

General assembly drawing for BELITEC foldaway beds

Singlebed

with integrated side cladding and
front plate

80, 90, 100, 120, 140, 150 cm width

60 cm cabinet depth



Rev: [Novembre 12 2018](#)

Please **destroy older** assembly drawings!

We do not assume any liability in cases of non-adherence to the assembly manual.

- We reserve the right to make modifications -

The statutory warranty period applies!





Only allow expert personnel who have received the required instruction to assemble the BELITEC system!



Safety instructions

This device can be used by children aged 8 and older or persons with reduced physical, sensory or mental abilities or lack of experience and knowledge, provided they are supervised or have been informed how to use the device in a safe manner and understand the resulting risks!

Ensure that children cannot play with the device.

Do not move the bed from the installation site which has been deemed "safe" by the installer.

A safe installation site must have sufficient space around the system travel path, so that there is no direct danger caused by getting caught and / or crushing.



When using the device, ensure that there are no objects which may get caught between the moving components. Do not touch moving components during operation to avoid severe personal injuries / damage to property! There is a risk of crushing injuries, fractures and / or limbs being severed.



It is prohibited to smoke or handle open flame in close proximity to the device!



Due to the risk of electric shock, a damaged power cable may only be replaced by the manufacturer or a specialist company.



When installing the system, ensure that there is sufficient space and provide a sufficiently large safety area! If spaces and / or the safety area are too small, there is a risk of crushing, fractures and / or limbs being severed.



Protect all electrical lines and connections from damage and water and install them so that they are freely accessible to prevent electric shocks.

Reliably prevent unintentional changes to the control system, the electrical system and all moving components.

Prevent misuse of the remote control by unauthorised persons. Fasten the hand switch at the highest possible position to prevent misuse.

It is recommended that you as the producer of the complete furniture keep this assembly instruction safe to your technical documentation in case of control by authority.

Parts list

- 1 set of bend guides A LH and RH
- 1 set of bend guides B LH and RH
- 1 carriage unit + drawer + side cladding
- 1 chain frame + 4 screws
- 1 mattress
- 1 drive unit
 - 1 SB - drive 1.2
 - 1 SB - drive 1.1 with yellow dot
- 1 synchronous shaft + 2 couplings
- 1 control + hand - held switch + emergency lowering
- wooden slats as required
- 12 hardness adjusting slides as required
- 2 stops retraction / extension
- 2 x 2 guide rails
- 8 ventilation rings
- 1 metal feet with rollers for the front plate
- 2 belts
- 2 belt holders
- 4 belt hooks
- 4 plastic plugs

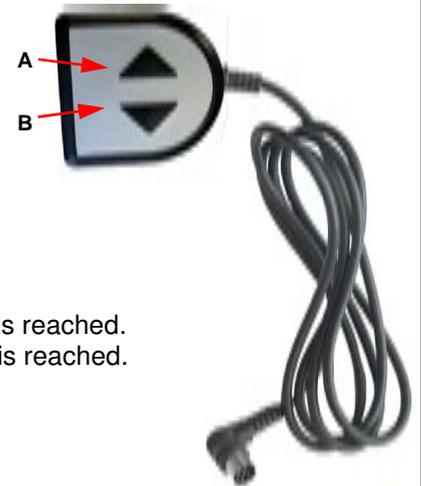
Hand held switch

to initialize

- push the buttons A + B at the same time and hold.
- the drives retract the system and stop at the end position.
- there is sounding a beep for successful operation.

regular service

- | | |
|----------|--|
| Button A | Reclining area is retracted. Press button until the desired position is reached. |
| Button B | Reclining area is extended. Press button until the desired position is reached. |



ATTENTION!

In case of a power failure, you can extend the system by pressing the button (*) on the emergency lowering.

After that the control system needs an additional teach-in run!

Do not extend the bed completely in case of a power failure, as the system may otherwise be damaged.

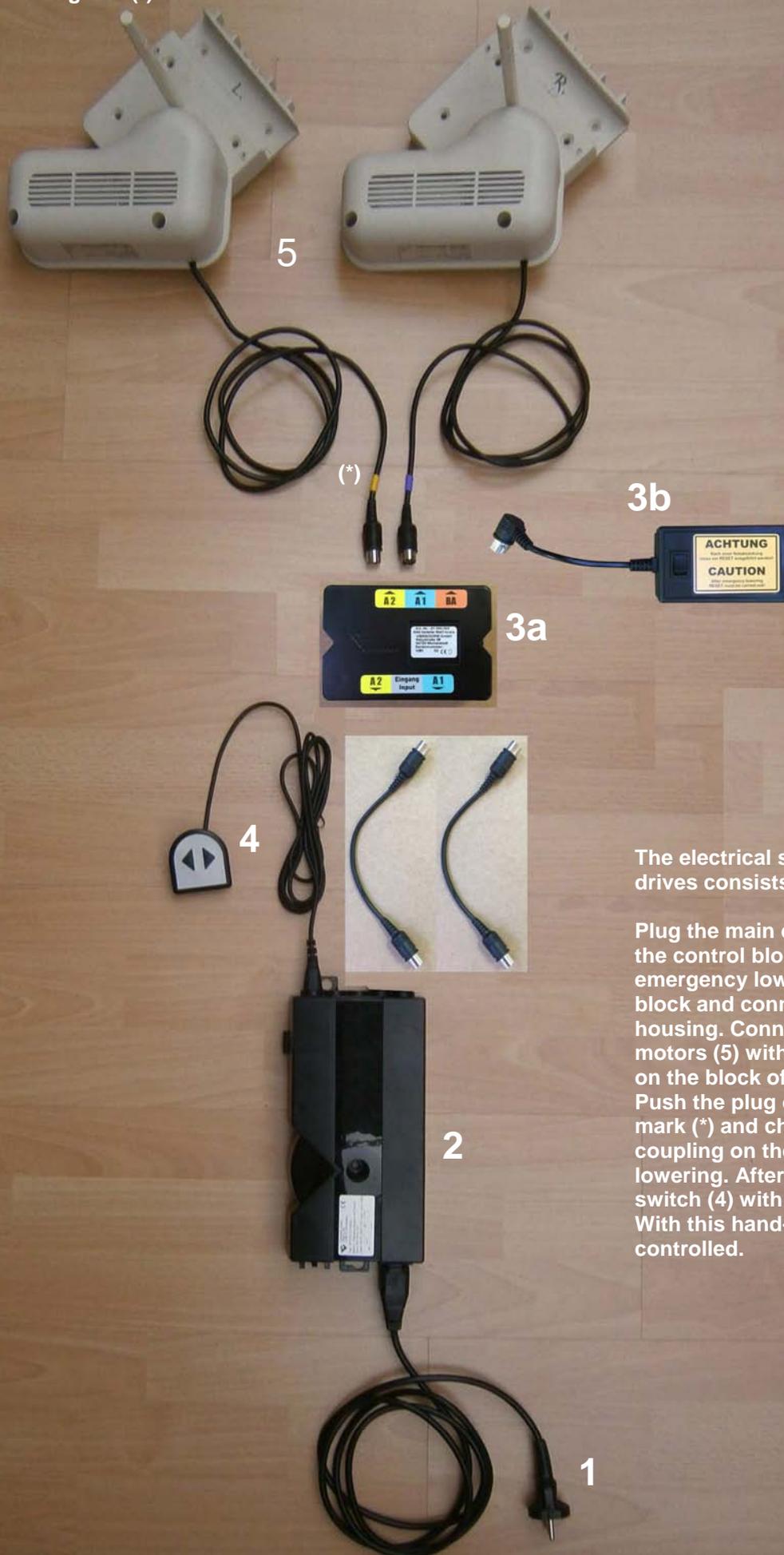
Only extend and retract the bed while unloaded!

The system is protected against malfunctions and improper handling by an integrated overload protection in the controls.

After twice run in / out service to take a break time of 18 minutes is required to prevent the drive motors from overheating!

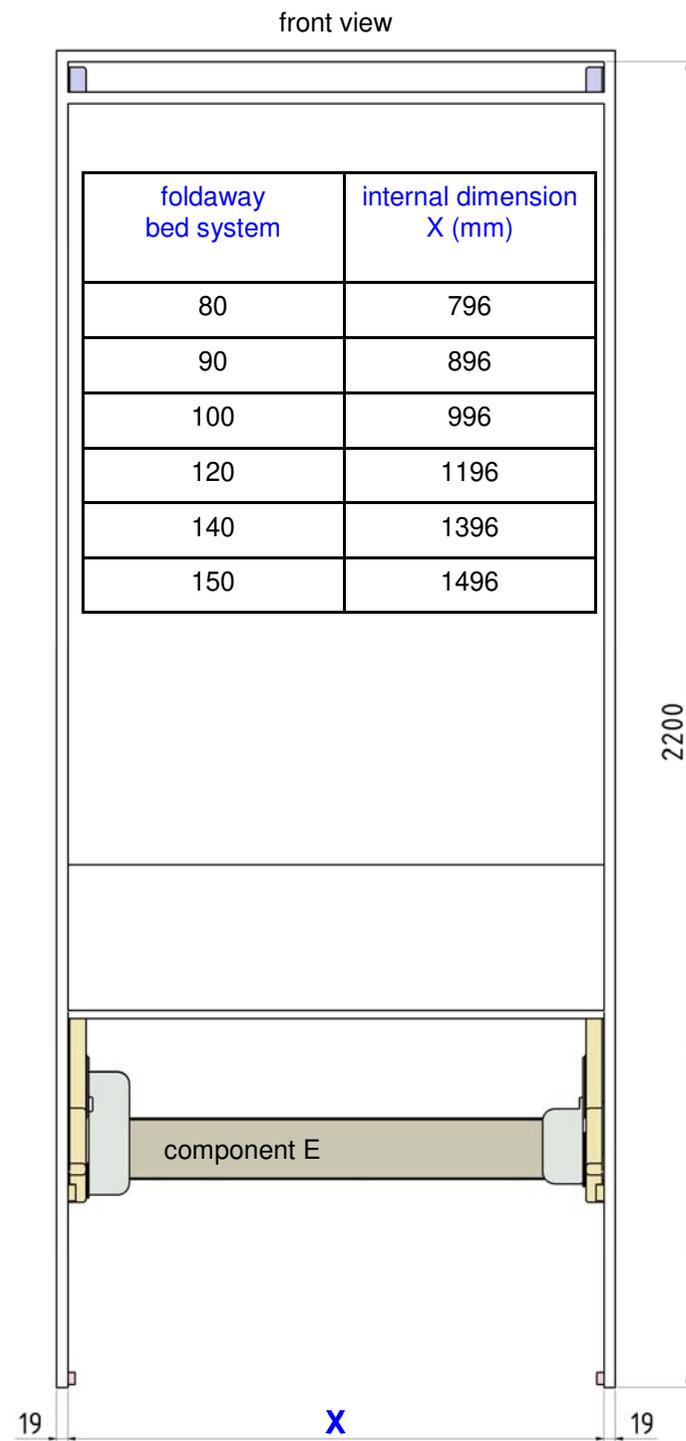
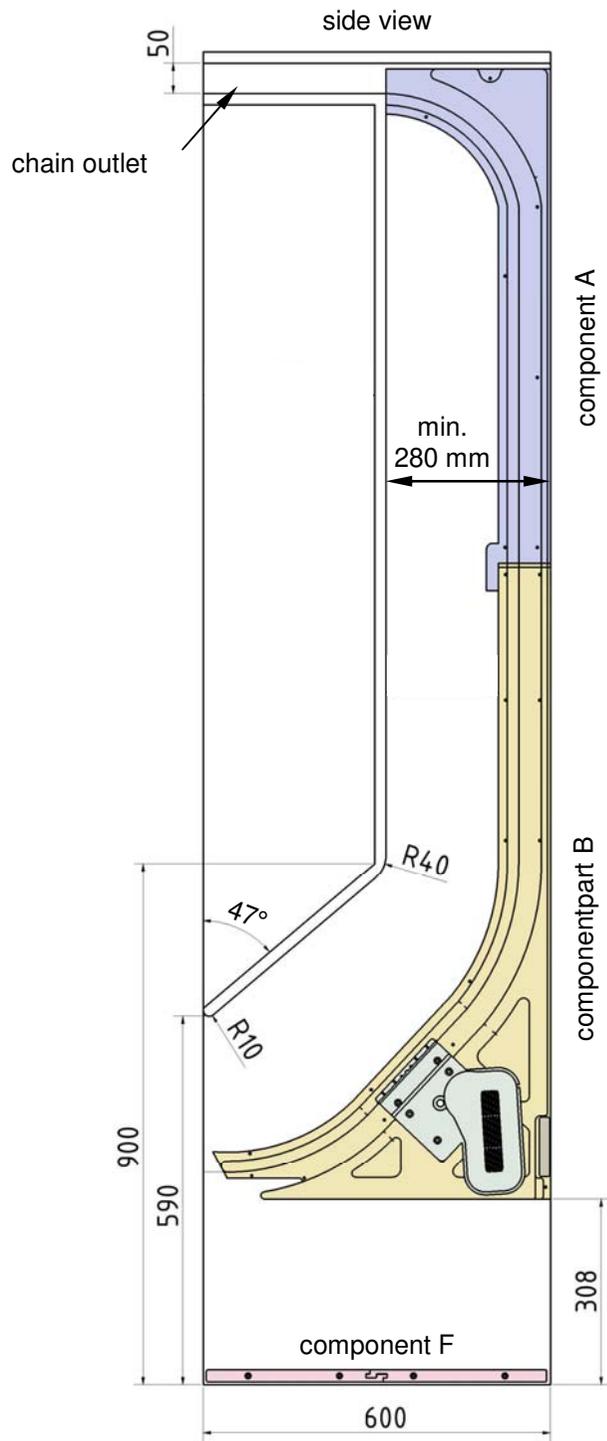


chain guide (*)



The electrical system of controls and drives consists of five components.

Plug the main electrical connection (1) into the control block (2). Then plug the block for emergency lowering (3a) into the control block and connect the switch (3b) with housing. Connect the plugs of the drive motors (5) with the remaining two couplings on the block of the emergency lowering. Push the plug of the actuator with the yellow mark (*) and chain guide (*) into the remaining coupling on the block of the emergency lowering. After that connect the hand-held switch (4) with the control block. With this hand-held switch the system will be controlled.



See our construction video on Youtube.
<https://youtu.be/cIQPZ1ZVIsg>

Note:

For systems with internal doors, the side walls must be doubled accordingly to ensure that the depth dimension of 600 mm is maintained!

The system cannot be moved separately, i.e. both carriages always move simultaneously.

Assembly information

To ensure long-term safety when using your foldaway bed, it is necessary to adhere to basic safety rules, both for use and control system installation in the foldaway bed.

- Ensure that the installation location is dry and free of dust. The controls of the electrical system should not be exposed to direct sunlight.
- The ambient temperature for use of the control system may not be higher than 40 °C or lower than 5 °C.
- For this reason, do not install / operate the controls:
 - * above or in front of heat sources (e.g. radiators)
 - * near highly inflammable materials
 - * near high-frequency devices (e.g. transmitter, radiation devices, etc.)
- Ensure that the connection cables are not bent, pulled or otherwise subjected to mechanical stress.
- For protection from electrical surges, which may occur during a thunderstorm, it is recommended that you install a surge protection. Get advice from an electrician.
- The control system must be fastened in place (recommendation: screw-fitting). This will prevent malfunctions caused by loose plug-in connections or generation of unwanted noise.
- The control system must remain freely accessible even after installation of the foldaway bed, so that it can be accessed for service work.
- The control system only generates very little heat, but sufficient air circulation should nevertheless be ensured.

- Electrical lines should only be installed by qualified personnel.

Liability disclaimer

We would like to point out that *Hartmann asytec GmbH & Co. KG* will not assume any liability for injuries, material damage or other damage caused by

- failure to adhere to this assembly manual.
- modifying the foldaway bed without our approval.
- using spare parts that have not been manufactured or approved by *Hartmann asytec GmbH & Co. KG*.

Eliminating malfunctions of the foldaway bed control

Possible malfunction	Solution
The foldaway bed no longer responds after moving for 2 min.	Disconnect the controls from the mains for approx. 5 sec
Controls do not respond to use of the hand switch	Disconnect the controls from the mains for approx. 5 sec, perform a new reference run as described, see page 16, section 14
The emergency lowering function was used after a power failure	perform a new reference run as described, see page 16, section 14
The system does not respond after a pause time of min. 18 min.	Disconnect the controls from the mains for approx. 5 sec, perform a new reference run as described, see page 16, section 14
<i>If these measures are unsuccessful, please contact your service partner to have the controls replaced, if necessary.</i>	

Note:
For systems with internal doors, the side walls must be doubled accordingly to ensure that the depth dimension of 600 mm is maintained!

Assembly instructions

1. **Read carefully, adhere to specified dimensions, note the RH / LH side, route cable precisely, install the controls and the corresponding receiver so that they are freely accessible!**
Recommendation:
On the top of cabinet unit

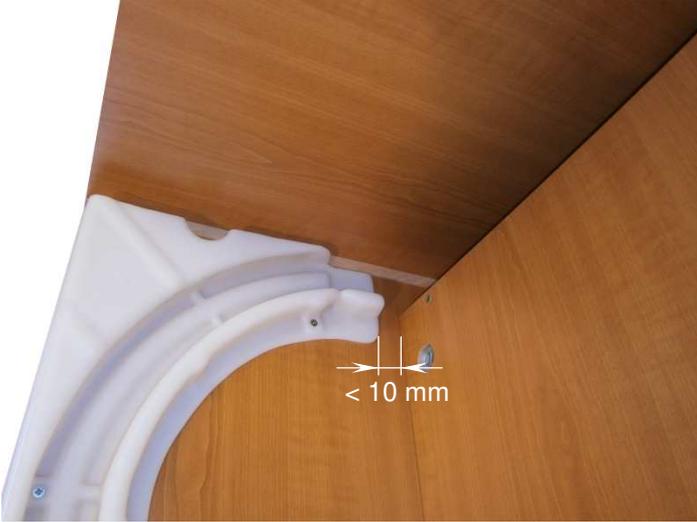
Ensure that the floor on which the system is installed is horizontal and level.

The carriage frame cannot compensate for the height, even if the cabinet is adjusted to the floor.

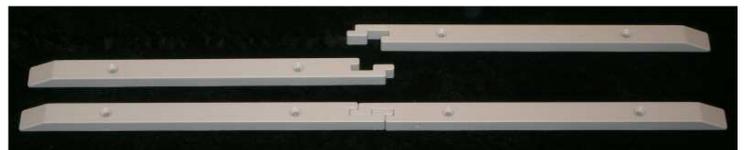


2. Install the bend guides on the RH and LH side (component B) at a height of 308 mm, flush with the rear edge.

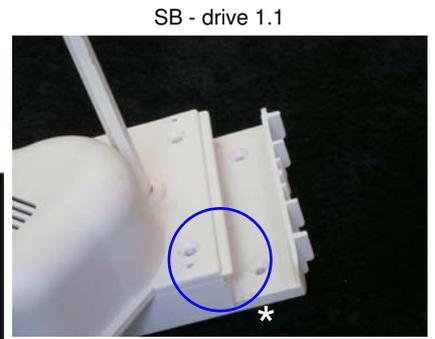
3. Install component A. Leave a gap of minimum **50 mm** in the cabinet lid area and ensure that the chain outlet is sufficient. Pay attention to cabinet lighting cables etc., increase dimension, if necessary. Ensure that the gap between component A and the rear of the cabinet storage space is no more than **10 mm**.



4. Install side guide rails (component F) at the bottom of the side walls .

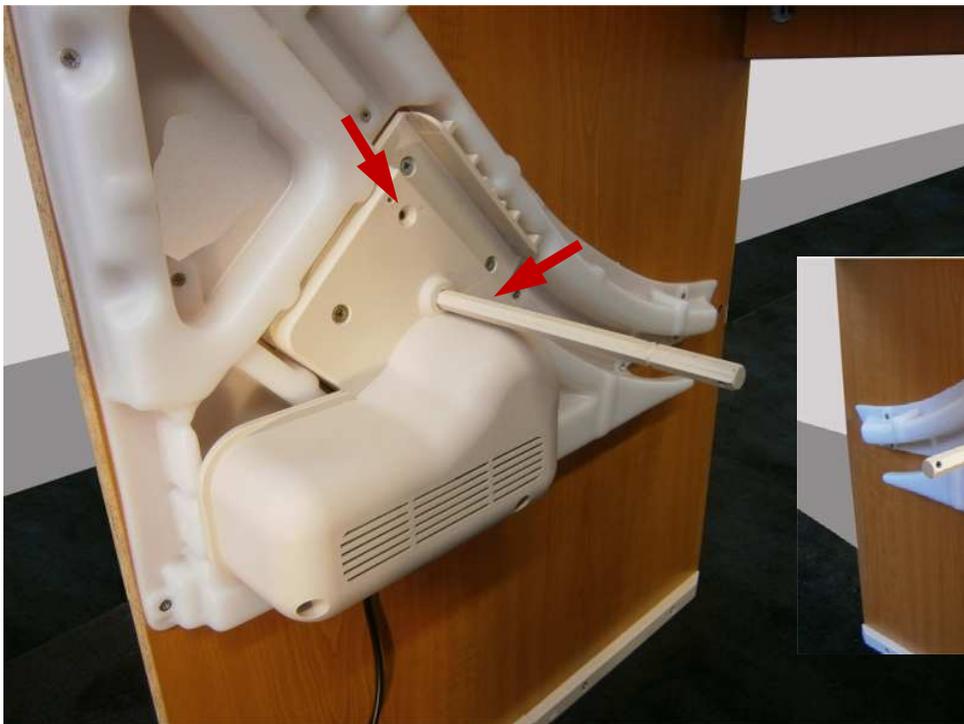


5. Install the drive housing (SB - drive 1.1) with the chain guide (*) and the yellow mark on the RH, the other drive housing on the RH side wall.



SB - drive 1.2

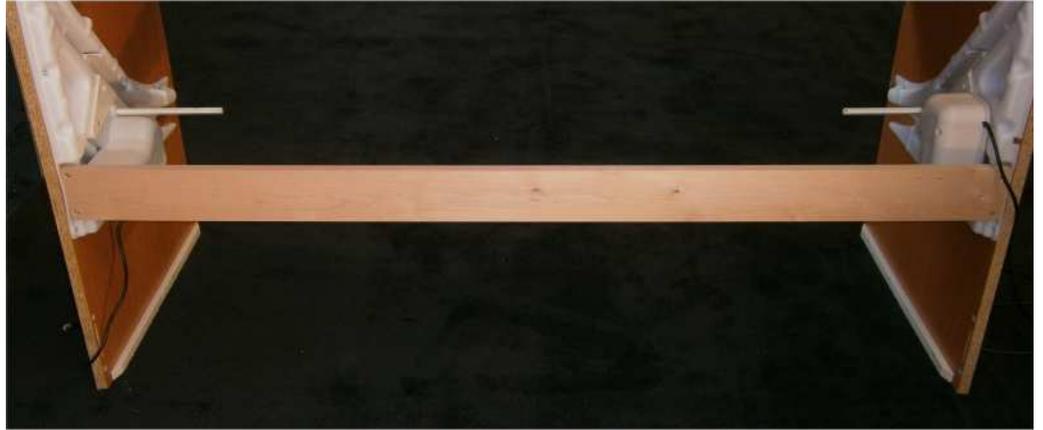
Leave off the screws intended for the stops..



6.

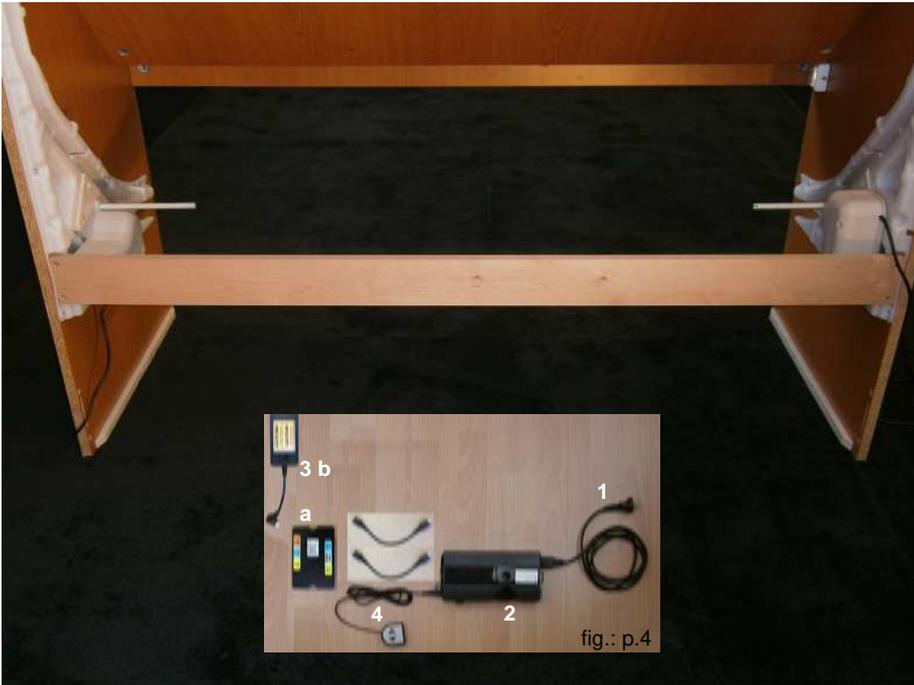
Fit part E.

Produce the spar for fastening the belts from a flexural resistant material such as laminated wood (manufactured by a skilled cabinet builder) with a min. cross section of 95 x 20 mm. The length is depending on dimension X (drawing figure) less 8 mm. Pay attention!



7.

Connect the electrical system, this means control system + emergency lowering + actuators.



8. Connect the protruding hexagonal rods of the drives to the synchronous shaft (SB - SA) by pushing the couplings (SB - KU) up to the marking.
If the hexagonal rods are not in the same position, disconnect a drive from the control system.



Then press button on the hand-held switch to move the other drive to the correct position.



Attention!!!
Reconnect the second drive.



9. Position the chain frame and then manually push it in up to the gear wheel of the drive. Ensure that both chain ends are in the same position when making contact.

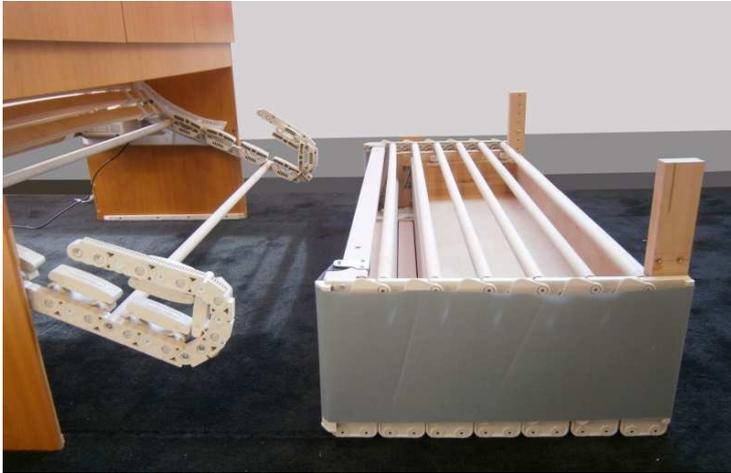
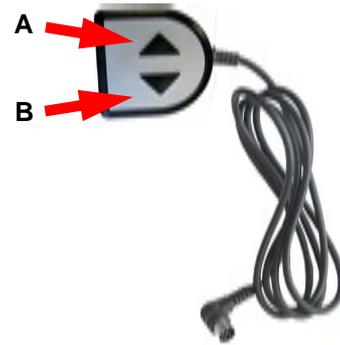


10.

To retract the system use the drives pushing both buttons A + B on the hand-held switch at the same time until 3/4th of the total length of the chain frame has been drawn in.

Ensure that both chain ends are pulled in uniformly.

During this assembly step, the chain can only be extended using the button of the emergency lowering.



11.

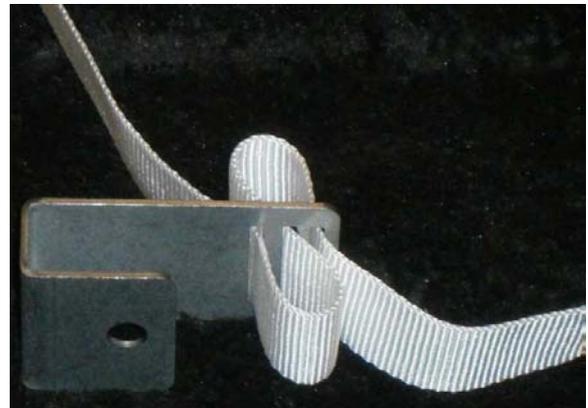
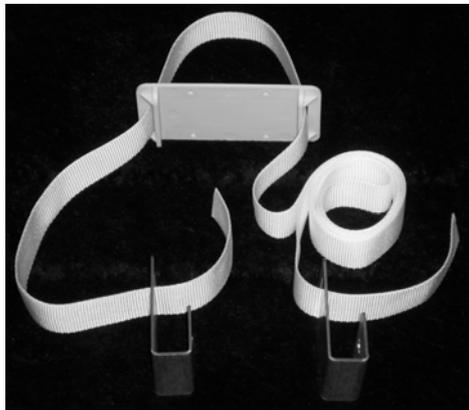
Fasten the chain frame to the first carriage.



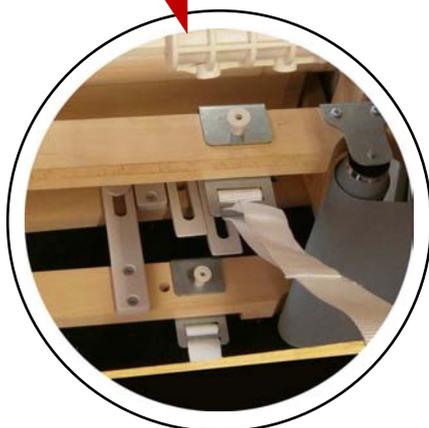
12.
Fit the stops for retracting/extending on the LH and RH side and the centre support.



13.
Prepare the belt loops.



Fasten the metal hook on the spars.



Attach the belt holder on component E.



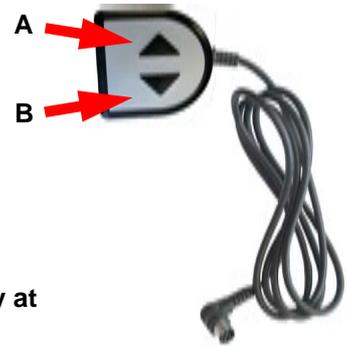
14.

The first run of the system is intended for adjusting the electronic controls, is carried out at reduced speed and is called the teaching run.

The hand-held switch is used for drawing in the chain. Push the buttons A + B at the same time and hold. The drives retract the system and stop at the end position. There is sounding a beep for successful operation.

If the system is installed and then dismantled again prior to the final assembly at the customer's premises, it is absolutely required to repeat the teaching run!

Note that the control system only permits a runtime of 2 min. Afterwards, a break of 18 min is required. To prevent this during a trial run, interrupt the power supply for at least 10 s.



15.

Extend the system. Ensure the carriages are completely extended. Now adjust the belts until they are tensioned.



On entry, ensure that there is no jamming of the guide rail. The guide rail must pass between the round log of the carriage and the round log of the chain frame!



16.

Fit the metal foot to the front plate..





17.

Fit the front plate to the pushed-in drawer. Ensure that there is a gap of minimum 15 mm between the fastened panel and the floor. Ensure that the front plate width of the system equals the internal dimension plus double the side wall thickness.

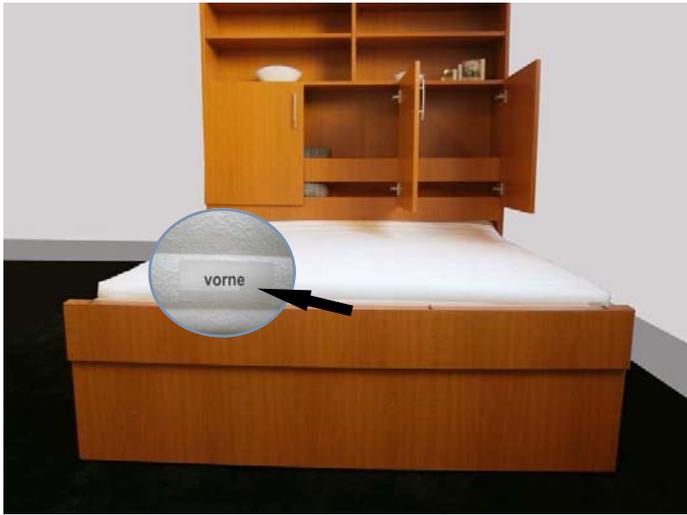


18.

Completely extend the system.
Hook in the wooden slats, leaving out slats no. 1, 4, 6, 11, 21, 27 which are to be pushed into the mattress loops provided.

For mattress widths of 120 cm or more, slats no. 13, 14, 15, 16, 17, 18 are doubled.





19. Lay the mattress on the chain frame. Pay attention to the correct position of the mattress, especially the front edge. The front part of the mattress contains a softer insert.

Mattress front = 40 mm distance from the 1st loop.

For reasons of appearance, a cover strip can be fitted to the mattress support board. This must be made by the cabinet manufacturer.



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