

1. GENERAL INFORMATION

INTENDED USE

The electric stair stretcher is widely used in the home for the old people, school security, hospitals, hotels etc..for emergency evacuation

AIM AND CONTENTS

The aim of this manual is to supply all the information necessary so that the client, will not only attain adequate use of the appliance, he will also be capable of using the instrument in the most autonomous and secure way possible.

This includes information regarding technical aspects, functioning, maintenance, spare parts and safety.

CONSERVATION OF THE INSTRUCTION MANUAL

The instruction manual must be kept together with the product, for the whole life of the device, inside the specially provided container and above all, away from any substances or liquids which could compromise perfect legibility

Note for Users:

Please carefully read this manual and strictly follow the steps before installing and using.

We require all users to have the knowledge of user's manual and all the cautions.

► This manual is applicable to SKB1C10 manual stair stretcher. It contains the installation method, operating instructions and maintenance check points.

► The graphics in this manual are for users' reference only. In actual use, please refer to the real object.

► This user manual includes the description, instruction, maintenance and technical parameters of the product.

► Any questions, please contact the after-sale service center or distributor.

► Anyone using or operating this product should read and comply with it.

► Except for some unexpected situations, users are required to be familiar with the usage and precautions.

WARNINGS

GENERAL WARNINGS

- The product must be used by trained personnel only, having attended specific training for this device and not for similar products.
- Before carrying out any kind of operation on the appliance (training, installation, use), the operator must carefully read the enclosed instructions, paying particular attention to the correct safety precautions and to the procedures to be followed for installation and for correct use.
- Do not allow untrained personnel to help when using the device as they may cause injury to the patient or themselves.
- Perform the required maintenance and to respect the life span of the device, as indicated by the Manufacturer in the User's Manual.
- Before each use of device the perfect operating state of the device must be checked as specified in the Instruction manual.
- If any damage or abnormalities which could in any way influence the correct functioning and the safety of the device, of the patient and or of the user are detected, the device must be immediately removed from service and the Manufacturer must be contacted.
- Use of the device in anyway other than described in this manual is forbidden.
- Do not alter or modify in any way the appliance; any such interference could cause malfunctions and injury to the patient and/or rescuer.
- Handle with care.
- Ensure that all the necessary precautions are taken in order to avoid the hazards that can arise as the result of contact with blood or body fluids.
- Never leave an unassisted patient. The presence of at least one operator is essential at all times when the medical device is in use.
- Do not store the device underneath any heavy objects which could cause structural damage.
- Store in a cool, dry, dark place and do not expose to direct sun.
- Store and transport device in its original packaging.
- The device not be exposed to or come into contact with any source of combustion or inflammable agents.
- Position and adjust the device taking care not to cause any obstruction to rescuers and or any other rescue equipment.

SPECIFIC WARNINGS

- Use only accessories/spare parts that are original or approved by the manufacturer, in order to carry out any operation without causing any alteration or modification to the device, otherwise we assume no responsibility for the proper functioning or damage resulting from device to the patient or the operator and warranty will be considered void according to the compliance to the Medical Device Regulation UE 2017/745.
- Always respect the maximum load capacity indicated in this User Manual.
- Maximum load capacity means the total weight distributed according to human anatomy.
- In determining the total weight of the load on the product, the operator must consider the weight of the patient, equipment and accessories. In addition, the operator must check that the size of the patient does not reduce the functionality of the device.
- Never leave the patient unassisted on the device, because he may be injured.
- Avoid contact with sharp objects.
- Do not use the device if it is pierced, torn, frayed or excessively worn.
- Before lifting, make sure that the operators have a firm grip on the device.
- Avoid using the device on rough surfaces.
- Do not lift by crane or other mechanical lifts.
- This device is a chair for patient transport and it can't be used as a device for seat.
- Use the device first without patient to make sure that you have become familiar with it.
- The use of the device requires at least two operators in appropriate physical condition, they must therefore be equipped with strength, balance, coordination, common sense and should be

trained on the proper functioning of the device.

- In case of particularly heavy patients, for working on steep terrain or under unusual or special circumstances it is recommended to have more operators (not just two as required under standard conditions).
- Always immobilize the patient, using the straps supplied by the manufacturer, since the lack of immobilization can cause serious damage.
- Do not move the chair if the weight is not correctly distributed.
- Keep the chair firmly if the patient is sitting there.
- Pay maximum attention to any obstacles (water, ice, debris, etc.) on the track, as they may cause loss of balance of the operator and compromise the proper functioning of the device.
- If the way cannot be freed, choose an alternative track.
- Condensation, water, ice and accumulations of dust can affect the correct functioning of the device, making it unpredictable and causing a sudden alteration of the weight that operators have to bear.

CONTRAINDICATIONS AND SIDE EFFECTS

The use of this device, if used as described in this manual, does not present any contraindications or collateral effects.

PHYSICAL REQUIREMENTS OF THE OPERATORS

The Electric Stair Stretcher chairs are for professional use only. Operators using the device must possess the following minimum requirements:

- physical capacity for using the device.
- be able to grab the device firmly with both hands
- have robust back, arms and legs for lifting, pushing and pulling the evacuation chair.
- have a good muscular coordination

Every operator has to be trained in safe and efficient patient transport techniques.

Loading techniques, in case of extremely heavy patients, uneven terrains or unusual situations, may require more than the usual two operators.

Before deciding the roles of the operators during the use of the device, their capabilities must be evaluated.

I. Electric stair climbing wheelchair overview

SKB1C10 Climbing chairs made of aluminum alloy material, lightweight, easy folding, easy to operate etc. The motor is brushless, and it is divided into three gears, from high to low grade. The battery of lithium is lightweight and easy to disassemble.

The chair takes up little storage space after folding, and is suitable for carrying in a private car.

II. Wheelchair structure



III. Performance parameters

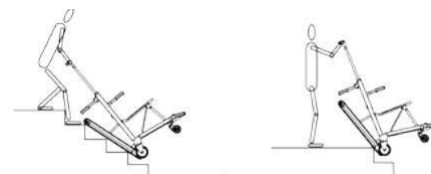
Specification	Technical parameters
Frame Material	Aluminum Alloy
Motor	Brushless DC24V 200W
Battery	Li-ion, Rechargeable - 24V, 13Ah
Battery Indicator	YES
Battery Life – Climbing Capacity	70 floors
Battery Charging Time	5 hours
Applied Part	Type B
Charger	Charger 29.4V/2.0A
Upstairs speed	High; Medium; Low;
Downstairs speed	High; Medium; Low;
Max Load Capacity	180kg
Full size: Width – Depth - Height	1230x500x1600mm
Folded size: Width – Depth - Height	1020x550x210mm
Weight (kg)	38kg
IP grade	IPX0
Usage Condition	Temperature: -20°/+40° Humidity: 10/75% R.H. Air Pressure: 500/1050 hPa

IV. Upstairs operation



1. Open the track frame, and adjust the rod position. Pull the lever with both hands, place the right foot on the track frame above the cross tube, and back down the chair.

2. Put the chair on the stairs, press the power button on the control box, and turn on the power supply. Hold the upstairs button and the chair will move upwards.



3. If you need to stop halfway, release the upstairs button. On the way up, the hands do not need to pull the chair up. It has to be in a vertical angle along the stairs. You only need to hold the chair and apply a little pressure.

4. When reaching the last stair, pull the tie rod with both hands and slowly pull up and lift the chair on the ground. Climbing the stairs is not necessary, so the operation does not require great effort.



5. When the front wheel enters the stairs, slowly lower down the chair with the right foot until it reaches the floor.

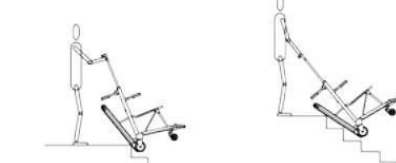
6. Grab the handle, lift the chair, and move to other staircase.

V. Downstairs operation



1. Push the stair climbing chair through the floor until placing the front wheels on the edge of the stairs.

2. Tread the lower cross pipe with the right foot, pull the tie rod back with both hands to tilt the chair down. Then, press down the key of the stairs.



3. Slowly, put down the chair on the first edge, and lean down the stairs.

4. Slightly lean to the angle of the belt and the stairs.



5. During the going down process, place the hands slightly down the rod to not produce bumps. When you stop halfway, loosen down the key.

6. When the track reaches the landing, release the button and slowly lift the chair.

VI. Operation of each part

a. Handle



Open: Press the button. While pressing it, lift the handle up slightly up, then release the button to fix it.

Lock: Press the button, lift the handle up, and release the button. Then, it will be locked.

b. Front lifting handle



Press the red button to unlock the hole and extend the handle. Release the button to fix the handle.

c. Rubber track frame



Open: Step on the foot pedal; then, the track frame will automatically open through its gas lift system.
Lock: Lift the evac chair with both hands and hold it down, press the crawler belt support bar down until the pedal locks it again.

d. Pull rod



Push the bar inwards to unlock the lock system. Once it is unlocked, pull the adjusting bar upwards or downwards to adjust it to the needed height.

e. Folding wheelchair



f. Handrails



g. Pedal



Grasp the support rod and pull it downwards. When the lock slides out of the curved slot, rotate the chair surface tube to fold the chair surface.

h. Safe-belt, Headrest & Straps



i. Battery



Disassemble: open the key, hold the battery, and pull the battery laterally. Check the power: hold down the battery power symbol.
Charging: the plug of the charger air plug is inserted into the battery charging port, and the other end is connected with alternating current.

After charging, unplug the charger 220V AC plug first, and then unplug the output plug. Hand must be dry when power is plugged in. If the abnormal temperature is too high or unusual, please stop charging immediately and contact the dealer to repair it.

Lithium Battery Precautions

- Lithium batteries are consumables, after a period of use (battery charge-discharge cycle), its capacity will gradually decline, climbing time will gradually reduce battery life. However, during the warranty period, after testing the battery capacity dropped to the factory standard value of 50% or less, the battery is invalid, included in the company warranty. Please contact your dealer in a timely manner, the other is the battery normal wear and tear.
- Avoid deep discharge, when the battery power is insufficient or other means that under voltage, then remind you not to repeatedly start the power, and need to charge in time.

j. Track Adjustment



k. Brakes



VII. CONTROL PANEL INSTRUCTIONS



Power supply: once you press the power button, the other keys can already work. After the power button is pressed, the light will turn on as well as the LCD.

Lighting: the light button controls the lights. If you press it one time it turns on; if you press it two times, the lights turn off. When the lighting button is pressed, the lights of the upstairs and downstairs buttons are lit.

2. MAINTENANCE

- In order to use the Electric Stair Stretcher safely, it is necessary to perform regular safety inspections on the Electric Stair Stretcher. It is recommended to check it every six months to ensure that the connections are not loose and all operations are normal.
- When the Electric Stair Stretcher frame ages and it reaches a certain servicing time, which the metal part of the Electric Stair Stretcher and plastic parts of the Electric Stair Stretcher frame can be recycle.
- Avoid scratching the panel with sharp-angle appliances or knives during use, and clean it frequently to keep it clean and dry.
- If the panel is accidentally stained with stains, it is recommended to clean it. Do not use alkaline or corrosive chemicals to clean the Electric Stair Stretcher, which will cause the stainless steel surface to rust.
- Regularly check the casters to avoid hitting or overloading, which will cause damage to the casters.
- It is forbidden to force the casters to brake when braking, which will cause damage to the brake system.
- The wear of the tire surface of the wheel can be detected by visual inspection. Some thread spun yarn and other accumulations may be wrapped around the wheel, remove the bolts and nuts of the wheel, clean up the debris, and check whether the bearing of the wheel is damaged. If the parts are not damaged, can be reassembled and used.
- Judging whether the caster is replaced according to the time used, wear and tear, you can replace the wheels and make sure that the axles bolt and nuts are well put together and connected. If possible, use a lock washers or locknuts to help you with this process.
- For the casters equipped with brakes, it is necessary to regularly check whether the brakes are working properly. Check the brakes once a day or before each use. For a bedside table equipped with multiple brake casters, only one brake caster can be locked at a time which will allow you to try and push the bedside table also check whether one of the brake performance of each caster is good. If the function of the brake fails due to wear or damage to the wheels, immediately replace the wheels and then retest the brake system.
- If the mechanism of the brake system of the caster is damaged, and the brake needs to be repaired or replaced, please contact our after-sales service department or authorized dealer provide by our company. Every time the brakes are replaced, the brake performance of the casters must be retested.
- Failure to carry out cleaning operations may involve the risk of cross infection due to the presence of secretions and/or residuals.

The operator must always wear adequate personal protection such as gloves and mask etc. during all checking and cleaning procedures.

The metal parts exposed to external influences are treated superficially and/or painted in order to obtain better resistance. Clean the exposed parts with delicate soap and a sponge and dry with a soft cloth.

In order to obtain a shiny finish of the frame parts, use shiny creams and waxes for vehicles.

We advice the use of the polishing detergent

Do not use high-pressure water. It may penetrate joints and eliminate lubricants, increasing the risk of corrosion of components. Rinse carefully with warm water to remove all traces of detergents. Failure to do so could compromise the product and its life span. The device must be left to dry completely before storage. To dry the product after washing, or if used in a humid atmosphere, do not use direct sources of heat or flame.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
The device does not unblock from open or closed position during the opening or closing procedure	The functional geometry has been compromised or damaged; the safety systems have not been removed	Try complete lubrication and check if the problem has been solved; if not, take immediately the device out of service
Difficulties extracting and inserting the telescopic handles	Presence of foreign bodies in the slide or breakage in aluminum part	Clean accurately; if this does not solve the problem, do not use the device for upstairs transport

Structural damage	Improper use or untrained personnel	Take the device immediately out of service and contact the manufacturer/distributor
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3. PACKAGING, TRANSPORT, STORAGE

- The packaging of trolley is carried out according to the contract or product standard.
- Avoid rushing out, violent vibration, and prevent from sunlight and rain during the transportation of the trolley.
- Before transporting the appliance, make sure that it is correctly packaged ensuring also that there are no risks of shocks, bumps or falls during the transport itself.
- Keep the original packaging for use in case of any further transport and for storage. Damage to the appliance caused during transport and handling is not covered by the guarantee. Repairs or replacement of the damaged parts are the responsibility of the client. The device must be stored in a dry, cool area away from direct sunlight. It must not be
- placed in contact with any substances or chemical agents which could cause damage and reduce safety characteristics.
- During storage take care not to put heavy materials onto the device. In no way and under no circumstances should the device be considered as a work top.
- The trolley should be stored:
 - Ambient temperature: -20°C ~ +40°C.
 - Relative humidity: ≤ 75%.
 - Atmospheric pressure: 500 hPa ~ 1050 hPa.

EMC INFORMATION

- This product needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided, and this unit can be affected by portable and mobile RF communications equipment.
- Do not use a mobile phone or other devices that emit electromagnetic fields, near the unit. This may result in incorrect operation of the unit.
- Caution: This unit has been thoroughly tested and inspected to assure proper performance and operation!
- Caution: This machine should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, this machine should be observed to verify normal operation in the configuration in which it will be used.

Guidance and Manufacturer's Declaration – Electromagnetic Immunity		
The SKB1C10 is intended for use in the following electromagnetic environment. The customer or user of the SKB1C10 should make sure it is used in such an environment		
Emission test	Compliance	Electromagnetic Environment –Guidance
RF Emission to CISPR 11	Group 1	The bed uses RF energy for its internal function
RF Emission to CISPR 11	Class B	The electric stair stretcher is intended for use in all types of establishment including residential and similar user that are directly connected to a public supply network that also serves buildings used for residential purposes
Harmonics according to IEC 61000-3-2	Class B	
Voltage fluctuations/flicker acc. to IEC 61000-3-3	Complies	

Guidance and Manufacturer's Declaration - Electromagnetic Immunity			
The SKB1C10 is intended for use within healthcare facility environment. Users or customers must use bed in this environment			
Immunity test	IEC 60601-1-2/ IEC 60601-1-2 Test level	Compliance level	Electromagnetic environment - guidance
Electrostatic 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	Floor should be made of wood and concrete or be tiled with ceramic tiles. If the floor is covered with synthetic flooring material, the relative air humidity must be at least 30%. Can be used when higher ESD levels are present
Electrical fast transient/burst IEC 61000-4-4	+2kV Power supply line +1kV Input/ Output lines	+2kV Power supply line	The quality of the supply voltage should be equivalent to that of a typical business or hospital environment.
Surge IEC 61000-4-5 /EN 61000-4-5	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	The quality of the supply voltage should be equivalent to that of a typical business or hospital environment.

Power Frequency Magnetic Fields IEC 61000-4-8 /EN 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz	Magnetic fields with a network frequency should be equivalent to those to be found in a typical business or hospital environment.
Voltage Dips IEC 61000-4-11 /EN 61000-4-11	0% UT: 0.5 cycles Phase: 00, 450, 900, 1350, 1800, 2250, 2700, 3150 0% UT: 1 cycle 70% UT: 25/30 cycles Single phase: 00 0% UT; 300 cycle	0% UT: 0.5 cycles Phase: 00, 450, 900, 1350, 1800, 2250, 2700, 3150 0% UT: 1 cycle 70% UT: 25/30 cycles Single phase: 00 0% UT; 300 cycle	The quality of the supply voltage should be equivalent to that of a typical business or hospital environment. If the person using the bed requires that the bed functions must continue despite any interruptions in the energy supply, it is recommended that the bed be connected to an uninterruptible electricity supply or a battery
Short interruptions IEC 61000-4-11 /EN 61000-4-11	0% UT: 250/300 cycles	0% UT: 250/300 cycles	The quality of the supply voltage should be equivalent to that of a typical business or hospital environment. If the person using the bed requires that the bed functions must continue despite any interruptions in the energy supply, it is recommended that the bed be connected to an uninterruptible electricity supply or a battery

Note: UT is the AC Power voltage before applying in the test level

4. AFTER-SALES SERVICE

- Please keep the files that comes with the machine and invoices of this product properly, and you need to present these files when the company performs warranty and maintenance for the product.
- If there is any problem in the process of using, please contact our company in time, so that our company can provide you with accurate and fast technical support and maintenance services in a timely manner.
- From the date of sale, if the product is broken or damaged due to the correct installation and use according to the specification, the product will enjoy one-year free warranty and lifelong maintenance service with the "certificate" or invoice.
- From the date of purchase, if it is indeed damaged or does not work normally due to quality problems within one year, the company will provide to the users a free repairing of the product.
- Lifetime service from manufacturer: JIANGSU SAIKANG MEDICAL EQUIPMENT CO LTD

Notice! any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the Member State in which the user and/or the patient is established.

5. LEGEND OF SYMBOLS

	Date of manufacture		Manufacturer
	Keep away from sunlight		
	Humidity limit		
	Atmospheric pressure limit		
	Authorized representative in the European community		
	Medical Device compliant with Regulation (EU) 2017/745		
	Product code		
	Lot number		
	Keep in a cool, dry place		
	Medical Device		
	Temperature limit		
	Imported by		Serial number
	Caution: read instructions (warnings) carefully		
	Follow instructions for use		
	Type B applied part		

Guidance and Manufacturer's Declaration – Electromagnetic Immunity							
The SKB1C10 is intended for use in an electromagnetic environment that used wireless RF transceiver. Electromagnetic interference can be prevented by maintaining the minimum distance between RF transceiver and SKB1C10 depend on the maximum output and frequency of the communication device as recommended below.							
Immunity test	IEC 60601-1-2 /EN 60601-1-2 Test level	Compliance level (V/m)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)
Enclosure port to RF wireless communication equipment IEC 61000-4-3 /EN 61000-4-3	27V/m 385MHz	27	380-390	TETRA 400	Pulse modulation n18Hz	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	9	704-787	LTE Band 13, 17	Pulse modulation n217Hz	0.2	0.3
	9V/m 745MHz						
	9V/m 780MHz						
	28V/m 810MHz	28	800-960	GSM 800/900, TETRA 800, iDen 820, CDMA 850 LTE Band 5	Pulse modulation n18Hz	2	0.3
	28V/m 870MHz						
	28V/m 930MHz						
	28V/m 1720MHz	28	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1,3, 4,25; UMTS	Pulse modulation n217Hz	2	0.3
	28V/m 1845MHz						
	28V/m 1970MHz						
	28V/m 2450MHz	28	2400-2570	Bluetooth, WLAN, 802.11 b/g/n RFID 2450, LTE band 7	Pulse modulation n18Hz	2	0.3
	9V/m 5240MHz	9	5100-5800	WLAN 802.11 a/n	Pulse modulation n217Hz	0.2	0.3
	9V/m 5500MHz						
	9V/m 5785MHz						

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

Guidance and Manufacturer's Declaration - Electromagnetic Immunity			
The SKB1C10 is intended for use in the following electromagnetic environment. The customer or user of the SKB1C10 should make sure it is used in such an environment.			
Immunity test	IEC 60601-1-2/EN 60601-1-2 Test level	Compliance level	Electromagnetic Environment - Guidance
RF Conductivity IEC 61000-4-6 /EN 61000-4-6	3V 0.15MHz-80MHz	3V 0.15MHz-80MHz	Field intensity from the fixed RF transmitter determined by a field investigation of the magnetic field must be lower than the compliance level of the respective frequencyband. Near devices with the following symbol, interference could occur.
	6V in ISM bands between 0.15MHz- 80MHz 80%AM at 1kHz	6V in ISM bands between 0.15MHz-80MHz 80%AM at 1kHz	
Radioactive RF electromagnetic field IEC 61000-4-3 /EN 61000-4-3	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 SKB1C10 is used exceeds the above RF compliance level, make sure to monitor if the SKB1C10 operates appropriately. If abnormal movement is found, take additional measures as needed, such as changing the direction or position of the SKB1C10.
- b. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

	WEEE disposal
	Unique identifier

GIMA WARRANTY TERMS
The Gima 12-month standard B2B warranty applies

Disposal: The product must not be disposed of along with other domestic waste. The users must dispose of this equipment by bringing it to a specific recycling point for electric and electronic equipment



ELECTRIC STAIR STRETCHER



Jiangsu Saikang Medical Equipment Co.,Ltd
No. 35 Lehong Road, Modern Agriculture Demonstration Park, Zhangjiagang City, Jiangsu Province, China
Made in China



SKB1C10



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