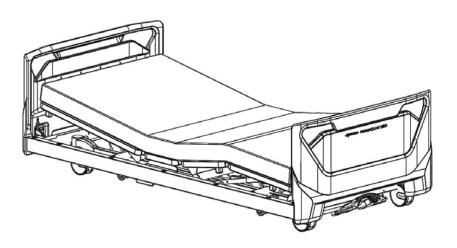
INSTRUCTION MANUAL PA-90000 Series Bed

7B01005800A2



Preface

Thank you for purchasing the PA-90000 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.

PARAMOUNT BED CO., LTD

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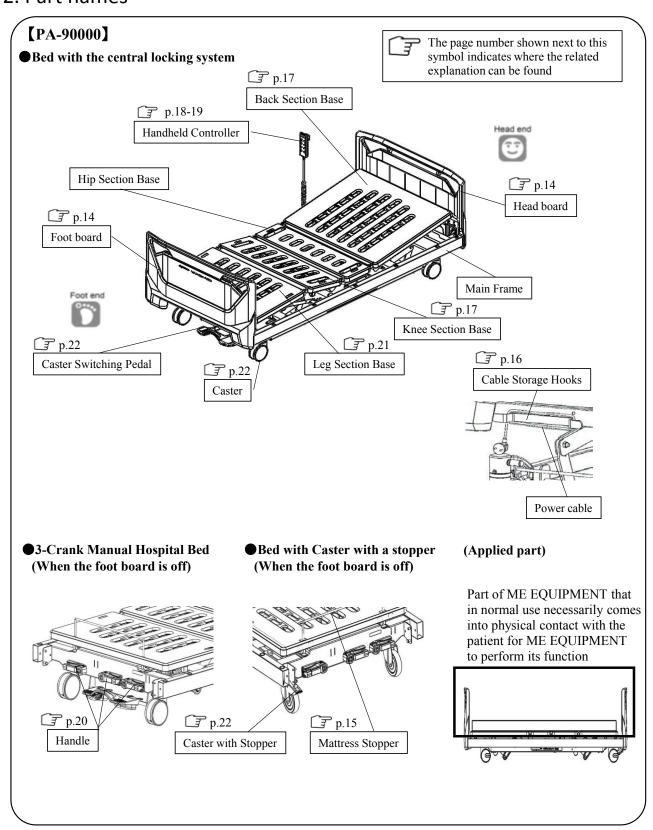
1 INTENDED USE AND PART NAMES

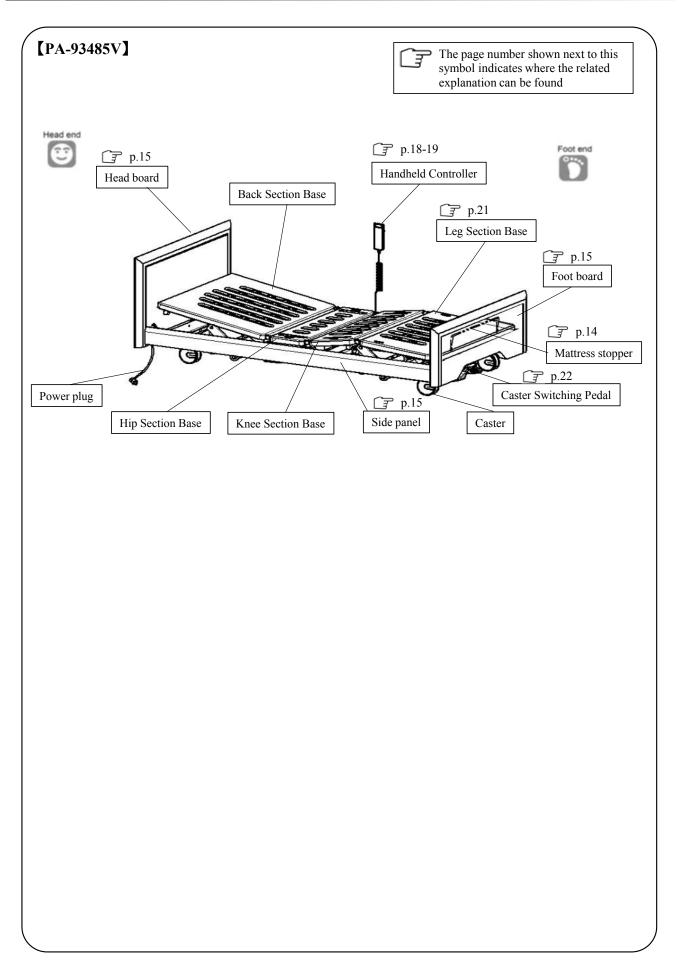
1. Intended use

- This bed is designed to be used for patient care in medical institutions and elderly care facilities.
- \Re Please refer to the \lceil SPECIFICATION \rfloor for the patient target groups and the intended users.

Note: Application environment 1 and 2 in IEC 60601-2-52:2009

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.

Precautions are classified as "WARNING", "CAUTION" to indicate the degree of hazard or injury that may result from improper use. **Both are important safety precautions that must be strictly observed.**

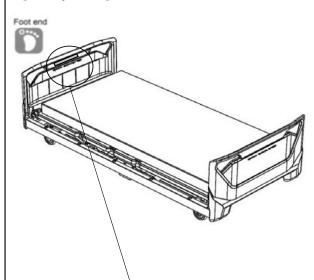
Details of the pictograms used are shown below. Be sure to fully understand these precautions before reading the instruction manual.

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 to the foot-end frame. Do not remove or deface the label.
- If the safety label is removed or defaced, replace it with a new one obtained from Paramount Bed or your distributor.

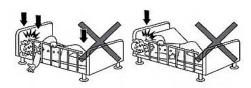




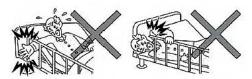


MARNING

 \blacksquare Do not put any body part (especially the head or neck) between a fold-down side rail or board and the raised base (\downarrow).



- 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.
- Due attention should be paid to patients who cannot maintain posture by themselves.
- Even when side rails are used, pay attention to prevent patients from falling of the bed.
 - A patient may fall off the bed through the gap between a board and fold-down side rail and get injured.
 - If a patient bends forward over a fold-down side rail, they may fall off the bed and get injured.
- Do not extend the head, hands, or feet outside of the bed.



- If the bed is operated with a body part (especially head or neck) placed in the gap, the part may get caught and injured.
- Do not put any body part (especially the head or neck) between a fold-down side rails and the base or mattress.
 - When the head or neck enters the gap, the patient might not be able to withdraw, and there is a risk of injury.
 - A hand or finger may get caught in the gap, resulting in injury.
- Do not insert a head (fingers) and between the bed's frame and section base during powered operation.



- The body part may get caught between the lowered base and the bed's frame or board and get injured.
- Lock the casters at all times except when moving the bed.



- The patient may be injured getting on or off the bed should it move.
- •Unlock the casters when moving the bed.
- Before a patient gets on or off the bed, push down the safety stoppers of the side rail and completely fold down the side rail.



- The patient leg's could be caught by the side rail, causing the patient to fall off the bed or the patient's finger could be caught between the supportive bars, causing injury.
- When using IV hanger rod, pay attention to prevent tubes from getting caught by the side rail.



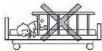
- The tubes could be squashed.
- When folding the side rails, proceed slowly



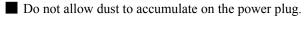
● Releasing the hands in the middle of the operation or slamming the rail down could cause injury or damage to side rail.

MARNING

Do not use with infants.



down side rail.

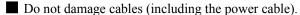




● When dust adheres to the surface of the power plug, the moisture it holds will allow a current to flow, there will be a worsening of the insulation condition, and a risk of fire

• They may fall down through the space of a fold-

• Wipe away any dust accumulating on the power plug pins and mating surface using a dry cloth.





- Damage to cables may cause electric shock or a fire.
 - OPrevent cables from getting caught by the bed's movable parts
 - ODo not put heavy objects on cables or apply strong force
 - ODo not place the bed on cables
- Request repair (or replacement) for damaged cables.
- Do not trip over the power cable or cables of the handheld controller.
 - Damage plug or cable may induce leakage, and in turn, electric shock.
 - There is a risk of falling down and getting injured.
- Do not run cables (including the power cable) of the bed or other electric appliances under the bed.
 - The cables may get caught in a caster or movable part and damaged, causing a fire or electric shock.
- When adjusting the base angle or the bed height, pay attention to the patient's conditions.
 - If a patient on the bed moves when adjusting the base angle, they may fall from the bed and get injured.
 - Perform the adjustment while supporting the patient who cannot maintain posture by themselves. If you cannot watch the patient, flatten the base angle and lower the bed to the lowest position. If not, the patient may fall off the bed or caught in a space of a fold-down side rail or board and get injured.

∴WARNING

- Do not allow operation of the bed by a child aged 12 or under, or someone deemed incapable of comprehending the operation.
 - When a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as someone having a cognitive illness) operates the handheld controller by themselves, there is a risk of unexpected injury such as the body becoming caught in the bed by mistake.
 - If there is a risk of such person touching the handheld controller, disconnect the power plug in order to prevent an accident caused by incorrect operation.
 - When a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as someone having a cognitive illness) operates the handheld controller by themselves, there is a risk of unexpected injury caused by getting caught in the bed by mistake. (3-crank gatch bed only).
- When transporting a patient, attach the fold-down side rails.
 - There is a risk that the patient could fall from the bed and become injured.
 - Do not move the bed with holding the fold-down side rails. The side rails may get damaged or deformed.
- Use the bed in the proper orientation.



Lying down on the bed with incorrect orientation of head end and foot end will result in an unnatural posture when the bed position is adjusted and this may cause injury.

■ Do not perform an angle adjustment when the patient is lying face down.



- Bending the joints in the wrong direction may result in injury.
- There is a risk of injury due to falling of toppling from the bed

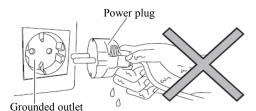
■ Do not stand on the bed.



● 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.

MARNING

■ Do not insert the power plug with wet hands.



There is a risk of electric shock due to short-circuiting.

- Do not spill liquids on the bed.
 - Do not spill liquids on the bed's electrical components, such as the motors, handheld controller, or nurse control panel, otherwise, there is a risk of malfunction. If liquids are accidentally split, unplug the power plug from the power outlet and contact your distributor.
- Do not use a mobile phone or other wireless device in the vicinity of the bed.
 - This may cause a malfunction of the bed.
- Do not repair or modify the bed or its components by yourself.
 - This may create unintended gaps or may cause malfunction, resulting in injury .
- Always unplug the power plug when using electronic medical equipment.

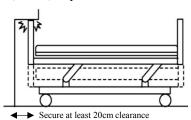


- Using electronic equipment (e.g. microwave or high-frequency medical equipment) at the same time
- When the bed will be used in conjuction with other medical equipment, check the safety considerations
- Do not attach a restraint belt to the main frame or side rails.
 - Operation in position such as with the back raised or the knee raised may squeeze the body and cause injury.
- Use the bed properly according to the patient's medical condition.
 - ●Improper use of the bed may adversely affect the patient's medical condition.

 Before the patient or a family member operates the bed, make sure that the doctor or nurses explain related details given in the instruction manual and proper usage to suit the patient's medical condition.
- When leaving the bed, lower the bed to the minimum height.
 - If a doctor, nurse, or attendant leaves the bed, lower the bed as much as possible according to the patient's condition because there is a slight chance that the patient may fall of the bed.

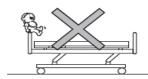
∴WARNING

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



 When using the bed, make sure that the beds does not hit the wall beam, or power plug during the adjustment of the height or inclination angle.
 Make sure that there is a least 20cm clearances from the wall or beam.

■ Do not sit on a fold-down side rail, head board, or foot board.



● The patient may toppie or fall from the bed, or the bed could be damaged or deformed and result in injury.

■ Do not climb on the bed in the raised position.



● The patient may toppie or fall from the bed, or the bed could be damaged or deformed and result in injury.

■ The bed should not to be used by two or more persons.



- This bed is designed for use by one person.

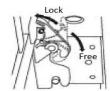
 When used by two or more persons, they bed could be damaged and result in an injury.

 The maximum weight the bed can bear is 204kg for the bed with the expansion function and 138kg for the bed without the expansion function.

 If a doctor or nurse needs to get on the bed for a short time. Confirm the following condition beforehand.
 - OThe load to be applied to the bed is less than the maximum weight that the bed can bear.
 - •Bed with the expansion function: 204kg
 - •Bed without the expansion function: 138kg
 - OThe base has been lowered and is flat
 - If a doctor or nurse often gets on the bed, make sure to have the bed periodically inspected.

MARNING

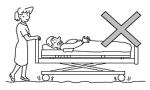
- Keep away from heaters.
 - Do not use heaters near the bed. Otherwise, the bed may be damaged or deformed, or even catch fire.
- Check around the bed before operating the bed.
 - ■A position operation could damage items locate around the bed, or could cause the bed to be damage or deformed.
- Be sure to use the stopper for the headboard and footboard.



- If the board is not mounted properly, the board may suddenly come off when a staff pushes (pulls) the board to move the bed or a patient grabs the board to support their body, resulting in injury. (see p.14)
- The angle of the leg section base should be adjusted by two or more persons.



- If the adjusment is done only by one person, their hand may get caught between the leg section base and main frame, resulting in injury. (see p.21)
- When moving the bed, watch your step.
 - You may hit your leg againts the caster switching pedal or caster operating step or your foot my get caught by a caster, resulting in injury.
- Avoid moving over uneven floors.



- It may result in a damaged or deformed bed or failure. If it is necessary, move the bed as slowly as possible.
- When operating the side rail releasing lever, pay attention not to allow the hands or fingers to get caught.



● There is a risk of injury as a result of being caught by the rotation parts of locking parts.

ACAUTION

- Hold the power plug body when unpluging.
 - When holding onto only the power cable and pulling it to disconnect the plug from outlet, the cable could be damaged and there is a risk of electrical shock.
- Always unplug the bed before cleaning.
 - There is a risk of electric shock or malfunction due to short circuit.
- Do not damage the handheld controller.



- There is a risk of electric shock or malfunction due to short circuit.
- When the handheld controller is damaged, request a repair (or replacement).
- Prevents patients from slipping off the bed.
 - When the back is raised or incline, the bed is set to the cardiac position, or a patient sits on the edge of the bed to get on or off, the patient may slip off the bed and get injured. The attendant should support the patient's body to prevent them for slipping off the mattress.
- Do not combine the bed with product other than the suitable products specified by Paramount Bed.
 - For suitable product items directly mounted on the bed such as fold-down side rails and mattress, use suitable products that are specified by Paramount Bed. Using other product may create unwanted gaps, cause interference between products, or lower the product safety which may lead to an injury or bed failure.

ACAUTION

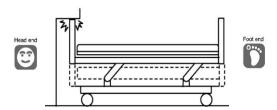
- Do not spray a spray type of insectiside directly on the bed.
 - Otherwise, there is a risk that the solvents contained in the insecticide could damage, discolor, or dissolve the bed casters or other resin parts. Pay due attention to this, otherwise, there is a risk of unexpected injury due to damaged or dissolve parts.
- Inspect the bed regularly
 - Depending on the frequency of use and the environment, the product will exhibit wear and deterioration. Regularly inspect for parts looseness, the operation of movable parts, and the precense of damage.
- Beds damage in accidents must be inspected and repair bed before re-use.
 - •Beds damaged in earthquakes, fires, or floods, must be inspected and repaired by your distributor. Damaged electrically-operated bed may cause electric shock or fire due to a short circuit of electrical parts or an injury due to abnormal operation induced by deformation.

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

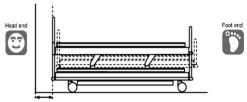
- Locations expose to direct sunlight
- Locations near heat sources such as a stove or heater
- Locations which is heavily electrically charged such as near an MRI.
- Locations that has a high oxygen level
- Locations exposed to excessive amounts of water vapor or oil vapor
- Locations that tend to be 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 transportation)
- Locations where the floor is not strong enough
- Locations where the floor is not level

⚠CAUTION

●When performing height or inclination angle adjustments, pay attention not to hit the wall, beam, or power outlet on the wall. The bed or wall may be damaged or deformed.



• When setting up the bed, make sure that there is at least 20cm clearances from the wall. The bed operations may damage objects located around the bed, or may cause the bed to be damaged or deformed



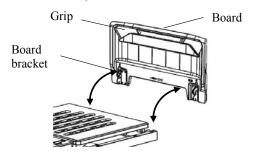
Secure at least 20 cm clearance from the wall.

4 ASSEMBLING THE BED (PA-90000)

1. Attaching /detaching the headboard and footboard

The head board and foot board can be attached or detached. When washing patients hair, detach the head boad. When performing lower limb training or giving

a foot bath, detach the foot board.

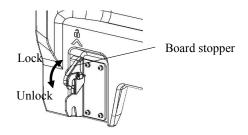


1. Attaching

• Grasp the grip of the headboard or footboard, lift it, and mount it so that the board bracket engage with the mounting lugs on the bed. (The board stopper is automatically locked). Lightly lift the board and make sure that is locked.

2. Detaching

- Move the board stopper to unlock.
- Grasp the grip of the board and detach it.

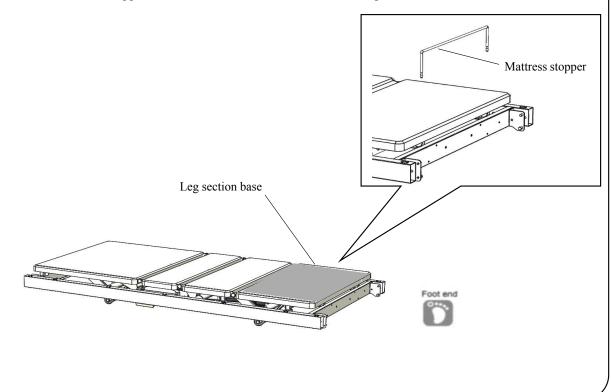




● When attaching the head board or foot board, make sure that the stopper is used. Otherwise, the board may disengage when the bed is moved, causing an injury due to toppling.

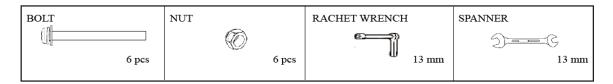
2. Attaching the mattress stopper

Insert the mattress stopper until does not come off as shown in the figure below.

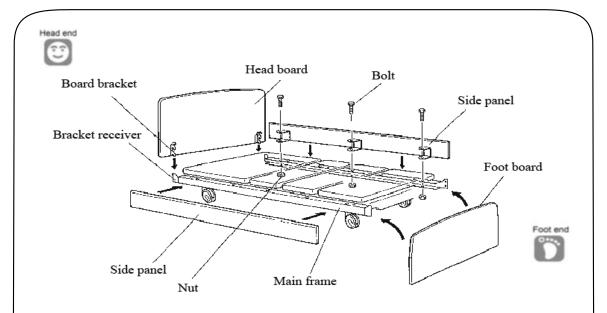


5 ASSEMBLING THE BED (PA-93485V)

1. Fitting component for assembly



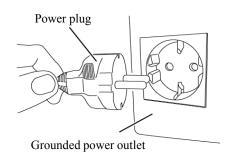
2. Head board, foot board, side panel installation



- 1. Take side panel from carton box, attach it on both sides of main frame using bolt and nut.
- 2. Take head board and foot board from carton box, set board bracket to be able to fit with bracket receiver.

6 CONNECTING TO THE POWER SUPPLY (ELECTRIC HOSPITAL BED ONLY)

1. Power outlet

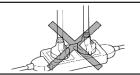


● Each bed should be plugged into a separate, appropriately wired, single-phase AC 220V, 10A or greater grounded power outlet using the power plug.

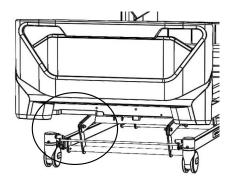
* The illustration uses a type C power plug for explanation.



• Never connect more than one cable to a power outlet.

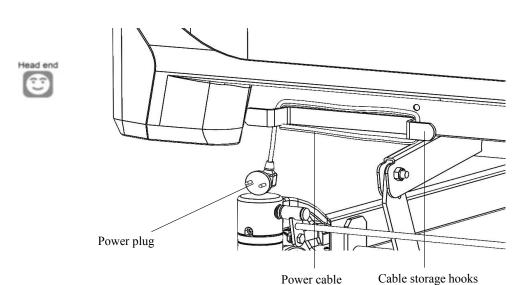


2. Using the cable storage hooks



[Using the cable storage hooks when moving the bed]

• Wind the power cable onto the cable storage hooks when moving the bed.

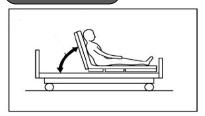


7 OPERATION OVERVIEW

Adjusting the angle of the back or knee section base and the height of the bed

- The angle of the back and knee section base and the height of the bed can be adjusted with no increments. (For operation procedures, see p.18-20)
- The angle of the leg section base can be manually adjusted in two levels. (see p.21)

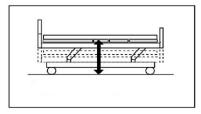
Back raise



Knee raise



Height adjustment



- Electric hospital bed
 The back section base angle can be electrically adjusted from 0^o to 70^o.
- Manual hospital bed The back section base angle can be manually adjusted from 0⁰ to 75⁰.
- ●Electric hospital bed
 The knee section base angle can be electrically adjusted from 0⁰ to 25⁰.
- Manual hospital bed The knee section base angle can be manually adjusted from 0⁰ to 45⁰.
- ●PA-93286, PA-93186, PA-93286N, PA-93186N, PA-93485V

 The height from the floor to the base of the bed can be electrically adjusted from 290mm to 670mm.
- ●PA-93206N, PA-93106N

 The height from the floor to the base of the bed can be electrically adjusted from 323mm to 703mm.
- ●PA-99286, PA-99186, PA-99286N, PA-99186N
 The height from the floor to the base of the bed can be manually adjusted from 330mm to 710mm.
- ●PA-93256, PA-93156, PA-99256, PA-99156
 The height from the floor to the base of the bed can be adjusted from 338mm to 718mm.
- ●PA-93296, PA-93196, PA-99296, PA-99196
 The height from the floor to the base of the bed can be adjusted from 345mm to 725mm.
- ●PA-99206N, PA-99106N

 The height from the floor to the base of the bed can be adjusted manually from 363mm to 743mm.

USING THE HANDHELD CONTROLLER (ELECTRIC HOSPITAL BED ONLY)

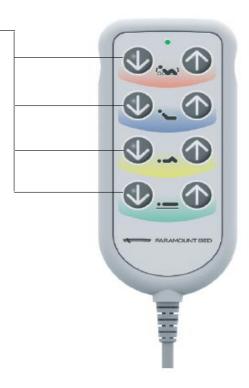
■ The angle of the back and knee section base and the height of the bed can be smoothly adjusted with no increments by using the handheld controller.

ACAUTION

- When a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as someone having a cognitive illness) operates the handheld controller by themselves, there is a risk of unexpected injury such as the body getting caught in the bed by mistake.
- If there is a risk of such person touching the handheld controller, disconnect the power plug in order to prevent an accident by incorrect operation.

Operation procedure

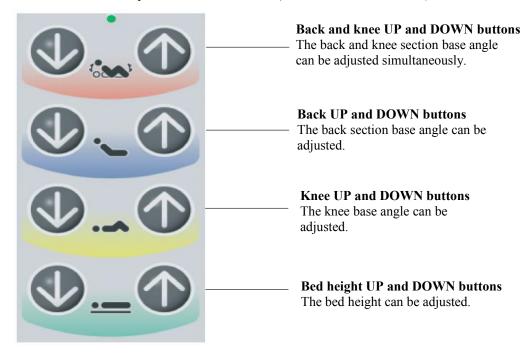
Pressing the button adjust the bed, and releasing the button stop the adjustment, allowing you to adjust the bed to the desired position. Press two or more buttons simultaneously to stop the operation.



USING THE HANDHELD CONTROLLER (ELECTRIC HOSPITAL BED ONLY)

Operation buttons

Pressing the button adjust the bed, and releasing the button stops the adjusment, allowing you to adjust the bed to the desired position. Press the button ↑ to raise. Press the button ↓ to lower.





● Do not drop the handheld controller or pull the cable.

The handheld controller may get damaged or deformed and operate incorrectly as a result. When the handheld controller is damaged, request a repair (or replacement).

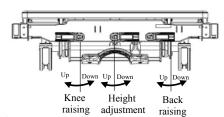


Hook damage

9 OPERATION PROCEDURES

1. Handle operation (3-Crank Manual Hospital Bed)

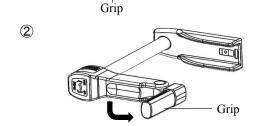
■ Use the handle mounted on the frame to raise or lower the back or knee section base and adjust the bed height.



- ① Grip part a of the handle to be operated and pull it out to the end.
- ② Raise the grip to 90 degrees, hold the grip, and turn the handle.



- Turn the handle clockwise to raise the back, knee or bed height.
- Turn the handle counterclockwise to lower the back, knee, or bed height.





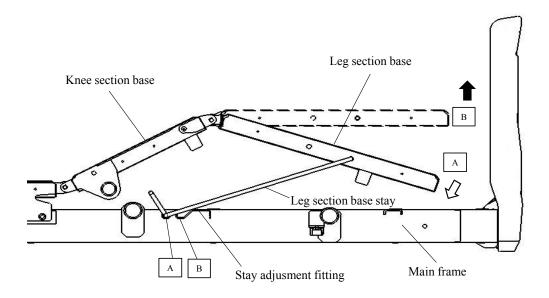
- Using the handle without completely pulling it out may cause a failure. Be sure to pull it out completely before use.
- After use, be sure to press the handle into the original position. If it is out, it may catch people's leg, causing an injury.
- Do not place your leg on the handle. You may fall down and get injured or the handle may break.
- Use one handle at a time. Turning two handles at the same time may result in an injury because hands crush into each other.

2. Adjusting the angle of the leg section base

- The angle of the leg section base can be manually adjusted in two levels. The angle of the leg section base must be adjusted by at least two persons.
- Normally, the leg section base stay is at position **A**. Adjustment to the **B** position should be performed when the knee section base is raised.
- When moving in the **B** direction, hold the end of the leg section base and lift it. The leg section base stay slides toward the foot end. Slowly lower the leg section base when the desired angle is achieved.
- When moving in the A direction, apply one hand to the leg section base stay, hold the end of the leg section base with the other hand, and lift it a little. Then, lower the leg section base so that the leg section base stay enters A.

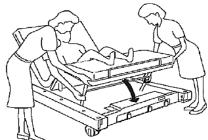


● When returning the knee section base to the horizontal condition, be sure to return the leg section base stay to the normal position A .





● The leg section base angle should be adjusted by at least two persons from the both sides. If only one person attempts to adjust the angle, the person may get caught between the leg section base and main frame and get injured.

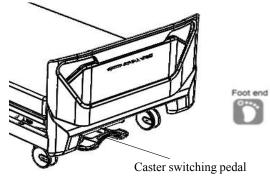


3. Locking the casters



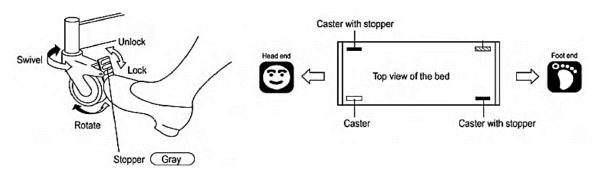
● Lock the casters at all times except when moving the bed. The patient may be injured getting on or off the bed should it move.

- Central locking system
- The casters can be locked or unlocked by operating switching pedal on the foot end.



- Locking the four wheels The casters are locked by depressing the caster switching pedal.
- Unlocking the four wheels The casters are unlocked by raising the caster switching pedal.

- Diagonal locking system
 - •Use the stopper to lock or unlock the casters.
 - Stoppers are on two casters on opposing corners of the bed. When locking, be sure to lock both of the two casters.
 - Depressing the stopper locks the swiveling and rotation of the casters.
 - 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.





● Do not forcibly move the bed when the casters are locked. It may break the bed.



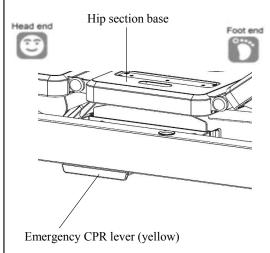
Inspect the casters regularly. Depending on the frequency of use and the environment, casters will exhibit wear and deterioration. (Height-temperature and heighty hummidity condition may accelerate the deterioration). In case of declined function of the stoppers or discoloration or crack on the wheel, request repair or after-sales service.

4. Emergency CPR (back-lowering) function

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



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

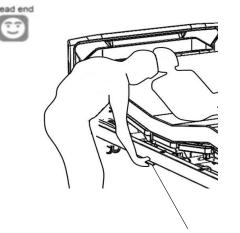


- < Emergency CPR procedure >
- 1. Place one hand on the side of the back section base and pull the emergency CPR lever (yellow). Levers are located on both sides of the bed under the hip section base and either lever can be used.
- 2. Keep pulling the lever until the back section base returns to flat status. If you release the emergency CPR lever halfway through, the back-lowering operation is stopped).



- Depending in 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 >

Power on status: back-raising and back lowering can be operated using the buttons on the handheld controller or nurse control panel.

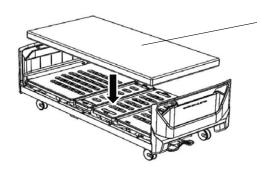


Emergency CPR lever (yellow)

MARNING

- ●Do not use the bed when the mattress is not a 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, resuting 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.
- Compatible Mattresses Paramount Bed







Mattress

Width	Length	Thickness
830 (for PA-931**,PA-991**)	1,910 to 2,000	90 to 150
910 (for PA-932**,PA-934**,PA-992**)	1,910 to 2,000	90 to 150

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



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

1. Suitable products table

MARNING

- Use suitable products after confirming that the combination with the bed is correct. Using the bed with the wrong combination of suitable products could result in injury or could damage the products. The part number of each suitable products is written on the safety label and on the carton box.
- Do not use suitable products other than 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 accessories attachment holes, when mounting the suitable products. 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.



Suitable products may be changed due to specification changes or combinations. In addition, some suitable products may not be listed in the table due to new release or discontinuation of sales. For any queries on suitable products, contact Paramount Bed (see p.51) or your distributor.

Suitable product*1)*2)	Model No.*1)	Reference page
IV pole	KC-56A, KC-56B, EC-562	26
Battery	PAB250T	27 - 29
Oxygen cylinder holder	PC-5038	30
Drain bag holder	PC-5123	31
Traction frame	PC-5068	-
Collapsible bedside rail*3)	PS-023, PS-023A, PS-023V	22
	PS-0232	32

- *1) These products may not be available in some countries or regions. For details, contact Paramount bed (see p.51) or your distributor.
- *2) In some countries or regions, some of the medical device or its accessories fall under the category of medical devices. For details, contact Paramount Bed (see p.51) or your distributor.
- *3) Use the PA-90000 series bed in combination with PS-023, PS-023A, PS-023V, or PS-0232 for applying IEC60601-2-52.

2. IV pole

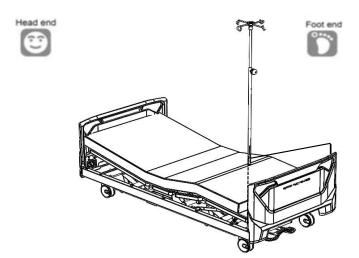
This IV pole is designed to be attached to the medical device when giving an intravenous drip to a patient.



- Do not move the bed with holding the IV pole. The IV pole may break causing 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 base or side rail and the IV pole. The hand or arm may get caught and get injured.
- Each hook's 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.



Model no.

KC-56A, KC-56B, EC-562



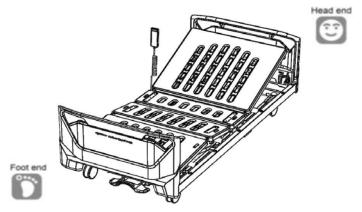
- Be sure to read the instruction manual attached to the IV pole as well.
- The description in the respective instruction manual may be different from the description in this manual due to changes in specification. In case of any question, contact your distributor.

3. Battery (PAB250T/ Electric hospital bed only)

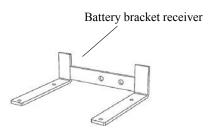
This battery is intended to provide power to the medical device when the external power supply is not available.

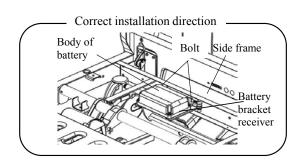
MARNING

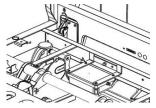
- When connecting the battery cable, unplug the power plug and confirm the patient not on the bed. There is a risk of injury due to accidental operation or electric shock due to a short circuit.
- Install battery on the foot side of main frame.
 For old product, battery is installed on head frame.



2. Pay attention to direction of battery bracket receiver and it's installation.

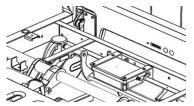




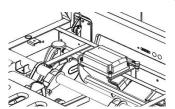


If installing with incorrect bracket direction.

Incorrect installation direction



If bracket installation direction is correct but battery installation position is incorrect.

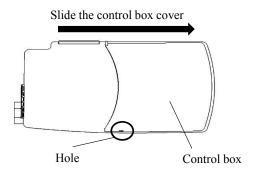


If bracket installation direction and battery installation position is incorrect.



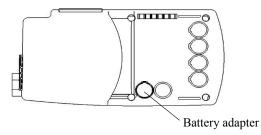
• If installed with incorrect direction, interfence with central pedal and foot frame stay will occur, the body of battery and cable may be damaged.

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



- 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>



ACAUTION

- 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.
 - O Do not disassemble the battery case or built-in battery.
 - O Do not incinerate the battery unit.
 - O Do not recharge the battery other than with suitable control box of the bed.
 - O Do not use the battery unit with equipment other than the suitable bed.
 - O Do not subject the battery unit to impact.
 - O 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;
 - O 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.
 - O When you change the battery, please contact Paramount Bed or your distributor.

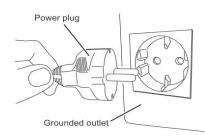
■ The battery is an auxiliary power supply for operating an electrically operated table when not connected to a power outlet.

[Operating the table on battery power]

● The table 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 table power plug in plugged into the power outlet.





- The battery should be charged (for more than 24 hours) immediately after purchase
- The battery is optional. For detail on the model number, contact Paramount Bed or your distributor.

[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 table on battery power.
- If the table is equipped with a battery, and the table 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.



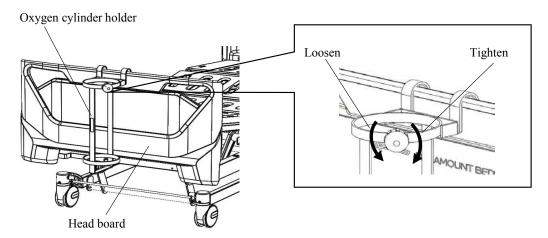
- ●The battery life will vary depending on the usage frequency, usage conditions and storage conditions
- Regardless of whether the battery is used, its life will start to drop off after a few years.

4. Oxygen cylinder holder (PC-5038)

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

∕MARNING

- 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, and then slowly insert the oxygen cylinder into the holder from the top.
- 3. Firmly tighten the knob bolt to fasten the oxygen cylinder



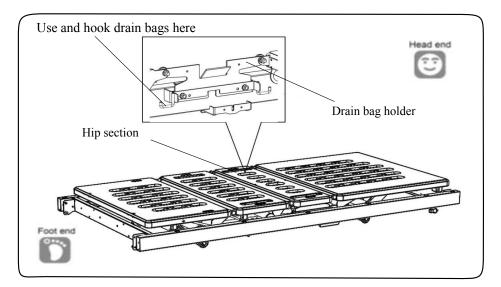


For any quaries, please feel free to contact Paramount Bed or your distributor

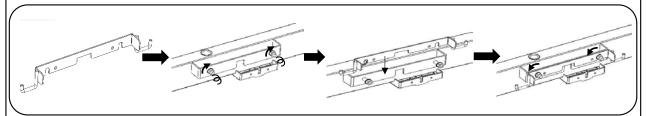
5. Drain bag holder (PC-5123)

This drain bag holder is designed for hanging drain bags.

The drain bag holder are located one each on the left and right at the bottom of hip section. (2 location in total).



1. Attaching



- Prepare the 1pcs drain bag holder.
- Loosen 2 nut a little bit on left and right side.
- Attach drain bag holder from the upside.
- Fix the nut and make sure the installation is corrected.

2. Detaching

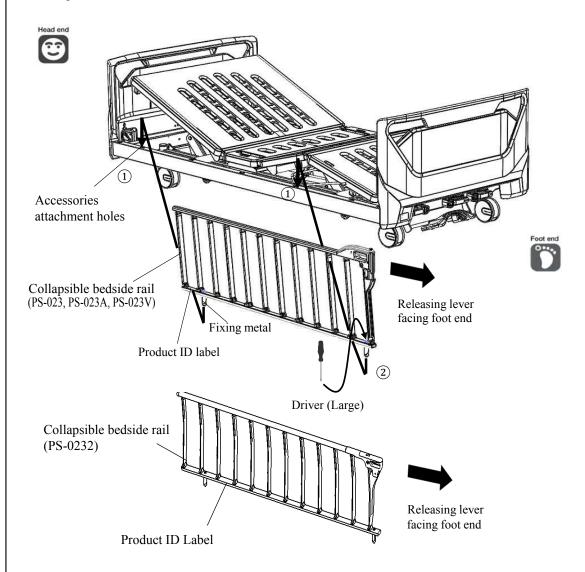
• For detaching drain bag holder, reverse the procedure above.

⚠WARNING

- When using the drain bag holder, tighten the nut firmly and do not install the drain bag holder while the patient is on the bed. There is a risk that hip section may fall and resulting in injury.
- Do not apply a load of 3kg or more to an drain bag holder. This may damage or deform the drain bag holder.
- When hanging a drainage bag, take care to prevent the bag from coming into contact with the floor.

6. Collapsible bedside rail

This collapsible bedside rail is intended to be fit on bed side to use, prevent patients and bed clothing falling off from bed.



- 1. With releasing lever facing forward foot end, install side rail fixing metals to accesories attachment holes.
- 2. Make sure to tighten the fixing bolts.
- 3. Please check the side rail being fixed firml, before usage.

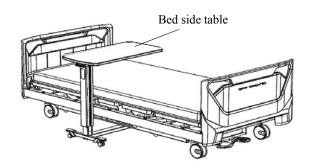


 Please attach and lock firmly. Otherwise, side rail may come off abruptly, resulting in injury, or damage side rail.



• All installation methods are the same.

Bed side table is used for having meals or doing something on the bed.



Model no. KF-282 PF-3100A, PF-3110A PF-3120A, PF-3130A



● Remove the table from the bed when performing positioning operations of the bed. Otherwise, the patient may get caught between the table and bed and get injured.



- Be sure to read the instruction manual attached to the bed side table as well.
- The description in the respective instruction manual may be different from the description in this manual due to changes in specifications. In case of any question, contact your distributor.

Over bed table is used for having meals or doing something on the bed.



Mattress base width	Suitable over bed table
910	KF-83*LA/LB/LC
	KF-813
830	KF-83*SA/SB/SC
	KF-814



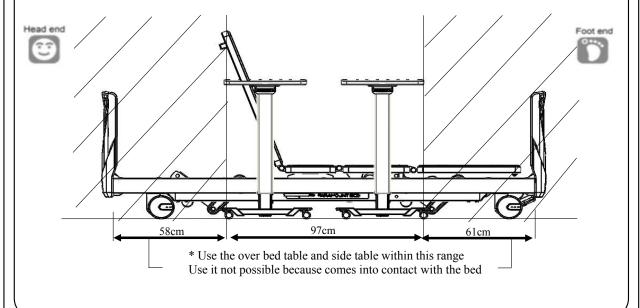
Remove the table from the bed when performing positioning operations of the bed. Otherwise, the patient may get caught between the table and bed and get injured.



- Be sure to read the instruction manual attached to the bed side table as well.
- The description in the respective instruction manual may be different from the description in this manual due to changes in specifications. In case of any question, contact your distributor.

ACAUTION

● The following figure shows the over bed table and side table usage range (the shaded areas cannot be used). Use the over bed table and side table within this range. Using the over bed table and side table outside the range shown in the figure below may cause damage to or deformation of the over bed table and side table. Note that when the side rail and grip for the bed are used (attached), the over bed table cannot be used in the vicinity of the highest bed height.





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

14 PRODUCT SYMBOL DEFINITIONS

■ The symbols below are used for the product.

Symbol	Description
	●Indoor use symbol
	●Electrical waste
<u>i</u>	See the instruction manual
③	Read the instruction manual
\sim	•AC input
	●Protective ground terminal
SN	Serial number
ISO 22196 for KOHKIN	●KOHKIN SIAA mark
2145 cm BMI217	The medical bed for adults.
	●Product weight
<u>^</u>	Safe working load
	Maximum patient weight
+	●Total weight including load capacity
#	●Model number
IPx4	●Protection code
((●CE mark

Symbol	Description
	● Take care to prevent the patient's head from getting caught in the gap between side rails and the bed.
A	● Take care to prevent neck from getting caught between side-rails and board.
0	● Take care to prevent body parts from getting caught in the moving parts on the bed.
	● Take care to prevent patient's hand and foot from getting caught between side-rails and the bed.
°*	●Do not lean over a side-rail
LOT	●Lot number
†	● Type B applied part ● Applied parts are considered to be: Upper frame section, Controllers, Side-rails, Headboard and Footboard
UDI	This a 2D code (GS1 Data Matrix) that encodes the UDI (Unique Device Identifier) required by the Unique Device Identification System designed to adequately identify device through distribution and use.
***	Manufacture *It may be called "Legal Manufacturer" or "Brand Owner" etc. *The symbol is not applicable in the country of origin.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	● Country of manufacture (made in Indonesia) ■ Manufacturing site *In the country of origin, the site acts as the manufacturer. ■ Date of manufacture (YYYY-MM-DD)
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).
EC REP	•Authorized representative in the European community

15 REGULAR INSPECTION AND DAILY MAINTENANCE

■ 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.



• Water adhesion to the bed or mattress, or moisture may cause corrosion, abnormal noise or contamination. If water adheres to the bed or 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.
- To wash the bed using water, pour water on the bed to wash out stains. Finally, use a dry cloth to wipe the bed to ensure it is dry.
- To disinfect the bed, always dilute detergents used as specified below and follow the instructions described in the instruction manual.

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)

• The bed should be disinfected before a different patient uses the bed.

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







- Do not use disinfectant other than those specifed. There is a risk of damage or deterioration.
- After cleaning the bed detergent, be sure to wipe any residual detergent with a cloth soaked in water and wrung out well. Otherwise, there is a risk of damage to the plastic parts.
- When a washing the bed with water, do not pour water from under the base cover. There is a risk of malfunction.
- Do not wash the bed by a bed washer or high-pressure water. There is a risk of malfunction.



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

15 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

	Operation details	Inspection items
	Page raise energion (n. 17)	Proper operation can be achieved.
	Back-raise operation (p.17)	There must not be any strange noises.
	Vnas raise eneration (n. 17)	Proper operation can be achieved.
	Knee-raise operation (p.17)	There must not be any strange noises.
	Hi-lo operation (p.17)	Proper operation can be achieved.
	111-10 operation (p.17)	There must not be any strange noises.
Bed unit		There must not be any scratches and
Dea unit		deformation at the mattress base, frame or any
		other parts.
	Miscellaneous	There must not be any deformation, damage, or
	Wilsechaneous	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
Dourd	Board mounting condition (p.17)	There must not be any remarkable rattling.
		There must not be any strange noises when the
		bed is travelling.
	Travelling	There must not be any strange vibration when
	Travening	the bed is travelling.
		Proper operation can be achieved.
Caster		The operation must not be unusually difficult.
Caster		The bed must not move when the caster are
		locked.
	Caster locking operation (p.22)	The bed must move smoothly when the locked
	Caster locking operation (p.22)	is released.
		When is steering position, swiveling of the
		steering caster must be locked.
T1		Cable must not get tangled in the bed.
Electrical part		Plugs and cables must have no scratches or
(Electrical bed	Visual check of electrical parts	damage.
only)		There must not be any scratches and damage on
3 /		the handheld controller.

WARNING

- Do not wash the padding. There is a risk of padding degradation.
- Do not use a mattress washer, an ozone sterilizer or autocrave apparatus. There is a risk of damage, deterioration or degradation.
- Do not leave any blood, urine, sudor or sebum on the mattress. Clean dirt frequently with neutral detergent or soap. If left untreated, the surface material may degrade, smell or stain may result.
 - The smell that is left during use may be neutralized with mouthwash.
 - If the mattress is stained, wipe off throughly with oxydol (3% hydrogen peroxide).
 - Use thrombolytic agent, if it is difficult to clean blood. In that case, try using it on the end of the firtsly, because there is a risk of discoloration or deterioration.
- Do not use volatile cleaning fluids (such as paint thinner, benzene or gasoline) and cresol. Discoloration or deterioration could result.
- Do not use disinfectant other than those specified. There is a risk of damage or deterioration.

■ Mattress unit

- When the mattress get dirty or the persons who use the mattress change, be sure to clean and disinfect both surface of the mattress in accordance with the procedures specified in steps 1 to 4 below. At this time, take care not to bend the mattress.
- Remove any soiling (blood, excreta, etc.)
- Wipe the mattress using a cloth that has been soaked in commercially available soapor neutral detergent diluted with water, and wrung out well.
- Disinfect the mattress by using disinfectant.
 - 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)
- Leave the mattress to dry out naturally on the bed or in another location. However, do not dry in the sun.
 - Clean and disinfect the mattress regularly
 - •Do not wash the mattress
 - Take care not to soak the padding.

ACAUTION

● Do not unzip the fastener and do not remove the cover when cleaning and disinfecting the mattress. Do not unzip the fastener while the mattress is in use. The fastener is provided so that the cover can be repaired or replaced if it damaged.



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

16 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

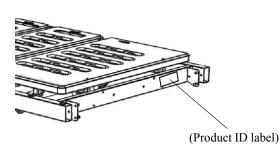
Problem	Check	Corrective action	Refer- ence page
	● Check if the power plug is plugged into the outlet.	Plug the power plug into the outlet.	16
The bed does not move even when the handheld controller buttons are pressed.	●The power plug is plugged into the outlet but the bed still does not move.	 Unplug the power plug from the outlet and plug it in again. Plug another electrical device into the outlet to check that power is available. 	16
	● Check if the power plug is plugged into the outlet.	Plug the power plug into the outlet.	16
● The POWER Lamp on	• Check if the handheld controller lock function is off.	● Press the lock button to switch the handheld controller lock function OFF	_
the handheld controller is OFF.	●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. 	_
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.	22
● The board will not come off.	● Check if the board is locked.	●Unlock the board stopper	14

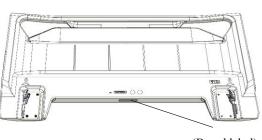
● When requesting repairs or contacting Paramount Bed or your distributor, please provide the number on the product ID label.

■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.

■ Product ID label locations







17 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 base flat.
 - 2. Lower the bed to the lowest position.
 - 3. Do not place objects other than mattress on the bed.
 - 4. Do not place anything on the mattress.
 - 5. Store the bed in a low-dust environment away from extreme temperatures or humidity. Store the bed at a temperature between -10°C and 50°C, humidity between 20%RH and 90%RH.
 - 6. Do not lean the bed againts a wall; store it level on the floor.
 - 7. For electrically-operated bed, be sure to disconnect the power plug from the power outlet and coil the power cable on a cable storage hook (see p.16)



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

Bed disposal

When the PA-90000 series bed has reached the end of its usable life, discard it according to local standards.

Product name		Family name		PA-90000 Series					
Quantity of motors									
Auto contour		Mod	del no.	PA-93286	PA-93186	PA-93256	PA-93156	PA-93296	PA-93196
Back raising		Quantit	y of motors			3 m	otors		
Power cable length	n re	A	uto contour			Mot	orized		
Power cable length	atic	Back raising Knee raising				Mot	orized		
Power cable length	per	Mack raising Knee raising				Mot	orized		
Total length	O	Heig	ght adjusment			Mot	orized		
Total width	P				A	_		0Hz	
Mattress base width						215	8mm		
Total height 692[+20,-10] to 1,072[+20,-10] mm 740[+20,-10] to 1,120[+20,-10] mm 747[+20,-10]					960mm		960mm		960mm
Power cable length Product weight	S	Matt	ress base width						
Power cable length Product weight	ion	Т	otal height				,120[+20,-10]mm	747[+20,-10] to	1,127[+20,-10]mm
Power cable length Product weight	ens	Mattres	s base height (1*)					345[+20,-10] to	725[+20,-10]mm
Power cable length Product weight)im							_	
Power cable length Product weight Pr			Casters	Double-w	heel caster	Single-wh	neel caster	Single-w	heel caster
Product weight 114kg 102kg 112kg 100kg 110kg 98kg Head/foot boards				(Central loc	king system)	(Central local	king system)	(Diagonal lo	ocking system)
Head/foot boards HDPE resin molding		Powe	er cable length	2,500mm					
Base Made of steel, powder coating (some parts are resin mold items) Main frame Made of steel, powder coating (some parts are resin mold items) Safe working load (*2) 204Kgf (2000N) Back section base inclination angle 0° to 70° [±7]° Knee section base inclination angle 0° to 25° [±2.5]° Height adjustment range 380mm Operation guarantee conditions Temperature 5 to 40° C Temperature 20 to 90%RH Actuator type Linear actuator (DC motor) Power consumption Back-raising 170VA max. Figure 170VA max. Duty cycle 2min. (stop time: 18min (*3)) 8 years (based on Paramount Bed data), excluding consumable items such as				114kg	102kg			110kg	98kg
Safe working load (*2) Back section base inclination angle Knee section base inclination angle Of to 70° [±7]° Knee section base inclination angle Height adjustment range Operation guarantee conditions Humidity Actuator type Linear actuator (DC motor) Back-raising 170VA max. Fower consumption Back-raising 170VA max. Height adjustment 285VA max. Duty cycle Service life 8 years (based on Paramount Bed data), excluding consumable items such as	ial	Hea	nd/foot boards						
Safe working load (*2) Back section base inclination angle Knee section base inclination angle Of to 70° [±7]° Knee section base inclination angle Height adjustment range Operation guarantee conditions Humidity Actuator type Linear actuator (DC motor) Back-raising 170VA max. Fower consumption Back-raising 170VA max. Height adjustment 285VA max. Duty cycle Service life 8 years (based on Paramount Bed data), excluding consumable items such as	ateı								
Back section base inclination angle Knee section base inclination angle Height adjustment range Operation guarantee conditions Humidity Actuator type Back-raising Fower consumption Duty cycle Service life Temperature 100 to 700 [±7]0 100 to 250 [±2.5]0 1800 Temperature 1800 Temperature	M								
		Safe work	ring load (*2)						
Height adjustment range 380mm Operation guarantee conditions Temperature 5 to 40° C Humidity 20 to 90%RH Actuator type Linear actuator (DC motor) Power consumption Back-raising 170VA max. Knee-raising 170VA max. Height adjustment 285VA max. Duty cycle 2min. (stop time: 18min (*3) Service life 8 years (based on Paramount Bed data), excluding consumable items such as	Ba	ck section ba	se inclination angle	0^{0} to $70^{0} \left[\pm 7\right]^{0}$					
Height adjustment range 380mm Operation guarantee conditions Temperature 5 to 40° C Humidity 20 to 90%RH Actuator type Linear actuator (DC motor) Power consumption Back-raising 170VA max. Knee-raising 170VA max. Height adjustment 285VA max. Duty cycle 2min. (stop time: 18min (*3) Service life 8 years (based on Paramount Bed data), excluding consumable items such as	Kn	ee section ba	se inclination angle		0^0 to 25^0 [+2.5] 0				
Operation guarantee conditions Temperature 5 to 40° C Humidity 20 to 90%RH Actuator type Linear actuator (DC motor) Power consumption Back-raising 170VA max. Knee-raising 170VA max. Height adjustment 285VA max. Duty cycle 2min. (stop time: 18min (*3) Service life 8 years (based on Paramount Bed data), excluding consumable items such as		Height adj	ustment range						
Actuator type Linear actuator (DC motor) Power consumption Reight adjustment Reight	Opera								
Actuator type Linear actuator (DC motor) Power consumption Back-raising 170VA max.	1								
Power consumption Back-raising 170VA max.									
Knee-raising 170VA max. Height adjustment 285VA max. Duty cycle 2min. (stop time: 18min (*3) Service life 8 years (based on Paramount Bed data), excluding consumable items such as		Back-raising							
Duty cycle 2min. (stop time: 18min (*3) Service life 8 years (based on Paramount Bed data), excluding consumable items such as		/ noo rolging		170VA max.					
Service life 8 years (based on Paramount Bed data), excluding consumable items such as	con	Height adjustment							
Service life		Dut	y cycle						
caster		Cam	rian lifa	` *					
		Serv	rice file	caster					

^{*1)} The mattress base height indicates the height from the floor to the mattress base surface.

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

^{*3)} Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

Family name		PA-90000 Series					
		ict name			ospital Bed		
		lel no.	PA-93286N	PA-93186N	PA-93206N	PA-93106N	
		of motors	3 motors				
on ire		uto contour	Motorized				
rati edt	Back raising Knee raising Height adjustment		Motorized				
)pe iroc	Knee raising				orized		
	neight adjustitent				orized		
P		voltage/frequency			10%V/ 50/60Hz		
Total length				8mm			
		otal width	1040mm	960mm	1040mm	960mm	
S		ess base width	910mm	830mm	910mm	830mm	
ion		otal height		,072[+20,-10]mm		1,105[+20,-10]mm	
Dimensions	Mattress	s base height (1*)		670[+20,-10]mm		703[+20,-10]mm	
)im				m dia.		nm dia.	
Ι		Casters	Double-w	heel caster		vheel caster	
			(Central loc	king system)	(Central lo	cking system)	
	Powe	er cable length		2,500mm			
		ct weight	119kg	106kg	119kg	106kg	
1	Hea	d/foot boards	HDPE resin molding				
Material	S	Side panel	PVC				
Лар		Base	Made of steel, powder coating (some parts are resin mold items)				
~	N	Iain frame	Made of steel, powder coating (some parts are resin mold items)				
	Safe work	ing load (*2)	204Kgf (2000N)				
Ba	ck section bas	se inclination angle	0^{0} to $70^{0} \left[\pm 7\right]^{0}$				
Kn	ee section bas	se inclination angle	0^0 to $25^0 [\pm 2.5]^0$				
	Height adjı	ustment range	380mm				
	ation guarante	ee Temperature		5 to	40 ⁰ C		
(conditions	Humidity			90%RH		
	Actua	ntor type			or (DC motor)		
		Type/quantity	Small sealed lead acid battery				
]	Battery Type/quantity		(12 VDC/1.2 Ah) x 2				
Rating		24 VDC/1.2 Ah					
	Power Back-raising		170VA max.				
	Consumption Knee-raising		170VA max.				
CO1	Height adjustment		285VA max.				
	Dut	y cycle		` *	me: 18min (*3)		
	Serv	rice life	8 years (based on P caster	aramount Bed data)	, excluding consum	able items such as	

^{*1)} The mattress base height indicates the height from the floor to the mattress base surface.

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

^{*3)} Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

Family name		ly name	PA-90000 Series
Product name		* * * *	Electric Hospital Bed
Model no.			PA-93485V
	Quantity	of motors	3 motors
on re	Aı	uto contour	Motorized
atic		ack raising	Motorized
Operation procedure		nee raising	Motorized
		ht adjusment	Motorized
P		oltage/frequency	AC 100-240V <u>+</u> 10%V/ 50/60Hz
		otal length	2,134mm
Ø		otal width	1,160mm
ion		ess base width	910mm
ens		otal height	761[+20,-10] to 1,141[+20,-10]mm
Dimensions	Mattress	s base height (1*)	290[+20,-10] to 670[+20,-10]mm
		Casters	125mm dia. Double-wheel caster (Central locking system)
		er cable length	2,500mm
		ct weight	145kg
11		ead/foot boards Wood	
Material	S	Side panel	Wood
Mat		Base	Made of steel, powder coating (some parts are resin mold items)
		Iain frame	Made of steel, powder coating (some parts are resin mold items)
	Safe work	ing load (*2)	204Kgf (2000N)
Ba	ck section bas	se inclination angle	0^0 to $70^0 [\pm 7]^0$
Kn	nee section bas	se inclination angle	0^0 to $25^0[\pm 2.5]^0$
	Height adju	istment range	380mm
Oper	ation guarante	e Temperature	5 to 40 ⁰ C
_	conditions Humidity		20 to 90%RH
	Actuator type		Linear actuator (DC motor)
	Back-raising		170VA max.
	Power	Knee-raising	170VA max.
COI	consumption Height adjustment		285VA max.
	Duty	y cycle	2min. (stop time: 18min (*3)
	Came	ice life	8 years (based on Paramount Bed data), excluding consumable items such as
	Serv	ice me	caster

^{*1)} The mattress base height indicates the height from the floor to the mattress base surface.

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

^{*3)} Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

Family name		PA-90000 Series						
Product name				Manual H	lospital Bed			
	Model no.		PA-99286	PA-99186	PA-99256	PA-99156	PA-99296	PA-99196
ion ure	Back	raising			Ma	nual		
Operation procedure	Knee	e raising			Ma	ınual		
Op	Height	adjusment			Ma	nual		
	Tota	l length			2,15	58mm		
	Total width		1,040mm	960mm	1,040mm	960mm	1,040mm	960mm
suc	Mattress	base width	910mm	830mm	910mm	830mm	910mm	830mm
Dimensions	Tota	l height	732[+20,-10] to 1	,112[+20,-10]mm	740[+20,-10] to 1	,120[+20,-10]mm	747[+20,-10] to	1,127[+20,-10]mm
me	Mattress ba	ase height (1*)	330[+20,-10] to	710[+20,-10]mm	338[+20,-10] to	718[+20,-10]mm	345[+20,-10] to	725[+20,-10]mm
Di			125mm dia.		125mm dia.		125mm dia.	
	Ca	asters	Double-w	Double-wheel caster Single-wheel caster		Single-wheel caster		
			(Central local	king system)	(Central loc	king system)	(Diagonal lo	ocking system)
	Product v	veight	112kg	101kg	112kg	101kg	109kg	97kg
ial	Head/f	oot boards				sin molding		
Material		Base				(some parts a		
M	Mair	n frame	Made of steel, powder coating (some parts are resin mold items)				items)	
	Safe working	(load (*2)	204Kgf (2000N)					
Ba	ck section base i	nclination angle	0^{0} to 75^{0} [± 7.5] ⁰					
Kn	Knee section base inclination angle		0^{0} to 45^{0} [± 4.5] 0					
	Height adjustment range		380mm					
Opera	Operation guarantee Temperature		5 to 40 ⁰ C					
	conditions Humidity		20 to 90%RH					
	Service	life	8 years (base caster	ed on Paramo	unt Bed data)	, excluding c	onsumable ite	ems such as

^{*1)} The mattress base height indicates the height from the floor to the mattress base surface.

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

Family name		PA-90000 Series				
Product name			Manual H	Iospital Bed		
	Model	no.	PA-99286N	PA-99186N	PA-99206N	PA-99106N
on are	Back	k raising		Ma	anual	
Operation procedure	Knee	e raising		Ma	nual	
Op	Height	adjusment		Ma	nual	
	Tota	ıl length		2,15	58mm	
	Tota	al width	1,040mm	960mm	1,040mm	960mm
suc	Mattress	s base width	910mm	830mm	910mm	830mm
nsic	Tota	ıl height	732[+20,-10] to 1	,112[+20,-10]mm	765[+20,-10] to	1,145[+20,-10]mm
Dimensions	Mattress ba	ase height (1*)		710[+20,-10]mm		743[+20,-10]mm
Di				m dia.	150mm dia.	
	C	asters	Double-wheel caster		Single-wheel caster	
			(Central locking system)		(Central locking system)	
	Product v	-	112kg	101kg	112kg	101kg
-	Head/f	oot boards	HDPE resin molding			
erië	Sid	e panel	PVC			
Material		Base	Made of steel, powder coating (some parts are resin mold items)			
		n frame	Made of steel, powder coating (some parts are resin mold items)			
	Safe working	g load (*2)	204Kgf (2000N)			
Ва	Back section base inclination angle		0^0 to $75^0 \left[\pm 7.5 \right]^0$			
Kı	Knee section base inclination angle		0^0 to $45^0 \left[\pm 4.5\right]^0$			
	Height adjust	ment range	380mm			
Oper	Operation guarantee Temperature		5 to 40 ⁰ C			
	conditions	Humidity	20 to 90%RH			
	Service life		8 years (based on Paramount Bed data), excluding consumable items such as caster			

^{*1)} The mattress base height indicates the height from the floor to the mattress base surface.

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

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

	User weight (min-max)	40kg to 138kg
	Minimum user height	146cm
Patient target group	Minimum user body mass index (BMI)	17
target group	Supported age range	13 years of age or older *Do not use the bed for children (aged 12 or under) or patient weighing more than 138kg
]	Intended users	Health care workers, patients, relative of patient, and maintenance staff
C	Clinical benefitt	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 function

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

• Classification and Standards

The electrical 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, COR1:2006, COR2:2007,

AMD1:2012 (or IEC 60601-1:2012 reprint)

: IEC 60601-1-2:2014

: IEC 60601-2-52:2009+AMD1:2015 for use

with IEC 60601-1:2005

: EN 60601-1:2006+A12:2014

: EN 60601-1-2:2015

: EN 60601-2-52:2010+A1:2015



•Electric shock protection : Class 1, Type B

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

For the PA-90000 Series, special attention is required to EMC-related safety.

Install, operate and use 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.

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 transciever 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 to or stacked with other equipment, make sure to monitor that it can operate properly in the location where bed is used.

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 againts wireless radio frequency transciever. 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	1.4	Without shield

Guidance and Manufacturer's Declaration - Electromagnetic Emissions

The PA-90000 Series is intended for use in the following electromagnetic environment. The customer or user of the PA-90000 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-90000 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.
RF emissions CISPR 11/EN 55011	Class A	
Harmonic emissions IEC 61000-3-2/EN 61000-3-2	Class A	The PA-90000 Series is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network
Voltage fluctuations/flicker emissions IEC 61000-3-3/EN 61000-3-3	Complies	that supplies buildings used for domestic purposes.

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PA-90000 Series is intended for use within healthcare facility 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: ±8kV Air discharge: ±2kV, ±4kV, ±8kV, ±15kV	Contact discharge: ±8kV Air discharge: ±2kV, ±4kV, ±8kV, ±15kV
Electrical fasttransient/burst IEC 61000-4-4 /EN 61000-4-4	±2kV Power supply line	±2kV 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	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°
/EN 61000-4-11	0% UT: 1 cycle 70% UT: 25/30 cycles Single phase: 0°	0% UT: 1 cycle 70% UT: 25/30 cycles Single phase: 0°
Short interruptions IEC 61000-4-11 /EN 61000-4-11	0% UT: 250/300 cycles Oltage before applying the test level.	0% UT: 250/300 cycles

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PA-90000 Series is intended for use in an electromagnetic environment that used wireless RF transciever. Electromagnetic interference can be prevented by maintaining the minimum distance between RF transciever and PA-90000 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)
	27V/m 385MHz	27	380-390	TETRA 400	Pulse modulation 18Hz	1.8	0.3
	28V/m 450MHz	28	430-470	GMRS 460, FRS 460	FM±5kHz deviation 1kHz sine	2	0.3
Enclosure port to RF wireless communications equipment IEC 61000-4-3 /EN 61000-4-3	9V/m 710MHz 9V/m 745MHz 9V/m 780MHz	9	704-787	LTE Band 13,	Pulse modulation 217Hz	0.2	0.3
	28V/m 810MHz 28V/m 870MHz 28V/m 930MHz	28	800-960	GSM 800/900, TETRA 800, iDen 820, CDMA 850, LTE Band 5	Pulse modulation 18Hz	2	0.3
	28V/m 1720MHz 28V/m 1845MHz	28	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3,	Pulse modulation 217Hz	2	0.3
	28V/m 1970MHz			4, 25; UMTS			
	28V/m 2450MHz 28		2400-2570	Bluetooth, WLAN 802.11 b/g/n RFID 2450, LTE Band 7	Pulse modulation 217Hz	2	0.3
	9V/m 5240MHz 9V/m 5500MHz 9V/m 5785MHz	9	5100-5800	WLAN 802.11 a/n	Pulse modulation 217Hz	0.2	0.3

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PA-90000 Series is intended for use in the following electromagnetic environment. The customer or user of the PA-90000 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		
Conducted	3V 0.15MHz-80MHz	3V 0.15MHz-80MHz	Field intensity from the fixed RF transmitter		
disturbance induced by RF fields IEC 61000-4-6 /EN 61000-4-6	6V in ISM bands between 0.15MHz- 80MHz 80%AM at 1kHz 80% AM at1kHz	6V in ISM bands between 0.15MHz- 80MHz 80%AM at 1kHz 80% AM at1kHz	determined by a field investigation of the magnetic field must be lower than the compliant level of the respective frequency band. Near devices with the following symbol, interference could occur.		
Radioactive RF electromagnetic field IEC 61000-4-3 /EN 61000-4-3	3V/m 80MHz-2.7GHz 80% AM at 1kHz	3V/m 80MHz-2.7GHz 80% AM at 1kHz			

a. 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-90000 Series is used exceeds the above RF compliance level, make sure to monitor if the PA-90000 Series operates appropriately. If abnormal movement is found, take additional measures as needed, such as changing the direction or position of the PA-90000 Series.

b. These guidelines are 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 "16. TROUBLESHOOTING" (p. 40) in this instruction manual. If the problem persists, disconnect the bed 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.40)
 - Date of purchase
 - •Details of fault or problem (please provide as much detail as possible)
 - Your name, organization, address, and phone number
- Consumable parts

Casters, handheld controller 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 Paramount Bed or your distributor. Website: https://www.paramount.co.jp/english/



Location in Japan (Manufacturer)

Paramount Bed Co., Ltd.

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Tokyo, 136-8670, Japan
TEL: +81-(0)3-3648-2961
FA Date 8 Manufacture (Manufacturing premises)

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TEL: +62-(0)21-8981051
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 Authorised representative in the european community



EMERGO EUROPE

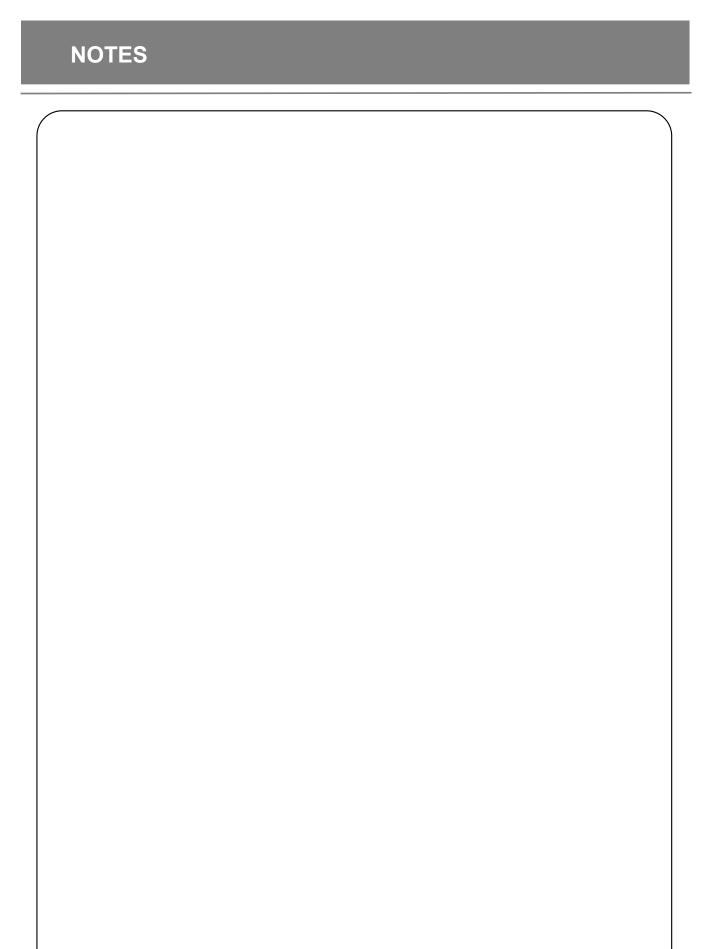
Westervoortsedijk 60, 6827 AT Arnhem The Netherlands

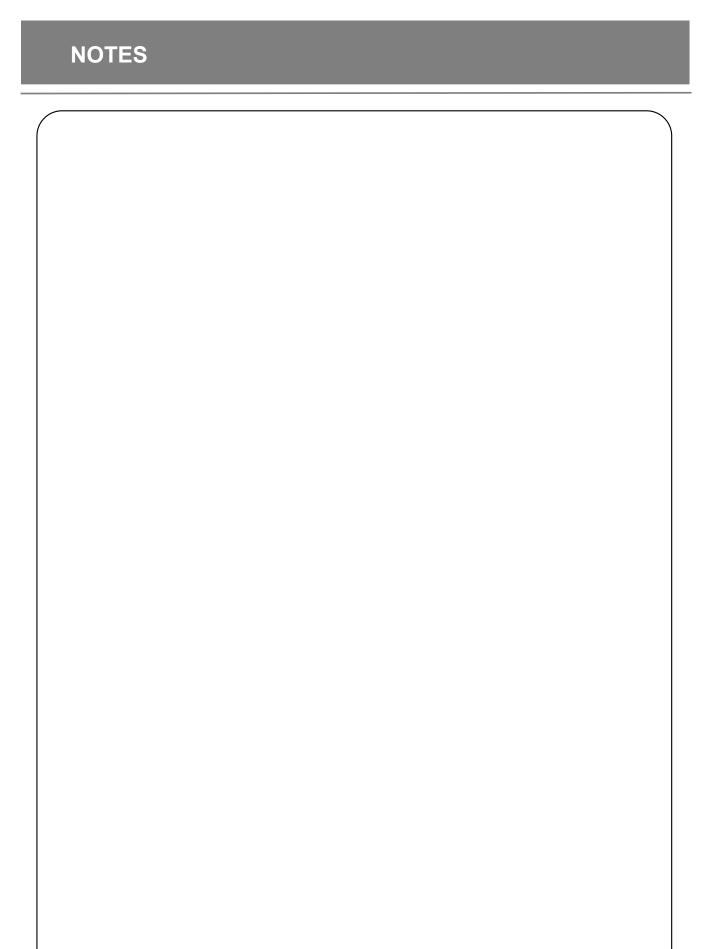


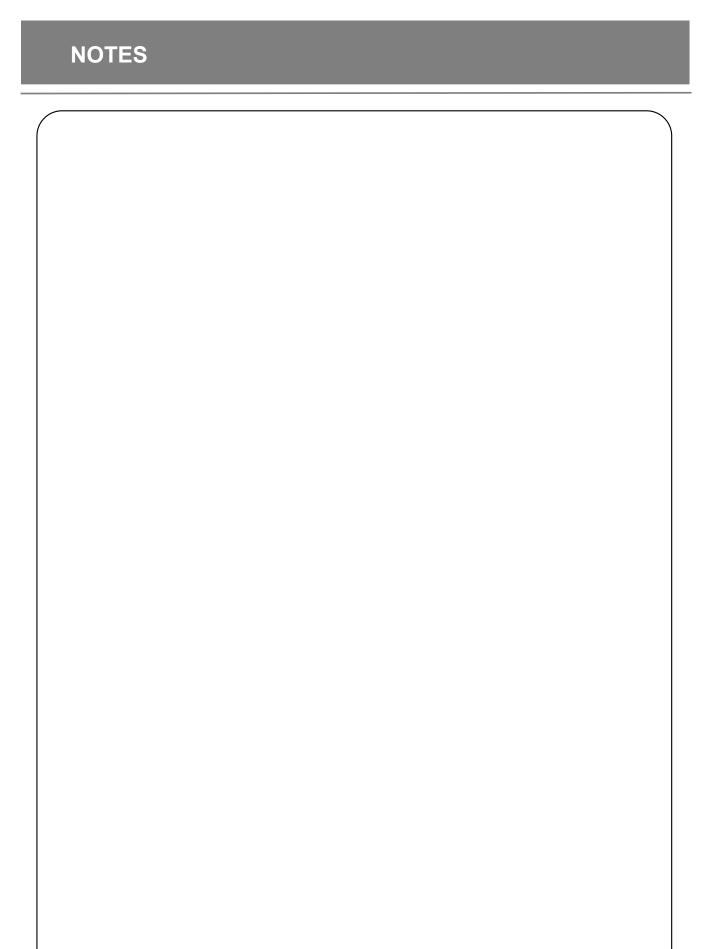


The SIAA mark is displayed on products for which quality management and information have been published in the guidelines of Society of International sustaining growth for Antimicrobial Articles based on results evaluated according to the ISO22196 method.

Inorganic antimicrobial agent/kneading: Head board, foot board. JP0122394A0002Y





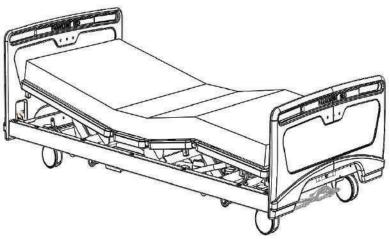




INSTRUCTION MANUAL

7A10625900A7

PA-90000 Series Bed



Preface

Thank you for purchasing the PA-90000 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 of 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.
- Value 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 gueries, please feel free to contact your distributor directly.

PARAMOUNT BED CO, LTD.

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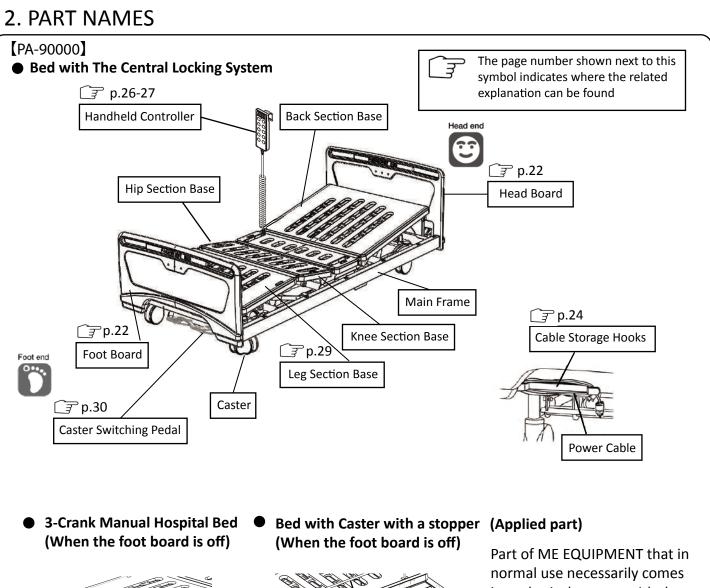
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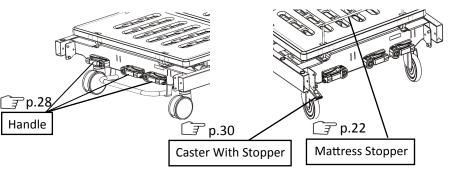
1 INTENDED USE / PART NAMES

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 and the intended users.

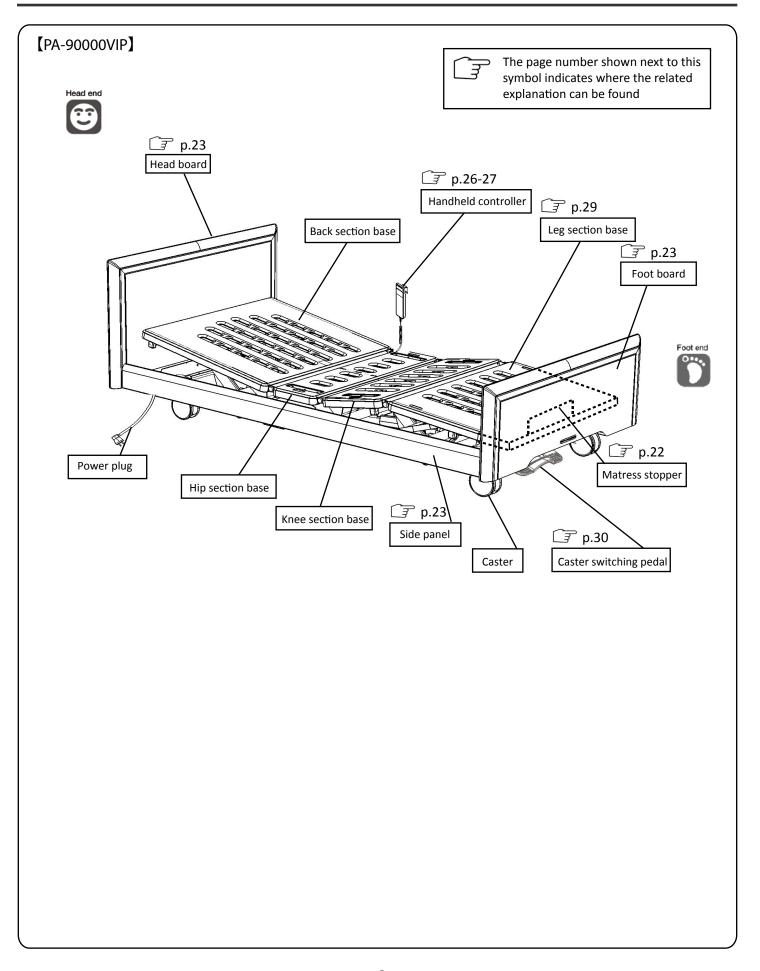
Note: Application environment 1 and 2 in IEC 60601-2-52:2009





normal use necessarily comes into physical contact with the patient for ME EQUIPMENT to perform its function.





- 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.

Precautions are classified as "WARNING", "CAUTION" to indicate the degree of hazard or injury that may result from improper use. **Both are important safety precautions that must be strictly observed.** Details of the pictograms used are shown below. Be sure to fully understand these precautions before reading the instruction manual.

	Ą	\
/	:	\

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.

[Example pictograms]





This symbol indicates warning or cautionary details. Specifics details are indicated inside the symbol. (The symbol on the left indicates "Caution: Electric shock."



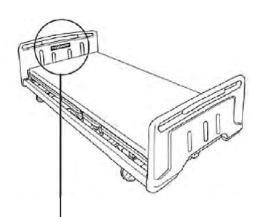


This symbol indicates actions that are prohibited. Specific setails are indicated inside or below the symbol. (The symbol on the left indicates "Do not disassemble.")

This symbol indicates instructions or actions that are mandatory. Specific details are indicated inside the symbol. (The symbol on the left indicates "Unplug the power plug.")

* 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 to the foot-end frame.
 Do not remove or dedace the label.
- If the safety label is removed or defaced, replace with a new one obtained from your distributor.



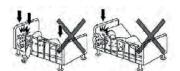




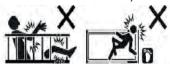


⚠ WARNING

■ Do not put any body part (especially the head or neck) between a fold-down side rail or board and the raised base (↓).



- When the head or neck enters the gap, the patient and/or user might not able to withdraw, and there is a risk of injury.
- Due attention should be paid to patients who cannot maintain posture by themselves.
- Even when side rails are used, pay attention to prevent patients from falling of the bed
 - A patient may fall off the bed through the gap between a board and fold-down side rail and get injured.
 - If a patient bends forward over a fold-down side rail, they may fall off the bed and get injured.
- Do not extend the head, hands, or feet outside of the bed.



- If the bed is operated with a body part (especially head or neck) placed in the gap, the part may get caught and injured
- Do not put any body part (especially the head or neck) between a fold-down side rails and the base or mattress.
 - When the head or neck enters the gap, the patient might not be able to withdraw, and there is a risk of injury.
 - A hand or finger may get caught in the gap, resulting in an injury.
- Do not insert a head (fingers) and between the bed's frame and section base during powered operation.



- The body part may get caught between the lowered base and the bed's frame or board and get injured.
- Lock the casters at all times except when moving the bed.



- The patient may be injured getting on or off the bed should it move.
- Unlock the casters when moving the bed.
- Before a patient gets on or off the bed, push down the safety stoppers of the side rail and completely fold down the side rail.



- The patient leg's could be caught by the side rail, causing the patient to fall off the bed or the patient's fingers could be caught between the supportive bars, causing injury.
- When using IV hanger rod, pay attention to prevent tubes from getting caught by the side rail.



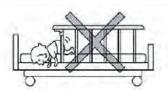
- The tubes could be squashed.
- When folding the side rails, proceed slowly.



 Releasing the hands in the middle of the operation or slamming the rail down could cause injury or damage to side rail.

⚠ WARNING

Do not use with infants.

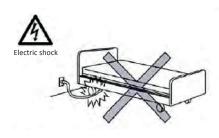


 They may fall down through the space of a fold-down side rail.

■ Do not allow dust to accumulate on the power plug.



- When dust adheres to the surface of the power plug, the moisture it holds will allow a current to flow, there will be a worsening of the insulation condition, and a risk of fire.
- Wipe away any dust accumulating on the power plug pins and mating surfaces using a dry cloth.
- Do not damage cables (including the power cable).



- Damage to cables may cause electric shock or a fire.
 - O Prevent cables from getting caught by the bed's movable parts.
 - O Do not put heavy objects on cables or apply strong force
 - O Do not place the bed on cables.
- Request repair (or replacement) for damaged cables.
- Do not trip over the power cable or cables of the handheld controller.
 - Damaged plug or cable may induce electric leakage, and in turn, electric shock.
 - There is a risk of falling down and getting injured.
- Do not run cables (including the power cable) of the bed or other electric appliances under the bed.
 - The cables may get caught in a caster or movable part and damaged, causing a fire or electric shock.
- When adjusting the base angle or the bed height, pay attention to the patient's conditions.
 - If a patient on the bed moves when adjusting the base angle, they may fall from the bed and get injured.
 - Perform the adjusment while supporting the patient who cannot maintain posture by themselves. If you cannot watch the patient, flatten the base angle and lower the bed to the lowest position. If not, the patient may fall off the bed or get caught in a space of a fold-down side rail or board and get injured.

⚠ WARNING

- Do not allow operation of the bed by a child aged 12 or under, or someone deemed incapable of comprehending the operation.
 - When a child aged 12 or under, or somenone deemed incapable of comprehending the operation (such as someone having a cognitive illness) operates the handheld controller by themselves, there is a risk of unexpected injury such as the body becoming caught in the bed by mistake.
 - If there is a risk of such person touching the handheld controller, disconnect the power plug in order to prevent an accident caused by incorrect operation.
 - When a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as someone having a cognitive illness) operates the handheld controller by themselves, there is a risk of unexpected injury caused by getting caught in the bed by mistake. (3-crank gatch bed only)
- When transporting a patient, attach the fold-down side rails.
 - There is a risk that the patient could fall from the bed and become injured.
 - Do not move the bed with holding the fold-down side rails. The side rails may get damaged or deformed.
- Use the bed in the proper orientation.







- Lying down on the bed with incorrect orientation of head end and foot end will result in an unnatural posture when the bed position is adjusted and this may cause injury.
- Do not perform an angle adjusment when the patient is lying face down.

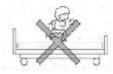






 Bending the joints in the wrong direction may result in injury.

■ Do not stand up on the bed.



- There is a risk of injury due to falling or toppling from the bed.
- Do not go under the bed or put your head, hand, or foot under the bed.



 You may get caught between the bed's movable part and the frame or fold-down side rail, resulting in injury. Prior to operating the bed, make sure that there is no obstacles around the bed.

♠ WARNING

■ Do not insert the power plug with wet hands.



There is a risk of electric shock due to short-circuiting.

- Do not spill liquids on the bed.
 - Do not spill liquids on the bed's electrical components, such as the motors, handheld controller, or nurse control panel, otherwise, there is a risk of malfunction. If liquids are accidentally spilt, unplug the power plug from the power outlet and contact your dealer.
- Do not use a mobile phone or other wireless device in the vicinity of the bed.
 - This may cause a malfunction of the bed.
- Repair or modification is not to be performed by the customer.



 There is a risk of abnormal operation and resulting injury.

■ Always unplug the power plug when using electronic medical equipment.



- Using electronic equipment (e.g. microwave or high-frequency medical equipment) at the same time may cause the bed to malfunction.
- When the bed will be used in conjuction with other medical equipment, check the safety considerations before use.
- Do not attach a restraint belt to the main frame or side rails.

 Operation in position such as with the back raised or the knee raised may squeeze the body and cause injury.
- Use the bed properly according to the patient's medical condition.

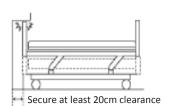
 Improper use of the bed may adversely affect the patient's medical condition.

 Before the patient or a family member operates the bed, make sure that the doctor or nurses explain related details given in the instruction manual and proper usage to suit the patient's medical condition.
- When leaving the bed, lower the bed to the minimum height.

 If a doctor, nurse, or attendant leaves the bed, lower the bed as much as possible according to the patient's conditions because there is a slight chance that the patient may fall off the bed.

A CAUTION

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



 When using the bed, make sure that the beds does not hit the wall beam, or power plug during the adjusment of the height or inclination angle.
 Make sure that there is at least 20 cm clearances from the wall or beam.

■ Do not sit on a fold-down side rail, head board, or foot board.



 The patient may toppie or fall from the bed, or the bed could be damaged or deformed and result in injury.

■ Do not climb on the bed in the raised position.



 The patient may toppie or fall from the bed, or the bed could be damaged or deformed and result in injury.

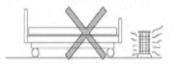
■ The bed should not be used by two or more persons.



- This bed is designed for use by one person. When used by two or more persons, the bed could be damaged and result in an injury. The maximum weight the bed can bear is 204 kg for the bed with the expansion function and 138 kg for the bed without the expansion function. If a doctor or nurse needs to get on the bed for a short time. Confirm the following condition beforehand.
 - O The load to be applied to the bed is less than the maximum weight that the bed can bear.
 - Bed with the expansion function :204 Kg
 - Bed without the expansion function :138 Kg
 - O The base has been lowered and is flat.
- If a doctor or nurse often gets on the bed, make sure to have the bed periodically inspected

⚠ CAUTION

■ Keep away from heaters.



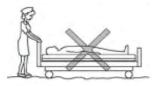
- Do not use heaters near the bed. Otherwise, the bed may be damaged or deformed, or even catch fire.
- Check around the bed before operating the bed.
 - A position operation could damage items located around the bed, or could cause the bed to be damage or deformed.
- Be sure to use the stopper for the headboard and footboard.



- If the board is not mounted properly, the board may suddenly come off when a staff pushes (pulls) the board to move the bed or a patient grabs the board to support their body, resulting in an injury. (see p.19)
- The angle of the leg section base should be adjusted by two or more persons.



- If the adjusment is done only by one person, their hand may get caught between the leg section base and main frame, resulting in injury. (see p.26)
- When moving the bed, watch your step.
- You may hit your leg againts the caster switching pedal or caster operating step or your foot my get caught by a caster, resulting in an injury.
- Avoid moving over uneven floors.



- It may result in a damaged or deformed bed or failure.
 If it is necessary, move the bed as slowly as possible.
- When operating the side rail releasing lever, pay attention not to allow the hands or fingers to get caught.



 There is a risk of injury as a result of being caught by the rotation parts of locking parts.

⚠ CAUTION

■ Hold the power plug body when unplugging.



- When holding onto only the power cable and pulling it to disconnect the plug from outlet, the cable could be damaged and there is a risk of electrical shock.
- Always unplug the bed before cleaning.



- There is a risk of injury due to a malfunction, or electrical shock due to a short circuit.
- Do not damage the handheld controller.



- There is a risk of electric shock or malfunction due to short circuit.
- When the handheld controller is damaged, request a repair (or replacement).
- Prevent patients from slipping off the bed.
 - When the back is raised or incline, the bed is set to the cardiac position, or a patient sits on the edge of the bed to get on or off, the patient may slip off the bed and get injured. The attendant should support the patient's body to prevent them for slipping off the mattress.
- Do not combine the bed with products other than the suitable products specified by Paramount Bed.
 - For optional items directly monted on the bed such as fold-down side rails and mattress, use suitable products that are specified by Paramount Bed. Using other product may create unwanted gaps, cause interference between products, or lower the product safety which may lead to an injury or bed failure.

⚠ CAUTION

■ Do not spray a spray tipe of insecticide directly on the bed.

Otherwise, there is a risk that the solvents contained in the insecticide could damage, discolor, or dissolve the bed casters or other resin parts. Pay due attention to this; othewise, there is a risk of unexpected injury due to damaged or dissolved parts.

■ Inspect the bed regularly.

- Depending on the frequency of use and the environment, the product will exhibit wear and deterioration. Regularly inspect for parts looseness, the operation of movable parts, and the precense of damage.
- Beds damage in accidents must be inspected and repair bed before reuse.
 - Beds damaged in earthquakes, fires, or floods, must be inspected and repaired by your dealer. Damaged electrically-operated bed may cause electric shock or fire due to a short circuit of electrical parts or an injury due to abnormal operation induced by deformation.

Family Name			PA-90000 Series						
Product Name					Electric Ho				
Model No. (*1)			PA-93485	PA-93385	PA-93275	PA-93175	PA-93295	PA-93195	
	Quantity of						Motors		
L a	Auto Contour					otorized			
ratic	Back Raising				Mo	otorized			
Operation Procedure	Knee Raising				Mo	otorized			
	Heigl	ht A	djusment			Mo	otorized		
Powe	r Supply Vol	ltage	/ Frequency			AC 100-240V <u>+</u>	<u>+</u> 10%V / 50/6	0Hz	
	То	tal L	ength			2,	158mm		
	To	otal \	Width	1,040mm	960mm	1,040mm	960mm	1,040mm	960mm
	Mattre	ess B	ase Width	910mm	830mm	910mm	830mm	910mm	830mm
ions	To	tal H	leight	688[+20, -10] to 1	,068 [+20,-10]mm	741[-	+20, -10] to 1,	121 [+20,-10]r	nm
Dimensions	Mattress	Base	e Height (*2)	290[+20, -10] to	670 [+20,-10]mm	343	[+20, -10] to 7	'23 [+20,-10]m	m
Dim	(Casters		125mm dia. Double-wheel caster (Central locking system)		125mm dia. Single-wheel caster (Central locking system)		125mm dia. Single-wheel caster (Diagonal locking system)	
	Power	Cab	e Length			Effective leng	th: 2,500mm		
<u>'</u>	Product	Wei	ght	122 Kg	110 Kg	117 Kg	105 Kg	111 Kg	99 Kg
a	Head,	/Foo	t Boards			HDPE resi	n molding		
Material	Base		Made of steel, powder coating (some parts are resin mold items)						
Σ	Mai	in Fr	ame	Made of steel, powder coating (some parts are resin mold				items)	
9	Safe Workin	g Lo	ad (*3)	204 Kgf (2000N)					
Back S	ection Base	Incli	nation Angle	0º to 70º[<u>+</u> 7]º					
Knee Se	ection Base I	Incli	nation Angle	0° to 25°[<u>+</u> 2.5]°					
F	leight Adjus	men	t Range	380mm					
Operati	Operation Guarantee Temperature		5 to 40° C						
	Conditions Humidity		20 to 90%RH						
Actuator Type		Linear actuator (DC motor)							
Back-Raising		170VA max.							
Pov Consur		er Kasa Baisina		170VA max.					
Consu		Height Adjustment		285VA max.					
	Duty cycle		2min. (stop time: 18min (*4)						
	Service life			8 years (base as caster	ed on Paramou	ınt Bed data),	excluding con	sumable items	such

^{*1)} The mattress base height indicates the height from the floor to the mattress base surface.

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

^{*3)} Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

Family Name			PA-90000 Series						
Product Name			Manual Hospital Bed						
Model No. (*1)			PA-99285	PA-99185	PA-99275	PA-99175	PA-99295	PA-99195	
E Sack Raising		Manual							
Operation Procedure	Knee Raising		Manual						
Op Pro	Height A	djusment		Manual					
	Total	Length			2,15	8mm			
	Total	Width	1,040mm	960mm	1,040mm	960mm	1,040mm	960mm	
	Mattress E	Base Width	910mm	830mm	910mm	830mm	910mm	830mm	
ions	Total I	Height	728[+20, -10] to 1	,108 [+20,-10]mm	741	741[+20, -10] to 1,121 [+20,-10]mm			
Dimensions	Mattress Bas	Mattress Base Height (*2)		710 [+20,-10]mm	343[+20, -10] to 7		⁷ 23 [+20,-10]mm		
Din	Casters			m dia. neel caster king system)	Single-wh	m dia. neel caster king system)	125mm dia. Single-wheel caster (Diagonal locking system)		
	Product We	ight	117 Kg	105 Kg	117 Kg	105 Kg	111 Kg	99 Kg	
ia	- Head/Foot Boards		HDPE resin molding						
Material	Base		Made of steel, powder coating (some parts are resin mold items)						
Σ	Main Frame		Made of steel, powder coating (some parts are resin mold items)						
	Safe Working Load (*3)			204 Kgf (2000N)					
Back S	ection Base Incl	ination Angle	0° to 75°[±7.5]°						
Knee S	Knee Section Base Inclination Angle			0° to 45°[<u>+</u> 4.5]°					
Height Adjusment Range			380mm						
Operation Guarantee Temperature		5 to 40° C							
Co	nditions	Humidity		20 to 90%RH					
Service life			8 years (base as caster	ed on Paramou	int Bed data),	excluding con	sumable items	s such	

^{*1)} The mattress base height indicates the height from the floor to the mattress base surface.

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

Family Name		lame	PA-90000 Series			
Product Name			Electric Hospital Bed			
Model No.		No.	PA-93485V			
	Quantity of Motors		3 Motors			
Auto Contour		to Contour	Motorized			
Operation Procedure	Back Raising		Motorized			
per	Knee Raising		Motorized			
	Heigl	nt Adjusment	Motorized			
Powe	r Supply Vol	tage/ Frequency	AC 100-240V <u>+</u> 10%V / 50/60Hz			
	То	tal Length	2,134mm			
	To	otal Width	1,160mm			
ons	Mattre	ss Base Width	910mm			
Dimensions	То	tal Height	761[+20, -10] to 1,141 [+20,-10]mm			
Dim	Mattress	Base Height (*1)	290[+20, -10] to 670 [+20,-10]mm			
	(Casters	125mm dia. Double-wheel caster (Central locking system)			
	Power	Cable Length	Effective length: 2,500mm			
	Product V	Veight	145 Kg			
	Head	Foot Boards	Wood			
Material	Sid	e panel	Wood			
Mat		Base	Made of steel, powder coating (some parts are resin mold items)			
	Main Frame		Made of steel, powder coating (some parts are resin mold items)			
:	Safe Workin	g Load (*2)	204 Kgf (2000N)			
Back S	ection Base	Inclination Angle	0º to 75º[<u>+</u> 7.5]º			
Knee S	ection Base	nclination Angle	0º to 45º[±4.5]º			
ŀ	Height Adjus	ment Range	380mm			
Operation	on Guarante	e Temperature	5 to 40° C			
Со	nditions	Humidity	20 to 90%RH			
Actuator Type		Туре	Linear actuator (DC motor)			
Power		Back-Raising	170VA max.			
Consur		Knee-Raising	170VA max.			
	- 1	Height Adjustment	285VA max.			
	Duty cycle		2min. (stop time: 18min (*3))			
	Service life		8 years (based on Paramount Bed data), excluding consumable items such as caster			

^{*1)} The mattress base height indicates the height from the floor to the mattress base surface.

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

^{*3)} Time to protect electrical parts from overheating when the bed is used continuously for duty cycle (2min).

3 SPECIFICATIONS

F 1 1 100	Range		
Environmental conditions	When transported or stored	When in use	
Temperature	-10 to 50°C	5 to 40°C	
Humidity	20 to 90%RH	20 to 90%RH	
Air pressure	700 to 1,060hPa	700 to 1,060hPa	

Patient Marget marget groups	User weight (min-max)	40kg to 138kg	
	Minimum user height	146cm	
	Minimum user body mass index (BMI)	17	
	Supported age range	13 years of age or older *Do not use the bed for children (aged 12 or under) or patient weighing more than 138kg	
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 electrical 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, COR1:2006, COR2:2007

AMD1:2012 (or IEC 60601-1:2012 reprint)

: IEC 60601-1-2:2014

: IEC 60601-2-52:2009+AMD1:2015 for use

with IEC 60601-1:2005

: EN 60601-1:2006+A12:2014

: EN 60601-1-2:2015

: EN 60601-2-52:2010+A1:2015

Electric shock protection : Class 1, Type B

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

For the PA-90000 series, special attention is required to EMC-related safety.

Install, operate and use 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.

∕NWARNING

- 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 transciever 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 to or stacked with other equipment, make sure to monitor that it can operate properly in the location where bed is used.

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 againts wireless radio frequency transciever. 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	2.2	Without shield

Guidance and Manufacturer's Declaration - Electromagnetic Emissions				
The PA-90000 Series is intended for use in the following electromagnetic environment. The customer or user of the PA-90000 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-90000 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.		
RF emissions CISPR 11/EN 55011	Class A	The PA-90000 Series is suitable for use in all		
Harmonic emissions IEC 61000-3-2/EN 61000-3-2		establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings		
Voltage fluctuations/ flicker emissions IEC 61000-3-3/EN 61000-3-3	Complies	used for domestic purposes.		

E SPECIFICATIONS

Guida	nce and ivi	anufacturer's Dec	ciaraπon - E	lectror	nagneτic imn	nunity	

The PA-90000 Series is intended for use within healthcare facility environment. Users or customers must use bed in this environment

IEC 60601-1-2/EN 60601-1-2 Test level	Compliance level
Contact discharge: ±8kV Air discharge: ±2kV, ±4kV, ±8kV, ±15kV	Contact discharge: <u>+</u> 8kV Air discharge: <u>+</u> 2kV, <u>+</u> 4kV, <u>+</u> 8kV, <u>+</u> 15kV
±2kV Power supply line	±2kV Power supply line
Line - line: ±0.5kV, ±1.0kV Line - ground: ±0.5kV, ±1.0kV, ±2.0kV	Line - line: ±0.5kV, ±1.0kV Line - ground: ±0.5kV, ±1.0kV, ±2.0kV
30 A/m	30 A/m
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 cycle 70% UT: 25/30 cycles Single phase: 0 ⁰	0% UT: 1 cycle 70% UT: 25/30 cycles Single phase: 0 ⁰
0% UT: 250/300 cycles	0% UT: 250/300 cycles
	#2kV Power supply line Line - line: ±0.5kV, ±1.0kV Line - ground: ±0.5kV, ±1.0kV, ±2.0kV 30 A/m 0% UT: 0.5 cycles Phase: 0°, 45°, 90°, 135°, 180°, 225°, 270°, 315° 0% UT: 1 cycle 70% UT: 25/30 cycles Single phase: 0°

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PA-90000 Series is intended for use in an electromagnetic environment that used wireless RF transciever. Electrromagnetic interference can be prevented by maintaining the minimum distance between RF transciever and PA-90000 Series depend on the maximum output and frequency of the communication device as recommended below.

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)
	27V/m 385MHz	27	380-390	TETRA 400	Pulse modulation 18Hz	1.8	0.3
	28V/m 450MHz	28	430-470	GMRS 460, FRS 460	FM±5 kHz deviation 1 kHz sine	2	0.3
	9V/m 710MHz				Pulse		
	9V/m 745MHz	9	704-787	LTE Band 13, 17	modulation 217Hz	0.2	0.3
	9V/m 780MHz						
	28V/m 810MHz			GSM 800/900, TETRA 800, iDen 820, CDMA 850 LTE Band 5	Pulse modulation 18Hz	2	0.3
Enclosure port to RF wireless	28V/m 870MHz	28	800-960				
communications equipment IEC 61000-4-3	28V/m 930MHz						
/EN 61000-4-3	28V/m 1720MHz		GSM 1800; CDMA 1900; GSM 1900; 1700-1990 DECT; LTE Band 1,3, 4,25; UMTS	CDMA 1900;	Pulse modulation 217Hz	2	0.3
	28V/m 1845MHz	28		DECT;			
	28V/m 1970MHz						
	28V/m 2450MHz	28	2400-2570	Bluetooth, WLAN, 802.11 b/g/n RFID 2450, LTE band 7	Pulse modulation 18Hz	2	0.3
	9V/m 5240MHz		5100-5800 WLAN 802. a/n				
	9V/m 5500MHz	9		5100-5800	WLAN 802.11 a/n	Pulse modulation 217Hz	0.2
	9V/m 5785MHz						

B SPECIFICATIONS

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The PA-90000 Series is intended for use in the following electromagnetic environment. The customer or user of the PA-90000 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	3V 0.15MHz-80MHz	3V 0.15MHz-80MHz	Field intensity from the fixed RF transmit determined by a field investigation of the	
IEC 61000-4-6 /EN 61000-4-6	6V in ISM bands between 0.15MHz- 80MHz 80%AM at 1kHz	6V in ISM bands between 0.15MHz- 80MHz 80%AM at 1kHz	magnetic field must be lower than the compliance level of the respective frequency band. Near devices with the following symbol,	
Radioactive RF electromagnetic field IEC 61000-4-3 /EN 61000-4-3	3V/M 80MHZ-2.7GHz 80%AM at 1kHz	3V/M 80MHZ-2.7GHz 80%AM at 1kHz	interference could occur.	

- a. 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-90000 Series is used exceeds the above RF compliance level, make sure to monitor if the PA-90000 Series operates appropriately. If abnormal movement is found, take additional measures as needed, such as changing the direction or position of the PA-90000 Series.
- b.These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

4 INSTALLING THE BED

Installation location

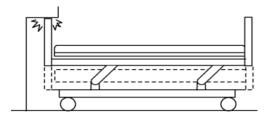
To avoid possible malfunctions, avoid installing the bed in the following locations:

- Area exposed to direct sunlight
- Near a heat source (stove, heater, etc.)
- Area exposed to excessive water vapor content or oil vapor
- Area which is extremely hot, cold, humid, or dry
 - ※ The optimum ambient conditions for the bed are as follows:

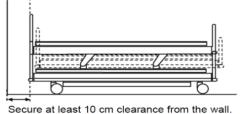
 Temperature 5 to 40°C/ Humidity 20 to 90%RH/ Atmospheric pressure 700hpa to 1060hPa.
- Area with a large amount of dust, smoke, salt, sulfur, or corrosive substances
- Area with poor ventilation
- Area with vibration or shock (including during transportation)
- Area where the floor is not strong enough
- Area where the floor is not level

A CAUTION

When performing height or inclination angle adjustments, pay attention not to hit the wall, beam, or power outlet on the wall. The bed or wall may be damaged or deformed.



When setting up the bed, make sure that there is at least 10 cm clearances from the wall. The bed operations may damage objects located around the bed, or may cause the bed to be damaged or deformed.

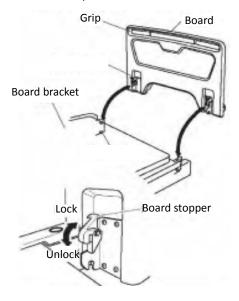


S ASSEMBLING THE BED (PA-90000)

1. Attaching/ detaching the headboard and footboard

The head board and footboard can be attached or detached.

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



Attaching

 Grasp the grip of the headboard or footboard, lift it, and mount it so that the board bracket engage with the mounting lugs on the bed. (The board stopper is automatically locked). Lightly lift the board and make sure that it is locked.

2 Detaching

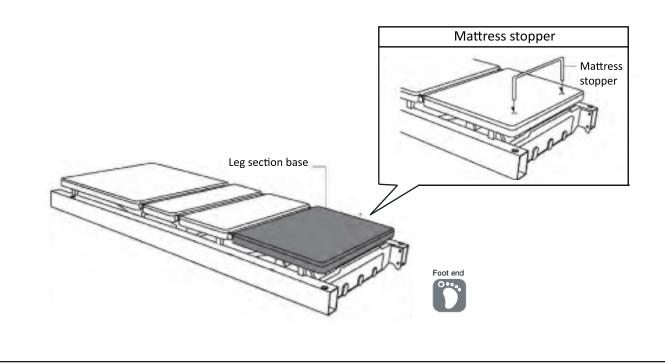
- Move the board stopper to unlock.
- Grasp the grip of the board and detach it.



 When attaching the headboard or footboard, make sure that the stopper is used. Otherwise, the board may disengage when the bed is moved, causing an injury due to toppling.

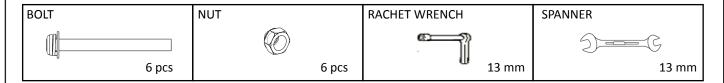
2. Attaching the mattress stopper

• Insert the mattress stopper until does not come off as shown in the figure below.

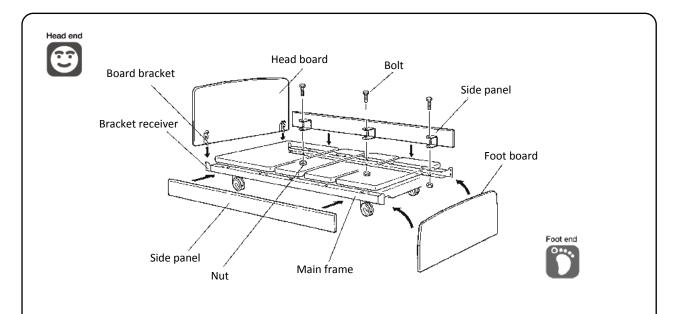


6 ASSEMBLING THE BED (PA-90000VIP)

1. Fitting component for assembly



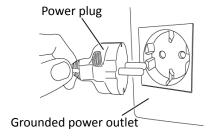
2. Head board, foot board, side panel installation



- 1. Take side panel from carton box, attach it on both sides of main frame using bolt and nut.
- 2. Take head board and foot board from carton cox, set board bracket to be able to fit with bracket receiver.

CONNECTING TO THE POWER SUPPLY (ELECTRIC HOSPITAL BED ONLY)

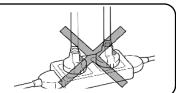
1. Power outlet



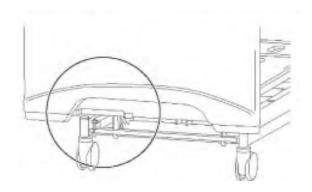
 Each bed should be plugged into a separate, appropriately wired, single-phase AC 220 V, 10 A or greater grounded power outlet using the power plug



 Never connect more than one cable to a power outlet



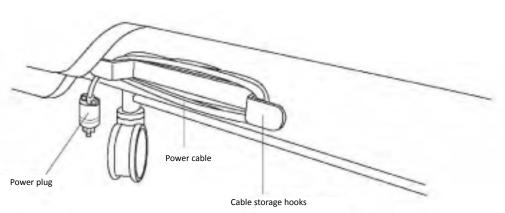
2. Using the cable storage hooks



[Using the cable storage hooks when moving the bed]

 Wind the power cable onto the cable storage hooks when moving the bed

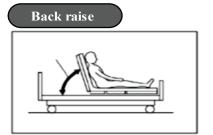




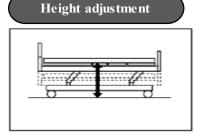
8 OPERATION OVERVIEW

Adjusting the angle of the back or knee section base and the height of the bed

- The angle of the back and knee section bases and the height of the bed can be adjusted with no increments. (For operation procedures, see p. 26-28)
- The angle of the leg section base can be manually adjusted in two levels. (See p.29)



Knee raise



- Electric Hospital Bed The back section base angle can be electrically adjusted from 0° to 70°.
- Manual Hospital Bed The back section base angle can be manually adjusted from 0° to 75°.
- Electric Hospital Bed The knee section base angle can be electrically adjusted from 0° to 25°.
- Manual Hospital Bed
 The knee section base angle can be manually adjusted from 0° to 45°.
- PA-93485, PA-93385, PA-93485V The height from the floor to the base of the bed can be electrically adjusted from 290mm to 670mm.
- PA-99285, PA-99185
 The height from the floor to the base of the bed can be manually adjusted from 330mm to 710mm.
- PA-93275, PA-93175, PA-93295, PA-93195
 PA-99275, PA-99175, PA-99295, PA-99195
 The height from the floor to the base of the bed can be adjusted from 343mm to 723mm.

USING THE HANDHELD CONTROLLER (ELECTRIC HOSPITAL BED ONLY)

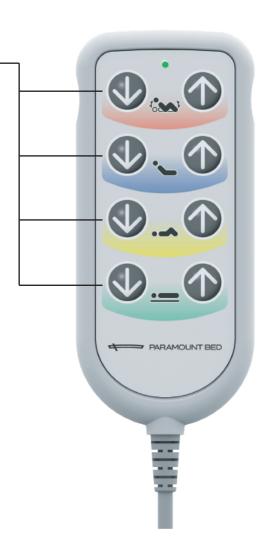
The angle of the back and knee section bases and the height of the bed can be smoothly adjusted with no increments by using the handheld controller.

MARNING

- When a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as someone having a cognitive illness) operates the handheld controller by themselves, there is a risk of unexpected injury such as the body getting caught in the bed by mistake.
- If there is a risk of such person touching the handheld controller, disconnect the power plug in order to prevent an accident caused by incorrect operation.

Operation procedure

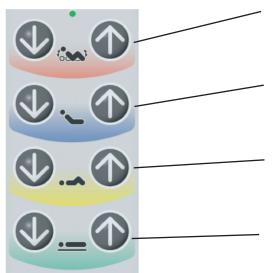
Pressing the button adjust the bed, and releasing the button stops the adjustment, allowing you to adjust the bed to the desired position. Press two or more buttons simultaneously to stop the operation.



USING THE HANDHELD CONTROLLER (ELECTRIC HOSPITAL BED ONLY)

Operation buttons

Pressing the button adjust the bed, and releasing the button stops the adjusment, allowing you to adjust the bed to the desired position. Press the button ↑ to raise. Press the button ↓ to lower



Back and knee UP and DOWN buttons

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

Back UP and DOWN buttons

The back section base angle can be adjusted.

Knee UP and DOWN buttons

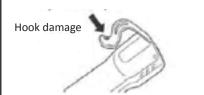
The knee section base angle can be adjusted.

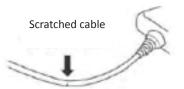
Bed height UP and Down buttons

The bed height can be adjusted.



Do not drop the handheld controller or pull the cable. The handheld controller may get damaged or deformed and operate incorrectly as a result. When the handheld controller is damaged, request a repair (or replacement).

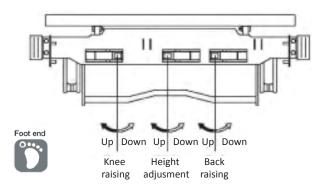




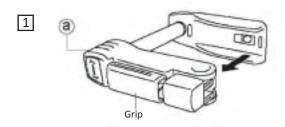
10 OPERATION PROCEDURES

1. Handle operation (3-Crank Manual Hospital Bed)

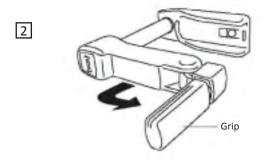
■ Use the handle mounted on the frame to raise or lower the back or knee section base and adjust the bed height.



- 1 Grip part a of the handle to be operated and pull it out to the end.
- 2 Raise the grip to 90 degrees, hold the grip, and turn the handle.



- Turn the handle clockwise to raise the back, knee or bed height.
- Turn the handle counterclockwise to lower the back, knee, or bed height.





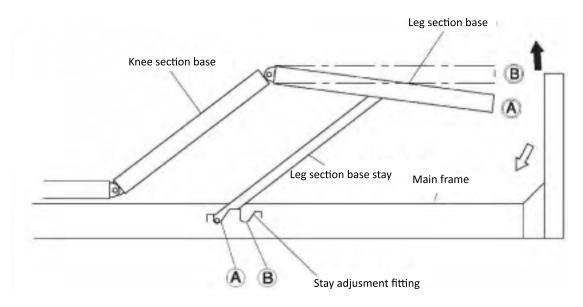
- Using the handle without completely pulling it out may cause a failure. Be sure to pull it out completely before use.
- After use, be sure to press the handle into the original position.
 If it is out, it may catch people's leg, causing an injury.
- Do not place your leg on the handle. You may fall down and get injured or the handle may break.
- Use one handle at a time. Turning two handles at the same time may result in an injury because hands crush into each other.

2. Adjusting the angle of the leg section base

- The angle of the leg section base can be manually adjusted in two levels. The angle of the leg section base must be adjusted by at least two persons.
- Normally, the leg section base stay is at position (a). Adjustment to the (b) position should be performed when the knee section base is raised.
- When moving in the ® direction, hold the end of the leg section base and lift it. The leg section base stay slides toward the foot end. Slowly lower the leg section base when the desired angle is achieved.
- When moving in the @ direction, apply one hand to the leg section base stay, hold the end of the leg section base with the other hand, and lift it a little. Then, lower the leg section base so that the leg section base stay enters .

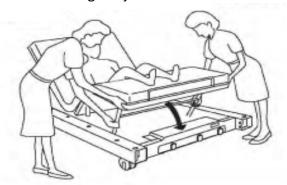


● When returning the knee section base to the horizontal condition, be sure to return the leg section base stay to the normal position ❷.



A CAUTION

 The leg section base angle should be adjusted by at least two persons from the both sides. If only one person attempts to adjust the angle, the person may get caught between the leg section base and main frame and get injured.



3. Locking the casters

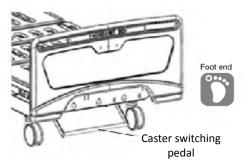


WARNING

 Lock the casters at all times except when moving the bed. The patient may be injured getting on or off the bed should it move.

■ Central locking system

 The casters can be locked or unlocked by operating switching pedal on the foot end



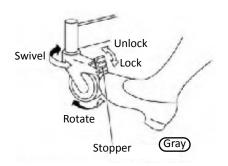
- ① Locking the four wheels

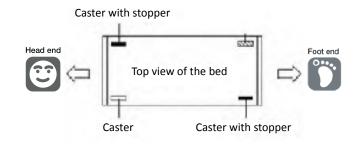
 The casters are locked by depressing the caster switching pedal.
- ② Unlocking the four wheels

 The casters are unlocked by raising the caster switching pedal.

■ Diagonal locking system

- Use the stopper to lock or unlock the casters.
- Stoppers are on two casters on opposing corners of the bed. When locking, be sure to lock both of the two 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.







CAUTION

 Do not forcibly move the bed when the casters are locked. It may break the bed.



Inspect the casters regularly. Depending on the frequency of use and the environment, casters will exhibit wear and deterioration. (Height-temperature and heighy hummidity condition may accelerate the deterioration). In case of declined function of the stoppers or discoloration or crack on the wheel, request repair or after-sales service.

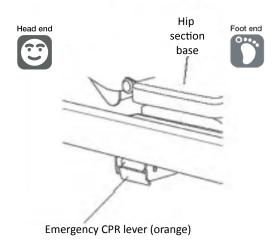
4. Emergency CPR (back-lowering) function

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



WARNING

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



<Emergency CPR procedure>

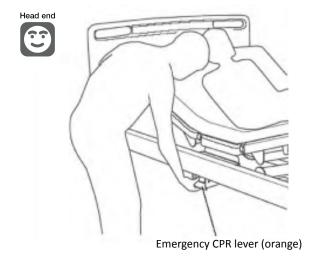
- (1) Place one hand on the side of the back section base and pull the emergency CPR lever (orange). Levers are located on both sides of the bed under the hip section base and either lever can be used.
- (2) Keep pulling the lever until the back section base returns to flat status. If you release the emergency CPR lever halfway through, the back-lowering operation is stopped.)



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>

Power on status: Back-raising and back lowering can be operated using the buttons on the handheld controller or nurse control panel.



MATTRESS (OPTIONAL)

- Do not use the bed when the mattress is not a 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.
- Compatible Mattresses Paramount Bed



Width	Length	Thickness
830 (for PA-931**,PA-933**,PA-991**)	1,910 to 2,000	90 to 150
910 (for PA-932**,PA-934**,PA-992**)	1,910 to 2,000	90 to 150

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



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

12 SUITABLE PRODUCTS

1. Suitable products table

∴WARNING

- Use suitable products after confirming that the combination of bed is correct. Using the bed with the wrong combination of suitable products could result in injury or could damage the products. The part number of each suitable products is written on the safety label and on the carton box.
- Do not use suitable products 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 accessories attachment holes, when mounting the suitable products. If there are obstacles in the accessories attachment holes, you cannot mount the suitable products, and the patient may fall off the bed or get caught in the gap, resulting in injury.



 When suitable products may be changed due to specification changes or combinations. In addition, some suitable products may not be listed in the table due to new release or discontinuation of sales.
 For any queries on suitable products, contact Paramount Bed (see p.50) or your distributor.

Suitable product*1)*2)	Model no.*1)	Reference page
IV pole	KC-56A, KC-56B, EC-562	34
Battery	PAB250T	35 - 36
Oxygen cylinder holder	PC-5038	37
Traction frame	PC-5068	-
	PS-023, PS-023A, PS-023V	20
Collapsible bedside rail*3)	PS-0232	39

^{*1)} These products may not be available in some countries or regions. For details, contact Paramount bed (see p.50) or your distributor.

^{*2)} In some countries or regions, some of the medical device or its accessories fall under the category of medical devices. For details, contact Paramount bed (see p.51) or your distributor.

^{*3)} Use the PA-90000 series bed in combination with PS-023, PS-023A, PS-023V, or PS-0232 for applying IEC60601-2-52.

2. IV Pole

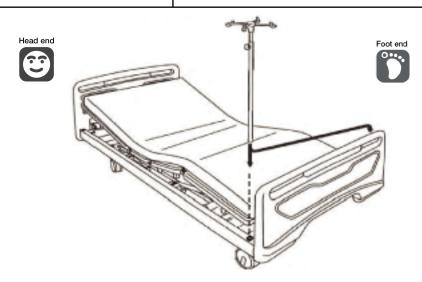
This IV pole is designed to be attached to the medical device when giving an intravenous drip to a patient.



- Do not move the bed with holding the IV pole. The IV pole may break causing 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 base or side rail and the IV pole. The hand or arm may get caught and get injured.
- Each hook's load capacity because it may damage the hook, resulting in an injury



 Length adjusment 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.



IV Pole Suitability Table

KC-56A, KC-56B, EC-562



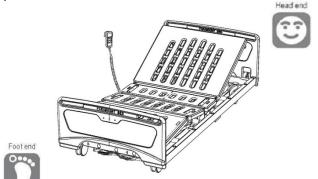
- Be sure to read the instruction manual attached to the IV pole as well.
- The description in the respective instruction manual may be different from the description in this manual due to changes in specifications. In case of any question, contact your dealer.

3. Battery (PAB250T/ Electric hospital bed only)

This battery is intended to provide power to the medical device when the external power supply is not available.

WARNING

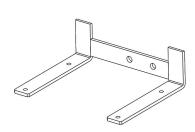
- When connecting the battery cable, unplug the power plug and confirm the patient not on the bed. There is a risk of injury due to accidental operation or electric shock due to a short circuit.
- Install battery on the foot side of main frame.
 For old product, battery is installed on head frame.

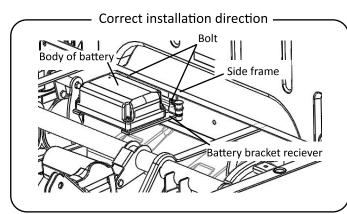


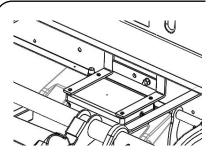
Battery is installed on foot side of main frame

2. Pay attention to direction of battery bracket receiver and it's installation.

Battery bracket receiver

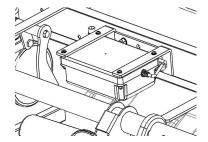




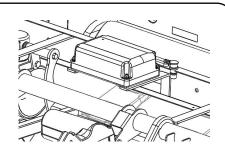


If installing with incorrect bracket direction.

Incorrect installation direction



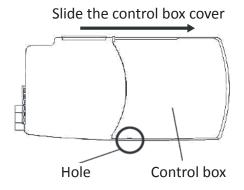
If bracket installation direction is correct but battery installation position is incorrect.



If bracket installation direction and battery installation position is incorrect.

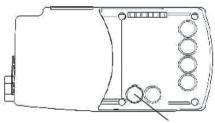


※ If installed with incorrect direction, interfence with central pedal and foot frame stay will occur, then body of battery and cable may be damaged. 3. The battery cable must be connected to the control box to use the battery.



- 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

ACAUTION

- 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.
 - ODo not disassemble the battery case or built-in battery.
 - ODo not incinerate the battery unit.
 - ODo not recharge the battery other than with suitable control box of the bed.
 - ODo not use the battery unit with equipment other than the suitable bed.
 - ODo not subject the battery unit to impact.
 - ODo not recharge the battery unit or operate the bed with the 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 of fire. Furthermore, please check time to replace as below;
 - OA life of the battery span about 2 or 3 years. The battery indicator flash or turn off the light even the battery changing for more than 12 hours, please change the battery.
 - OWhen you change the battery, please contact Paramount Bed or your distributor.

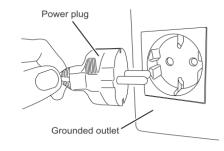
The battery is an auxillary power supply for operating an electrically operated table when not connected to a power outlet

[Operating the table on battery power]

■ The table 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 table power plug in plugged into the power outlet.





- The battery should be charged (for more than 24 hours) immediately after purchase.
- The battery is optional. For detail on the model number, contact Paramount Bed or your distributor.

[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 table on battery power.
- If the table is equipped with a battery, and the table is stored for long periods of time, the battery must be full charged every 3 month. 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.

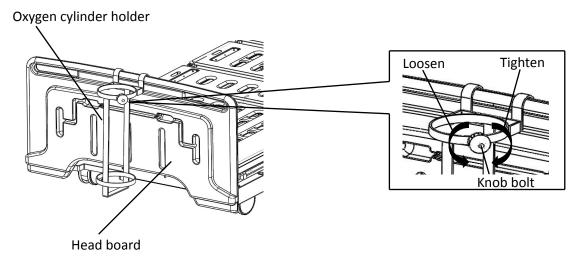
Regardless of whether the battery is used, its life will start to drop off after a few years.

3. Oxygen cylinder holder (PC-5038)

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

$oldsymbol{\Lambda}$ 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.

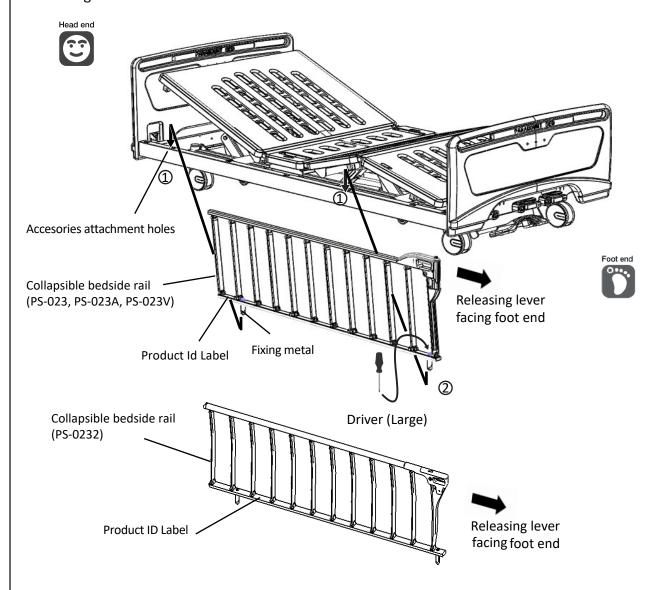




• For any quaries, please feel free to contact Paramount Bed or your distributor.

4. Collapsible bedside rail

This collapsible bedside rail is intended to be fit on bed side to use, prevent patients and bed clothing falling off from bed.



- 1. With releasing lever facing forward foot end, install side rail fixing metals to accessories attachment holes
- 2. Make sure to tighten the fixing bolts.
- 3. Please check the side rail being fixed firmly, before usage.



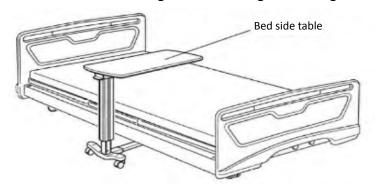
Please attach and lock firmly. Otherwise, side rail may come off abruptly, resulting in injury, or damage side rail.



• All installation methods are the same.

13 BED SIDE TABLE

Bed side table is used for having meals or doing something on the bed.



Suitable bed side table

KF-282 PF-3100A, PF-3110A PF-3120A, PF-3130A



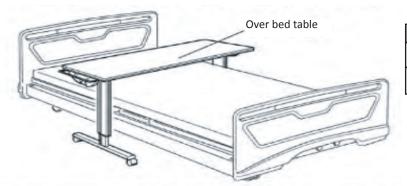
WARNING

 Remove the table from the bed when performing positioning operations of the bed. Otherwise, the patient may get caught between the table and bed and get injured.



- Be sure to read the instruction manual attached to the bed side table as well.
- The description in the respective instruction manual may be different from the description in this manual due to changes in specifications. In case of any question, contact your distributor.

Over bed table is used for having meals or doing something on the bed.



Mattress base width	Suitable over bed table
910	KF-83*LA/LB/LC KF-813
830	KF-83*SA/SB/SC KF-814



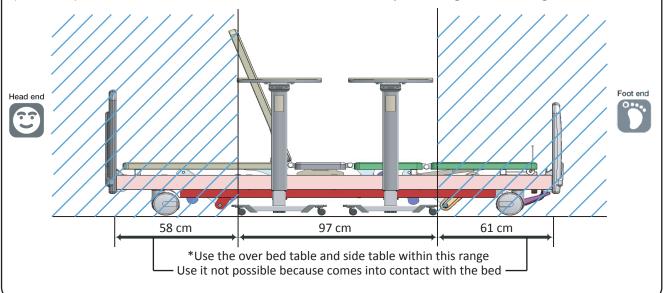
⚠ WARNING

 Remove the table from the bed when performing positioning operations of the bed. Otherwise, the patient may get caught between the table and bed and get injured.



- Be sure to read the instruction manual attached to the bed side table as well.
- The description in the respective instruction manual may be different from the description in this manual due to changes in specifications. In case of any question, contact your distributor.

• The following figure shows the over bed table and side table usage range (the shaded areas cannot be used). Use the over bed table and side table within this range. Using the over bed table and side table outside the range shown in the figure below may cause damage to or deformation of the over bed table and side table. Note that when the side rail and grip for the bed are used (attached), the over bed table cannot be used in the vicinityof the highest bed height.





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

IE PRODUCT SYMBOL DEFINITIONS

The symbols below are used for this product.

Symbol	Description
	● Indoor use symbol
	● Electrical waste
[ji]	• See the instruction manual
\sim	● AC input
IPX4	● Protection code
	● Protective ground mark
	● Safe working load
	Maximum patient weight
†	Type B applied part Applied parts are considered to be: upper frame section, controllers, side rails, headboard and footboard
X	Take care to prevent the patient's hand and foot from getting caught between side-rails and the bed.
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).

Symbol	Description
	● Product weight
+	Total weight including load capacity
A X	Take care to prevent body parts from getting caught in the moving parts on the bed
	Take care to prevent the patient's head from getting caught in the moving parts on the bed
X	Take care to prevent the patient's finger from getting caught in the moving parts on the bed
SN	Serial number
LOT	● Lot number
#	Model number
+ 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	● The medical bed for adults
₩ ID	 Country of manufacture (made in Indonesia) Manufacturing site In the country of origin, the site acts as the manufacturer. Date of manufacture (YYYY-MM-DD)
	 Manufacture It may be called "Legal Manufacturing" or "Brand Owner", etc. The symbol is not applicable in the country of origin.

E PRODUCT SYMBOL DEFINITIONS

The symbols below are used for this product.

Symbol	Description
UDI	 This a 2D code (GS1 Data Matrix that encodes the UDI (Unique Device Identifier) required by the Unique Device identification system defined to adequately identify device through distribution and use.
(€	● CE mark
EC REP	Authorized representative in the european commnunity

16 REGULAR INSPECTION AND DAILY MAINTENANCE

<Lubrication (if there is abnormal noise)>

■ Lubrication is needed if there is abnormal noise. Please feel free to contact your distributor to be lubricated.



• Water adhesion to the bed or mattress, or moisture may cause corrosion, abnormal noise or contamination. If water adheres to the bed or 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.
- To wash the bed using water, pour water on the bed to wash out stains. Finally, use a dry cloth to wipe the bed to ensure it is dry.
- To disinfect the bed, always dilute detergents used as specified below and follow the instructions described in the instruction manual.

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)

The bed should be disinfected before a different patient uses the bed.

CAUTION

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





- Do not use disinfectant other than those specified. There is a risk of damage or deterioration.
- After cleaning the bed detergent, be sure to wipe any residual detergent with a cloth soaked in water and wrung out well. Otherwise, there is a risk of damage to the plastic parts.
- When a washing the stretcher with water, do not pour water from under the base cover. There is a risk of malfunction.
- Do not wash the stretcher by a bed washer or high-pressure water. There is a risk of malfunction.



● The product should not be cleaned with an ozone sterilizer or autocrave apparatus.

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 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.25)	Proper operation can be achieved.
		There must not be any strange noises.
	Knee raise operation (p.25)	Proper operation can be achieved.
		There must not be any strange noises.
	Hi-lo operations (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 mounting condition (p.22)	The board stopper must be locked properly.
Board		There must not be any remarkable rattling.
	Travelling	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	Caster locking operation (p.30)	Proper operation can be achieved.
Caster		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.
		When in steering position, swiveling of the steering caster must be locked.
Electrical part (Electrical bed only)	Visual check of electrical parts	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.

⚠ WARNING

- Do not wash the padding. There is a risk of padding degradation.
- Do not use a mattress washer, an ozone sterilizer or autocrave apparatus. There is a risk of damage, deterioration or degradation.
- Do not leave any blood, urine, sudor or sebum on the mattress. Clean dirt frequently with neutral detergent or soap. If left untreated, the surface material may degrade, smell or stain may result.
 - OThe smell that is left during use may be neutralized with mouthwash.
 - Off the mattress is stained, wipe off thoroughly with oxydol (3% hydrogen peroxide).
 - Ouse thrombolytic agent, if it is difficult to clean blood. In that case, try using it on the end of the firstly, because there is a risk of discoloration or deterioration.
- Do not use volatile cleaning fluids (such as paint thinner, benzene or gasoline) and cresol. Discoloration or deteorioration could result.
- Do not use disinfectant other than those specified. There is a risk of damage or deterioration

<Mattress unit>

- When the mattress gets dirty or the persons who use the mattress change, be sure to clean and disinfect both surface of the mattress in accordance with the procedures specified in steps 1 to 4 below. At this time, take care not to bend the mattress.
- Remove any soiling (blood, excreta, etc.)
- Wipe the mattress using a cloth that has been soaked in commercially available soapor neutral detergent diluted with water, and wrung out well.
- Disinfect the mattress by using disinfectant.
 - 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)
 - 0.1% 1.0% sodium hypochlorite (e.g. Purelox)
- Leave the mattress to dry out naturally on the stretcher or in another location. However, do not dry in the sun.
 - O Clean and disinfect the mattress regularly
 - O Do not wash the mattress
 - O Take care not to soak the padding.

⚠ CAUTION

• Do not unzip the fastener and do not remove the cover when cleaning and disinfecting the mattress. Do not unzip the fastener while the mattress is in use. The fastener is provided so that the cover can be repaired or replaced if it is damaged.



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

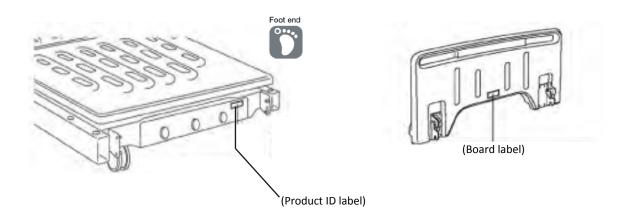
TROUBLESHOOTING

- Problem may not always indicate faults. Check the following once again before requesting repair.
- If the problem persits after checking these points, 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 malfunction caused by deformation of the bed.

Problem	Check	Corrective action	Reference page
The bed does not move even when the handheld controller buttons are	 Check if the power plug is plugged into the outlet. 	Plug the power plug into the power outlet.	24
pressed.	The power plug is plugged into the power outlet, but the bed still does not move. The power plug is plugged into the power outlet, but the power plug is plugged into the power outlet, but the power plug is plugged into the plugged in	 Disconnect the power plug from the outlet and plug it in again. Plug another electrical device into the outlet to check that power is available. 	-
 The bed cannot be positioned correctly. 	 Check if there is nothing in the moving parts on the bed 	Remove any obstacles.	-
 The leg section base cannot be laid flat when the knee section base is laid flat. 	Is the leg section base stay at basic position A of the stay adjusment fitting?	 Move the leg section base stay to basic position A of the stay adjusment fitting. 	29
The bed cannot be moved.	Check if the casters are locked.	Unlock the caster.	30
The board will not come off.	Check if the board is locked.	Unlock the board stoppers.	22
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.	-
	 Check if the handheld controller lock function is OFF. 	 Press the lock button to switch the handheld controller lock function OFF. 	-
	 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. 	-

 When requesting repairs or contacting your distributor, please provide the number on the product ID label as shown below.

Product ID label locations Product ID label are affixed to the foot end of the main frame and on the inside of the headboard.



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.

18 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 base flat.
 - 2. Lower the bed to the lowest position.
 - 3. Do not place objects other than mattress on the bed.
 - 4. Do not place anything on the mattress
 - 5. Store the bed in a low-dust environment away from extreme temperatures or humidity Store the bed at at a temperature between -10°C and 50°C, humidity between 20%RH and 90%RH.
 - 6. Do not lean the bed againts a wall; store it level on the floor.
 - 7. For electrically-operated bed, be sure to disconnect the power plug from the power outlet and coil the power cable on a cable storage hook (See p.24).



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

Bed Disposal

When the PA-90000 Series bed has reached the end of its usable life, discard it according to local standards.

19 AFTER-SALES SERVICE

1. When requesting repairs

First check the items described in "17. TROUBLESHOOTING" (p.48, 49) 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.49)
 - 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. Question regarding after-sales service

For any queries, please feel free to contact your distributor or to the following addresses.

Website: https://www.paramount.co.jp/english/



Location in Japan (Manufacturer)	Location in Indonesia (Manufacturing premises)
Paramount Bed Co., Ltd. 14-5, 2-Chome, Higashisuna, Koto-ku, Tokyo, 136-8670, Japan Tel: +81-(0)3-3648-2961 Fax: +81-(0)3-3648-5781	PT.Paramount Bed Indonesia MM2100 Industrial Town, Blovk M-1-1 Gandamekar, Cikarang Barat, Bekasi 17530, Jawa Barat, Indonesia Tel: +62-(0)21-8981051 Fax: +62-(0)21-89981611

EC REP EMERGO EUROPE
Westervoortsedijk 60,
6827 AT Arnhem
The Netherlands



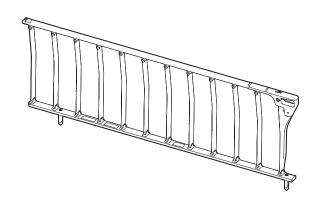


INSTRUCTION MANUAL

PS-0232S/PS-0232D

Collapsible Bedside Rail

7F13074900A0



CONTENTS

1 INTENDED USE1
2 PART NAMES AND CHECKING PARTS 1
3 SAFETY PRECAUTIONS2
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MAINTENANCE8
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Preface

Thank you for purchasing this product.

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

- To ensure safe and proper use of the product, be sure to read the instruction manual before use.
- The instruction manual should be read not only by the person using a bed with the product for medical treatment but also by the user's caregiver.
- After reading this instruction manual, store it in a place that can be easily accessed for later reference.
- Users and/or patients are requested to report information about any serious incident that occurs within the EU to the regulating authority of the member country of residence.

Serious incident means any incident that directly or indirectly resulted in, may have resulted in, or may result in any of the following.

- Death of a patient, user, or other person
- Serious temporary or permanent adverse effects on the health of a patient, user, or other person
- Serious public health threat
- Some of the descriptions in this instruction manual may differ from the product you have purchased due to model improvements.
- Values described for the operation ranges, dimensions, angles, and weights are subject to normal manufacturing tolerances. Except for special cases, words such as approximately and about are omitted in this instruction manual to improve readability.
- If you have any queries, contact your distributor or Paramount Bed.

Marks used in this instruction manual

Note Indicates particularly important, easy to misunderstand, or cautionary inform		
Indicates the direction (head end) of the bed.		
Indicates the direction (foot end) of the bed.		

Note

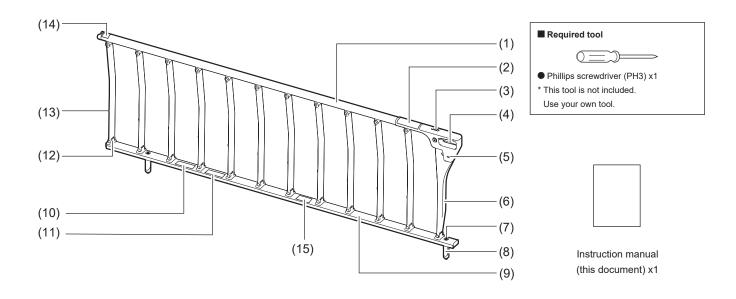
After this page, some part names described in the text are abbreviated as follows.

• Collapsible bedside rail → Bedside rail

1 INTENDED USE

This Collapsible Bedside Rail is intended to be fit on bed side to use, prevent patients and bed clothing falling off from bed.

2 PART NAMES AND CHECKING PARTS



No.	Name	No.	Name	No.	Name
(1)	Top pipe	(6)	Support bar	(11)	CE label
(2)	Safety label A	(7)	Fixing bolt	(12)	Attachment part A
(3)	Double lock	(8)	Fixing shaft	(13)	Attachment part B
(4)	Unlock lever	(9)	Bottom pipe	(14)	Safety label B
(5)	Indicator window	(10)	Product ID label*	(15)	Safety label C

^{*} The model number of the bedside rail is printed on the product ID label. Example: PS0232S indicates PS-0232S.

2 PART NAMES AND CHECKING PARTS

<Safety label A>











Safety labels

- Warnings and precautions requiring special attention by persons using the bedside rail are described on the labels that are affixed to the top pipe and bottom. Do not remove or deface them.
- If a safety label is removed or defaced, replace it with a new one obtained from Paramount Bed or your distributor (see the back cover).

3 SAFETY PRECAUTIONS

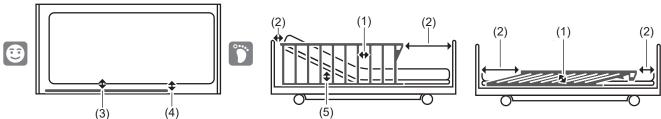


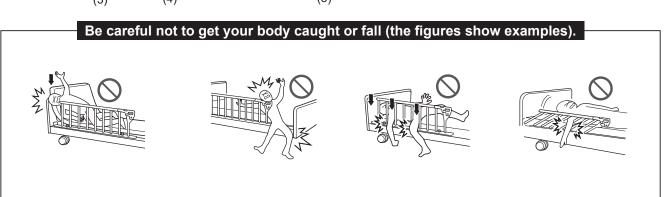
WARNING

Indicates that improper handling by ignoring this indication may cause death or serious injury (broken bones, pressure being applied, or paralysis).

■ Watch the gaps.

- There are gaps in the bed and bedside rail. Injury may occur due to a part of the body (especially the head or neck) getting caught in those gaps. Injury may also occur due to falling through those gaps.
- Be especially careful to check a person who might act in unexpected ways or cannot maintain their posture independently.
- Pay attention to the following points.
 - (1) Gap in bedside rail
 - (2) Gap between bedside rail and board
 - (3) Gap between bedside rail and mattress
- (4) Gap between bedside rail and mattress base
- (5) Gap between bedside rail and raised mattress base





3 SAFETY PRECAUTIONS

WARNING

Indicates that improper handling by ignoring this indication may cause death or serious injury (broken bones, pressure being applied, or paralysis).

■ Do not operate the bed or bedside rail with part of the body placed in a gap.



- The body part may get caught in the gap, resulting in injury.
- Be especially careful to check a person who might act in unexpected ways or cannot maintain their posture independently.
- Take care that the user does not fall off the bed when the bedside rail is operated from on the bed.

The user may fall at the moment when the bedside rail is moved, resulting in injury.

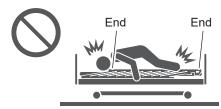
- Even when the bedside rail is used, pay sufficient attention to prevent the user from falling off the bed.
 - The user may fall through a gap between the bed board and bedside rail or bend over the bedside rail and fall, resulting in injury.
 - If the bedside rail is used while the back section base is raised, the bedside rail may not be sufficiently effective in keeping the user from falling off the bed since the user will no longer be supported at the side by the bedside rail due to the angle (high position).
 - Be especially careful to check a person who might act in unexpected ways or cannot maintain their posture independently.
- Attach the bedside rail in the correct position and orientation, and fix it properly (see ATTACHMENT METHOD on p. 6).



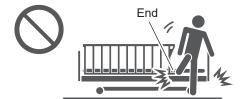
- There is a risk of the user falling off the bed resulting in injury, or the bedside rail hitting the board resulting in the board or bedside rail being damaged or deformed.
- If the bedside rail is attached in the wrong position or orientation, unexpected gaps may be created and part of the body (especially the head or neck) may get caught, resulting in injury.
- Do not sit on the bedside rail or use it as a hand rail.

If the bedside rail falls while your body weight is placed on it, you may fall off the bed or fall down, resulting in injury. The bedside rail is designed to prevent the user of the bed and the bedding from falling off the bed.

■ Be careful about the protruding parts (such as the ends of top pipe) of the bedside rail.



- When the user gets on or off the bed, a foot or clothing may get caught and the user may fall off the bed or fall down, resulting in injury.
- If the bed or bedside rail is operated with clothing caught, the clothing may be pulled, resulting in injury.
- When the user gets on or off the bed, pay attention to the ends of the bottom pipe.

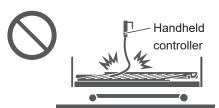


A foot or other body part may hit an end, resulting in injury.



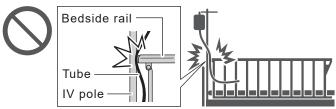
Indicates that improper handling by ignoring this indication may cause death or serious injury (broken bones, pressure being applied, or paralysis).

■ When folding down the bedside rail, take care to prevent a handheld controller cable, drain tube, bedding, or other item from getting caught.



The cable, drain tube, or other item may come off or be crushed, resulting in injury or damage.

■ When using an IV pole, take care to prevent a drain tube or other item from getting caught.



The drain tube may come off or be crushed, resulting in an accidental injury.

■ Do not allow the bedside rail to be operated by a person deemed incapable of understanding bedside rail operation (a child aged 12 or under or a person with dementia).

Incorrect operation may result in injury.

- Do not use the bedside rail for infants or small children.
 - This product is not designed for infants or small children. A part of the body may get caught in a gap in the bedside rail, resulting in injury.
 - Even when the bedside rail is used, an infant or small child may fall through a gap, resulting in injury.
- Do not repair or modify by yourself.

Unintended gaps or other problems may be created, resulting in injury.

For the bed used in combination with the bedside rail, use a suitable product specified by Paramount Bed.

The use of products other than the specified ones or those from other companies may create unintended gaps, cause contact between products, or lower stability, resulting in injury, or the bedside rail may be damaged or deformed. For suitable products, see "8 SPECIFICATIONS AND SUITABLE PRODUCTS (BEDS)" (p. 9). If you have any queries about suitable bed other than those listed or suitable products, contact your distributor or Paramount Bed (see the back cover).

■ Inspect the bedside rail regularly.

The product wears out and deteriorates differently depending on the frequency of use and the environment. Inspect for loose parts and damage and the operation of the moving parts regularly. Use of a worn or deteriorated bedside rail may result in accidental injury.

Request repair or inspection of a bedside rail damaged in a disaster.

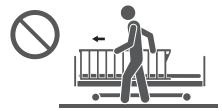
If the side is damaged in an earthquake, fire, flood, or other incident, contact your distributor or Paramount Bed for inspection or repair. An injury may occur as a result of a damaged or deformed bedside rail.

3 SAFETY PRECAUTIONS

! CAUTION

Indicates that improper handling by ignoring this indication may cause minor injuries (such as bruises, scratches, or cuts) or property damage.

■ Do not move the bed while holding the bedside rail.



This applies excessive force to the bedside rail and may result in damage or deformation.

■ When using the bedside rail in the folded down state, do not place a hand or finger in the support bars section of the bedside rail.



The hand or finger may get caught, resulting in injury.

- When carrying the bedside rail, be careful not to hit it against the floor, etc. The floor, etc. may be damaged or the bedside rail may be damaged or deformed.
- Do not apply a spray-type insecticide directly to the bedside rail.

 Solvents contained in the insecticide may damage, discolor, or dissolve the resin parts. Furthermore, damaged or dissolved parts may cause accidental injury.
- Keep away from fire.

Do not use thermal appliances such as heaters near the bedside rail. This may cause deterioration or deformation.

■ Check around the bedside rail before operating the bedside rail.

Bedside rail operation may damage objects around the bedside rail, or may cause the bedside rail to be damaged or deformed.

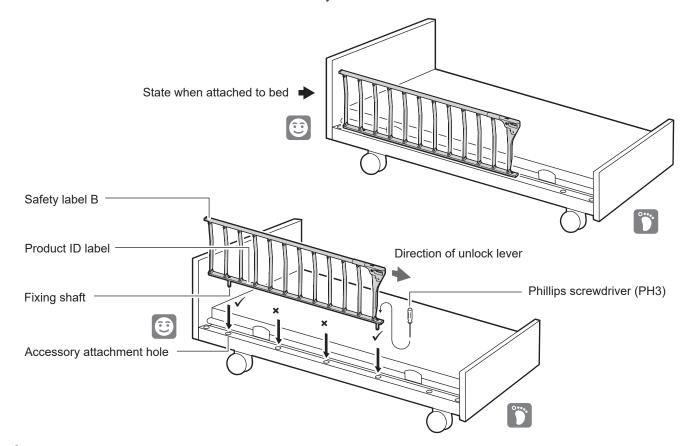
4 ATTACHMENT METHOD

WARNING

- Attach the bedside rail in the correct position and orientation, and fix it properly. There is a risk of the user falling off the bed resulting in injury, or the bedside rail hitting the board resulting in the board or bedside rail being damaged or deformed. If the bedside rail is attached in the wrong position or orientation, unexpected gaps may be created and part of the body (especially the head or neck) may get caught, resulting in injury. When attaching it, orient the end with safety label B toward the head end.
- When attaching the bedside rail, make sure that there are no foreign objects in the accessory attachment holes. If there are foreign objects, the bedside rail cannot be attached correctly and there is a risk of falling off the bed or unexpected gaps being created and part of the body getting caught, resulting in injury.

Note

- When the top pipe is raised from the folded down state after opening the package, the bedside rail is locked automatically (see OPERATION PROCEDURE on p. 7).
- Do not attach the bedside rail to accessory attachment holes other than those indicated by the ✓ marks.
- Be sure to orient the end with safety label B toward the head end.



- 1. Orient the unlock lever toward the foot end and then align the fixing shafts with the specified accessory attachment holes in the bed, and firmly insert them.
- 2. Firmly tighten the fixing bolts in 2 places with a Phillips screwdriver (PH3).
- **3.** Check that the bedside rail is fixed properly before use.

5 OPERATION PROCEDURE

Raising (to use the bedside rail)

- When the top pipe is raised from the folded down state, the bedside rail is locked automatically.
- Check that the indicator window is completely green at this time.

Note

If even a small amount of red is visible, the bedside rail is not fully locked. Pull up the top pipe hard again so that the window is completely green before use.



Before using the bedside rail, check that the bedside rail is locked properly (indicator window is completely green). If the bedside rail is not locked properly (a small amount of red is visible in the indicator window), it may fold down unintentionally when touched by a hand or gripped and the user may fall or get a hand or foot caught, resulting in injury.

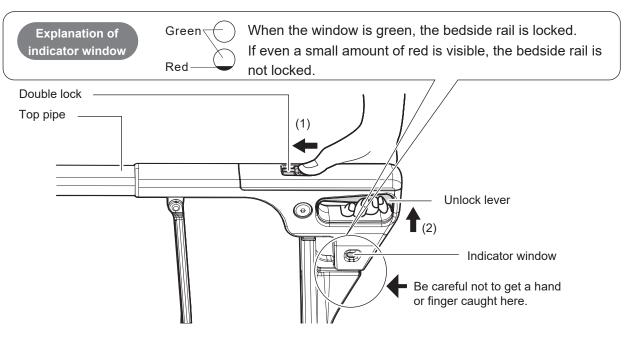




When operating the unlock lever, be careful not to get a hand or finger caught. There is a risk of injury due to getting caught in the lock part.

■ Folding down

- (1) Press the double lock all the way in the direction of the arrow with a finger.
- (2) Grip the unlock lever while keeping the double lock pressed, and slowly fold down the bedside rail.



Note

If the double lock is not operated, the unlock lever cannot be operated. Follow the correct operation procedure.



When folding down the bedside rail, perform the operation slowly. If you release your hand or lower the bedside rail quickly during the operation, you may be injured or the bedside rail may be damaged or deformed.

6 REGULAR INSPECTION AND MAINTENANCE

■ Regular inspection

- To ensure safety, inspect the bedside rail regularly, at least once a year. The product wears out and deteriorates differently depending on the frequency of use and the environment. Inspect for loose parts and damage and the operation of the moving parts regularly.
- If you notice an irregularity or want a detailed inspection, contact your distributor or Paramount Bed (see the back cover).

There must not be any damage or deformation.

The fixing bolts must not be loose.

The bedside rail can be raised smoothly.

The bedside rail locks and is not unlocked even if shook gently.

There must not be any peeling of labels, and the text must be legible.

There must be no detached parts.

■ Maintenance

Removing stains

Perform steps 1 to 3 below.

- 1. Wipe off stains with a cloth soaked in a neutral detergent diluted with water and wrung out well.
- 2. Wipe off any residual detergent with a cloth soaked in water and wrung out well.
- **3.** Wipe off any residual moisture with a dry cloth.

Disinfecting parts

Use one of the disinfectants listed below at the specified concentrations by following the instructions in the instruction manual for the disinfectant.

76.9% to 81.4% Ethanol for disinfection

Up to 0.2% Benzalkonium chloride (e.g., Osvan)
Up to 0.2% Benzethonium chloride (e.g., Hyamine)
Up to 0.05% Chlorhexidine gluconate (e.g., Hibitane)
Up to 1.0% Sodium hypochlorite (e.g., Milton)

* It is recommended to disinfect the bedside rail before another person uses the bedside rail.



- Do not use volatile cleaning solutions (such as paint thinner, benzine, or gasoline) or cresol. Discoloration or deterioration may result.
- Do not use disinfectants other than those listed above. Damage or deterioration may result.
- Thoroughly wipe off parts with a damp cloth after using a neutral detergent or sodium hypochlorite. Not doing so may cause cracking of the resin parts.

Note

An ozone sterilizer, autoclave, bed cleaning machine, etc. cannot be used for the bedside rail.

7 LONG-TERM STORAGE

- The following precautions should be followed when the bedside rail will not be in use for a long period of time.
 - Do not place any objects on the bedside rail.
 - Avoid storing the bedside rail in a location subject to high temperature or humidity, low temperature, dryness, or excessive dust.
 - Store the bedside rail at a temperature between -10°C to 50°C and humidity between 20% to 90% RH.
 - Keep the instruction manual in a safe place so that it does not become lost.

■ Bed disposal

When the PS-0232S and PS-0232D have reached the end of its usable life, discard it according to local standards.

8 SPECIFICATIONS AND SUITABLE PRODUCTS (BEDS)

Product name		Collapsible Bedside Rail
Model No.		PS-0232
Color of top pipe		S: Silver D: Walnut (dark)
When using		145.3 x 45.0
Dimensions (cm) Length x height*1)	When folded down normally	180.8 x 12.8
Product weight (kg)	(per bedside rail)	7
Main materials		S: Aluminum (solvent coating)
		D: Aluminum (solvent coating) + Wood grain pattern (olefin sheet affixed)
Suitable products (beds)*2)		PA-9***
	User weight (min-max)	
	Minimum user height	See the instruction manual for the bed to be attached with the bedside rail.
Patient target groups	Minimum user body mass index (BMI)	occ the instruction manual for the bed to be attached with the bedside rail.
	Supported age range	13 years of age or older*3)
Intended users		Health care workers, patients, relative of patient, and maintenance staff
Clinical benefit		Prevent patients falling off from bed.
Service life		8 years (based on Paramount Bed data), excluding consumable items such as attachment part A and attachment part B

^{*1)} The height is from the bottom pipe to top pipe.

· Classification as medical device in Europe: Class 1

Environmental conditions	Range		
Environmental conditions	When transported or stored	Operation	
Temperature	-10 to 50°C (14 to 122°F)	10 to 40°C (50 to 104°F)	
Humidity	20 to 90% RH	30 to 75% RH	



Suitable products may be changed due to specification changes or combinations. In addition, some suitable products may not be listed in the table due to new release or discontinuation of sales. For any queries about suitable products, contact your distributor or Paramount Bed.

^{*2)} Also see the instruction manual for the bed to be attached with the bedside rail.

^{*3)} Do not use the bed for children (aged 12 or under).

9 PRODUCT SYMBOL DEFINITIONS

Symbol	Description
	Be careful not to get a hand or foot caught in a gap in the bedside rail.
	Be careful not to let go during operation.
	Be careful not to get your head, neck, or other body part caught in a gap in the bedside rail.
	When using an IV pole, be careful not to get the tube or other part caught.
1 2 3	Unlock method of bedside rail stopper
⊗	Status of bedside rail stopper x (both red and green indicated): half-engaged state ✓ (green only indicated): locked state
	Be careful not to get a hand or finger caught.
③	Refer to the instruction manual.
	Do not pass a tube or other part through support bars.
	Attach the bedside rail in the correct position and orientation.
(€	CE mark

Symbol	Description
(i	Refer to the instruction manual
	Manufacturer * It may be called "Legal Manufacturer" or "Brand Owner" etc. * This symbol is not applicable in the country of origin.
	Date of manufacture
. ✓VN	 Country of manufacture (Made in Vietnam) Manufacturing site In the country of origin, the site acts as the manufacturer.
SN	Serial number
#	Model number
MD	Medical device (This product is a medical device in Europe, and may be a medical device in some countries and regions depending on their regulations.)
EC REP	Authorised representaive in the european community
UDI	This is a 2D Code (GS1 DataMatrix) that encodes the UDI (Unique Device Identifier) required by the Unique Device Identification System designed to adequately identify devices through distribution and use.
LOT	Lot number

^{*} Some symbols may not be displayed depending on the model.

10 AFTER-SALES SERVICE

1. When requesting repairs

Contact your distributor or Paramount Bed (see Contact Information below) to request repair.

- Details necessary when requesting repair
 - Product name and model number
 - Number on product ID label (affixed location: see "2 PART NAMES AND CHECKING PARTS" on p. 1)
 - Date of purchase
 - Details of the damage or problem (please provide as much detail as possible)
 - Your name, organization, address, and phone number

■ Consumable parts

Attachment part A and attachment part B are consumable parts.

2. Minimum stock availability period

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

3. Questions regarding after-sales service

Contact your distributor or contact PARAMOUNT BED CO., LTD. (Location in Japan). Please do not contact PARAMOUNT BED VIETNAM CO., LTD (Location in Vietnam) directly.

[Location in Japan (Manufacturer)]	[Location in Vietnam (Manufacturing premises)]
PARAMOUNT BED CO., LTD. 14-5, 2-chome, Higashisuna, Koto-ku, Tokyo, 136-8670, Japan Tel: +81-(0)3-3648-2961 Fax: +81-(0)3-3648-5781	PARAMOUNT BED VIETNAM CO., LTD Lot H-1, Long Duc Industrial Park, Long Duc Ward, Long Thanh District, Dong Nai Province, Vietnam Tel: +84-251-368-1181

For other contact information, please visit the website.

Website: https://www.paramount.co.jp/english/



