



Centrobed

BESPOKE SPECIALIST BEDS & COTS

Flores Bed / Savu Cot User Manual

Warnings

Before assembly or use of the bed / cot please read all the warnings and instructions.

-  **Warning:** The charger or transformer must be replaced with an identical one. As specified by Centrobed.
-  **Warning:** The mains lead must be replaced with identical mains lead to the one fitted. As specified by Centrobed.
-  **Warning:** Fuses must be replaced with the same type and rating as stated in manual.
-  **Warning:** Ensure the bed / cot is clean and properly assembled before use.
-  **Warning:** If this equipment is modified appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.
-  **Warning:** Installing and moving this bed / cot must be done by trained personnel.
-  **Warning:** Some parts of this bed / cot are heavy and require 2 people to handle.
-  **Warning:** Do not place items under the bed / cot as damage to the cot may occur as it is lowered.
-  **Warning:** When using the Flores / Savu please ensure you are aware of the risks to people, animals and especially children etc, when moving the device.
-  **Warning:** This is ordinary equipment intended for indoor use only.
-  **Warning:** Do not use this equipment near explosive gases including anaesthetics. Please note Oxygen is **NOT** an explosive gas.
-  **Warning:** When pressing the handset allow a minimum of 1 sec between each action. Repeated short and quick presses of the button will lead to relay damage and failure of the bed.
-  **Warning:** *Damaged mains cables can cause fatal electric shocks. If found damaged, turn bed off at the mains.*

Maintenance and Inspection

Users:

The bed / cot should be regularly checked for damage to ensure nothing is preventing full range of movement.

Service Personnel:

Annual service should check the condition of all parts of the bed. All wiring should be checked for insulation breakdown and damage. Metalwork should be checked for signs of strain and wear.

-  **Warning:** The bed / cot should be serviced once a year by trained personnel or Centrobed.

Safety Warning

-  **The cot is to be operated by a trained competent person.**

1. This unit is mains powered, so ensure that it is disconnect from the mains supply before cleaning or servicing.
2. Crushing hazard. Make sure no person or animal goes under the bed / cot.
3. Do not store any items under the Flores / Savu, this could lead to damage and make the bed / cot unsafe.
4. Put the Flores' / Savu's brakes on before moving the client in or out of the bed / cot.

Risk Assessment

A risk assessment must be carried out periodically by the prescriber (Your Occupational Therapist) before use of the bed / cot. The prescriber must carry out this assessment based on the patients atypical anatomy in relation to the information given within this manual. Care must also be taken against entrapment of patient

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Flores Bed



Savu Cot



Flores Specifications

Country of Origin	England
Name of Equipment	Flores Bed
Description of Equipment	Electrical assisted Bed
Weight of Equipment	Depends on size [i]
Battery Charger Voltage	100 - 240 V ~ [AC]
Power Supply Frequency	50/60 Hz
Power Consumption	1A Peak
Power Consumption Standby	>20mA
Fuses in Bed	T3.15A + T10A
Insulation Class	II
Type	BF
Electrical Safety Standard	BS EN 60601-1
EMC Standard	BS EN 60601-1-2
Safety Standard	BS EN 60601-2-52
Specific Safety Standard	BS EN 50637
Duty Cycle	100%
Duty Cycle [per motor]	10%
Bed Voltage	24V DC nominal

Savu Specifications

Country of Origin	England
Name of Equipment	Savu
Description of Equipment	Electric Bed
Voltage	230V [AC]
Power Frequency	50Hz
Power Consumption (In Use)	2 A Peak
Power Consumption (Stand by)	1 mA
Fuse (mains plug)	5 A
Class	II (Double insulated)
Type	BF
Electrical Safety Standard	BS EN 60601-1
EMC Standard	BS EN 60601-1-2
Safety Standard	BS EN 60601-2-52
Specific Safety Standard	BS EN 50637
Duty Cycle (Bed)	100%
Duty Cycle [per motor]	20%

Important Information

Insulation Class II means equipment is double insulated.

Type BF is the level of patient protection the equipment gives.

All details on the cleaning of the Flores / Savu can be found on page 14

Reset Switch

Models PRE 2017 will have reset switches.

The reset switch will be located on the users right hand side, mounted to the cot frame below the mattress, approximately in line with the cot users shoulder. To operate the reset switch, flick the rocker-switch off and then on, consequently re-setting the cot.

Risk Assessment

A risk assessment must be carried out periodically by the prescriber (Your Occupational Therapist) before use of the cot. The prescriber must carry out this assessment based on the patients atypical anatomy in relation to the information given within this manual. Care must also be taken against entrapment of patient.

Using your Flores / Savu

Before use read warnings and safety instructions in this manual. Caution must be taken by anyone who uses the Flores / Savu. Please take necessary care for the health and safety of yourself and others around you who may be affected by what you are doing. Also ensure that the bed / cot does not touch anything around it and there are no items placed under the bed / cot that could damage it or be crushed by the Flores / Savu when the bed / cot is moved. Please don't use the Flores or Savu if any damage has occurred.

Flores Application

The Flores Cot bed has a high-sided wooden surround with an electrically controlled profiling bed frame. This specialist piece of equipment has been made to give children a safe environment. It can be fitted with bumpers all the way round it to minimise the risk of injury to the child. The Flores will also allow the child visual reassurance as makrolon windows are included replacing the usual bars. The cot has space for a mobile hoist if needed. Start height from 10". The Flores helps to improve sleep patterns and bedtime routines, therefore giving parents peace of mind even with the most challenging child. If required a safety bar can also be fitted to your Flores. In every case all situations must be considered in their entirety. No definitive guidelines can be provided. Adult cots may be useful where individuals are at risk of harming themselves through falling out of bed but should never be utilised as a restraint.

Savu Application

The Savu is made to provide safe and more modern sleeping conditions. This cot offers both functionality and an aesthetic appeal. This cot is perfect for parents that want their child to sleep in a reaching distance, ensuring the parents peace of mind and convenience. The Savu is a specialised cot and is made suitable for a wide range of complex health needs, such as Cerebral Palsy in children. The cot offers personalised movement options such as turning, profiling, and hi/low adjustments. Parents and / or caregivers may choose from these options in order to address any discomforts or challenges their child will face. Safety is most important with the Savu. The cot is made to have no gaps in order to reduce entrapment for the child. It comes with customisable sides that can be static , feature doors, or have a fold-down front.

Environment

The Flores / Savu are designed to be used in a residential environment

Variants

These beds / cots are usually designed to be tailored for size and starting height. This and many other options can be decided between one of our representatives and your Occupational Therapist.

Widths	Lengths	Start Height	Lift
30"(762mm)	72" (1830mm)	12" (305mm)	10" (254mm)
36"(915mm)	78" (1984mm)*	16" (405mm)	16" (405mm)
42"(1065mm)	84" (2135mm)		20" (500mm)
48" (1220mm)	(Others to order)	(Others to order)	

The Flores Bed can also be made to suit individual heights, weights and starting heights. This bed can also be made with different height surrounds for the cot too.

Installation

Instructions	Visual Representation
<i>The bed / cot will arrive supplied on its own storage brackets.</i> <i>These brackets should be kept for use when the bed is no longer needed, and for moving the beds location and any other reasons for transport.</i>	
<i>1. Loosen the hand-wheels that connect the backrest and knee break sections of the bed to the carrier.</i> <i>Only the bottom of the two hand wheels are used to keep the sections in place on the brackets.</i>	
<i>2. Lay the backrest and knee-sections down next to one another.</i> <i>Each section has a slightly narrower end; these should be away from each other as shown.</i> <i>Knee-section is shown on the left and head section is on the right of the image.</i>	
<i>3. Fit the parts together, sliding the smaller sections inside the larger ones.</i> <i>Make sure that there is no gap between the sections.</i>	

Installation

Instructions	Visual Representation
<i>4. The ends of the bed / cot now need to be separated.</i>	
<i>5. Loosen the four hand wheels that hold the mounting brackets and ends together.</i>	
<i>6. The foot end has board on the outside of the frame. Also the motor cable is marked with a white band.</i>	
<i>7. The head end has board on the inside, and yellow band on the motor cable. Lay out the bed so that the main part lays between the ends as shown.</i>	

Installation

Instructions	Visual Representation
8. Lift the main part of the bed / cot and slide the smaller, inner parts of the end into the larger section of the head section.	
9. Lift the main part of the bed and slide the smaller, inner parts of the end into the larger section of the knee section.	
10. Tighten the hand-wheels (16) on the underside of the bed.	
11. Plug all the leads into the box underneath the backrest section and into the correct sockets. They are colour coded to help you.	
12. Now use the cable clips to hold all of the cables in place.	

Installation

Instructions	Visual Representation
13. <i>Now would be a good time to make a note of the number on the bed. Write this below along with the telephone number you need for repairs and service.</i>	

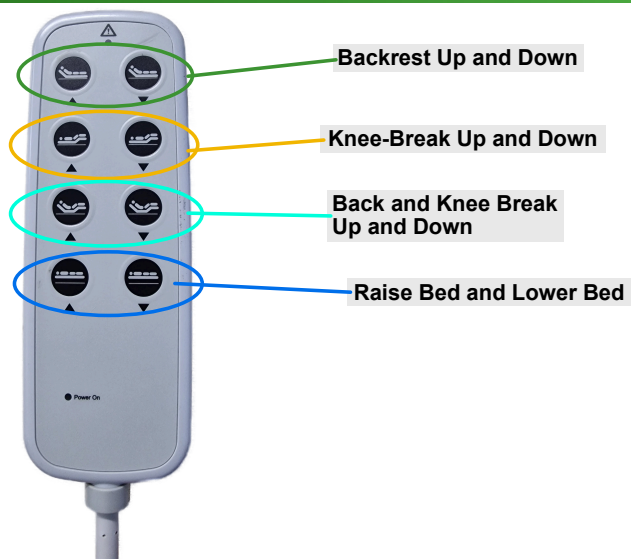
Here you have some space to write down and take a note of the number on the bed and the telephone number you need for repairs and servicing.

Telephone:

Repairs & Service:

Bed Number:

Flores Handset Instructions



Savu Handset Instructions

- 1.Raise Backrest
- 2.Lower Backrest
- 3.Raise Knee Break
- 4.Lower Knee Break
- 5.Raise Back & Knee Together
- 6.Lower Back & Knee Together
- 7.Raise Bed
- 8.Lower Bed
- 9.Raise Foot End (Anti-Trendelenburg)
- 10.Lower Foot End (Trendelenburg)
- 11.Raise Head End (Trendelenburg)
- 12.Raise Head End (Anti-Trendelenburg)



A - Handset key lock-off (Optional)

Cleaning

The Flores / Savu can be used in a variety of different environments; this should be taken into account when deciding on the cleaning regime. You should start the cleaning process with a damp wrung out cloth that has been soaked in soapy water to remove any large deposits of dirt. If there is any doubt about infection, follow general cleaning with alcoholic cleaning solution. This bed / cot is intended to be recycled, serviced and reused. This bed is mains powered. Make sure it gets disconnected from the mains supply before cleaning.

Risk of Material Damage:

Unplug the power cable and store the power plug in a safe place (ie a plastic bag) to avoid contact with water, anti-bacterial gels or alcohol based cleaner.

Ensure that none of the electrical components are showing any signs of external damages; otherwise the water, anti-bacterial gels or alcohol based cleaners used to clean the bed may damage the electrical components.

The electrical components of the bed must never be subject to a jet of water, a high pressure cleaner or any similar devices! Please only clean this bed with a moist cloth!

If you think that water or any form of moisture has got into the electrical components, immediately unplug the power pack. **DO NOT** plug it back into the socket. If you are experiencing this issue, please contact the provider of the equipment (your Occupational Therapist / District Nurse) and have the equipment looked at by a qualified electrician.

DO NOT use scouring agents, stainless steel cleaning agents, abrasive cleaning agents, scouring pads, super concentrated chemicals or any acid based cleaners. These substances can damage the surfaces.

Advanced Fault Finding

If your Savu stops working please check the following:

Firstly check the Savu is plugged in and switched on properly. Once you have checked the switch at the wall, follow the cable towards the cot, checking for any possible damages.

Next ensure that the handset is plugged in properly.

If only a few functions are working correctly, make sure to check the leads are properly plugged into the control box under the backrest.

If your Flores stops working please check the following:

Checklist	
NOT DOING ANYTHING The bed does not do anything no matter what buttons are pressed on the handset.	Check bed is turned on - See Section 1
	Check lock key is plugged in - See Section 2
	Check the handset is in - See Section 3
SOME FUNCTIONS WORK	Back and / or knee not working - See Section 4
	Up and down not working - See Section 5

Section 1 - Check the bed is switched on

Check the bed is plugged in and turned on. Once this has been checked, Switch off the mains and follow the cable towards the bed, and check for damage.

Section 2 - Check the locking key is plugged in

Your handset may have a locking key below the buttons. Check the key is plugged fully into the handset.

If the socket where the key is meant to plug into is loose, the wires have likely become detached and so you will need to replace the handset.

Section 3 - Check the handset is in

Check whether there is any damage to the handset. If no damage is found, please follow the cable to the control box and check that the handset is fully plugged in.

Advanced Fault Finding

Section 4 - Back or Knee not working

If the backrest or knee break section of the bed is not working then check the following:

1. Make sure that nothing is stopping the sides from lowering fully. (ie Objects have been placed under the bed)
2. Ensure the motors are both plugged into the control box, use the sockets marked 4 and 3.
3. Check the handset is plugged into the control box properly.

Section 5 - Up and Down is not working.

First check that the handset is properly plugged in. Next, discern which type of ends you have on your bed. The two types are referred to as "Standard - 1 motor end" or "Heavy duty 2 ends". Check the handsets for either type.

Standard Ends -

This type has **1 motor end** per bed. They are white boxes, and you can find them located between the wheels. Check that the cables from the motors at the end of the bed are plugged into the control box.

Heavy-duty

2 motor end - This type of ends has 4 motors to lift the bed. Each corner of the bed has an alloy tube with a plastic motor casing at the bottom. This bed type may have a separate handset for operating the high / low function of the bed if, it has use this handset. Use both the up and down buttons on the handset at the same time to lower the bed down. Then raise the bed to its maximum height using the up button alone. If this doesn't seem to be working, please follow the cables from each of the motors to the "4 motor control box". Ensure all of the cables are plugged in, there should be 6. Two of these cables should go to the main control box on the outer side of the bed. Check and make sure these are plugged in.

Power Cut

The Flores bed is a mains power controlled bed. Meaning if a power cut was to happen then the bed will not work.

If all of the above have been looked at and the bed is still not working please contact the person who supplied the bed (Authority, OT).

If the bed has been privately purchased, checked and still is not working, then contact Centrobed Ltd on 01233 635353. Please ask for the Repairs Department

Repairs

Repairs to your Flores / Savu should only be carried out by, or under the supervision of, a suitable trained engineer. To arrange any repairs, please contact the provider of the equipment (your Occupational Therapist/ District Nurse)

Note: If this equipment was purchased directly through Centrobed, you may contact us on the details given in this manual. If you purchased this equipment and it was supplied to you by a different organisation, please contact the company that supplied the bed to you in regards to arranging any repairs needed.

Many possible repairs can be avoided if the checklist is followed first. See below on the Advanced Fault Finding section. Items on the checklist are NOT covered by the warranty.

The following list contains information about a standard beds parts. Many of our Beds are tailored to individual needs and therefore may have some different parts.

Parts Available From Centrobed

Parts	Code	Description
Actuators [Motors]	594	Backrest
	593	Knee
	685	16" Lift
If 20" lift fitted use this actuator	667	20" Lift
	801	12 Button Handset
	665	Control Box
	665/1	Connection Cable
	665/2	Transformer

Symbols Used



Complies with European standards. Found on the label and alongside the serial number on the the frame of the cot.



Warning / Caution.



Maximum Weight for the cot. Label found on cot frame.



Maximum Patient Weight for the cot. Label found on bed frame.

Transport and Storage

The equipment must be stored at 0°C to 50°C, 0% to 90% humidity and 800 hPa to 1060 hPa atmospheric pressure. The equipment should only be used between 5°C and 40°C, 0% to 90% humidity and 800 hPa to 1060 hPa atmospheric pressure.

Interference

Interference should not happen between this and other equipment like televisions, radios and any other electrical equipment. If you have interference with your Flores Bed or Savu Cot, try moving the Flores / Savu and / or other equipment to a different location. Ensure you try to connect them to different mains circuits. Always use a mains power surge protector.

Recycling

Always recycle electronic parts in accordance with the current local regulations. Centrobed are able to offer an environmental recycling alternative. If interested in this, please contact Centrobed for further information on this option.

Contact Information



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