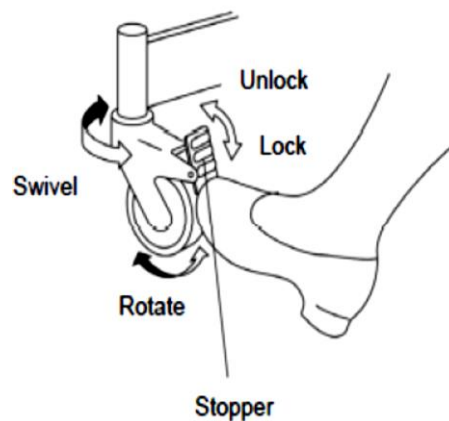
③ Straight-line movement (Steering position)

Depress the green pedal or lift up the center pedal to lock swiveling of the caster (A) (one wheel only) in a straight forward direction. It helps the bed to be moved straight forward easier.



<Individual locking system>

- Use the stopper to lock or unlock the casters.
- Stoppers are on four casters on each corners of the bed. When locking, be sure to lock all casters.
- Depressing the stopper locks the swiveling and rotation of the caster.
- Prior to locking, be sure that the caster is not out of the bed frame.
- To unlock, press the upper part of the stopper with the toe.

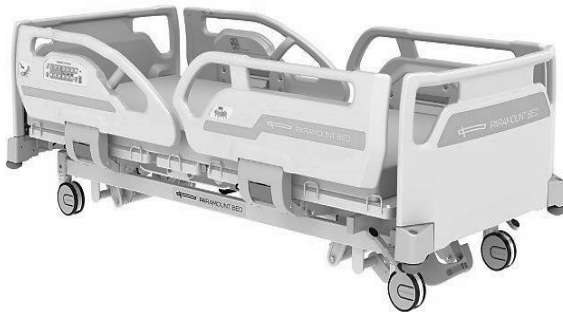


- Inspect the caster regularly. Depending on the frequency of use and the environment, caster will exhibit wear and deterioration. (High-temperature and high-humidity condition may accelerate the deterioration.)

6 OPERATION PROCEDURES

9. Bed side-rails

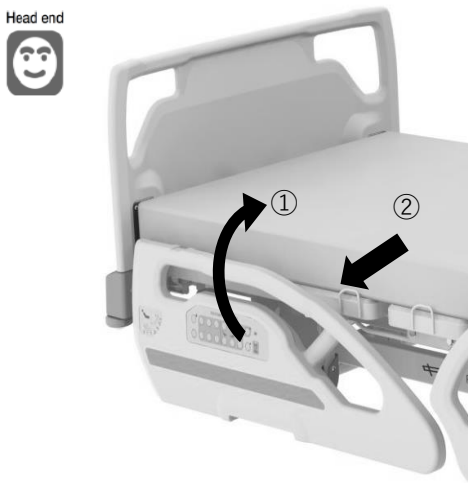
- There are a total of four side-rails, two side-rails on the left and right, respectively.
- Side-rails prevent the patient from falling off the bed.
- All the side-rails are provided with shock absorber.



Side-rail position when it is raised.

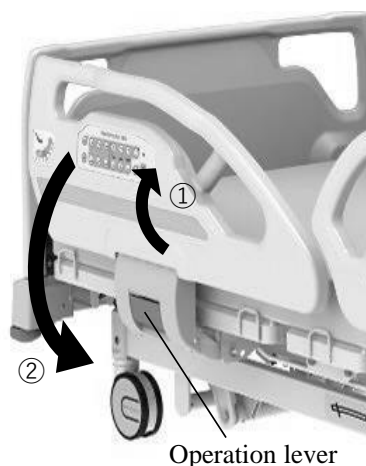


Side-rail position when it is lowered.



[Raising the side-rails]

- ① Lift the side-rail and push in until it clicks into place.
- ② Pull the side-rail toward you to make sure that the side-rail is locked.



[Lowering the side-rails]

- ① Use one hand to hold the grip of the side-rail and push it.
- ② Use the other hand to pull the operation lever toward you with pushing the side-rail to opposite direction and, while supporting the side-rail, lower the side-rail until it stops.



- The side-rails have a Anti-tampering Lock Feature that keeps the patient safely within bed by preventing the side-rails lock from being released when the patient is leaning against the side-rail. This prevents the patient from falling over when he is attempting to lower the side-rail by himself.

WARNING

- Be careful not to allow any part of the body (especially the head or neck) to enter the gap between the side-rail and the mattress base or the mattress. When the head or neck enters the gap, the patient might not be able to withdraw, and there is a risk of injury.
- Be especially careful to check patients who might act in unexpected ways or cannot maintain their posture independently.
- Do not adjust the side-rails from inside the bed. The side-rails may drop suddenly and there is a risk of injury caused by a patient falling off the bed.
- Do not let patient lean against the side-rail while it is raised. The patient may lose a balance and there is a risk of injury caused by a patient falling off the bed.
- Do not place legs on the side-rail while it is lowered. The bed could turn over, resulting injury.
- When raising side-rails, make sure that the side-rails are locked. If the side-rails are not completely locked, they may move unexpectedly, resulting in injury.
- Take care to prevent the intravenous tubes or the drain tubes from getting caught. When operating the side-rails, tubes could get caught between the side-rail and mattress and be damaged, resulting in injury.
- When performing the height adjustment or inclination angle adjustment with the side-rail lowered, do not place legs under the side-rail. There is a risk of getting caught, resulting in injury.
- When operating the side-rails, make sure that the patient's hands or feet have not entered the gap between the side-rail and mattress base. When the hands or feet enter the gap, the patient could get caught in the gap, resulting in injury.
- When operating the side-rail with the back section base raised, operate the side-rail with caution. Depending on the back section base angle, the side-rails may move unexpectedly and there is a risk of injury.

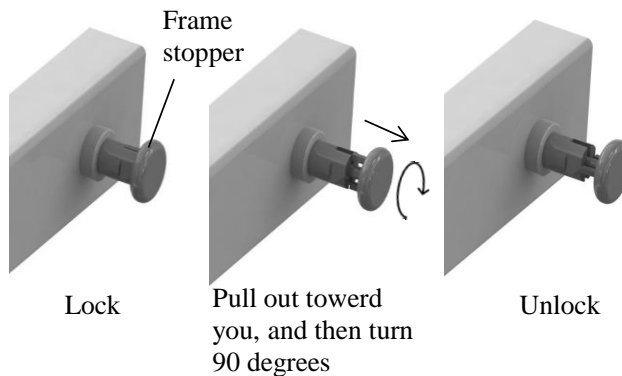
6 OPERATION PROCEDURES

10. Extension frame

WARNING

- When using the extension frame, Be sure to use a suitable extension mattress described below. If an unsuitable mattress is used, patients could get caught between the mattress and side rail and get injured. Unsuitable mattresses exert a burden on the bed and may induce a failure.
- Do not place hand, foot or knee on the edge of the extension mattress.
Since there is no support, you may lose a balance and there is a risk of injury caused by a fall.

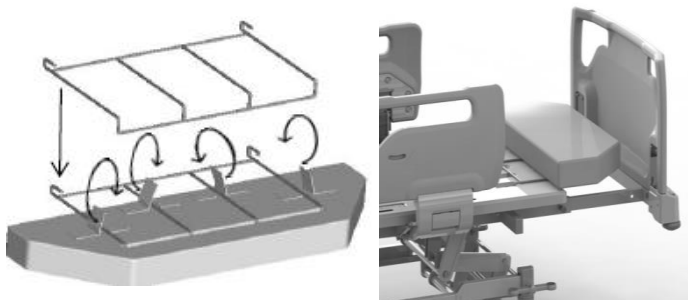
■ The bed can be extended for tall users by pulling out the extension frame and adding an extension mattress.



1. Pull the frame stoppers on the left and right side of the bed toward you, turning approx. 90° to unlock.



2. Hold the foot board and foot end, and pull toward you all the way.
Return the frame stoppers to the lock position.
Lightly push the extension frame to make sure that it is properly locked.



3. Set the mattress stopper and place the extension mattress.
This product is made for tall users who use an extension frame. This product should be used in combination with a suitable bed / mattress.

Thickness	Extension mattress	
	For PA-61**, PA-62**	For PA-63**, PA-64**
90mm	PE-6330	PE-6320
100mm	PE-6331	PE-6321
120mm	PE-6332	PE-6322
150mm	PE-6333	PE-6323

CAUTION

- Properly lock the frame stopper to eliminate the gap between the bed and frame stopper. The extension frame could stick out unexpectedly during bed operation or transportation, resulting in injury.
- Do not apply more than a 60 kg load to the extension frame. This may cause damage and deformation of the bed.

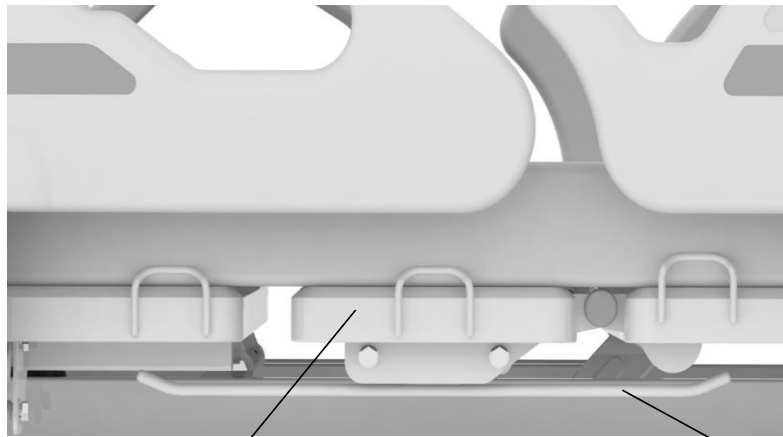
6 OPERATION PROCEDURES

11. Accessory rails

CAUTION

● Do not apply more than 3kg load to the accessory rail. This may caught damage and deformation of the accessory rail.

■ Accessory rails are provided on both sides on the bottom of the hip section base. These rails can be used for hanging the urine bags, etc.



Hip section base

Accessory rail



- Commercially available urine bags may have a different attachment method or dimensions, depending on the manufactures; use only those bags that are authorized for use with the bed.
- When attaching a urine bag, take care to prevent the bag or tube from getting caught when operating the bed or side-rails.

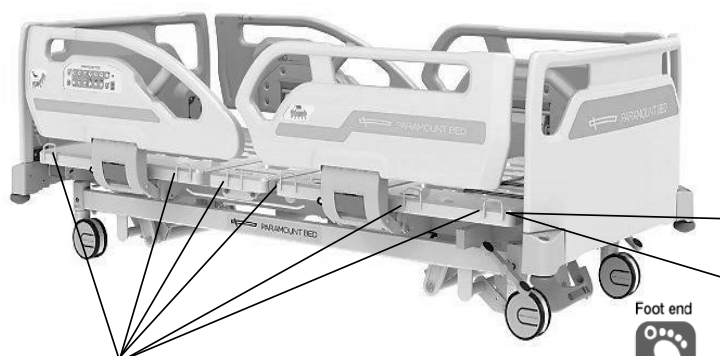
12. Restraint belt mounting brackets

WARNING

- Do not perform the bed operation such as raising the back or knee section base with a restraint belt attached to the main frame. The patient's body may be squeezed resulting in injury or the bed may get damaged or deformed.
- When bedmaking or getting into/out the bed, be careful not to insert fingers or any body parts in the mounting brackets. It may result in injury.

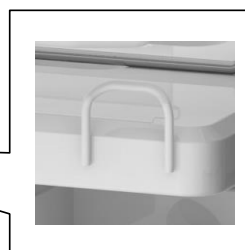
■ When using restraint belt, attach the restraint belt to the mounting brackets below;

Head end



Restraint belt mounting brackets

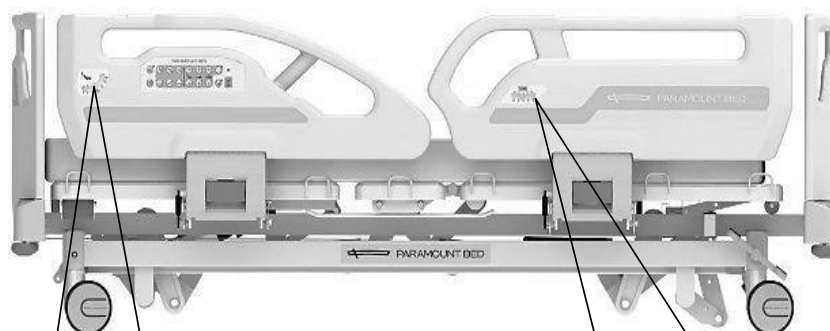
Foot end



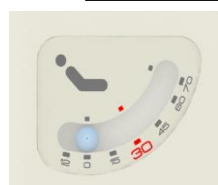
- These mounting brackets also can be used for hanging the urine bags.

13. Angle indicators

Head end



Foot end



Angle indicator for Back rise



Angle indicator for Trendelenburg
and Reverse Trendelenburg



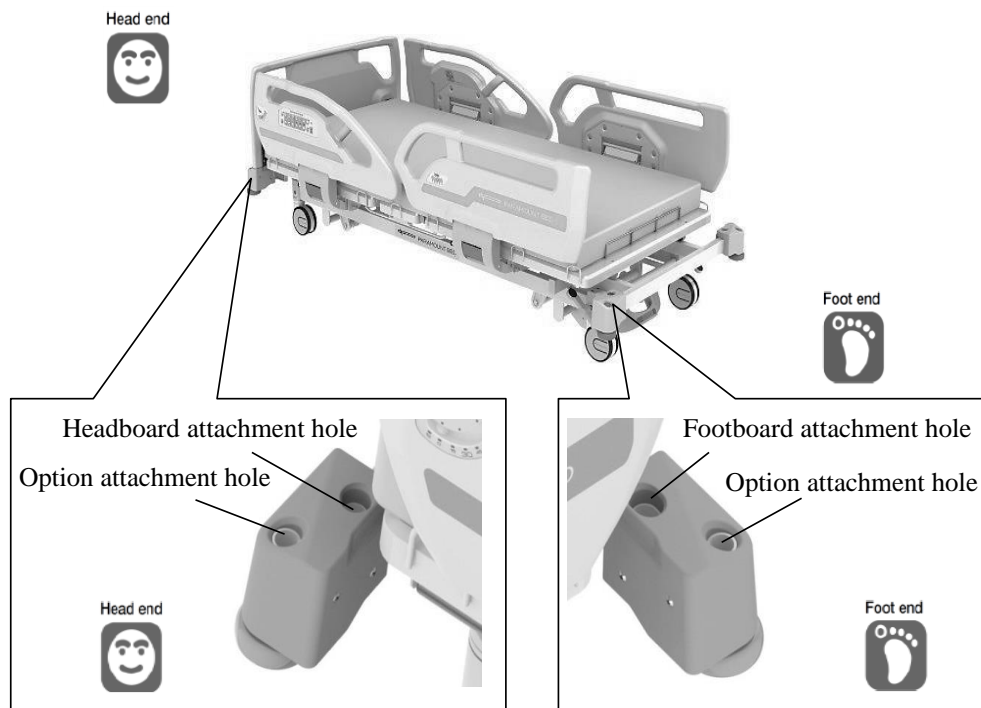
- There are angle indicators for the checking back raise angle at the head side of side-rails, and for the checking tilt angle at the foot side of side-rails (PA-62**, PA-64**). Please use only as a guide.

6 OPERATION PROCEDURES

14. Option attachment holes

- Option attachment holes are at the four corners of the bed.

It can be installed IV pole, oxygen cylinder holder and foot spacer.

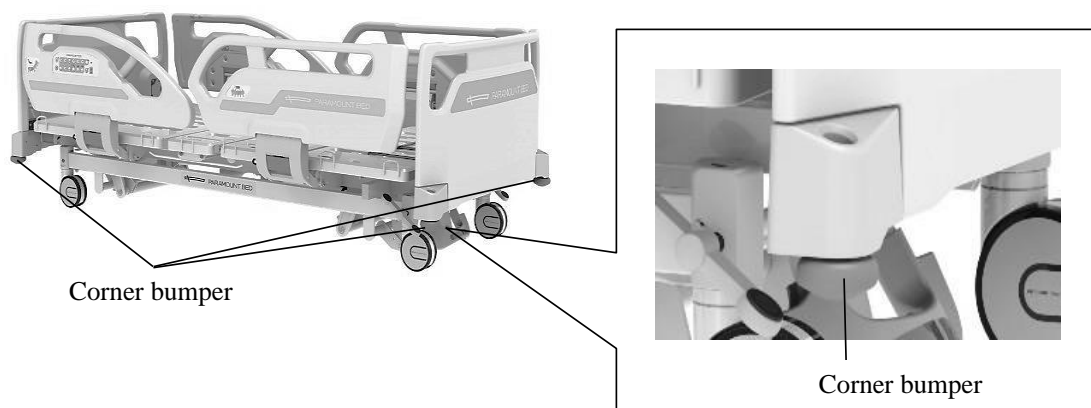


- During tilt angle adjustment, pay attention the board and option attachment holes will become tilted at an angle.

15. Corner bumpers

- Corner bumpers are at the four corners of the bed.

If the bed bumps the walls or equipments of the hospital when moving the bed, the corner bumper can reduce the impact of the collision.



16. Battery unit (PA-62**, PA-64** type)

CAUTION

- Incorrect operation in disregard of the details given below will result in personal injury or damage due to leakage, fire, explosion, electric shock, or rupturing.
 - Do not disassemble the battery case or built-in battery.
 - Do not incinerate the battery unit.
 - Do not recharge the battery other than with suitable control box of the bed.
 - Do not use the battery unit with equipment other than the suitable bed.
 - Do not subject the battery unit to impact.
 - Do not recharge the battery unit or operate the bed with the bed turned upside down.
- When the battery reaches the end of its life span, change it immediately. Continual usage of expired battery may cause leakage or fire. Furthermore, please check time to relace as below;
 - A life of the battery span about 2 or 3 years. The battery indicator flash or turn off the light even the battery charging for more than 12 hours, please change the battery.
 - When you change the battery, please contact Paramount Bed or your distributor.

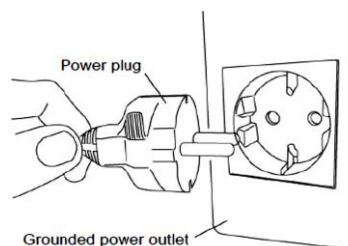
- The battery is an auxiliary power supply for operating an electrically operated bed when not connected to a power outlet.

[Operating the bed on battery power]

- The bed is powered by the battery when the power plug is not connected to the power outlet or during a power failure.

[Recharging]

- Recharging starts as soon as the bed power plug in plugged into the power outlet.



- The battery should be charged (for more than 24 hours) immediately after purchase.

[Battery life]

- The battery is not designed to be recharged after being totally discharged. Repeatedly recharging the battery from zero charge will reduce its operating life. Always recharge the battery after operating the bed on battery power.
- If the bed is equipped with a battery, and the bed is stored for long periods of time, the battery must be full charged every 3 months. It may cause damage to the battery or discrease it life.



- The battery life will vary depending on the usage frequency, usage conditions and storage conditions. Regardless of whether the battery is used, its life will start to drop off after a few years.

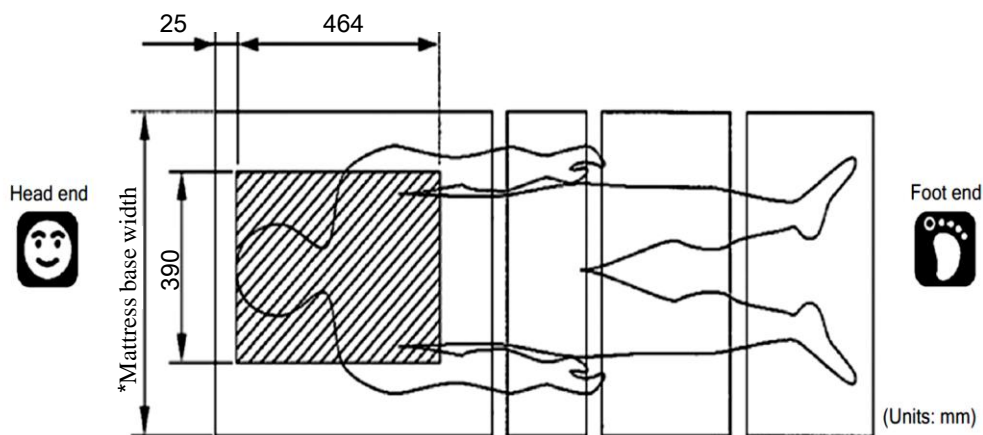
6 OPERATION PROCEDURES

17. X-ray cassette tray (PA-6***X type)

CAUTION

- Always disconnect the power plug for the bed from the power outlet when using X-ray apparatus. Using the X-ray apparatus without disconnecting the power plug may cause operational failure or malfunction.
- When placing a cassette to the cassette tray, be careful not to let the cassette fall from the cassette tray. It may caught damage and deformation of the cassette.
- Be sure to use the specified size cassette. Failure to do so could cause the cassette to fall, possibly causing damage or deformation.

■ X-ray imaging using cassette is possible in the area shaded on the figure below.



Suitable cassette size

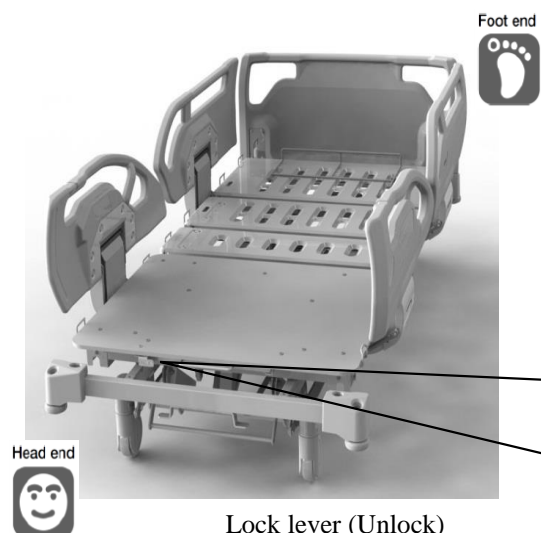
- | | |
|-------------|--------------------------|
| ● Size | 14x17" (388mm x 464mm) |
| | 14x14" (388mm x 388mm) |
| ● Thickness | 15mm or less. |

17. X-ray cassette tray (PA-6***X type)

■ Setting a Cassette.

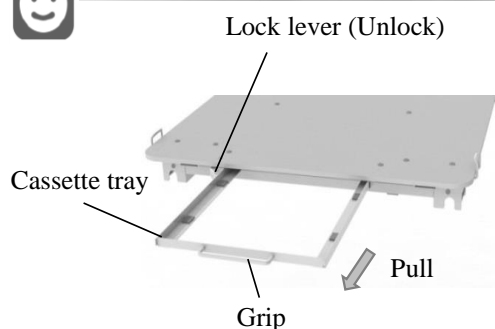
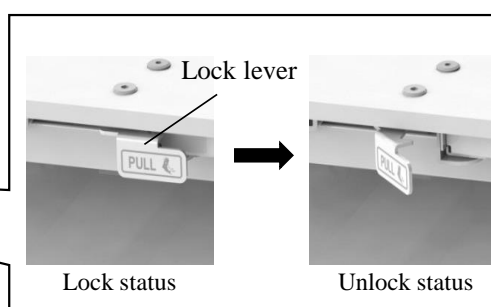
Set a cassette while the back section base is in horizontal status.

X-ray radiography is not possible while in inclination (Trendelenburg).

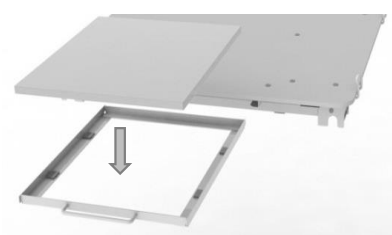


① Detach the headboard.

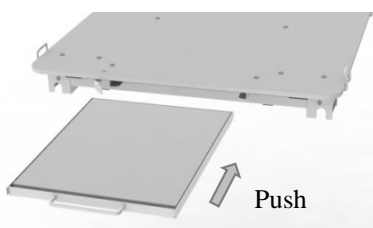
② Pull the lock lever toward you to unlock it.



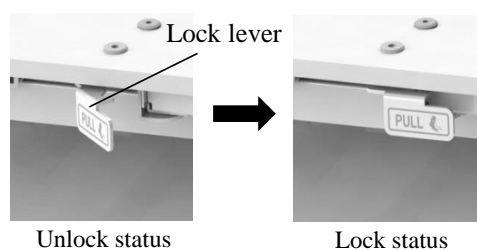
③ Hold the grip and pull the cassette tray all the way out.



④ Set a cassette in the cassette tray.



⑤ Hold the grip and slowly insert the cassette tray all the way to the rear.

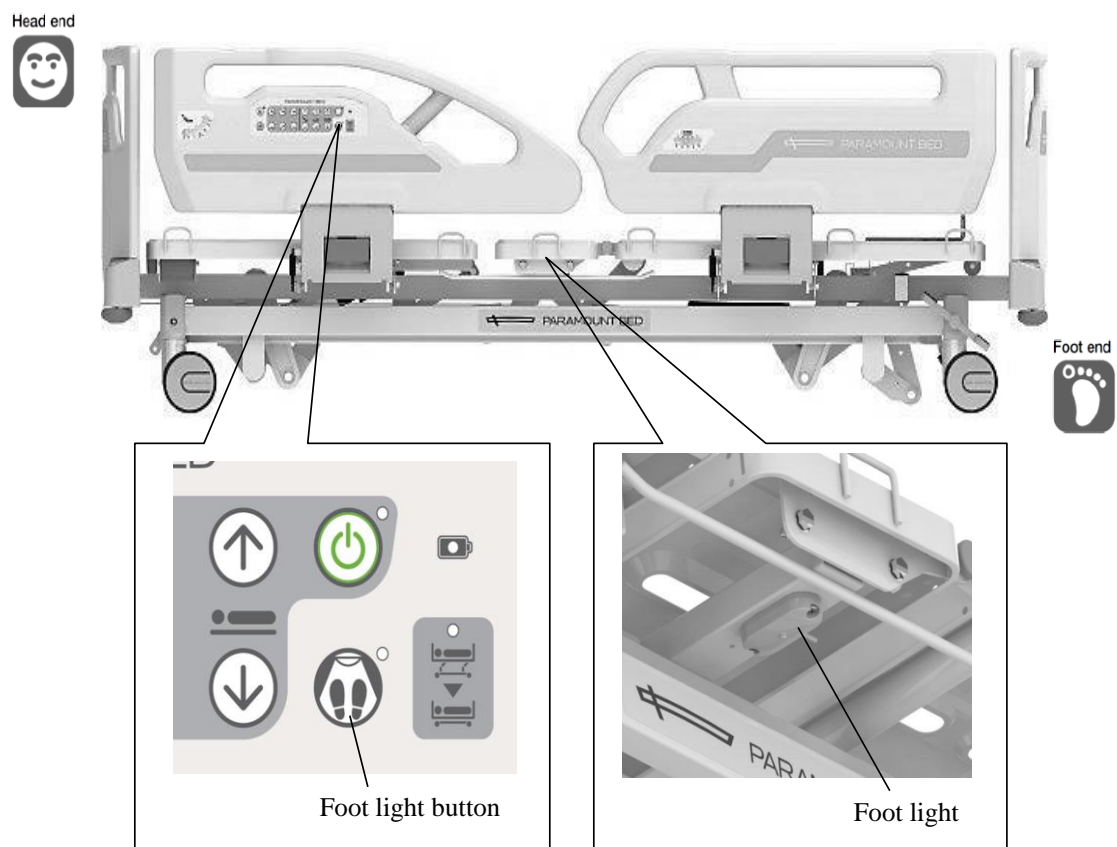


⑥ Push the lock lever until it locks into place.

6 OPERATION PROCEDURES

18. Foot light (Optional)

- The foot lights are located on each side of the bed under the hip section base.
- In case of getting down from the bed at night, the foot lights can be used for lighting up the patient's feet.
- Foot lights are lit up when press the foot light button on the side-rail integrated panel.



7 MATTRESS (OPTIONAL)

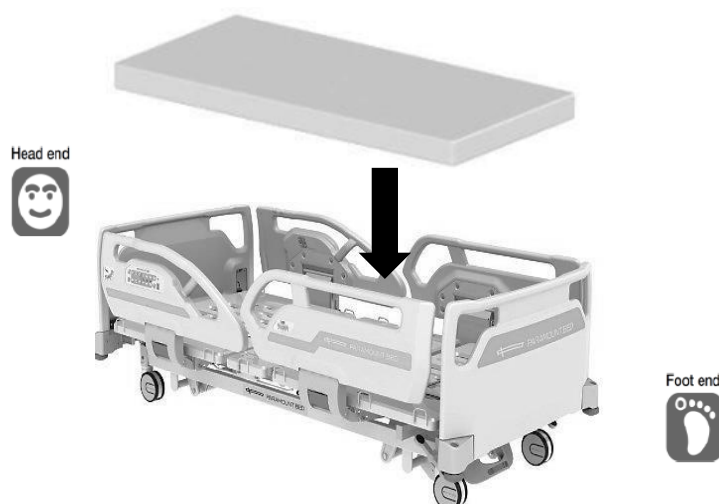
WARNING

- Do not use the bed when the mattress is not placed. The body part (fingers of hands or legs) may get caught in the gap between the mattress bases, in air holes on the mattress base, resulting in injury.
- Be sure to use a mattress of dimensions specified by Paramount Bed, described below. If an unsuitable mattress is used, patients could get caught between the mattress and side rail and get injured. Unsuitable mattresses exert a burden on the bed and may induce a failure.

■ Paramount Bed mattresses with the following dimensions are suitable.

Regular mattress dimension (mm)

Width	Length	Thickness
830 (for PA-61**, PA-62**)	1,910 to 2,000	90 to 150
910 (for PA-63**, PA-64**)	1,910 to 2,000	90 to 150



■ Compatible Mattresses - Paramount Bed.

EVERFIT LIGHT:

Model Codes: PE-9001 / PE-9101 / PE-9011 / PE-9111 / PE-9002 / PE-9102 / PE-9012 and PE-9112

RPR:

Model Codes: PE-7001 / PE-7002 / PE-7011 and PE-7012

PE-6000 Series:

Model Codes: PE-6001 / PE-6101 / PE-6002 / PE-6102 / PE-6011 / PE-6111 / PE-6012 and PE-6112

Stretch-Glide:

Model Codes: KE-791S / KE-793S



- For more informations about mattress specification and any queries, please feel free to contact Paramount Bed or your distributor.

8 OPTIONAL ACCESSORIES

1. Recommended accessories table

WARNING

- Use accessories after confirming that the combination of accessories is correct. Using the bed with the wrong combination of accessories could result in injury or could damage the products. The part number of each accessory is written on the safety label and on the carton box.
- Do not use accessories other than those specified in this instruction manual. This may create unintended gaps or may damage or deform the product, resulting in injury.
- Make sure that there is nothing in the option attachment holes, when mounting the accessories. If there are obstacles in the option attachment holes, you cannot mount the accessories, and the patient may fall off the bed or get caught in the gap, resulting in injury.

IV pole	KC-56A (with 2 hooks) KC-56B (with 4 hooks) EC-562
Oxygen cylinder holder (Φ155 mm)	PC-5038
Oxygen cylinder holder (Φ115 mm)	PC-5057
Lifting pole	PC-5058
Bed linen rack	PC-5060
Foot spacer	PC-5061A
Foot spacer storage	PC-5063A

※ In some countries or regions, some of the medical device or its accessories fall under the category of medical devices.



- Recommend accessories may differ due to specification changes or according to product combinations. For any queries, please feel free to contact Paramount Bed or your distributor.

2. IV pole (KC-56A/KC-56B/EC-562)

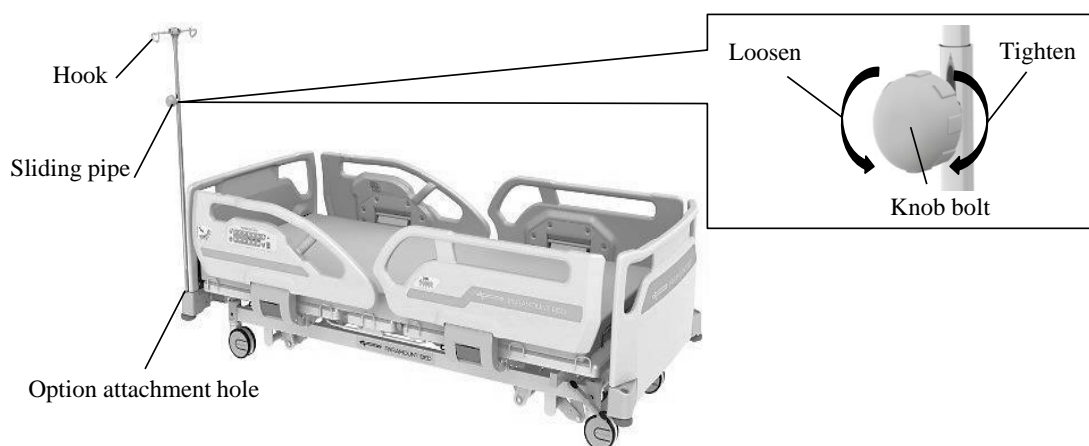
This IV pole is designed to be attached to the medical device when giving an intravenous drip to a patient.

WARNING

- Do not move the bed with holding the IV pole. The IV pole may break, resulting in an injury.
- Do not use the IV pole as a support to stand up. The IV pole may come off or break, causing an injury due to falling down.
- When using the IV pole, do not put a hand or arm between the mattress base or the headboard and the IV pole. The hand or arm may get caught and get injured.
- Each hook's load capacity is 1 kg. Do not hang an article exceeding the load capacity because it may damage the hook, resulting in an injury.
- Length adjustment of the sliding pipe should be kept within 70cm. If the sliding pipe is pulled out too much, it may come off, resulting in an injury or damage.

■ The IV pole is used for hanging intravenous drip bags and similar items.

- ① Insert the IV pole into one of the option attachment holes.
- ② Loosen the knob bolt on the IV pole, and then move the sliding pipe up and down to adjust the length.
When the pipe has been adjusted to the desired length, tighten the knob bolt to fasten the pipe.
- ③ Hang the intravenous bags or similar items on the IV pole.



● For any queries, please feel free to contact Paramount Bed or your distributor.

8 OPTIONAL ACCESSORIES

3. Oxygen cylinder holder (PC-5038)

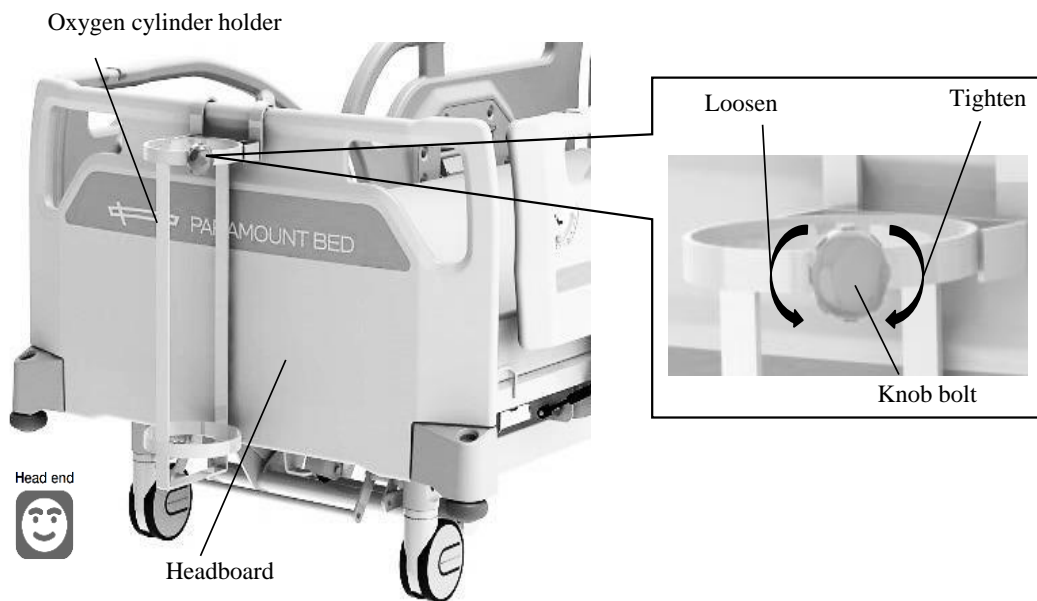
This oxygen cylinder holder is designed to be attached to the medical device as being able to use an oxygen cylinder.

WARNING

- Make sure that the knob bolt is firmly tighten. There is a risk of insufficient oxygen supply.
- When using the oxygen cylinder, take care to prevent it from coming into contact with any objects in the vicinity of the bed. There is a risk of an injury by damage of a flow meter or an oxygen cylinder if the cylinder comes into contact with another object.
- Load capacity is 15kg. Do not insert the oxygen cylinder exceeding the load capacity because it may damage the oxygen cylinder holder, resulting in injury.

■ The oxygen cylinder holder can be used by hanged on the headboard.

- ① Hang the oxygen cylinder holder on the headboard.
- ② Loosen the knob bolt on the oxygen cylinder holder, and then slowly insert the oxygen cylinder into the holder from the top.
- ③ Firmly tighten the knob bolt to fasten the oxygen cylinder.



● For any queries, please feel free to contact Paramount Bed or your distributor.

4. Oxygen cylinder holder (PC-5057)

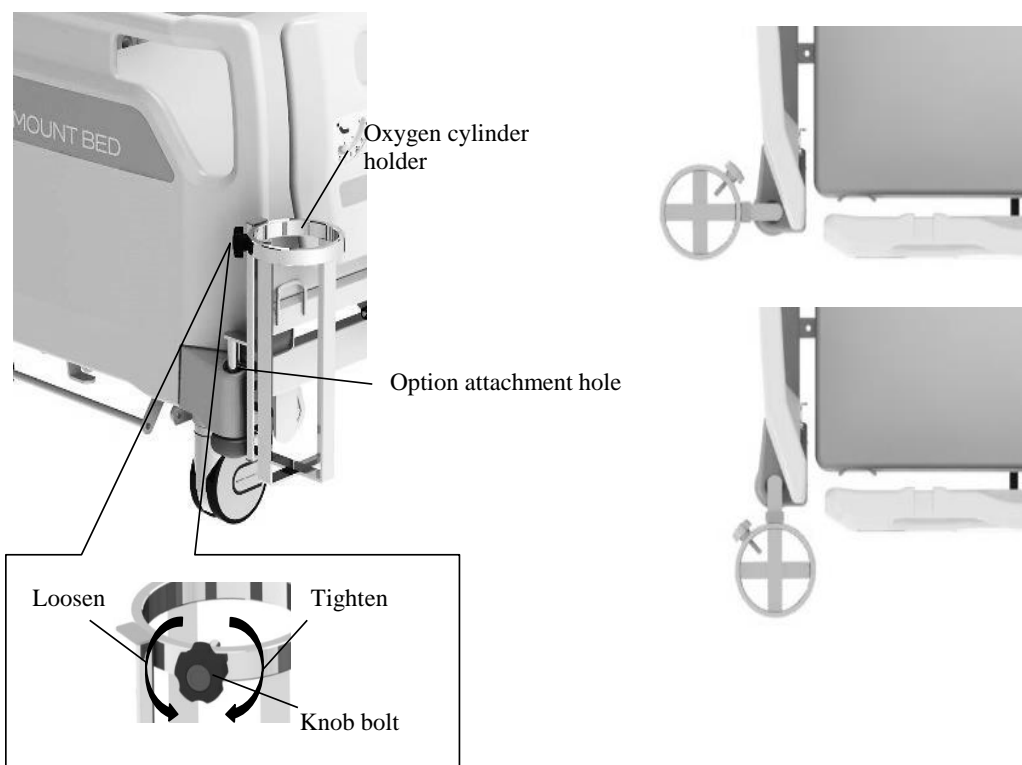
This oxygen cylinder holder is made for attaching to the medical device to use the oxygen cylinder.

WARNING

- Make sure that the knob bolt is firmly tighten. There is a risk of insufficient oxygen supply.
- When using the oxygen cylinder, take care to prevent it from coming into contact with any objects in the vicinity of the bed. There is a risk of an injury by damage of a flow meter or an oxygen cylinder if the cylinder comes into contact with another object.
- Load capacity is 15kg. Do not insert the oxygen cylinder exceeding the load capacity because it may damage the oxygen cylinder holder, resulting in injury.

■ The oxygen cylinder holder can be used by inserted into one of the option attachment holes.

- ① Insert the oxygen cylinder holder into one of the option attachment holes.
- ② The oxygen cylinder holder can be set in two positions as shown in figure. After setting, make sure that the oxygen cylinder holder does not rotate.
- ③ Loosen the knob bolt on the oxygen cylinder holder, and then slowly insert the oxygen cylinder into the holder from the top.
- ④ Firmly tighten the knob bolt to fasten the oxygen cylinder.



● For any queries, please feel free to contact Paramount Bed or your distributor.

8 OPTIONAL ACCESSORIES

5. Lifting pole (PC-5058)

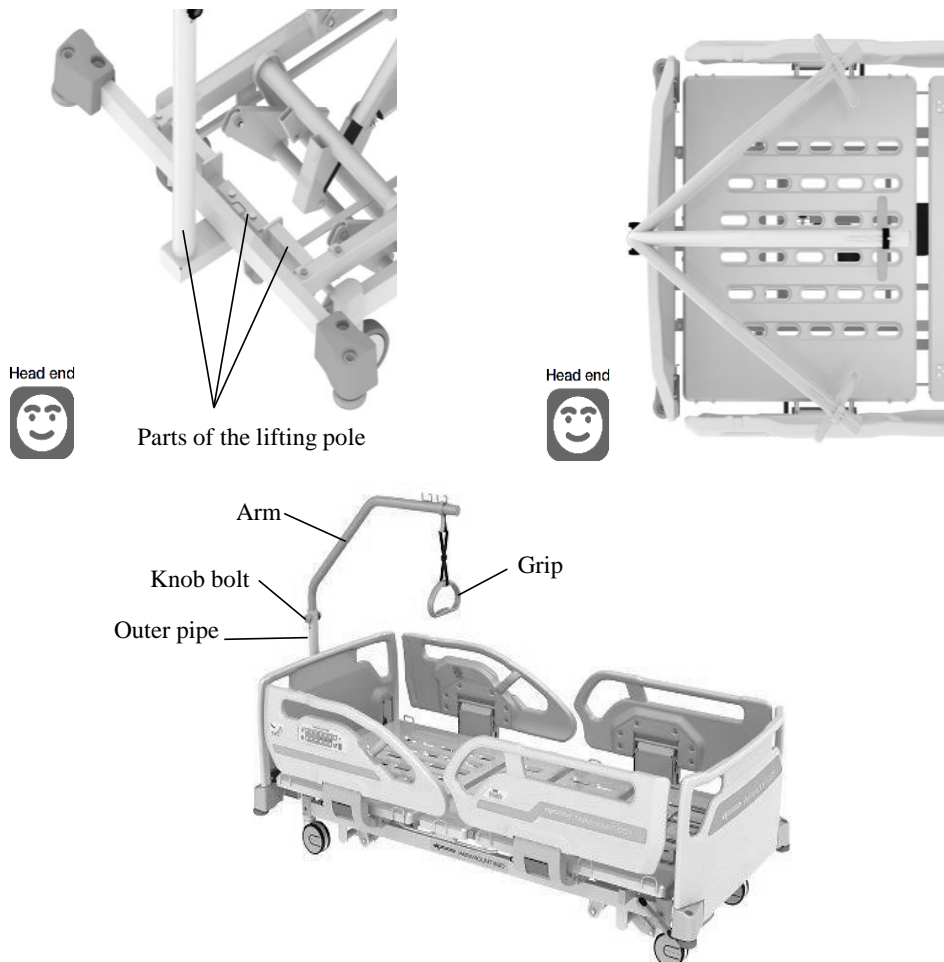
This lifting pole is designed to be attached to the bed support to raise the body from the bed by attaching to the bed or for training too.

WARNING

- Load capacity is 76kg. Do not hang an article exceeding the load capacity because it may damage the lifting pole, resulting in injury.
- During transportation, do not hang on to the lifting pole. It may tip over the bed, the patient on the bed may fall off the bed, resulting in injury.

■ The lifting pole can be used for support to raise the body from the bed by attaching to the bed. It can be used for training too.

- ① Attach the parts of the lifting pole to the bed as shown in figure.
- ② Inset the arm into the outer pipe.
- ③ Tighten the knob bolt to fasten the arm. The arm can be set in three positions as shown in figure by changing the knob bolt positions.
- ④ Pull down the grip to make sure that the lifting pole is attached firmly.



● For any queries, please feel free to contact Paramount Bed or your distributor.

8 OPTIONAL ACCESSORIES

6. Bed linen rack (PC-5060)

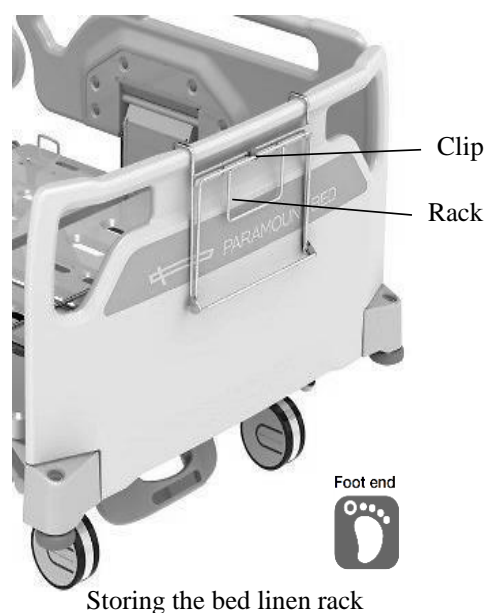
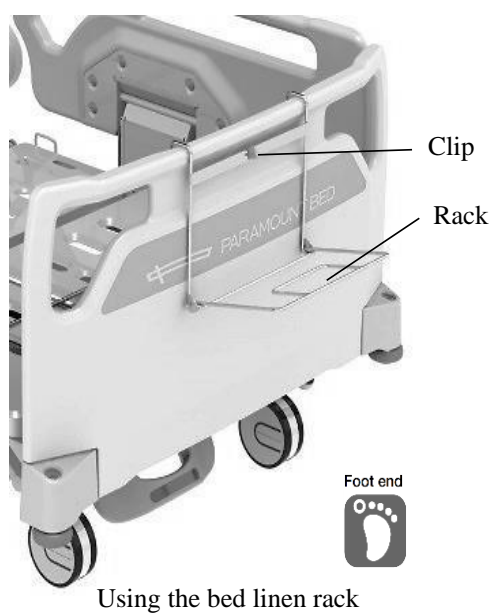
This bed linen rack is designed to be attached to the bed to set the linen temporarily when bedmaking.

CAUTION

- Load capacity is 1kg. Do not set an article exceeding the load capacity because it may cause the linen rack to be damaged or deformed.

■ The bed linen rack can be used for setting the linen temporarily when bedmaking.

- ① Hang the bed linen rack on the footboard.
- ② When using the bed linen rack, pull the rack out.
- ③ After using the bed linen rack, push the rack to the clip.



※ In some countries or regions, some of the medical device or its accessories fall under the category of medical devices.



● For any queries, please feel free to contact Paramount Bed or your distributor.

7. Foot spacer (PC-5061A)

This foot spacer is intended to be used to fill the gap between the foot board and side-rail created when using an extension frame.

WARNING

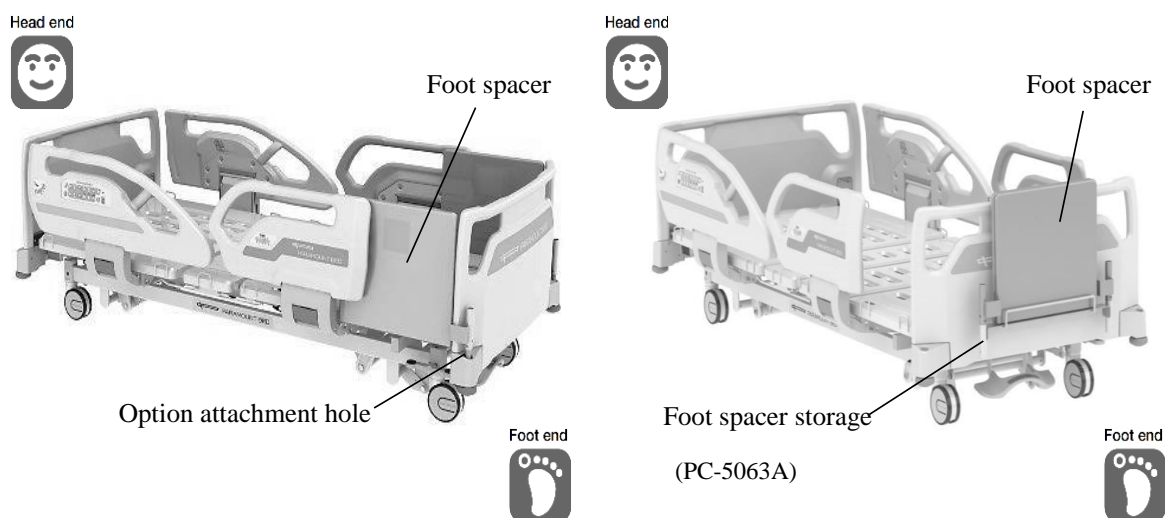
- Do not use the foot spacer as a hand rail and do not lean against it. The foot spacer may move or be deformed and there is a risk of injury caused by the patient falling off the bed or falling down.
- Be careful not to allow any part of the body (especially the head or neck) to enter a gap between the foot spacer and the side-rail or the footboard.

- The foot spacer can be used for filling in the gap between the footboard and the side-rail.

Insert the foot spacer into the option attachment hole.

The foot spacer storage (PC-5063A) can be used for storing the foot spacers.

This product is designed to store the foot spacer (PC-5061A).



- When using the extension frame function, the foot spacer cannot be used.

For foot end open side-rail type bed only.

- For any queries, please feel free to contact Paramount Bed or your distributor.

9 BEDSIDE TABLE

8. Bedside table

! WARNING

- Remove the table from bed when performing positioning operations of the bed. Otherwise, the patient may get caught between the table and bed, and may get injured.
- Do not use the table other than those specified in this instruction manual. This may create unintended gaps or may damage or deform the product, resulting in injury.

■ The bedside table is designed as a table that can support patient to have a meal and work on light duty on the bed.

Head end



Suitable bedside table

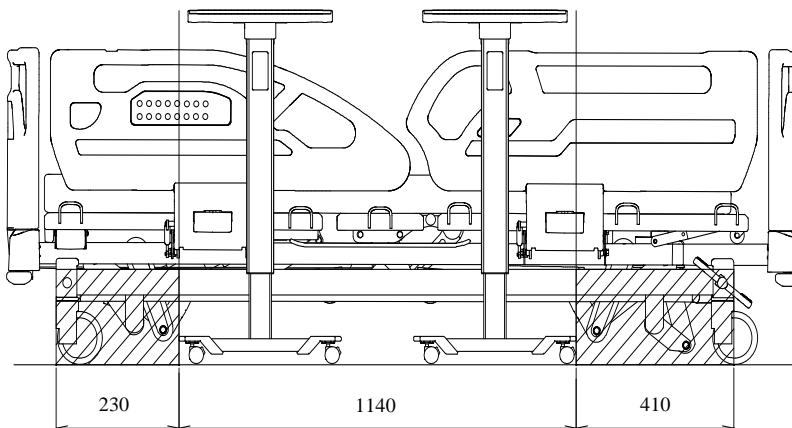
KF-282A

PF-3100A, PF-3110A

PF-3120A, PF3130A

! CAUTION

- The bedside table can be used in the area as shown in figure. Do not use the bedside table in the other area because it may damage or deform.



Note: Use the bedside table within this range.

The bedside table cannot be used in these locations due to interference with the bed.

(Unit:mm)












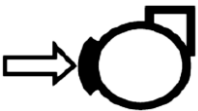
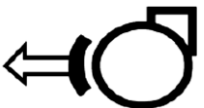








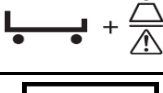


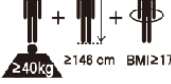
NOTE!

- For any queries, please feel free to contact Paramount Bed or your distributor.

10 PRODUCT SYMBOL DEFINITIONS

■ The symbols below are used for the product.

Symbol	Description		
	● CE mark		
	● Indoor use symbol		
	● Electrical waste		
	● Refer the instruction manual		
	● Type B applied part ● Applied parts are considered to be: Upper frame section, Controllers, Side-rails, Headboard and Footboard.		
	● AC input		
IPX4	● Protection code		
	● Manufacturer		
	● Date of manufacture		
<table border="1" data-bbox="138 1505 351 1594"><tr><td>EC</td><td>REP</td></tr></table>	EC	REP	● Authorised representative in the european community
EC	REP		
<table border="1" data-bbox="181 1621 298 1702"><tr><td>SN</td></tr></table>	SN	● Serial number	
SN			
	● Protective ground mark		
<table border="1" data-bbox="162 1874 325 1964"><tr><td>MD</td></tr></table>	MD	● Medical device (This product is a medical device or an accessory for medical device in Europe, and may be such a device in some countries and regions depending on their regulations. An accessory for medical device is required to be labeled as "Medical Device" under medical device regulations in Europe).	
MD			

Symbol	Description
	●4 casters in locked status (Lock position)
	●4 casters in unlocked status (Free position)
	●Bed transportation status (steering position)
	●Take care to prevent body part from getting caught in the moving part on the bed.
	●Take care to prevent the patient's head from getting caught in the gap between the side-rails and the bed.
	●Do not allow any part of the body to enter the gap in the side-rail and the board.
	●Do not stand on the side-rail.
	●Use the suitable mattress described in the instruction manual.
	●Safe working load
	●Maximum user weight
	●Maximum weight (Product weight + Safe working load)
	●Model number
	●Country of manufacture (Made in Indonesia)
	●The medical bed for adults

11 REGULAR INSPECTION AND DAILY MAINTENANCE

- For safety in use, inspect the product regularly, at least once a year. The product exhibits wear and deterioration according to the frequency and conditions of use. Inspect for loose parts, the operation of moving parts on the bed, and the presence of damage regularly. When an irregularity has been noticed or when a detailed inspection is desired, contact Paramount Bed or your distributor.

	Operation details	Inspection items
Bed Unit	Back raise operation (p.18 to p.26)	Proper operation can be achieved.
		There must not be any strange noises.
	Knee raise operation (p.18 to p.26)	Proper operation can be achieved.
		There must not be any strange noises.
	Hi-lo and TR/RTR operations (p.18 to p.25)	Proper operation can be achieved.
		There must not be any strange noises.
	Miscellaneous	There must not be any scratches and deformation at the mattress base, frame, or any other parts.
		There must not be any deformation, damage, or detachment of bumpers, resin parts or elastic parts.
		There must not be any peeling of labels, and the text must be legible.
Board	Board mounting condition (p.14)	The board stopper must be locked properly.
		There must not be any remarkable rattling.
Casters	Traveling	There must not be any strange noises when the bed is traveling.
		There must not be any strange vibrations when the bed is traveling.
	Caster locking operation (p.29 to p.30)	Proper operation can be achieved.
		The operation must not be unusually difficult.
		The bed must not move when the casters are locked.
		The bed must move smoothly when the lock is released.
Bed side-rail	Bed side-rail operation (p.31 to p.32)	When in steering position, swiveling of the steering caster must be locked.
		Proper operation can be achieved.
		There must not be any strange noises or remarkable rattling.
Electrical part	Visual check of electrical parts	The operation must not be unusually difficult.
		Cable must not get tangled in the bed.
		Plugs and cables must have no scratches or damage.
		There must not be any scratches and damage on the handheld controller.

■ Lubrication (if there is abnormal noise)

- Lubrication is needed if there is abnormal noise. Please feel free to contact Paramount Bed or your distributor to be lubricated.



- The water adhesion to the bed or the mattress, or moisture may cause corrosion, abnormal noise or contamination. If water adhere to the bed or the mattress, wipe off immediately.

■ Bed unit

- To clean the bed, use a cloth that has been soaked in diluted detergent and wrung out well, then wipe off any residual detergent with a cloth soaked in water and wrung out well. Finally, use a dry cloth to wipe the bed to ensure it is dry.

! WARNING

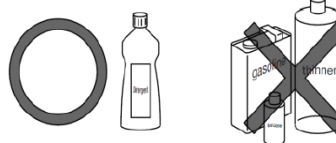
- To prevent accidents caused by incorrect operation, always unplug the power plug from the outlet before cleaning.
- Do not splash water to clean the bed. there is a risk of electric shock due to a short circuit.

- Always dilute any detergents used as specified below.

76.9% - 81.4% ethanol for disinfection
0.05% - 0.2% benzalkonium chloride (e.g. Osvan)
0.05% - 0.2% benzethonium chloride (e.g. Hiamine)
0.05% chlorhexidine gluconate (e.g. Hibitane)
0.02% - 1.0% sodium hypochlorite (e.g. Milton)

! CAUTION

- Do not use volatile cleaning fluids (such as paint thinner, benzene or gasoline) and cresol. Discoloration or deterioration could result.



- The product cannot be used with an ozone sterilizer or an autoclave sterilizer, etc.

■ Accessories

- Follow the instructions described in the instruction manual for the respective accessory.

12 TROUBLESHOOTING

- Problems may not always indicate faults. Check the following once again before requesting repair.
- If the problem persists after taking corrective actions, stop using the bed immediately, disconnect the power plug from the outlet, and contact Paramount Bed or your distributor for repair.
- Bed damaged in earthquakes, fires, floods or other incidents must be inspected and repaired by Paramount Bed or your distributor. Otherwise, there is a risk of electric shock or fire due to short circuit or current leakage from electrical parts, of injury due to malfunctioning caused by deformation of the bed.

Problem	Check	Corrective action	Reference page
● The bed does not move even when the handheld controller buttons are pressed.	● Check if the power plug is plugged into the outlet.	● Plug the power plug into the outlet.	17
	● The power plug is plugged into the outlet but the bed still does not move.	● Unplug the power plug from the outlet and plug it in again. ● Plug another electrical device into the outlet to check that power is available.	17
● The POWER Lamp on the handheld controller is OFF.	● Check if the power plug is plugged into the outlet.	● Plug the power plug into the outlet.	17
	● Check if the handheld controller lock function is OFF.	● Press the lock button to switch the handheld controller lock function OFF.	23,25
	● The power plug is plugged into the outlet but the POWER lamp on the handheld controller is OFF.	● Unplug the power plug from the outlet and plug it in again. ● Plug another electrical device into the outlet to check that power is available.	17
● The bed cannot be positioned correctly.	● Check if there is nothing in the moving parts on the bed.	● Remove any obstacles.	-
● The bed cannot be moved.	● Check if the casters are locked.	● Unlock the caster.	29-30
● The bed does not move in the intended direction when the patient is being transported.	● Check if the caster is in the steering position.	● Unlock the caster in the steering position.	29
● The board will not come off.	● Check if the board is locked.	● Unlock the board stoppers.	14

- When requesting repairs or contacting Paramount Bed or your distributor, please provide the number on the product ID label.

■ Product ID label locations

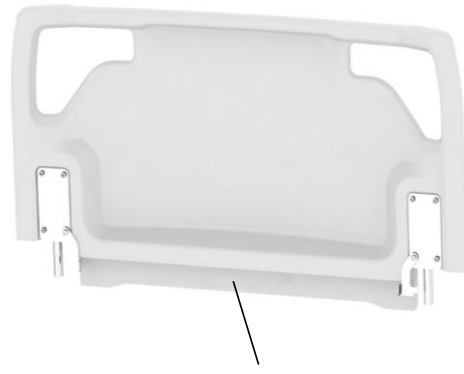
Product ID labels are affixed to the foot end of the main frame and on the inside of the footboard.

<Main frame>



Product ID Label

<Footboard>



Product ID Label

■ Product lifetime

The lifetime of this equipment is typically eight (8) years. Lifetime is defined as the period during which the product will maintain the specified performance and safety, provided it has been maintained and operated in conditions of normal use in accordance with the requirements in this instruction manual.

13 LONG-TERM STORAGE

■ The following precautions should be noted when the bed is not in use for extended periods of time.

1. Lay the back and knee section bases flat.
2. Lower the bed to the lowest position.
3. Do not place objects other than mattress on the bed.
4. Do not place any objects on the mattress.
5. Do not place location that tend to be exposed to high temperatures, high humidity, low temperatures, dry or dusty conditions.
Store at a temperature between -10°C and 50°C, humidity between 20%RH and 90%RH, and atmospheric pressure between 700hPa and 1060hPa.
6. Store the bed horizontally; do not stand it upright against wall.
7. For electrically-operated beds, be sure to disconnect the power plug from the power outlet and the plug of battery from the control box, and wind the power cable onto the cable storage hook.
(See p.16-17)



- Inspect the product regularly at least once a year, even if it is during storage.

Bed disposal

When the PA-6000 series bed has reached the end of its usable life, discard it according to local standards.

14 SPECIFICATIONS

● φ 125 Integral smart casters with total locking system (Anti static caster is also available)

*Subject to normal manufacturing tolerances

Family Name		PA-6000Series	
Product Name		Electrical Hospital Bed	
Model No. (*1)		PA-6115, PA-6125 / PA-6315, PA-6325, PA-6135, PA-6145 / PA-6335, PA-6345, PA-6115X, PA-6125X / PA-6315X, PA-6325X, PA-6135X, PA-6145X / PA-6335X, PA-6345X	PA-6215, PA-6225 / PA-6415, PA-6425, PA-6235, PA-6245 / PA-6435, PA-6445, PA-6215X, PA-6225X / PA-6415X, PA-6425X, PA-6235X, PA-6245X / PA-6435X, PA-6445X
Quantity of motors		3 Motors	4 Motors
Operation Procedure	Auto contour	Motorized	
	Back raise	Motorized	
	Knee raise	Motorized	
	Hi-lo adjustment	Motorized	
Power supply voltage / frequency		AC120V/230V ± 10% V / 50/60Hz	
Dimensions	Total length	2,200mm (When extended : 2,495mm)	
	Total width	976mm / 1,056mm	
	Total height	735[+25,-5] to 1,115[+25,-5]mm	735[+25,-5] to 1,065[+25,-5]mm
	Mattress base length	1,950mm	
	Mattress base width	830mm / 910mm	
	Mattress base height	350[+25,-5] to 730[+25,-5]mm	350[+25,-5] to 680[+25,-5]mm
	Casters	125mm dia. single-wheel casters (Total locking system)	
	Power cable length	Effective length: 2,500mm	
Product weight		PA-6115, PA-6125, PA-6135, PA-6145 without X-ray cassette holder: 132kg	PA-6215, PA-6225, PA-6235, PA-6245 without X-ray cassette holder: 134kg
		PA-6115X, PA-6125X, PA-6135X, PA-6145X with X-ray cassette holder: 137kg	PA-6215X, PA-6225X, PA-6235X, PA-6245X with X-ray cassette holder: 139kg
		PA-6315, PA-6325, PA-6335, PA-6345 without X-ray cassette holder: 134kg	PA-6415, PA-6425, PA-6435, PA-6445 without X-ray cassette holder: 136kg
		PA-6315X, PA-6325X, PA-6335X, PA-6345X with X-ray cassette holder: 139kg	PA-6415X, PA-6425X, PA-6435X, PA-6445X with X-ray cassette holder: 141kg
Material	Mattress base	Made of steel, powder coating (part is resin mold item)	
	Main frame	Made of steel, powder coating (part is resin mold item)	
	Side rail	PE resin mold items	
	Headboard / Footboard	PE resin mold items	
Safe working load (*2)		245kgf (2,400N)	
Back raise	Inclination angle	0° to 70°[+7] ⁰	
	Time required	28sec. (*3)	
Knee raise	Inclination angle	0° to 25°[+4] ⁰	
	Time required	5sec. (*3)	
Hi-lo adjustment	Height range	380mm	330mm
	Time required	27sec. (*3)	23sec. (*3)
TR/RTR inclination	Inclination angle	-	0° to 12°[±2] ⁰
	Time required	-	23sec. (*3)
Actuator Type		Linear actuator (DC motor)	
Power consumption	120V AC	260VA or less	
	230V AC	220VA or less	
Duty cycle		2 min. (stop time: 18min. (*4))	

*1) Full Length Side-rail is denoted by the numbers 1 or 2 and Foot End Open Side-rail is denoted by the numbers 3 or 4 in the third digit from the top.

Side-rail integrated panel type is denoted by the numbers 1 or 3 and Handheld controller type is denoted by the numbers 2 or 4 in the third digit from the top.

*2) Safe working load: Maximum load with which the bed can be operated. (The total load of user's weight and incidental items including accessories.)

*3) With no loads.

*4) Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

13 SPECIFICATIONS

- ϕ 125 MCS smart casters with total locking system (Anti static caster is also available)

*Subject to normal manufacturing tolerances

Family Name		PA-6000Series	
Product Name		Electrical Hospital Bed	
Model No. (*1)		PA-6118, PA-6128 / PA-6318, PA-6328, PA-6138, PA-6148 / PA-6338, PA-6348, PA-6118X, PA-6128X / PA-6318X, PA-6328X, PA-6138X, PA-6148X / PA-6338X, PA-6348X	PA-6218, PA-6228 / PA-6418, PA-6428, PA-6238, PA-6248 / PA-6438, PA-6448, PA-6218X, PA-6228X / PA-6418X, PA-6428X, PA-6238X, PA-6248X / PA-6438X, PA-6448X
Quantity of motors		3 Motors	4 Motors
Operation Procedure	Auto contour	Motorized	
	Back raise	Motorized	
	Knee raise	Motorized	
	Hi-lo adjustment	Motorized	
Power supply voltage / frequency		AC120V/230V \pm 10% V / 50/60Hz	
Dimensions	Total length	2,200mm (When extended : 2,495mm)	
	Total width	976mm / 1,056mm	
	Total height	735[+25,-5] to 1,115[+25,-5]mm	735[+25,-5] to 1,065[+25,-5]mm
	Mattress base length	1,950mm	
	Mattress base width	830mm / 910mm	
	Mattress base height	350[+25,-5] to 730[+25,-5]mm	350[+25,-5] to 680[+25,-5]mm
	Casters	125mm dia. double-wheel casters (Total locking system)	
	Power cable length	Effective length: 2,500mm	
Product weight		PA-6118, PA-6128, PA-6138, PA-6148 without X-ray cassette holder: 132kg	PA-6218, PA-6228, PA-6238, PA-6248 without X-ray cassette holder: 134kg
		PA-6118X, PA-6128X, PA-6138X, PA-6148X with X-ray cassette holder: 137kg	PA-6218X, PA-6228X, PA-6238X, PA-6248X with X-ray cassette holder: 139kg
		PA-6318, PA-6328, PA-6338, PA-6348 without X-ray cassette holder: 134kg	PA-6418, PA-6428, PA-6438, PA-6448 without X-ray cassette holder: 136kg
		PA-6318X, PA-6328X, PA-6338X, PA-6348X with X-ray cassette holder: 139kg	PA-6418X, PA-6428X, PA-6438X, PA-6448X with X-ray cassette holder: 141kg
Material	Mattress base	Made of steel, powder coating (part is resin mold item)	
	Main frame	Made of steel, powder coating (part is resin mold item)	
	Side rail	PE resin mold items	
	Headboard / Footboard	PE resin mold items	
Safe working load (*2)		245kgf (2,400N)	
Back raise	Inclination angle	0° to 70° [\pm 7] ⁰	
	Time required	28sec. (*3)	
Knee raise	Inclination angle	0° to 25° [\pm 4] ⁰	
	Time required	5sec. (*3)	
Hi-lo adjustment	Height range	380mm	330mm
	Time required	27sec. (*3)	23sec. (*3)
TR/RTR inclination	Inclination angle	-	0° to 12° [\pm 2] ⁰
	Time required	-	23sec. (*3)
Actuator Type		Linear actuator (DC motor)	
Power consumption	120V AC	260VA or less	
	230V AC	220VA or less	
Duty cycle		2 min. (stop time: 18min. (*4))	

*1) Full Length Side-rail is denoted by the numbers 1 or 2 and Foot End Open Side-rail is denoted by the numbers 3 or 4 in the third digit from the top.

Side-rail integrated panel type is denoted by the numbers 1 or 3 and Handheld controller type is denoted by the numbers 2 or 4 in the third digit from the top.

*2) Safe working load: Maximum load with which the bed can be operated. (The total load of user's weight and incidental items including accessories.)

*3) With no loads.

*4) Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

● ϕ 125 Corrosil casters with individual locking system

*Subject to normal manufacturing tolerances

Family Name		PA-6000Series	
Product Name		Electrical Hospital Bed	
Model No. (*1)		PA-6119, PA-6129 / PA-6319, PA-6329, PA-6139, PA-6149 / PA-6339, PA-6349, PA-6119X, PA-6129X / PA-6319X, PA-6329X, PA-6139X, PA-6149X / PA-6339X, PA-6349X	PA-6219, PA-6229 / PA-6419, PA-6429, PA-6239, PA-6249 / PA-6439, PA-6449, PA-6219X, PA-6229X / PA-6419X, PA-6429X, PA-6239X, PA-6249X / PA-6439X, PA-6449X
Quantity of motors		3 Motors	4 Motors
Operation Procedure	Auto contour	Motorized	
	Back raise	Motorized	
	Knee raise	Motorized	
	Hi-lo adjustment	Motorized	
Power supply voltage / frequency		AC120V/230V \pm 10% V / 50/60Hz	
Dimensions	Total length	2,200mm (When extended : 2,495mm)	
	Total width	976mm / 1,056mm	
	Total height	735[+25,-5] to 1,115[+25,-5]mm	735[+25,-5] to 1,065[+25,-5]mm
	Mattress base length	1,950mm	
	Mattress base width	830mm / 910mm	
	Mattress base height	350[+25,-5] to 730[+25,-5]mm	350[+25,-5] to 680[+25,-5]mm
	Casters	125mm dia. single-wheel casters (Individual locking system)	
	Power cable length	Effective length: 2,500mm	
Product weight		PA-6119, PA-6129, PA-6139, PA-6149 without X-ray cassette holder: 136kg	PA-6219, PA-6229, PA-6239, PA-6249 without X-ray cassette holder: 138kg
		PA-6119X, PA-6129X, PA-6139X, PA-6149X with X-ray cassette holder: 141kg	PA-6219X, PA-6229X, PA-6239X, PA-6249X with X-ray cassette holder: 143kg
		PA-6319, PA-6329, PA-6339, PA-6349 without X-ray cassette holder: 138kg	PA-6419, PA-6429, PA-6439, PA-6449 without X-ray cassette holder: 140kg
		PA-6319X, PA-6329X, PA-6339X, PA-6349X with X-ray cassette holder: 143kg	PA-6419X, PA-6429X, PA-6439X, PA-6449X with X-ray cassette holder: 145kg
Material	Mattress base	Made of steel, powder coating (part is resin mold item)	
	Main frame	Made of steel, powder coating (part is resin mold item)	
	Side rail	PE resin mold items	
	Headboard / Footboard	PE resin mold items	
Safe working load (*2)		245kgf (2,400N)	
Back raise	Inclination angle	0° to 70° [\pm 7] ⁰	
	Time required	28sec. (*3)	
Knee raise	Inclination angle	0° to 25° [\pm 4] ⁰	
	Time required	5sec. (*3)	
Hi-lo adjustment	Height range	380mm	330mm
	Time required	27sec. (*3)	23sec. (*3)
TR/RTR inclination	Inclination angle	-	0° to 12° [\pm 2] ⁰
	Time required	-	23sec. (*3)
Actuator Type		Linear actuator (DC motor)	
Power consumption	120V AC	260VA or less	
	230V AC	220VA or less	
Duty cycle		2 min. (stop time: 18min. (*4))	

*1) Full Length Side-rail is denoted by the numbers 1 or 2 and Foot End Open Side-rail is denoted by the numbers 3 or 4 in the third digit from the top.

Side-rail integrated panel type is denoted by the numbers 1 or 3 and Handheld controller type is denoted by the numbers 2 or 4 in the third digit from the top.

*2) Safe working load: Maximum load with which the bed can be operated. (The total load of user's weight and incidental items including accessories.)

*3) With no loads.

*4) Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

14 SPECIFICATIONS

● ϕ 150 Integral smart casters with total locking system (Anti static caster is also available)

*Subject to normal manufacturing tolerances

Family Name		PA-6000Series	
Product Name		Electrical Hospital Bed	
Model No. (*1)		PA-6110, PA-6120 / PA-6310, PA-6320, PA-6130, PA-6140 / PA-6330, PA-6340, PA-6110X, PA-6120X / PA-6310X, PA-6320X, PA-6130X, PA-6140X / PA-6330X, PA-6340X	PA-6210, PA-6220 / PA-6410, PA-6420, PA-6230, PA-6240 / PA-6430, PA-6440, PA-6210X, PA-6220X / PA-6410X, PA-6420X, PA-6230X, PA-6240X / PA-6430X, PA-6440X
Quantity of motors		3 Motors	4 Motors
Operation Procedure	Auto contour	Motorized	
	Back raise	Motorized	
	Knee raise	Motorized	
	Hi-lo adjustment	Motorized	
Power supply voltage / frequency		AC120V/230V \pm 10%V / 50/60Hz	
Dimensions	Total length	2,200mm (When extended : 2,495mm)	
	Total width	976mm / 1,056mm	
	Total height	760[+25,-5] to 1,140[+25,-5]mm	760[+25,-5] to 1,090[+25,-5]mm
	Mattress base length	1,950mm	
	Mattress base width	830mm / 910mm	
	Mattress base height	375[+25,-5] to 755[+25,-5]mm	375[+25,-5] to 705[+25,-5]mm
	Casters	150mm dia. single-wheel casters (Total locking system)	
	Power cable length	Effective length: 2,500mm	
Product weight		PA-6110, PA-6120, PA-6130, PA-6140 without X-ray cassette holder: 136kg	PA-6210, PA-6220, PA-6230, PA-6240 without X-ray cassette holder: 138kg
		PA-6110X, PA-6120X, PA-6130X, PA-6140X with X-ray cassette holder: 141kg	PA-6210X, PA-6220X, PA-6230X, PA-6240X with X-ray cassette holder: 143kg
		PA-6310, PA-6320, PA-6330, PA-6340 without X-ray cassette holder: 138kg	PA-6410, PA-6420, PA-6430, PA-6440 without X-ray cassette holder: 140kg
		PA-6310X, PA-6320X, PA-6330X, PA-6340X with X-ray cassette holder: 143kg	PA-6410X, PA-6420X, PA-6430X, PA-6440X with X-ray cassette holder: 145kg
Material	Mattress base	Made of steel, powder coating (part is resin mold item)	
	Main frame	Made of steel, powder coating (part is resin mold item)	
	Side rail	PE resin mold items	
	Headboard / Footboard	PE resin mold items	
Safe working load (*2)		245kgf (2,400N)	
Back raise	Inclination angle	0°to 70°[\pm 7] ⁰	
	Time required	28sec. (*3)	
Knee raise	Inclination angle	0°to 25°[\pm 4] ⁰	
	Time required	5sec. (*3)	
Hi-lo adjustment	Height range	380mm	330mm
	Time required	27sec. (*3)	23sec. (*3)
TR/RTR inclination	Inclination angle	-	0°to 12°[\pm 2] ⁰
	Time required	-	23sec. (*3)
Actuator Type		Linear actuator (DC motor)	
Power consumption	120V AC	260VA or less	
	230V AC	220VA or less	
Duty cycle		2 min. (stop time: 18min. (*4))	

*1) Full Length Side-rail is denoted by the numbers 1 or 2 and Foot End Open Side-rail is denoted by the numbers 3 or 4 in the third digit from the top.

Side-rail integrated panel type is denoted by the numbers 1 or 3 and Handheld controller type is denoted by the numbers 2 or 4 in the third digit from the top.

*2) Safe working load: Maximum load with which the bed can be operated. (The total load of user's weight and incidental items including accessories.)

*3) With no loads.

*4) Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

Environmental conditions	Range	
	When transported or stored	When in use
Temperature	-10 to 50 ⁰ C	5 to 40 ⁰ C
Humidity	20 to 90%RH	20 to 90%RH
Air pressure	700 to 1,060hPa	700 to 1,060hPa

Patient target groups	User weight (min-max)	40kg to 180kg
	Minimum user height	146cm
	Minimum user body mass index (BMI)	17
	Supported age range	13 years and older *Do not use the bed for children (aged 12 or under) or patient weighing more than 180kg.
Intended users		Health care workers, patients, relative of patient, and maintenance staff
Clinical benefit		Patient comfort Quality patient care and efficient care provision

● Essential performance

Function to support the body of patient, Emergency CPR (back lower) function.

● Frequently used functions

Back-raising, knee-raising, height adjustment, side rail raising and lowering operation.

● Classification and Standards

The electric hospital bed is designed and manufactured according to the following equipment classification and standards.

- Classification as medical device in Europe : Class 1
- Safety standards applied : IEC 60601-1 : 2005 + CORR. 1:2006 + CORR. 2:2007+AM1:2012
: IEC60601-1-2 : 2014
: IEC60601-2-52:2009 (First Edition) for use with IEC 60601-1:2005 (Third Edition)
: EN 60601-1 : 2006 +A12:2014
: EN 60601-1-2 : 2015
: EN60601-2-52 : 2010
- Electric shock protection : Class 1 , Type B

※Equipment not suitable for use in the presence of a flammable anaesthetic mixture.

14 SPECIFICATIONS

For the PA-6000 Series, special attention is required to EMC-related safety.

Install, operate and use the bed in accordance with the following information.

Bed is intended for use in the electromagnetic environment specified by "electromagnetic disturbance" of bed. The following abnormality may occur if using bed in unintended environment.

*The function for supporting patient's weight does not maintain.

*The function for back lower does not maintain.

WARNING

- If using the other specified accessories, transducers and cable as a replacement part for internal components, except for transducers and cables sold by the manufacturer of bed, there is a risk of increasing the emissions or reducing the immunity of bed.
- Use portable RF transceiver more than 30 cm away from any part of bed (including peripheral equipment such as antenna cable and external antenna). If it is used within 30 cm, the bed performance may degrade.
- Bed cannot be used with adjacent to or stacked with other equipment. If it must be used adjacent

Bed is intended for use in clinic, restricted medical facilities, hospital (except near high-frequency surgical instrument, RF shielded room for magnetic resonance). Users or customers must use bed in this environment. Bed is device that suitable to used in hospital due to emission characteristics. If it used in housing environment, the equipment may not provide adequate protection againsts wireless radio frequency transceiver. The user may need to take mitigation measures such as relocating or redirecting the device.

No.	Cable	Maximum length [m]	Remarks
1	AC power cable	4.6	Without shield
2	Handheld controller cable	1.1	Without shield
3	Nurse control panel cable	1.1	Without shield

Guidance and Manufacturer's Declaration - Electromagnetic Emissions

The PA-6000 Series is intended for use in the following electromagnetic environment. The customer or user of the PA-6000 Series should make sure it is used in such an environment.

Emission test	Compliance	Electromagnetic Environment - Guidance
RF emissions CISPR 11/EN 55011	Group 1	The PA-6000 Series uses RF energy only for its internal functions. Therefore, its RF emissions are low and are not likely to cause any interference with nearby electronic equipment. The PA-6000 Series is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emissions CISPR 11/EN 55011	Class A	
Harmonic emissions IEC 61000-3-2/EN 61000-3-2	Class A	
Voltage fluctuations/flicker emissions IEC 61000-3-3/EN 61000-3-3	Complies	

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PA-6000 Series is intended for use in the following electromagnetic environment. Users or customers must use bed in this environment.

Immunity test	IEC 60601-1-2/EN 60601-1-2 Test level	Compliance level
Static electricity discharge (ESD) IEC 61000-4-2 /EN 61000-4-2	Contact discharge: $\pm 8\text{kV}$ Air discharge : $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$, $\pm 15\text{kV}$	Contact discharge: $\pm 8\text{kV}$ Air discharge : $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$, $\pm 15\text{kV}$
Electrical fast transient/burst IEC 61000-4-4 /EN 61000-4-4	$\pm 2\text{kV}$ power supply line	$\pm 2\text{kV}$ power supply line
Surge IEC 61000-4-5 /EN 61000-4-5	Line - line: $\pm 0.5\text{kV}$, $\pm 1.0\text{kV}$ Line - ground: $\pm 0.5\text{kV}$, $\pm 1.0\text{kV}$, $\pm 2.0\text{kV}$	Line - line: $\pm 0.5\text{kV}$, $\pm 1.0\text{kV}$ Line - ground: $\pm 0.5\text{kV}$, $\pm 1.0\text{kV}$, $\pm 2.0\text{kV}$
Power frequency magnetic fields IEC 61000-4-8 /EN 61000-4-8	30 A/m	30 A/m
Voltage Dips IEC 61000-4-11 /EN 61000-4-11	0% UT: 0.5 cycles Phase: 0° , 45° , 90° , 135° , 180° , 225° , 270° , 315°	0% UT: 0.5 cycles Phase: 0° , 45° , 90° , 135° , 180° , 225° , 270° , 315°
	0% UT: 1 cycles 70% UT: 25/30 cycles Single phase: 0°	0% UT: 1 cycles 70% UT: 25/30 cycles Single phase: 0°
Short interruptions IEC 61000-4-11 /EN 61000-4-11	0% UT: 250/300 cycles	0% UT: 250/300 cycles
Note: UT is the AC power voltage before applying the test level.		

13 SPECIFICATIONS

Guidance and Manufacturer's Declaration - Electromagnetic Immunity


The PA-6000 Series is intended for use in the following electromagnetic environment that used wireless RF transceiver. Electromagnetic interference can be prevented by maintaining the minimum distance between RF transceiver and PA-6000 Series depend on the maximum output and frequency of the communication device as recommended below.

Immunity test	IEC 60601-1-2 /EN 60601-1-2 Test level	Compliance level (V/m)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)
Enclosure port to RF wireless communication s equipment IEC 61000-4- 3/EN 61000-4- 3	27V/m 385MHz	27	380-390	TETRA 400	Pulse modulation 18kHz	1.8	0.3
	28V/m 450MHz	28	430-470	GMRS 460, FRS 460	FM±5kHz deviation 1kHz sine	2	0.3
	9V/m 710MHz	9	704-787	LTE Band 13, 17	Pulse modulation 217kHz	0.2	0.3
	9V/m 745MHz						
	28V/m 810MHz	28	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850 LTE Band 5	Pulse modulation 18kHz	2	0.3
	28V/m 870MHz						
	28V/m 930MHz						
	28V/m 1720MHz	28	1700-1990	GSM 1800, CDMA 1900, GSM 1900, DECT, LTE Band 1, 3, 4.25, UMTS	Pulse modulation 217kHz	2	0.3
	28V/m 1845MHz						
	28V/m 1970MHz						
	28V/m 2450MHz	28	2400-2570	Bluetooth, WLAN, 802.11 b/g/n RFID 2450, LTE band 7	Pulse modulation 217kHz	2	0.3
	9V/m 5240MHz	9	5100-5800	WLAN 802.11 a.n	Pulse modulation 217kHz	0.2	0.3
	9V/m 5500MHz						
	9V/m 5785MHz						

13 SPECIFICATIONS

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PA-6000 Series is intended for use in the following electromagnetic environment. The customer or user of the PA-6000 Series should make sure it is used in such an environment.

Immunity test	IEC 60601-1-2 /EN 60601-1-2 Test level	Compliance level	Electromagnetic Environment - Guidance
RF Conductivity IEC 61000-4-6 /EN 61000-4-6	3V 0.15MHz-80MHz	3V 0.15MHz-80MHz	Field intensity from the fixed RF transmitter determined by a field investigation of the magnetic field must be lower than the compliance level of the respective frequency band. Near devices with the following symbol, interference could occur.
	6V in ISM bands between 0.15MHz-80MHz 80% AM at 1kHz	6V in ISM bands between 0.15MHz-80MHz 80% AM at 1kHz	
Radioactive RF electromagnetic field IEC 61000-4-3 /EN 61000-4-3	3 V/m 80 MHz -2.7 GHz 80% AM at 1kHz	3 V/m 80 MHz -2.7 GHz 80% AM at 1kHz	

- The intensity of a magnetic field from fixed transmitters such as a radio (mobile/radio) telephone base station, land mobile radio, amateur radio, AM and FM radio broadcasting, and TV broadcasting cannot be theoretically predicted accurately. To determine the electromagnetic environment for a fixed RF transmitter, consider investigating the electromagnetic field in the location where the bed is used. If the intensity of the magnetic field in the location where the PA-6000 Series is used exceeds the above RF compliance level, make sure to monitor if the PA-6000 Series operates appropriately. If abnormal movement is found, take additional measures as needed, such as changing the direction or position of the PA-6000 Series.
- These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

1. When requesting repairs

First check the items described in “11. TROUBLESHOOTING” (p. 53, 54) in this instruction manual. If the problem persists, disconnect the bed's power plug from the power outlet and contact Paramount Bed or your distributor.

■ Details necessary when requesting repair

- Product name, model number
- Product ID label number (see p.54)
- Date of purchase
- Details of fault or problem (please provide as much detail as possible)
- Your name, organization, address, and phone number

■ Consumable parts

Mattress, casters, handheld controller, nurse control panel, battery, the rubber parts are consumable parts.


2. Minimum stock availability period

Paramount Bed keeps replacement parts (necessary to maintain bed performance) in stock for at least 8 years after the discontinuation of production.

3. Questions regarding after-sales service

For any queries, please feel free to contact your distributor or to the following address.
Website: <https://www.paramount.co.jp/english/>



[Location in Japan]	[Location in Indonesia]
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