2246EBN with rail & stirrup Examination chair

Welcome to use our products. A3
Please read the user manual carefully before using the products.
Our company reserves the right to improve design and modify the products without prior notice.

1. About This Manual

This manual shall only be used for the reference of operation of this particular model. If the manual is used for other purposes, we will not undertake any according consequences and responsibility.
All information of this manual shall be protected by copyright and shall not be copied and translated in any part of this specification without the written consent of manufacturer.

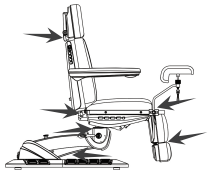
2. Warning

- Power supply must be cut off when changing electrical components or maintaining and cleaning machines.
- The plug must be plugged into an outlet that is properly installed and grounded, to prevent the risk of fire and electric shock.
- Do not stand on this equipment.
- Do not allow children to play with and place the equipment in a place where children can touch. Please adjust the backrest to the highest position when you leave.
- Please do not place the equipment in wet places such as bathroom to avoid electric shock or other failure; Also keep the controllers away from water.
- Please do not place and operate the equipment in places where is painting/coating or supplying oxygen.
- Unless being monitored or instructed by personnel who can be responsible for their personal safety, the people who have physical obstacles, tactile disorders, mental disorders, lack of experience, common sense or children, are not allowed to use the equipment.
- Please contact distributor, service center or related personal with appropriate skill and experience for repairing if the plug is damaged, in case of any danger.
- Please make sure there is no accessible thing within the stroke during any operation of the chairs.
- Operation should be processed by trained professionals.
- The ME EQUIPMENT that are not serviced or maintained while in use with the patient.
- Do not use the device near electromagnetic transmitters.
- Read and follow the "information about Electromagnetic compatibility (EMC).
- Instructions provided indicating not to position ME EQUIPMENT to make it difficult to operate the disconnetion device.
- The third conductor in the POWER SUPPLY CORD is only afunctional earth.
- The maximum load of this chair is 175kg. There are safety risks associated with being overweight.
- If the user/patient is aware of any serious incident related to the device, they shall report it to the competent authority and manufacturer of the user and/or the patient's member state.
- No contraindications at present.
- To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- The device and accessories are to be disposed of according to local regulations after their service lives. Alternatively, they can be returned to the dealer or the manufacturer for recycling or proper disposal.
- No modification of this equipment is allowed.
- Do not touch the Signal I/O ports if in contact with the patient, otherwise patient injury may result.
- This product can only be operated by medical practitioners with professional qualifications, and patients should not operate by themselves.
- The use of the scene for the user sensory awareness is complete, and the operator accompanied.
- Original instruction
- For indoor use only

3. Precautions

- The equipment should be used by an experienced person who must be familiar with the product structure, performance and instructions. And make the regular maintenance work.
- Read this manual carefully before installation, operation and adjustment. And please keep it well.
- This product shall not be used for single side or single point loading work.
- Comply with safety operation rules, do not overload the use of products, to ensure that the product safety protection equipment is complete and reliable, eliminates unsafe factors on time.
- Tighten bolts and nuts regularly to avoid failure caused by loose, sliding, vibration and falling parts.
- During the maintenance, the operator shall not disassemble any parts of the chair at will.
- This product is not allowed to operate when it's with fault. If abnormal phenomenon or abnormal sound is found, it must be stopped for inspection immediately, and work can be resumed after troubleshooting.

- The operator must be familiar with the precautions descrichair in each section of the manual to ensure the safety of person and product.
- This electric beauty chair is equipped with a three-wire power cord. The power cord must be plugged into a three-hole outlet which is properly installed and grounded. This is not only to prevent the risk of electric shock, but also ensure chair work properly.
- Please operate the equipment strict accordance with the warning label pasted to the products.
- While controlling the lifting of the whole chair, the button must be pressed continuously until the chair in a suitable position.
- Replacement must be carried out by trained professionals. Our company can provide circuit diagrams, troubleshooting guidelines, or other materials that are helpful for maintenance to professional maintenance personnel
- Please pay attention that the continuous working times should be Max. 2Min. ON ; 18Min. OFF, when operating the motor.
- Protection against electric shock: Class I
- Maintenance should be processed by trained professionals.
- After each treatment, please use neutral reagent to clear the dust, stains on leather.
- When adjusting each part, please keep your hands, feet and head away from the position indicated by the arrow. (As shown in the photo)

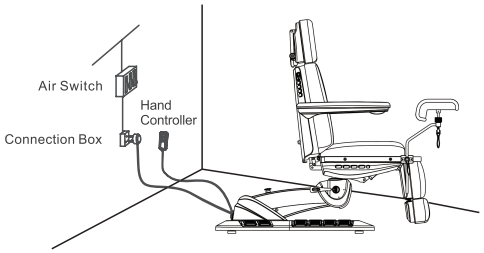


4. Applicable Range

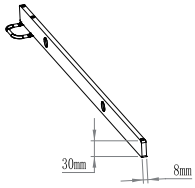
This product is suitable to be used in medical institutions, nursing homes and rehabilitation centers. This product is used for multi-position support operation of patients in medical procedures such as examination or day treatment by medical staff in the clinic.
For products with heating function, the surface temperature of upholstery does not exceed 45°C, its main function is used to adjust the temperature appropriate to the user's body.

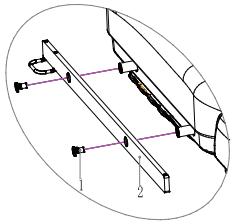
5. Installation

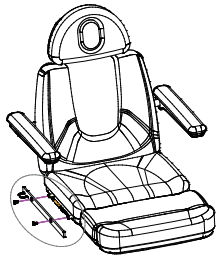
1. Put the product to a proper location, according to the overall layout, the daylighting or artificial lightings and operation condition of the salon's or the home. And keep it in the clean, dry and cool environment.
2. Open the packing carton to check if the product is intact and whether the accessories or spares are complete. Please contact distributor or us if there's any problem.
3. Installation
   Place the product to the proper position. Please note that it is unnecessary to install extra screw on the floor to fasten the chair, because the original design has taken the stability into consideration. But please ensure the product is placed on a firm and flat ground, so as to prevent any accident. If the product rotates or slant due to rough ground, please adjust the four pieces of plastic feet (M10×30) and nuts (M10) by hexagon open-end wrench, which are fasten on the bottom panel, so as to ensure the product is stable.
4. Connect the plug of product with power supply properly. (As shown in the photo)



5. Installation for foot support of 2246EBN



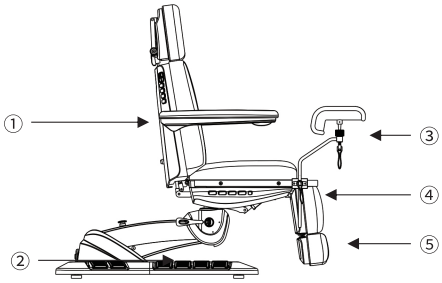




Installation of rail:
1）. 2pcs Hexagonal countersunk head bolt; 1pcs rail
2）. pay attention on the installation order, refer to the drawing
3）. installation method is the same of both sides

6. Structure of products

- This product consists of control box, motor, hardware, plastic parts and leather. Among them,the control box is controlling the operation of the motors and the hand controller.
- This product includes angle adjustment of the backrest, angle adjustment of the seat cushion and lifting adjustment which is an overall and integral structure.
  (As shown in the photo)

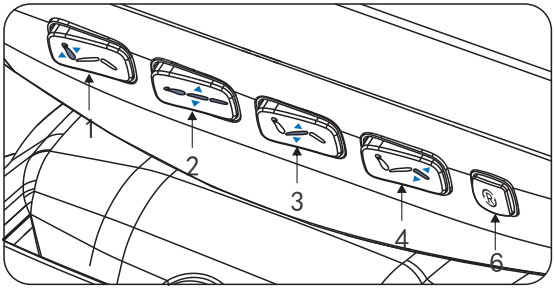


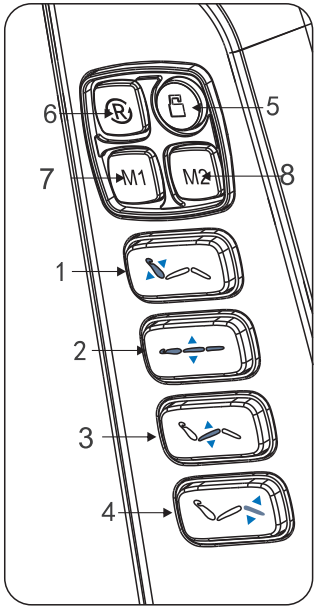
① angle adjustment of the backrest
② lifting actuator
③ stirrups
④ angle adjustment of the seat
⑤ angle adjustment of the footrest

7. Operation Instruction

2246EBN

Standard Configuration (Key Switches)



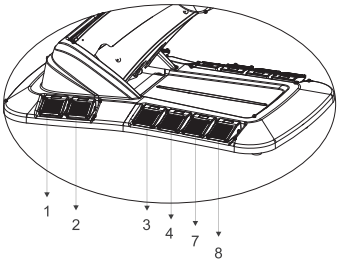


No.	Description	Operation
1	Button for Backrest Adjustment	Press button left (right), backrest moves up (down), angle increases (decreases) at a constant speed.
2	Button for Height Control	Press button left (right), seat moves up (down), height increases (decreases) at a constant speed.
3	Button for Seat Adjustment	Press button left(right),seat inclines forward (backward). height increases (decreases) at a constant speed.
4	Button for Footrest Adjustment	Press button left (right), legrest moves up (down), angle increases (decreases) at a constant speed.
5	Safe-lock button	Keep pressing the "safe-lock button" for about three seconds lighting up the red light around the button, all the buttons can not be operated except safe-lock button. Keep pressing the safe-lock button for about three seconds again, the red button lights go out, all the buttons return to normal operation status.
6	One-key reset button	Press the button, the backrest will automatically move up to the maximum, the seat cushion angle will automatically move to flat, footrest will move down to the minimum, the height of the bed will automatically reach to the setting Position
7	Memory position setting 1	Memory/Programmable postion setting: After adjusting the chair to the requested position, press "M1" button for 2~3seconds, when there is sound of "beep...beep...beep", it means the position is set successfully.

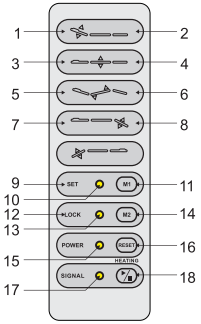
8	Memory position setting 2	Memory/Programmable postion setting: After adjusting the chair to the requested position, press "M2" button for 2~3seconds, when there is sound of "beep...beep...beep", it means the position is set successfully.

2246EBN

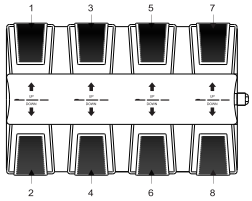
1.Standard Configuration
(Built-in Foot Controller)



2. Optional Configuration
(Hand Controller)



3. Optional Configuration
(Foot Controller)



No.	Description	Operation
1	Backrest moves up	Backrest goes up smoothly by pressing the button.
2	Backrest moves down	Backrest goes down smoothly by pressing the button.
3	Whole bed moves up	The bed goes up smoothly by pressing the button.
4	Whole bed moves down	The bed goes down smoothly by pressing the button.
5	Seat cushion up	Seat inclining smoothly by pressing the button.
6	Seat cushion down	Seat goes flat smoothly by pressing the button.
7	Footrest moves up	Angle of right footrest decreases smoothly by pressing the button.
8	Footrest moves down	Angle of right footrest increases smoothly by pressing the button.
9	Enter the memory position setting (Option)	The indicator light turns on after pressed the button for 2 seconds, then enter the memory position setting state.
10	Indicator light of memory setting (Option)	
11	Memory position setting 1(Option)	1. Pressing the button “SET” for 2 seconds to enter the memory position setting state, the memory position setting indicator is on. Set the position you need, and pressing the button “M1”, the actions are set into memory. Exiting the memory position setting state and the indicator goes off. 2. Press the button to move to the memory action state automatically.

No.	Description	Operation
12	Safe-lock button	Keep pressing the "safe-lock button" for about two seconds, lighting up the red light around the button, all the buttons can not be operated except safe-lock button. Keep pressing the safe-lock button for about two seconds again, the red button lights go out, all the buttons return to normal operation status.
13	Safe-lock button light	
14	Memory position setting 2(Option)	1. Pressing the button "SET" for 2 seconds to enter the memory position setting state, the memory position setting indicator is on. Set the position you need, and pressing the button "M2", the actions are set into memory. Exiting the memory position setting state and the indicator goes off. 2. Press the button to move to the memory action state automatically.
15	Power indicator	Hand controller are connected with power supply properly, indicator light is on. Otherwise, it won't light.
16	One-key reset button	Press the button, the backrest angle will automatically move to the maximum, the seat cushion angle will automatically reduce to the minimum, footrest angle will automatically move to the maximum, the height of the bed will automatically reach to the setting Position
17	Indicator light of heating function (Option)	Pressing the button, the light is on, the heating function works; pressing the button again, the light is off, the heating function stops.
18	Heating (Option)	

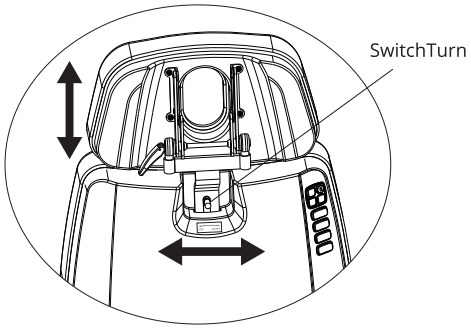
Notes:

1.The heating function is only available for the models with heating function.

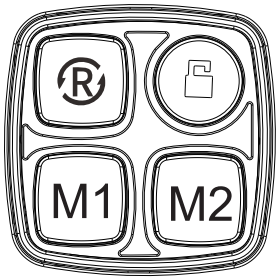
2.Different hand controllers should be chosen according to different configuration.

Adjustable headrest

Turn the switch to the right to unlock. Then adjust the height of the headrest up and down. Turn the switch to the left to lock the headrest again

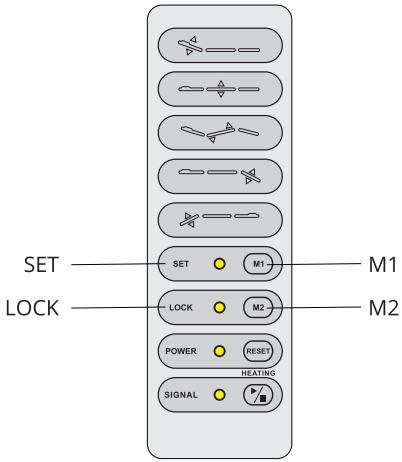


Lighting adjustment



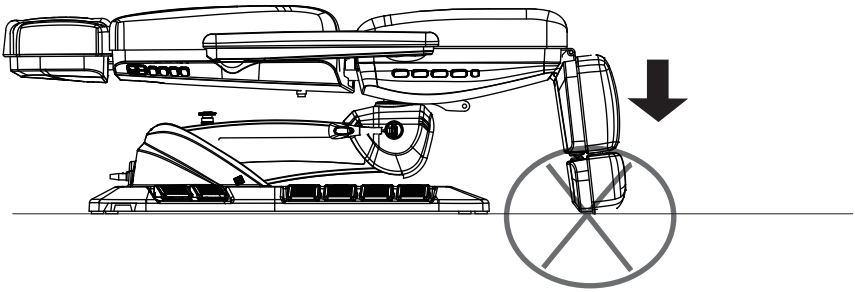
The adjustment is controlled by buttons on backrest and seat.
1. Short press the button " " to enter the lighting adjustment mode. The light around the buttons will rapidly blink.
2. Press the button "M1" to change the color(total 16 kinds of modes）
3. Press the button "M2" to change the brightness（total of 12 kinds of gear）
4. Set the light color and brightness you need, and press button " " again to exit the lighting adjustment mode. Or if no action is taken within 10 seconds, the lighting adjustment mode will automatically exit.

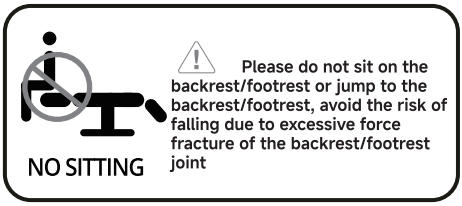
Control by hand control
1.Keep pressing “SET”/ “LOCK” for 2 seconds to enter the light regulating mode
2.press "M1" to choose the light mode (total 16 kinds of modes)
3.Keep pressing "M2" to adjust the brightness (total of 12 kinds of gear)
4.After choosing the light mode and light brightness, then Keep pressing "SET"/"LOCK" to exit the light adjustment.



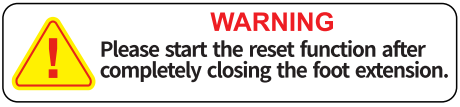
8. Operation Cautions

- Should disassemble foot extendor before bed goes to the lowest position



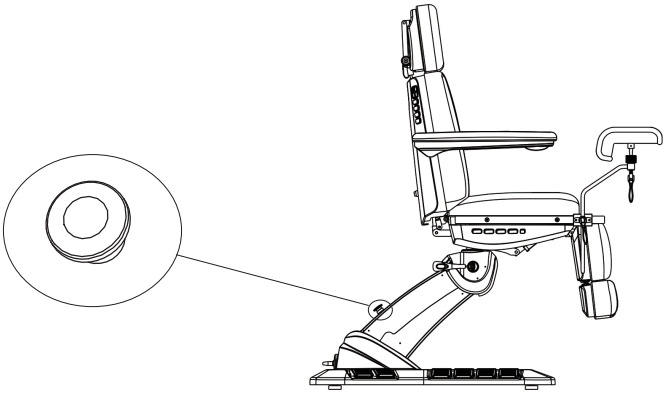


- One-key reset button

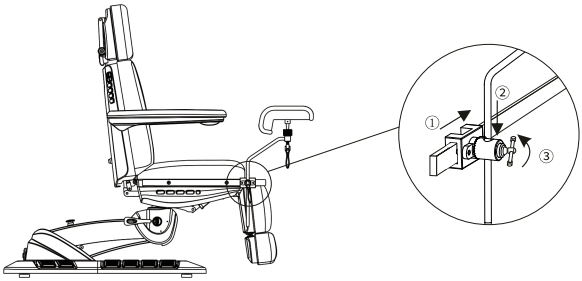


- **Emergency Switch**

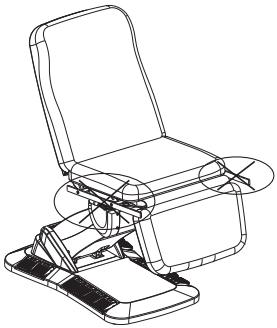
  Allows the operator to immediately stop the bed in case of an unexpected situation



- Installation procedure

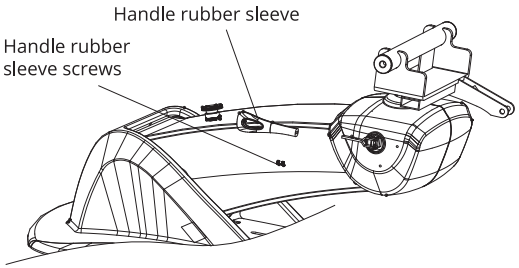


- The position of sliding guide is forbidden to be used for handling assistance,so as not to fracture.

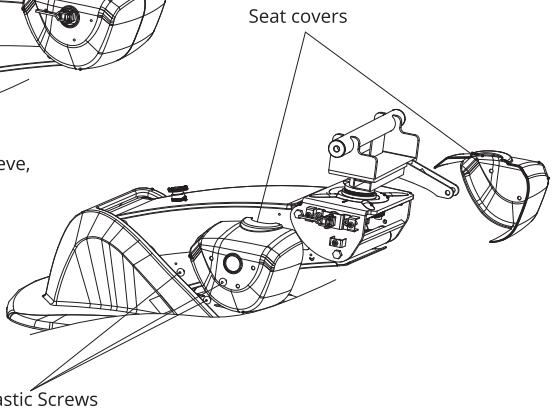


This product graphic is only for display, the specific product structure please refer to the actual product.

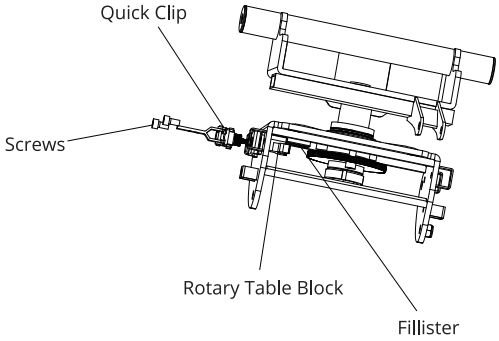
- Guidelines：Replace the Rotary Table Block



Loosen the screws of the handle rubber sleeve, pull out the handle rubber sleeve

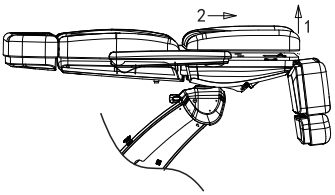


Pull out the plastic screws, remove the seat covers

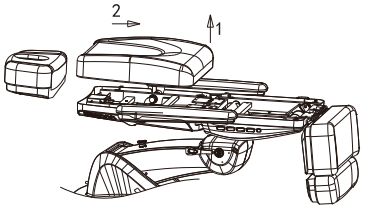


Loosen the screws, pull the Quick Clip and the rotary table block out of the Fillister.
Rotate the Quick Clip to remove the broken rotary table block and replace it with a new one.

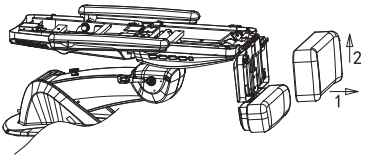
- **Guidelines: Cushion Replacement**



Seatrest:
Adjust the legrest and backrest as picture. Then pull up the end of Seatrest (near the legrest) in direction 1 and push it in direction 2, easily remove the cushion

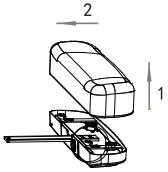


Backrest:
Pull up on the end of Backrest (near the seat cushion) in direction 1. Then push it forward in direction 2 to remove the cushion

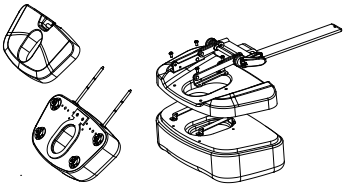


Fixed Footrest:
Pull up the end of Fixed Footrest (near movable footrest). Then pull it upwards to remove the cushion.

Movable Footrest:
Pull out the plastic cover, use a screwdriver to fix the buckle and replace it with new.



Change the footrest pad:
Follow the figure and pull up the end of the pad



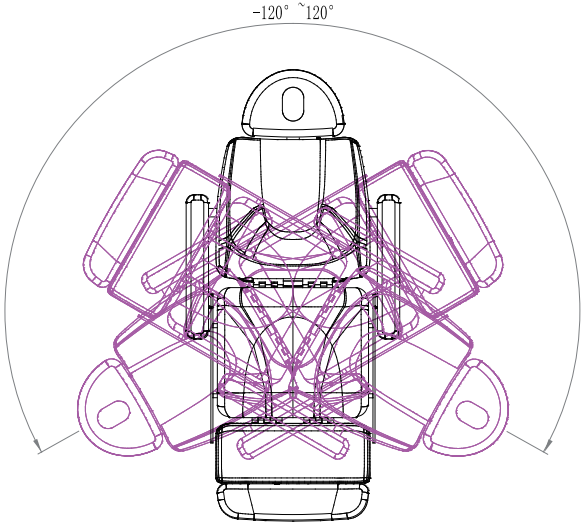
Headrest:
Pull out the plastic cover, use a screwdriver to replace the pillow bracket with new

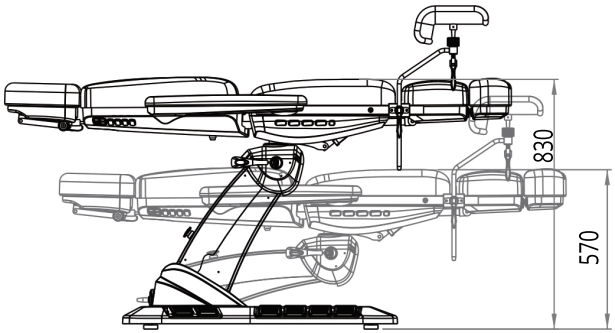
9. Technical Parameters

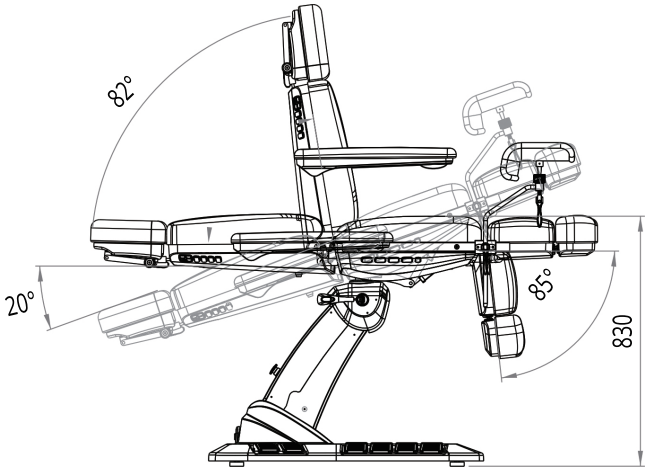
Power	AC 100-120V or AC 220-240V or AC 100-240V,50/60Hz
Power Rating	300VA(MAX)
Environment Temperature	0°C~+40°C
Relative Humidity	30%~90%
Atmospheric pressure for usage	70~106kpa
Storage and transportation environmental conditions	-5°C to 55°C;≤80%R.H.; 70kPa to 106kPa
Loading Capacity	200kg
Package Size	140×81×61cm

Rotary

−120° ~120°







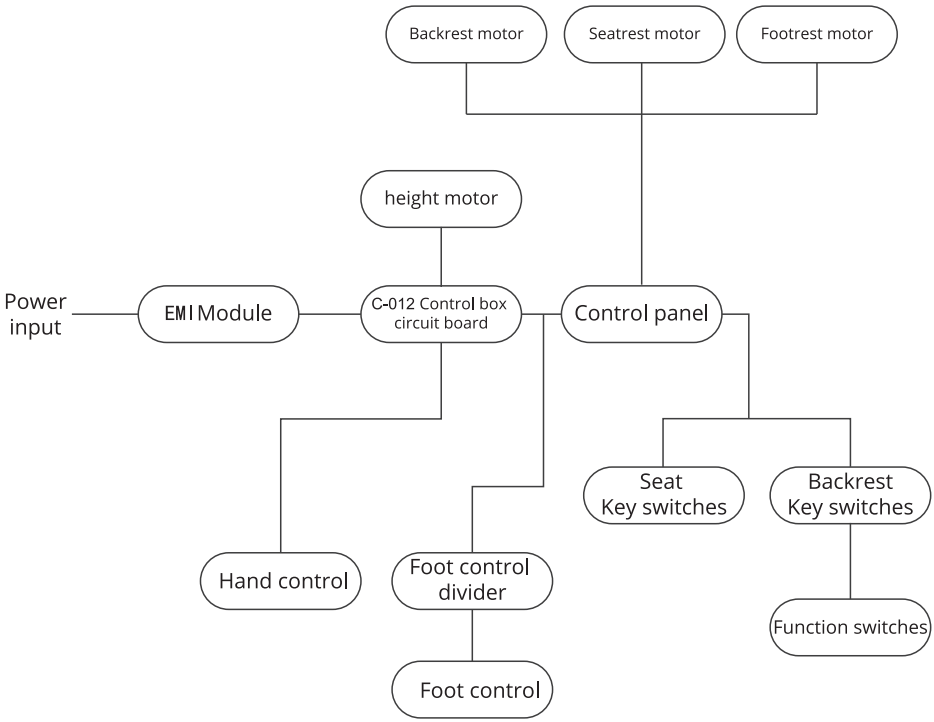
10. Maintenance

1. After every treatment, please only use neutral solution to clear the dust, stains on leather, metal part or other parts. Disinfecting solution like alcohol, acid or alkaline solution are forbidden. This is to prevent the lifetime of the components from being shortened.
2. Please lubricate the moving parts regularly (once a year).
3. After usage,please stay the upholstery flat to 180°.
4. When the headrest is stuck, it can be improved by applying lubricating oil.

11. Circuit System Connection Diagram

2246EBN

Circuit System Diagram



12. Troubleshooting

The Fault Phenomenon	Reason	Solution
Can't move up or down	1. The power cord is unconnected or not plugged well.	1. Connect the power cord or plug it well.
	2. Poor quality of the hand controller or foot controller.	2. Replace the hand controller or foot controller.
	3. Poor quality of the built-in foot controller.	3. Please contact maintenance center or supplier for troubleshooting.
	4. Poor quality of the rocker switch.	
	5. Poor quality of the control box.	
	6.Crack of motor tail.	
	7.Motor was damaged.	
	8. Pressing the button, the bed did not move.	1. Put the movable footrest close to the fixed footrest, make sure the limit switch is closed, and then press the buttons again. 2. Open the fixed footrest cover and backrest cover respectively, check whether the two ends of the power cord are loose, if the above situation occurs, please reconnect. 3. If problem is still not solved after above operation, please contact maintenance center or supplier to solve it.
Abnormal Sound	1. The rotating parts are short of lubricating oil.	1. Add lubricating oil.
	2.Rotating positions (such as hinge, POM sets) are short of lubricating oil.	2. Add lubricating oil.
	3.Motor quality problems.	3. Replace the motor.

If problem is still not solved after above operations,
please contact maintenance center or supplier to solve it.

13. Disposal

Contact its local authorities to determine the proper method of disposal.

14. Symbols explanation

	Refer to instruction manual		Manufacturer
	WEEE	CE	CE
	Date of manufacturer		T ype B Applied Part
	Warning	SN	Series NO.
	Atmospheric pressure for usage		Temperature limit
	Keep dry from rain rom rain		Fragile, handle with care
	Humidity limitation		Stacking limit by mass of 250kg
	Keep away from sunlight		No tumbling
	Upward		No clasping
	Be careful	= kg	Maximum patient weight
EC REP	Authorized representative in the European Community	= kg	Safe working load

15. EMC Guidance

Warning: Don't use near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.
Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
Warning: Use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 12 in (30 cm) to any part of the equipment, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Guidance and Manufacturer's Declaration – Electromagnetic Emissions	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class A
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies

Guidance and Manufacturer's Declaration – Electromagnetic Emissions		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines
Surge IEC61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % U ; 0.5 cycle T at 0°,45°,90°, 135°, 180°, 225°, 270°, 315° 0 % UT ; 1 cycle 70 % UT ; 25/30 cycle 0% U ; 250/300 cycle	0 % U ; 0.5 cycle T at 0°,45°,90°, 135°, 180°, 225°, 270°, 315° 0 % UT ; 1 cycle 70 % UT ; 25/30 cycle 0% U ; 250/300 cycle
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
Conduced RF IEC61000-4-6	3 V r.m.s. 150 kHz to 80 MHz 6 V RMS in the ISM bands between 0.15 MHz and 80 MHz	3 V r.m.s. 150 kHz to 80 MHz 6 V RMS in the ISM bands between 0.15 MHz and 80 MHz
Radiated RF IEC61000-4-3	3 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	3 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
NOTE: U is the a.c. mains voltage prior to application of the test level.		

Guidance and Manufacturer's Declaration - IMMUNITY to proximity fields from RF wireless communications equipment

Immunity Test	IEC60601 test level				Compliance level
	Test frequency	Modulation	Maximum power	Immunity level	
Radiated RF IEC 61000-4-3	385 MHz	**Pulse Modulation: 18Hz	1.8W	27 V/m	27 V/m
	450 MHz	*FM+ 5Hz deviation: 1kHz sine	2W	28 V/m	28 V/m
	710 MHz 745 MHz 780 MHz	**Pulse Modulation: 217Hz	0.2W	9 V/m	9 V/m
	810 MHz 870 MHz 930 MHz	**Pulse Modulation: 18Hz	2W	28 V/m	28 V/m
	1720 MHz 1845 MHz 1970 MHz	**Pulse Modulation: 217Hz	2W	28 V/m	28 V/m
	2450 MHz	**Pulse Modulation: 217Hz	2W	28 V/m	28 V/m
	5240 MHz 5500 MHz 5785 MHz	**Pulse Modulation: 217Hz	0.2W	9 V/m	9 V/m

Note* - As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.
Note** - The carrier shall be modulated using a 50 % duty cycle square wave signal.

Do not dispose of old or defective appliances in domestic garbage;
this should only be done through public collection points.

▲ Please check the product specification before use. This manual is for reference only. Specifications are subject to change without prior notice.