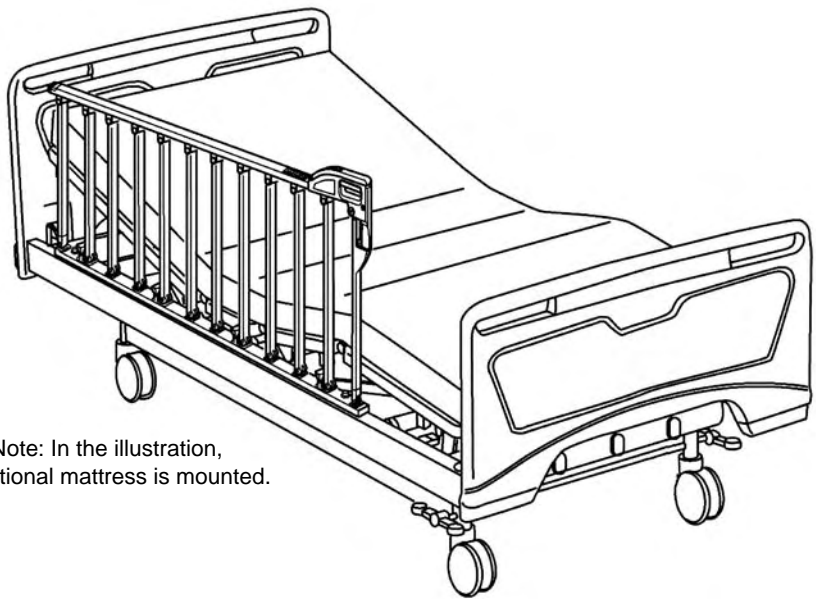


INSTRUCTION MANUAL

PA-90000 Series Bed



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

Preface

Thank you for purchasing the PA-9000 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 just to the persons using the bed but also to caregivers.
- After reading this instruction manual, store where it can be easily accessed for later reference.
- The actual product purchased may differ from detailed descriptions given in this instruction manual due to product improvements.
- For any queries, please feel free to directly contact your dealer.

CONTENTS

1	INTENDED USE / PART NAMES	2
2	SAFETY PRECAUTIONS	3~11
3	SPECIFICATIONS	12
4	INSTALLING THE BED	13
5	CONNECTING TO THE POWER SUPPLY	
	1. Power outlets	14
	2. Using the cable storage hooks	14
6	OPERATION OVERVIEW	
	Adjusting the angle of the back or knee section base and the height of the bed	15
7	USING THE HANDHELD CONTROLLER	16~18
8	OPERATION PROCEDURES	
	1. Handle operation (3-crank Gatch beds only)	19
	2. Adjusting the angle of the leg section base	20
	3. Locking the casters	21
9	ASSEMBLING THE BED	
	1. Attaching/detaching the headboard and footboard	22
	2. Attaching the mattress stopper	22
	3. Attaching Bedside Rails to Bed	23
10	PROCEDURES AND CAUTIONS FOR USING THE MATTRESS (OPTIONAL)	27
11	PROCEDURES TO MOUNT OPTIONAL ITEMS AND PRECAUTIONS	
	1. Bed side table	28
	2. Over bed table	28
	3. IV pole	29
12	OPTIONS SUITABILITY TABLE/PRODUCT SYMBOL DEFINITIONS	30
13	REGULAR INSPECTION AND DAILY CLEANING	31~32
14	TROUBLESHOOTING	33
15	LONG-TERM STORAGE	34
16	AFTER-SALES SERVICE	35

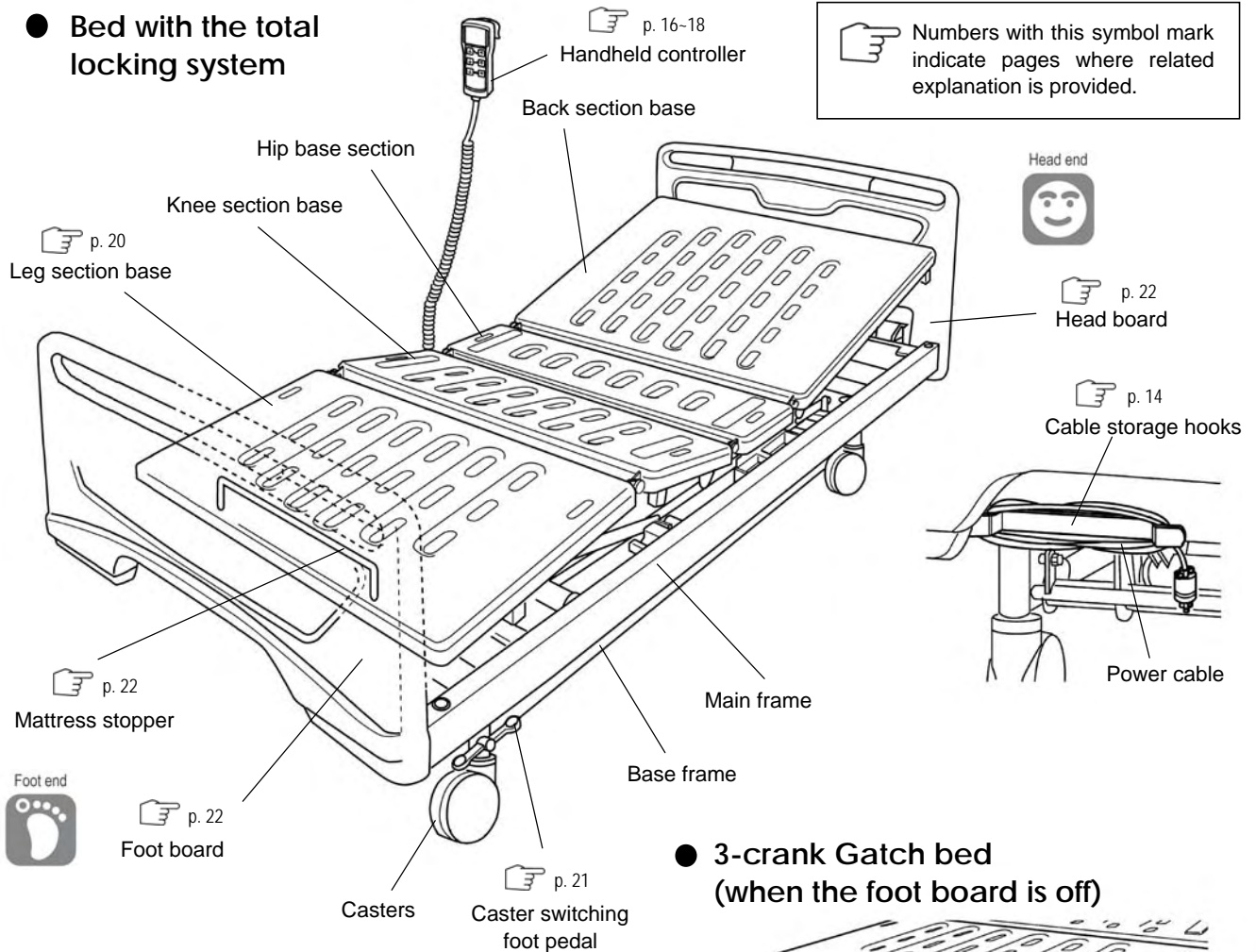
1 INTENDED USE / PART NAMES

1. INTENDED USE

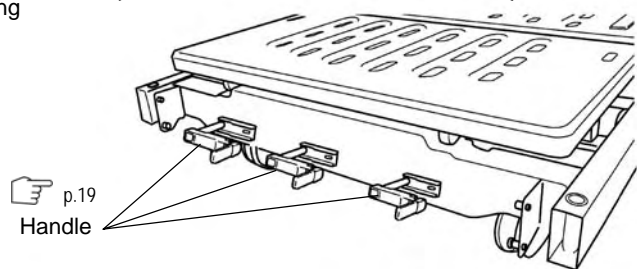
This bed is designed to be used for medical care in medical facilities or facilities for elderly people.

2. PART NAMES

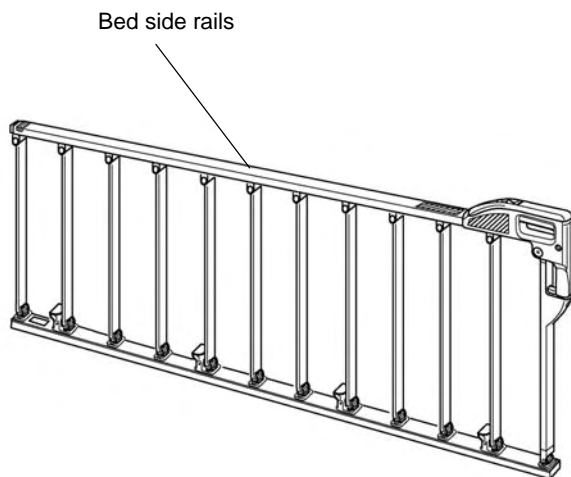
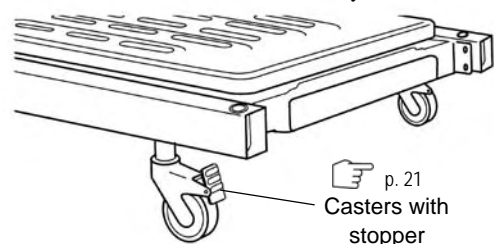
● Bed with the total locking system



● 3-crank Gatch bed (when the foot board is off)









● Bed with casters with a stopper (when the foot board is off)



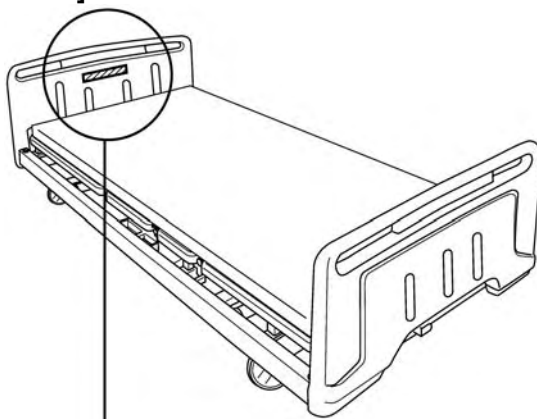
2 SAFETY PRECAUTIONS

- 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" and "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 fatal injury if ignored.
 CAUTION	Indicates actions that may result in personal injury or property damage if ignored.
[Example pictograms]	
 Electric shock	This symbol indicates warning or cautionary details. Specific details are indicated inside the symbol. (The symbol on the left indicates "Caution: Electric shock.")
 Do not disassemble	
 Unplug	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 where it can be easily accessed for later reference.

[Safety label]

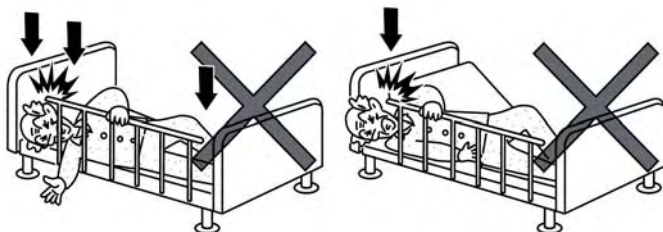


- Precautions requiring special attention by persons using the bed are affixed to the foot-end frame. Do not remove or deface the label.
- If the safety label is removed or defaced, replace with a new one obtained from your dealer.

 WARNING Disregarding the warnings can cause a deadly wound.	 Keep away head and neck from a gap(↓) and opening of side-rail to prevent from patient-entrapment. Failure to do so may result in injury.	 Keep head, hand and foot away from side-rail when raising and lowering the bed. This may result in injury.	 Do not crawl under the bed frame or put your head, arm or leg under the mattress bottom. This may result in injury.	 CAUTION Be careful of hands or fingers being caught in gap of mattress bottom /side rail or under mattress bottom. This may result in injury.
PARAMOUNT BED 3F07207300A0				

WARNING

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

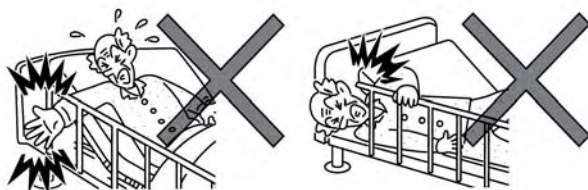


- When the head or neck enters the gap, the patient might not be able to withdraw, and there is a risk of injury.
- Due attention should be paid to patients who cannot maintain posture by themselves.

- **Even when side rails are used, pay attention to prevent patients from falling off 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.**

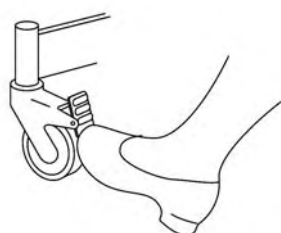
- When the head or neck enters the gap, the patient might not be able to withdraw, and there is a risk of injury.
- A hand or finger may get caught in the gap, resulting in an injury.

- **Do not insert a hand (fingers) or foot 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.

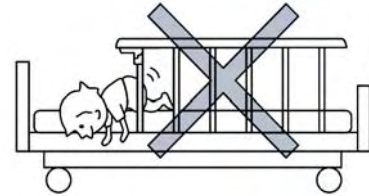
2 SAFETY PRECAUTIONS



WARNING

■ Do not use with infants.

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

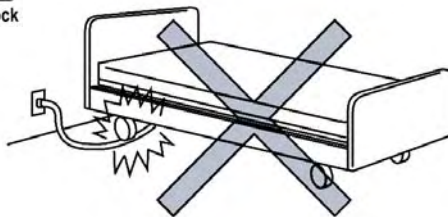


■ Do not allow dust to accumulate on the power plug.



- 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.
 - Prevent cables from getting caught by the bed's movable parts.
 - Do not put heavy objects on cables or apply strong force.
 - 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 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 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.

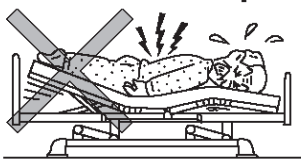
- When a child aged 12 or under, or someone deemed incapable of comprehending the operation (such as someone having a cognitive illness) operates the handheld controller by themselves, there is a risk of unexpected injury such as the body becoming caught in the bed by mistake.
- If there is a risk of such person touching the handheld controller, limit the operation by either of the following procedures in order to prevent an accident caused by incorrect operation.
 - Disable the operation of the controller using the Handheld controller operation selection switch. (For setting procedures, see p. 16.)
 - Disconnect the power plug.
- Even when operation is disabled using the Handheld controller operation selection switch or on the nurse control panel, pressing the Reset switch enables operation again.
- 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.

Head end



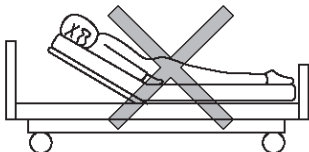
Foot end



- 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.

Head end

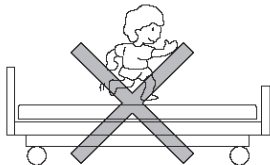


Foot end



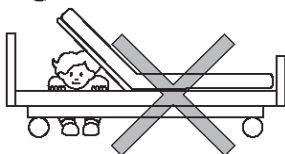
- Bending the joints in the wrong direction may result in injury.

■ 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 an injury. Prior to operating the bed, make sure that there is no obstacles around the bed.

WARNING

■ Do not insert or unplug 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 conjunction 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 a 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.

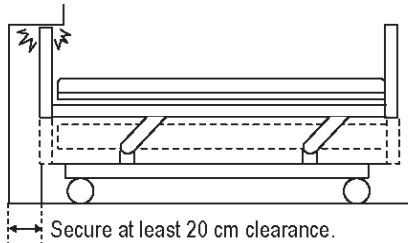
- Improper use of the bed may adversely affect the patient's medical condition. Before the patient or a family member operates the bed, make sure that the doctor or nurses explain related details given in the Instruction Manual and proper usage to suit the patient's medical condition.

■ 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.

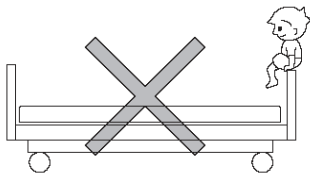
CAUTION

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



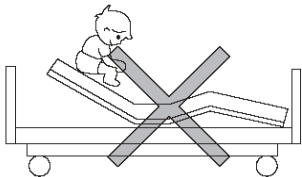
- When using the bed, make sure that the bed does not hit the wall, beam, or power plug during the adjustment of the height or inclination angle.
Make sure that there is **at least 20 cm** clearance from the wall or beam.

- Do not sit on a fold-down side rail, headboard, or footboard.



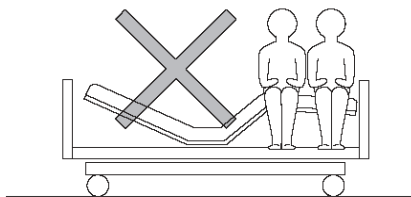
- The patient may topple or fall from the bed, or the bed could be damaged or deformed and result in injury.

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



- The base supports are subjected to excessive weight, and may be damaged or deformed.

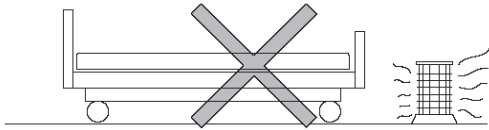
- The bed should not be used by two or more persons.



- 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; 178 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 conditions beforehand.
 - The load to be applied to the bed is less than the maximum weight that the bed can bear.
 - Bed with the expansion function: 178 kg
 - Bed without the expansion function: 138 kg
 - 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.

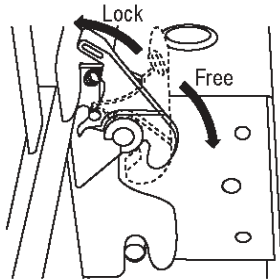


- Do not use heaters near the bed. Otherwise, the bed may be damaged or deformed, or even catch fire.

■ Check around the bed before operating the bed.

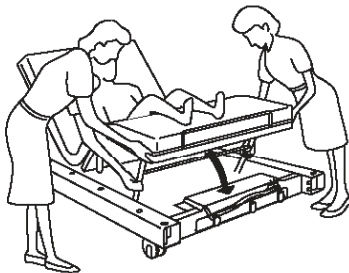
- A position operation could damage items located around the bed, or could cause the bed to be damaged or deformed.

■ 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. 22)

■ The angle of the leg section base should be adjusted by two or more persons.

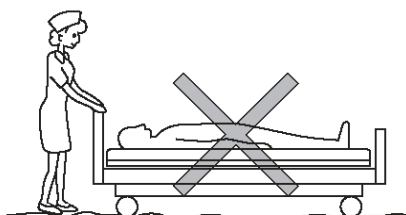


- If the adjustment is done only by one person, their hand may get caught between the leg section base and main frame, resulting in an injury. (See p 20)

■ When moving the bed, watch your step.

- You may hit your leg against the caster switching pedal or caster operating step or your foot may 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.

CAUTION

■ Hold the power plug body when unplugging.



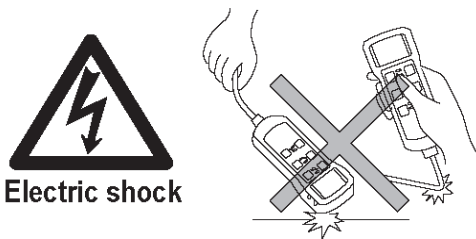
- When holding onto only the power cable and pulling it to disconnect the plug from the outlet, the cable could be damaged and there is a risk of electrical shock.

■ 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.

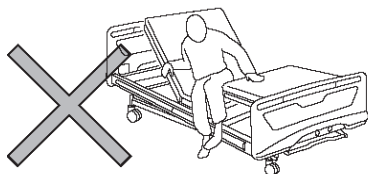


- There is a risk of electric shock or malfunctions due to short circuit.
- When the handheld controller is damaged, request a repair (or replacement).

■ Prevent patients from slipping off the bed.

- When the back is raised or inclined, 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 from slipping off the mattress.

■ Do not have patients get on or off the bed when the bed is inclined or set to the cardiac position.



- There is a risk of falling down and getting injured.
- Incline the bed or set it to the cardiac position under the observation of a doctor or nurse.

■ Do not combine the bed with products other than the suitable products specified by Paramount Bed.

- For optional 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 products 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 type 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; otherwise, 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 presence of damage.

■ **Beds damaged in accidents must be inspected and repaired 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.

MOTORIZED GATCH BED	Product name		Electrically-operated remote control bed			
	sleep surface 910mm width type	Model No.	PA-93281 PA-98281	PA-93282 PA-98282	PA-93291 PA-98291	PA-93292 PA-98292
		Dimensions	1,041 mm (total width) x 2,156 mm (total length)			
		product weight	128 kgs		122 kgs	
	Total height		793 mm to 1178 mm		793 mm to 1178 mm	
	Height ^{*1)}		395 mm to 780 mm		395 mm to 780 mm	
	casters		125 mm dia. single caster (Central locking system)		125 mm dia. single-wheel caster (Casters with stopper)	
	Power cable length		Effective length: approx. 2000 mm			
	Materials/ coating	Head/foot boards	PP resin / solid color		PP resin / solid color	
		Base	steel sheet : powder coating			
		Main frame	steel sheet and steel tubing : powder coating			
	User's maximum weight		138 kgs			
	Safe operating load ^{*2)}		174 kgs (1700 N)			
	Back-section base inclination angle		0° to approx. 70° (with no increments)			
	Knee-section base inclination angle		0° to approx. 25° (with no increments)			
	Raising/lowering range		0 to approx. 385 mm (with no increments)			
	Operation guarantee conditions	Temperature	Approx. 10 to 40°C			
		Humidity	30 ~ 75%RH			
	ELECTRICAL PARTS	T y p e	Linear actuator (DC motor)			
		Supply voltage, frequency	230 V AC, 50/60 Hz			
		Power consumption	Back raising, knee raising: 170 VA max., Height: 220 VA max.			
		Continuous operating time	Approx. 2 min. (Downtime: Approx. 18 min. ^{*3)})			

3-CRANK GATCH BED	Product name		Manually-operated bed	
	sleep surface 910mm width type	Model No.	PA-99291	PA-99292
		Dimensions	1,041 mm (total width) x 2,156 mm (total length)	
		product weight	101 kgs	
	Total height		793 mm to 1178 mm	
	Height ^{*1)}		395 mm to 780 mm	
	casters		125 mm dia. single caster (Casters with stopper)	
	Materials/ coating	Head/foot boards	PP resin / solid color	
		Base	steel sheet : powder coating	
		Main frame	steel sheet and steel tubing : powder coating	
	User's maximum weight		138 kgs	
	Safe operating load ^{*2)}		174 kgs (1700 N)	
	Back-section base inclination angle		0° to approx. 75° (with no increments)	
	Knee-section base inclination angle		0° to approx. 45° (with no increments)	
	Raising/lowering range		0 to approx. 385 mm (with no increments)	

*1) The height indicates the distance from the floor to the surface of the base.

*2) Safe operating load: maximum load with which the bed can be operated. (The total load of the user's weight and incidental items including the mattress and options.)

*3) Time to protect electrical parts from overheating when the bed is used continuously (approx. 5 min).

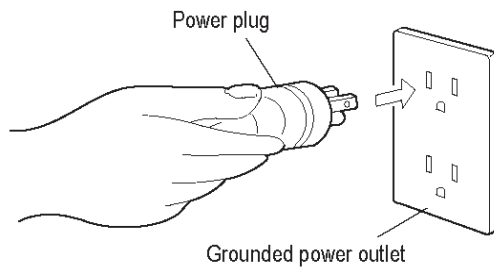
■ Installation location

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 10° to 40°, humidity 30% to 75%RH
- 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

5 CONNECTING TO THE POWER SUPPLY

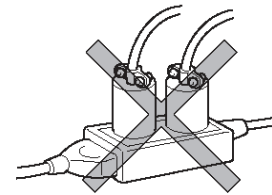
1. Power outlets



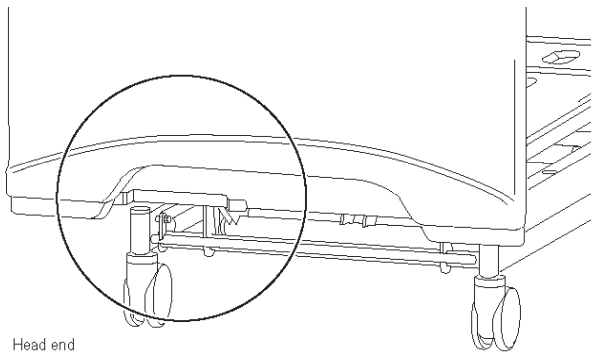
- Each bed should be plugged into a separate, appropriately wired, single-phase AC 220 V, 10 A or greater grounded power outlet using the power plug.

CAUTION

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

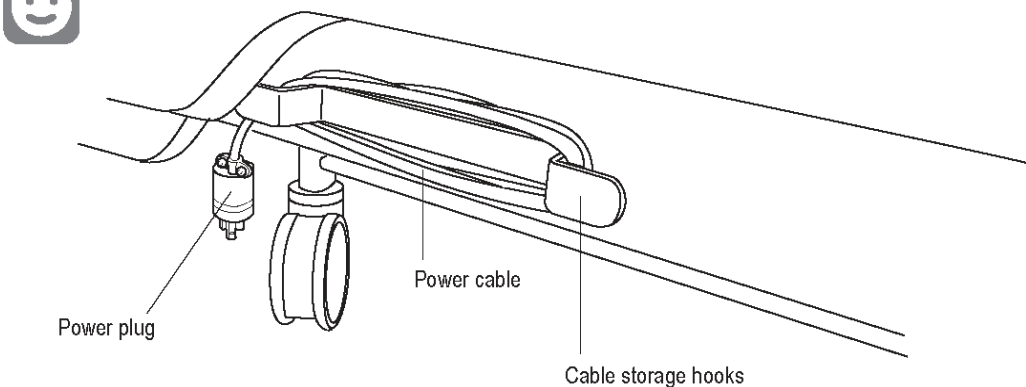


2. Using the cable storage hooks



[Using the cable storage hooks]

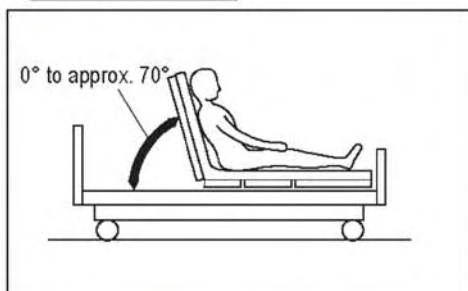
- Wind the power cable onto the cable storage hooks when moving the bed.



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

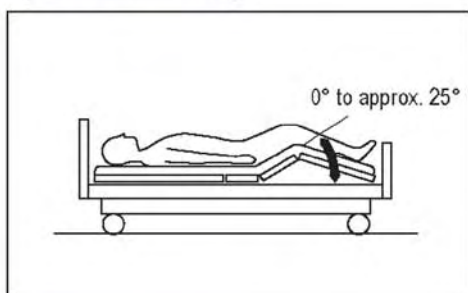
- The angle of the back and knee section bases and the height of the bed can be adjusted with no increments. (For operation procedures, see p. 16~18)
- The angle of the leg section base can be manually adjusted in two levels. (See p. 19)

Back raising



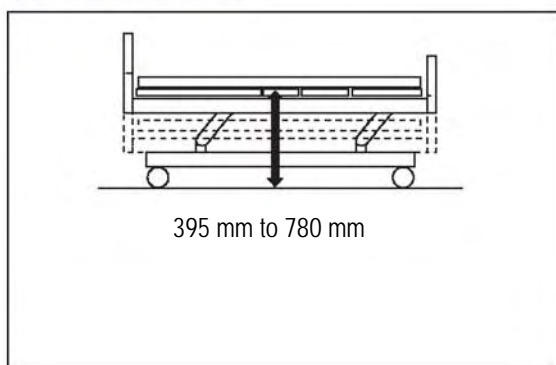
- The back section base angle can be adjusted. The back section base can be adjusted electrically from an angle of 0° to approximately 70°.

Knee raising



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

Height adjustment



- The bed height can be adjusted. The height from the floor to the base of the bed can be adjusted as shown in the figure to the left.

7 USING THE HANDHELD CONTROLLER

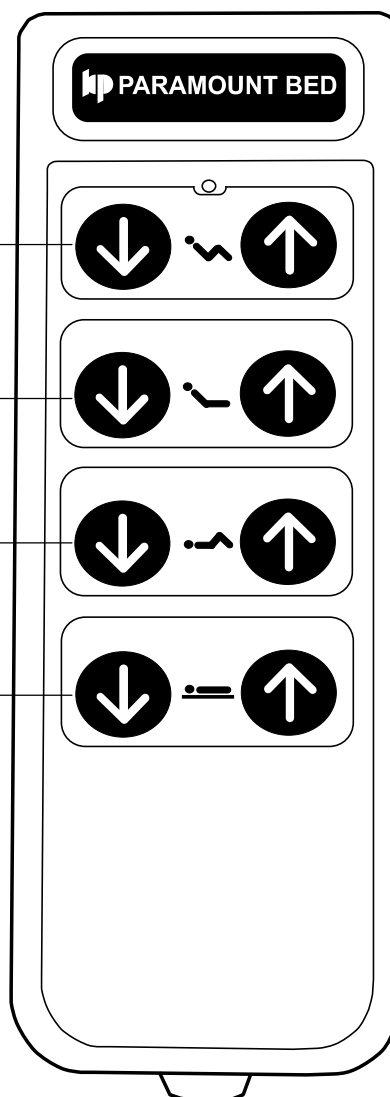
- The angle of the back and knee section bases and the height of the bed can be smoothly adjusted with no increments by using the handheld controller.

WARNING

- 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, limit the operation by either of the following methods in order to prevent an accident caused by incorrect operation.
 - Disable the operation of the controller using the Handheld controller lock.
 - Disconnect the power plug.
- Be aware that pressing the Reset switch enables operation again even when operation is disabled using the Handheld controller operation selection switch.

Operation prosedures

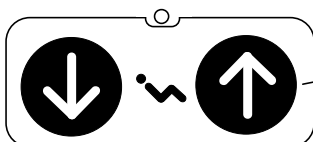
Pressing the button adjust the bed, and releasing the button stops the adjustment, allowing you to adjust the bed to the desired position. Press two or more buttons simultaneously to stop the operation.



7 USING THE HANDHELD CONTROLLER

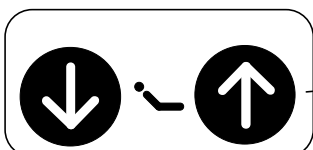
Operation buttons

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



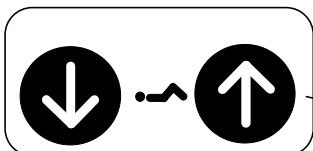
Back and knee UP and DOWN buttons

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



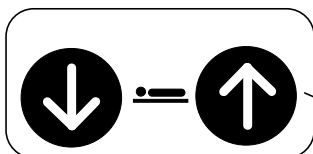
Back UP and DOWN buttons

The back section base angle can be adjusted.



Knee UP and DOWN buttons

The knee section base angle can be adjusted.

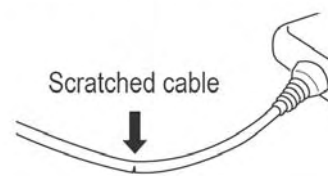
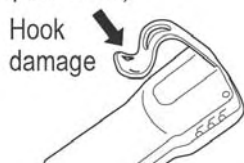


Bed height UP and DOWN buttons

The bed height can be adjusted.

CAUTION

- 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).



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.

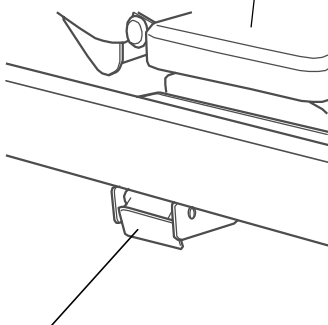
Head end



Foot end



Hip
section
base



Emergency CPR lever (orange)

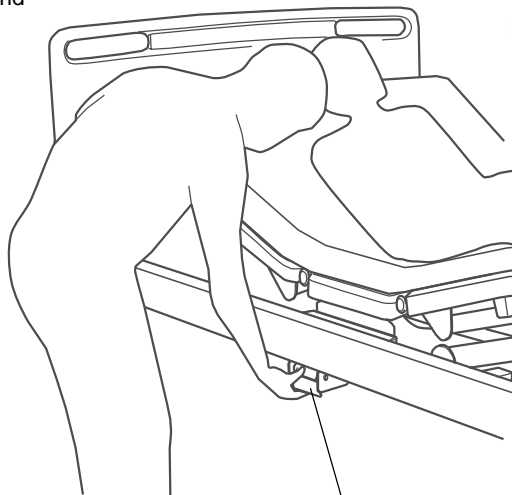
<Emergency CPR procedure>

- (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 Kyma 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.

Head end



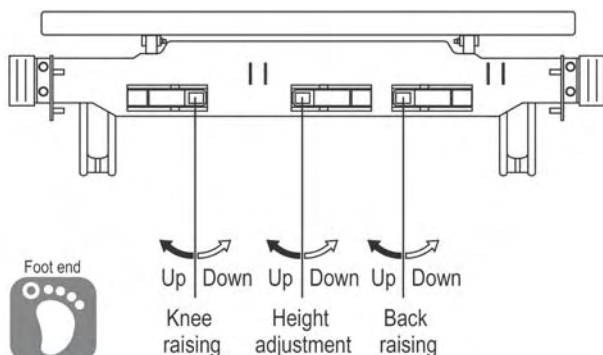
Emergency CPR lever (orange)

<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.

1. Handle operation (3-crank Gatch beds only)

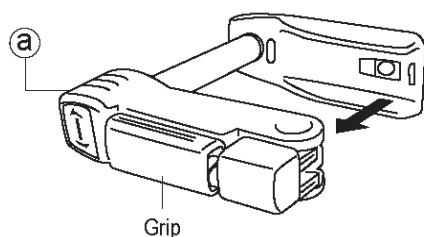
- Use the handle mounted on the main frame to raise or lower the back or knee section base and adjust the bed height.



1 Grip part ① of the handle to be operated and pull it out to the end.

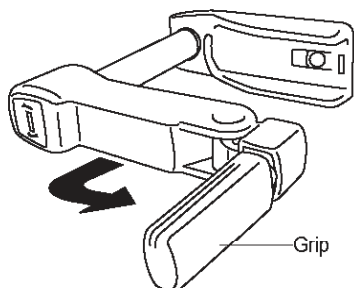
2 Raise the grip to 90 degrees, hold the grip, and turn the handle.

1



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

2



CAUTION

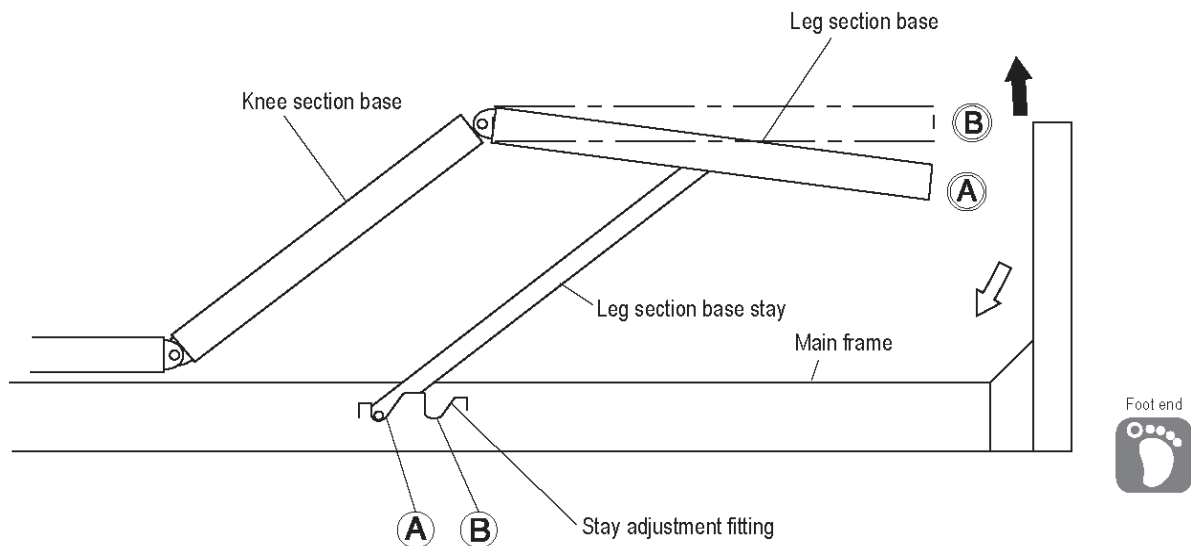
- Using the handle without completely pulling it out may cause a failure. Be sure to pull it out completely before use.
- After use, be sure to press the handle into the original position. If it is out, it may catch people's leg, causing an injury.
- Do not place your leg on the handle. You may fall 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 crash 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)**.

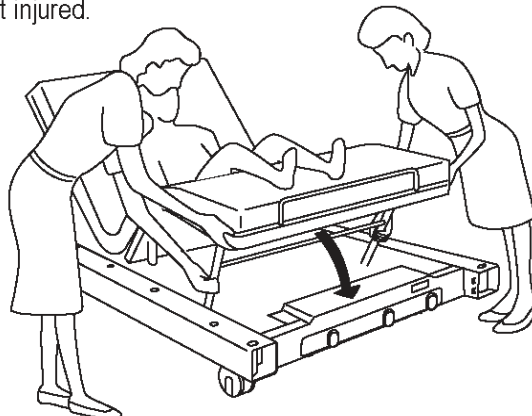


- When returning the knee section base to the horizontal condition, be sure to return the leg section base stay to the normal position **(A)**.



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.



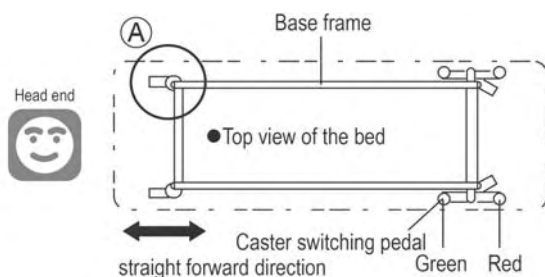
3. Locking the casters

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.

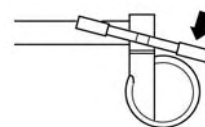
■ Central locking system

- The casters can be set to either of the below by operating the caster switching pedal on the foot end.



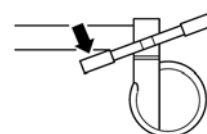
① Locking the four wheels

Depressing the red pedal locks swiveling and rotation of the four wheels.



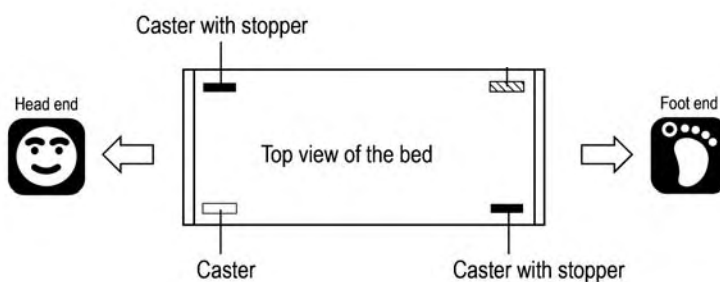
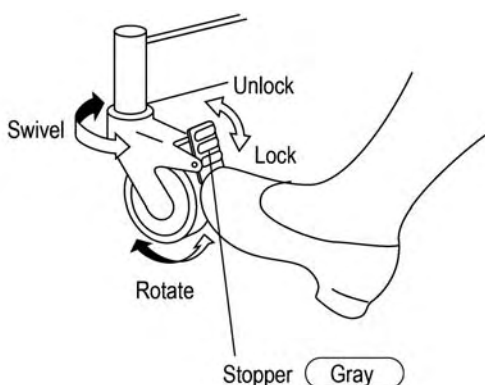
② Unlocking the four wheels

Returning the pedal to the horizontal condition unlocks the wheels, allowing the four wheels swivel and rotate.



■ Casters with stopper

- 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.



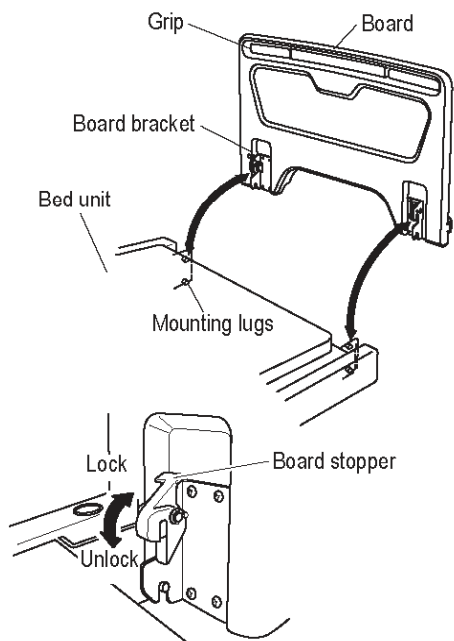
- Inspect the casters regularly. Depending on the frequency of use and the environment, casters will exhibit wear and deterioration. (High-temperature and high-humidity condition may accelerate the deterioration.) In case of declined function of the stoppers or discoloration or crack on the wheel, request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

9 ASSEMBLING THE BED

1. Attaching/detaching the headboard and footboard

- The headboard 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

- 1 Grasp the grip of the headboard or footboard, lift it, and mount it so that the board brackets 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.

Detaching

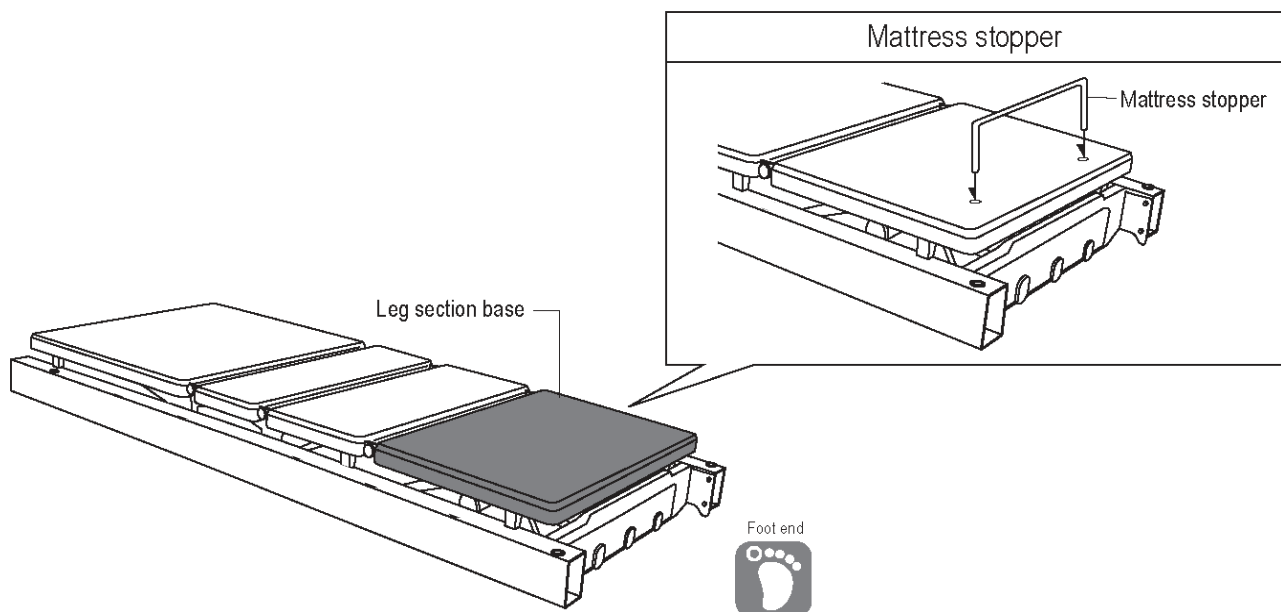
- 1 Move the board stopper to unlock.
- 2 Grasp the grip of the board and detach it.



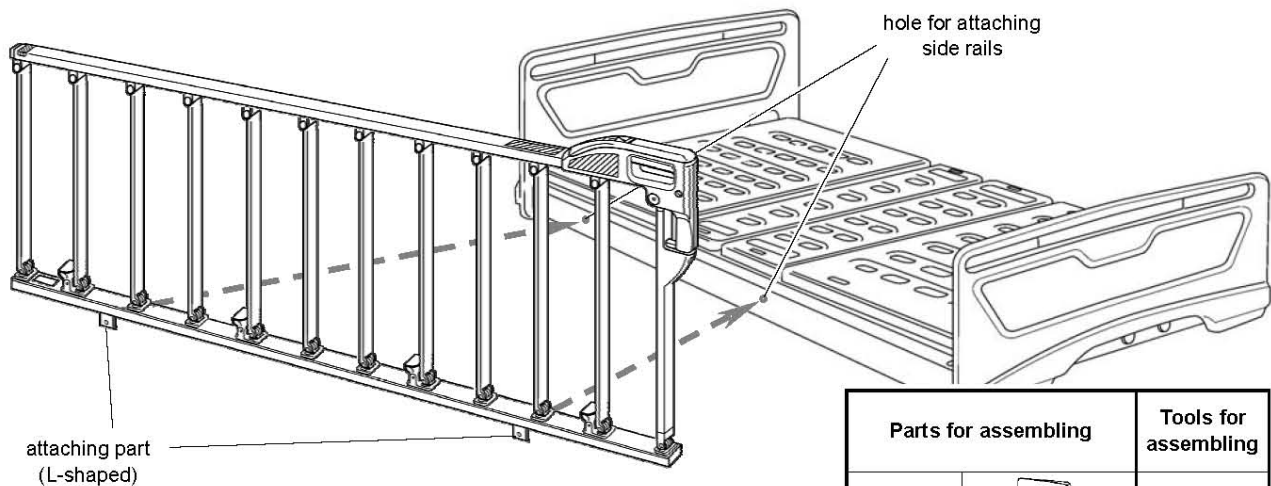
- When attaching the headboard or footboard, make sure that the stopper is used. Otherwise, the board may disengage when the bed is moved, causing an injury due to toppling.







2. Attaching the mattress stopper

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



3. Attaching Bedside Rails to Bed



Parts for assembling		Tools for assembling
attaching metal x 4		
bolt A (short) x 4		spanner (13mm)
bolt B (long) x 4		
nut x 8		hex key wrench (5mm)

(1) Prepare a hexagonal-hole key wrench (5mm) and spanner (13mm).

(2) Raise back and knee section about 30 degrees, so that it will be easier to assemble.

(3) Fix a attaching metal to attaching part (L-shaped) protruded part on the side rail basement. Insert bolt A in a hole of L-shaped part and fasten it with nut by hands. Make sure to leave loosen space as shown as in picture. (2 or 3 clockwise rotation of nut is enough)

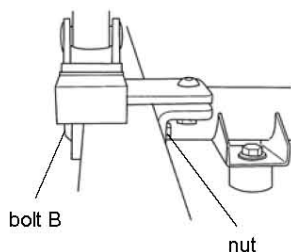
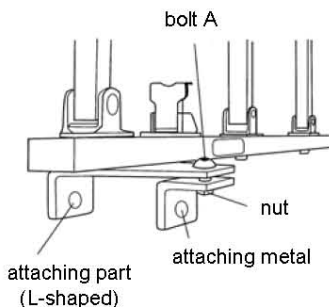
(4) Place the side rail to bed frame. Move and adjust the rain in the right position where the hole of bed frame matches with hole of L-shaped part, make sure that a lock and release lever should be faced toward foot end.

(5) Insert bolt B through a hole of L-shaped part and bed frame. Tighten with nut by finger initially and secure by hex key wrench next.

(6) Tighten bolt A and nut by hex key wrench.

(7) Make sure the side rail has been set firmly and tightly.

(8) Lower the back and knee section to the full flat position.



CAUTION

Bedside rails are designed to prevent patients and bedding from falling onto the floor.
Do not use bedside rails for the purpose of standing support.

Operation procedure

New Collapsible bedside rails

(PA-93282, PA-93292, PA-98282, PA-98292, PA-99292)

■ Raising (to use the side rails)

- When the top bar of the collapsed side rail is lifted, the stopper automatically locks the side rail.
- At this time, check that the indicator window shows completely green.



If the indicator shows even a small amount of red, the stopper is not locked completely. In such a case, lift the top bar again and check that the indicator window shows completely green before use.



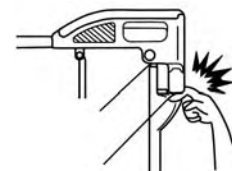
WARNING

If the side rail is not completely locked (red shows in the indicator), it may suddenly collapse when the patient put a hand on it or hold it. In such a case, the patient could fall off the bed or the hand or arm may get caught, resulting in injury.



CAUTION

When operating the 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 or locking parts.



■ Folding

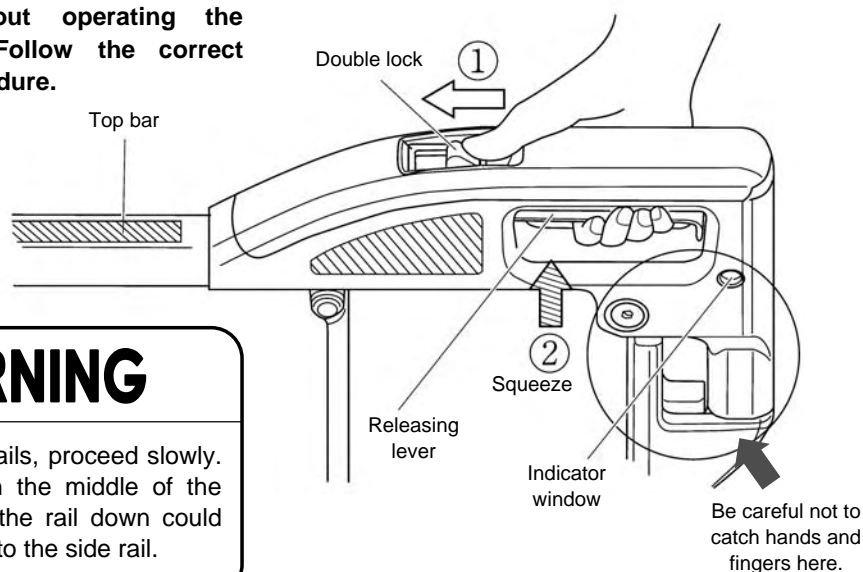
- Use your finger to slide the double lock all the way in the direction indicated by the arrow (1).
- While sliding the double lock, grip the releasing lever in the direction indicated by the arrow (2) and slowly fold the side rail.



The releasing lever cannot be operated without operating the double lock. Follow the correct operation procedure.

Explanation of indicator window

- | | | |
|-------|--|--|
| Green | | Completely locked status |
| Red | | Incomplete locking if even a little red is showing |

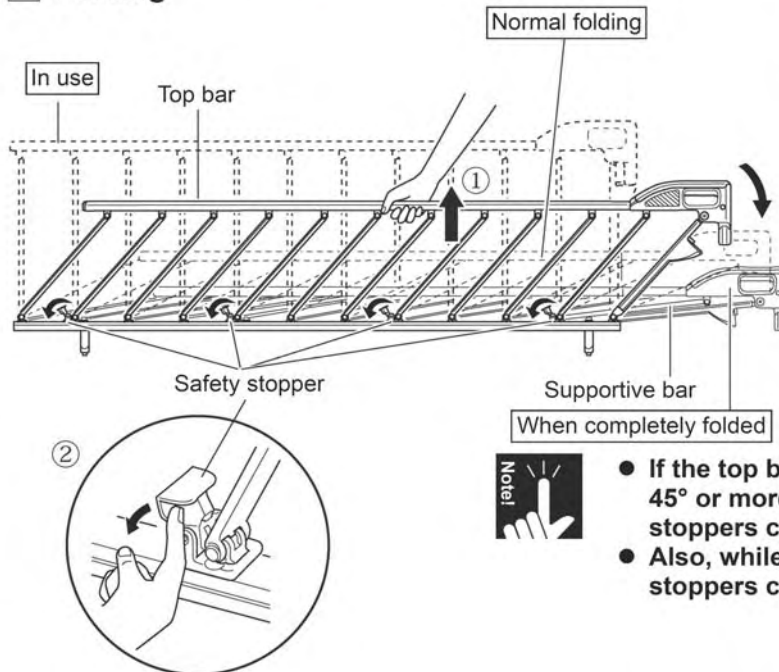


WARNING

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 the side rail.

Safety stopper

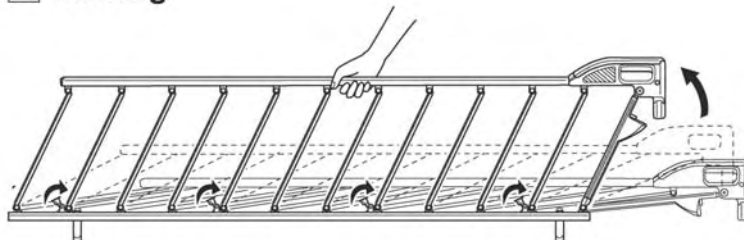
1 Folding



- The safety stoppers are attached to prevent fingers from being caught in the gap between supportive bars when folding the side rail. For that reason, when normally folding the side rail, the safety stoppers are activated to make the folding position one level higher.
- Lift the top bar a little bit (Fig. ①) and push down the safety stopper one by one as shown in Fig. ②. (Four locations)

- If the top bar is lifted too much (approximately 45° or more of the supportive bar), the safety stoppers cannot be pushed down.
- Also, while the side rails are in use, the safety stoppers cannot be pushed down.

2 Raising



- When the top bar of the collapsed side rail is lifted, the safety stoppers are automatically restored. Check that all safety stoppers are restored (four locations).

WARNING

- Before a patient gets on or off the bed, push down the safety stoppers and completely fold down the side rail. The patient's leg could get caught by the side rail, causing the patient to fall off the bed or the patient's fingers could get caught, causing injury.

CAUTION



- When pushing down the safety stopper, as Fig. 1 use your fingertip to hook the end of the stopper. If you hold the entire stopper to push down the stopper, as shown in Fig. 2, your fingers could get caught, causing injury.
- When lifting the side rail, check that all safety stoppers are restored. Otherwise, your fingers could get caught or the side rail could be damaged.



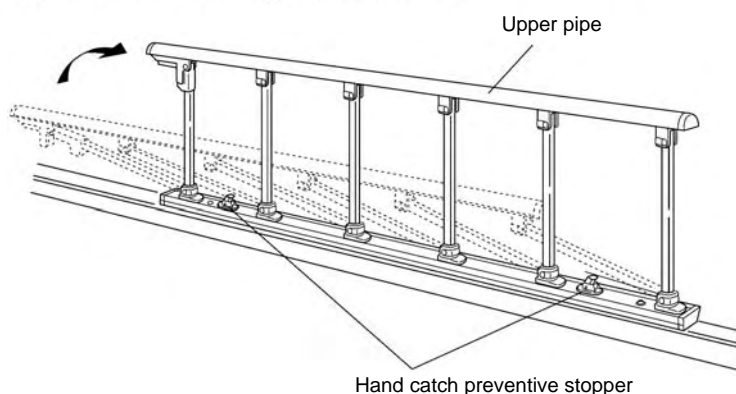
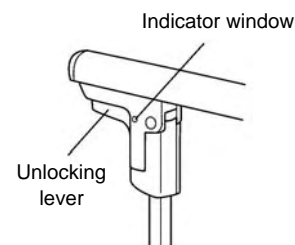
- The descriptions in this instruction manual may differ from the actual product due to specification changes. If you have additional questions, contact your dealer.

Conventional Collapsible Bedside Rails

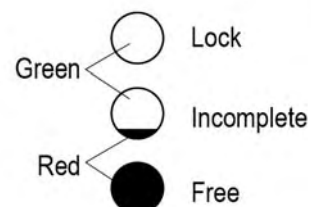
(PA-93281, PA-93291, PA-98281, PA-98291, PA-99291)

■ Unfolding

- When the upper pipe of the folded side rail is lifted, the stopper automatically works to lock.
- Confirm that green shows in the indicator window of the stopper on the head end edge of the upper pipe.
- If red shows even a little, the stopper is not locked completely. Strongly press the upper pipe once again and confirm that the indicator window shows all green before use.



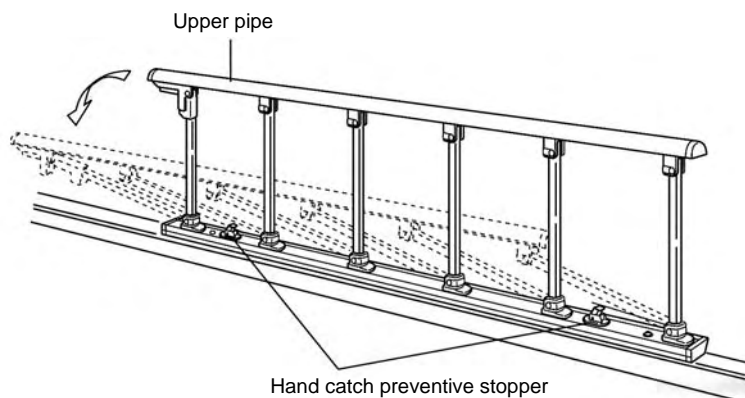
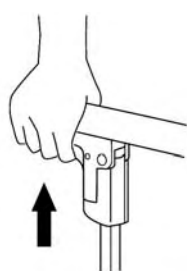
Explanation of the indicator window



■ Folding down

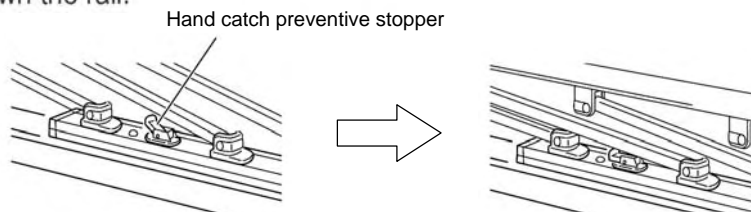
[Normal folding]

- Grip the unlocking lever, unlock the rail, and press it down.



[To fold even lower]

- Push down the hand catch prevention stopper and completely fold down the rail.



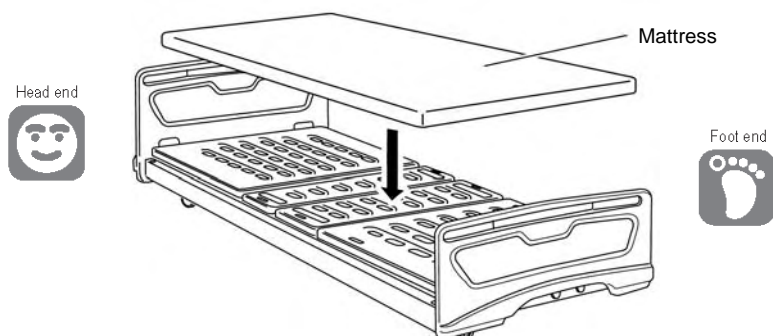
- Be sure to read the instruction manual attached to the fold-down bed side rail as well.
- The description in the respective instruction manual may be different from the description in this manual due to changes in specifications. In case of any question, contact your dealer.

10 PROCEDURES AND CAUTIONS FOR USING THE MATTRESS (OPTIONAL)

CAUTION

- Be sure to use a mattress that Paramount Bed specifies as a suitable product in combination with the bed. Other mattresses are unsuitable in terms of dimensions and bending patterns. Patients may get caught between the mattress and side rail and get injured as a result. Unsuitable mattresses exert a burden on the bed and may induce a failure.

- The mattresses listed below are suitable.



Suitable mattresses

Name	Model No.	Dimensions (mm)	Materials
Urethane mattress	PE-5200	Width 910 Length 1,910 Thickness 100	Padding: Urethane foam Cover: Vinyl leather

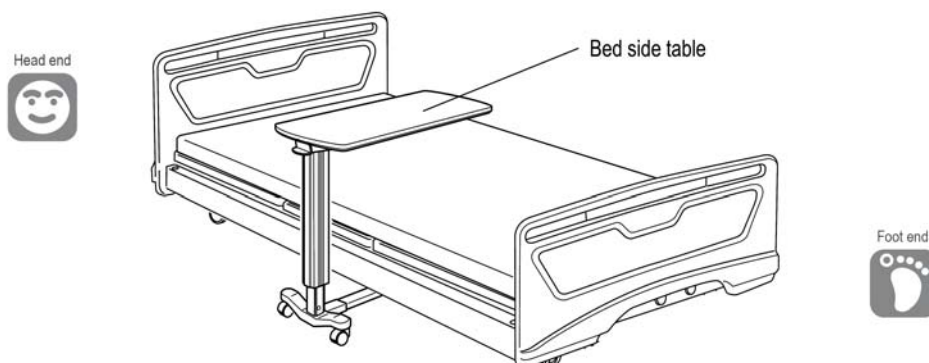


- Use a mattress of which width matches the width of the bed.

11 PROCEDURES TO MOUNT OPTIONAL ITEMS AND PRECAUTIONS

1. Bed side table

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



Bed side table
Suitability Table

KF-190
KF-192-196
KF-282

WARNING

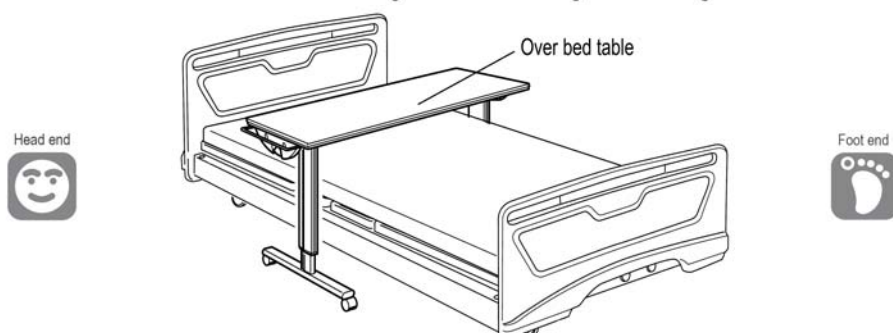
- Remove the table from the bed when performing positioning operations of the bed. Otherwise, the patient may get caught between the table and bed and get injured.



- 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 dealer.

2. Over bed table

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



Over bed table
Suitability Table

KF-832L
KF-833L
KF-813

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 over bed 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 dealer.

3. IV pole

- Insert the IV pole on an option mounting hole (seven places on one side).

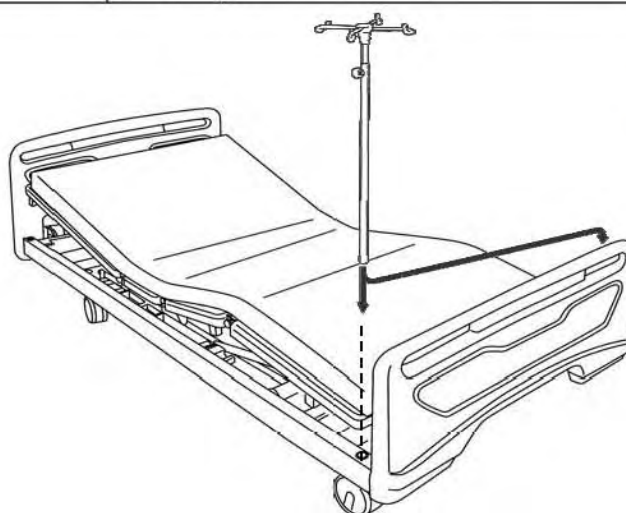
WARNING

- Do not move the bed with holding the IV pole. The IV pole may break, causing an injury.
- Do not use the IV pole as a support to stand up. The IV pole may come off or break, causing an injury due to falling down.
- When using the IV pole, do not put a hand or arm between the base or side rail and the IV pole. The hand or arm may get caught and get injured.
- Each hook's load capacity is 1 kg. Do not hang an article exceeding the load capacity because it may damage the hook, resulting in an injury.

CAUTION

- Length adjustment of the sliding pipe should be kept within 70 cm. If the sliding pipe is pulled out too much, it may come off, resulting in an injury or damage.

Head end



IV Pole
Suitability Table

KC-56

Foot end



- 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.

■Option Suitability Table

Floor width	910 mm
Bed side table	KF-190, KF-192-196, KF-282
Over bed table	KF-832L KF-833L KF-813
Auxiliary frame	KA-083
Auxiliary frame mattresses	KE-0683
IV pole	KC-56
Traction equipment	KA-83
Oxygen cylinder holder	KK-34



- Suitability of optional items may differ due to changes in specifications or according to product combinations. In case of any question, contact your dealer.

■Product symbol definitions

- The symbols below are used for the product. (They are on electrical parts.)

Symbol	Meaning	Symbol	Meaning
	Indoor use symbol		CE Mark
	Electrical waste		See the instruction manual

13 REGULAR INSPECTION AND DAILY CLEANING

- For safety in use, inspect the product regularly, at least once a year. 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 presence of damage.

When an irregularity has been noticed or when a detailed inspection is desired, contact your dealer.

	Operation details	Inspection items
Bed unit	Back raise operation *See p. 15 to 17	Proper operation can be achieved
	Knee raise operation *See p. 15 to 17	There must not be any strange noise
	Height operation and inclination operation *See p. 15 to 17	Proper operation can be achieved
		There must not be any strange noise or remarkable rattling
	Miscellaneous	There must not be any deformation, damage, or falling off of the bumpers or caps
		There must not be any peeling of labels, and the text must be legible
		There must not be any scratches and deformation at the base, the frame, etc.
Board	Board mounting condition *See p. 22	The stopper must be locked properly
		There must not be any remarkable rattling
Casters	Traveling	There must not be any strange noise when the bed is traveling
		There must not be any strange vibration when the bed is traveling
	Caster locking operation *See p. 21	Proper operation can be achieved
		The operation must not be unusually heavy
		The bed must not move when locked
		The bed must move smoothly when the lock is released
Electrical parts	Visual check of electrical parts	Cables must not get tangled with the bed
		Plugs and cables must have no scratches or damage
		Handheld controller must have no scratches or damage

WARNING



Unplug



Caution: Electric shock

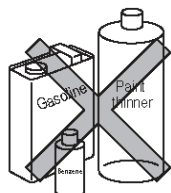
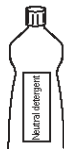
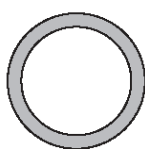
- Unplug the power plug from the power outlet before cleaning.
- To prevent accidents if the bed malfunctions, always unplug the power plug from the power outlet before cleaning.
- Avoid spills.
- Do not splash water to clean the bed. There is a risk of electric shock due to short-circuiting.

■ 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.

* Never use volatile substances such as thinner, benzene, or gasoline, which may discolor or adversely affect the bed finish.

Always dilute any detergents used as specified below.



- 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% - 0.05% sodium hypochlorite (e.g. Milton)



- Cleaning with cresol may discolor or degrade the surface sheet of the head board and foot board.
- The product cannot be used with an ozone sterilizer, or an autoclave, etc.

■ Optional items

- Follow the instructions of the instruction manual that accompanies respective option.

- Problems may not always indicate faults. Check the following once again before requesting repair.
- If the problem persists after checking these points, stop using the bed immediately, disconnect the power plug from the wall outlet if the bed is electrically-operated bed, and contact your dealer for repair.

Problem	Check	Corrective action	Reference page
● The bed does not move even when the handheld controller buttons are pressed.	● Is the power plug plugged into the power outlet?	● Plug the power plug into the power outlet.	14
	● The power plug is plugged into the power outlet, but the bed still does not move.	<ul style="list-style-type: none"> ● Disconnect the power plug from the power outlet and connect it again. ● Plug another electrical device into the power outlet to check that power is available. 	-
● The bed cannot be positioned correctly.	● Are there any obstructions impeding the movement?	● Remove any obstructions.	-
● 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 adjustment fitting?	● Move the leg section base stay to basic position (A) of the stay adjustment fitting.	20
● The bed cannot be moved.	● Are the casters locked?	● Unlock the casters.	21
● The board will not come off.	● Is the board locked?	● Release the board.	22

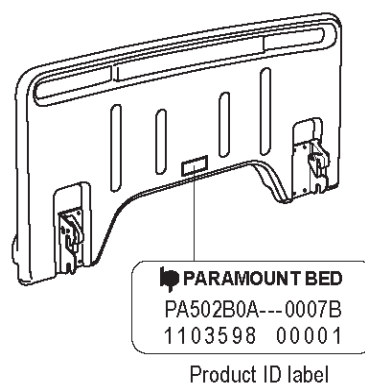
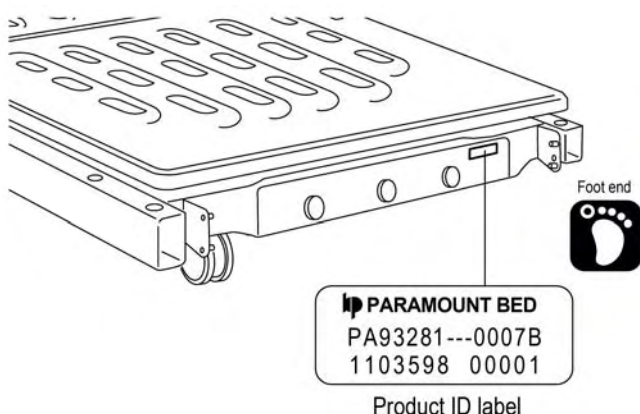
- When requesting repairs or contacting your dealer, please provide the number on the product ID label as shown below.

■ Product ID label locations

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

- View after detaching the footboard

- Footboard



* Affixed on the inside of the footboard.

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

1. Lay the back and knee section bases flat.
2. Lower the bed to the lowest position.
3. Do not place objects other than the 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° and +50° and humidity between 30 %RH and 90 %RH.
6. Do not lean the bed against 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. 14)

1. Warranty

Warranty period and contents described in the “Contract of Sale” are applied.

2. When requesting repairs

Check whether the problem can be solved using the table in “14. TROUBLESHOOTING” on p. 33 in the instruction manual. If the problem persists, disconnect the bed’s power plug from the power outlet and contact your dealer.

■ Details necessary when requesting repair

- Product name, product number
- Production order and production numbers described on the product ID label (see p. 33)
- Date of purchase
- Details of the fault or problem (please provide as much detail as possible)
- Your name, organization, address, and phone number

■ Consumables

Casters, handheld controller, and nurse control panel are consumable parts.

3. Minimum stock availability period

Paramount Bed keeps replacement parts (necessary to maintain bed performance) in stock for at least 6 years after the discontinuation of production.

4. Questions regarding after-sales service

Contact your dealer.

