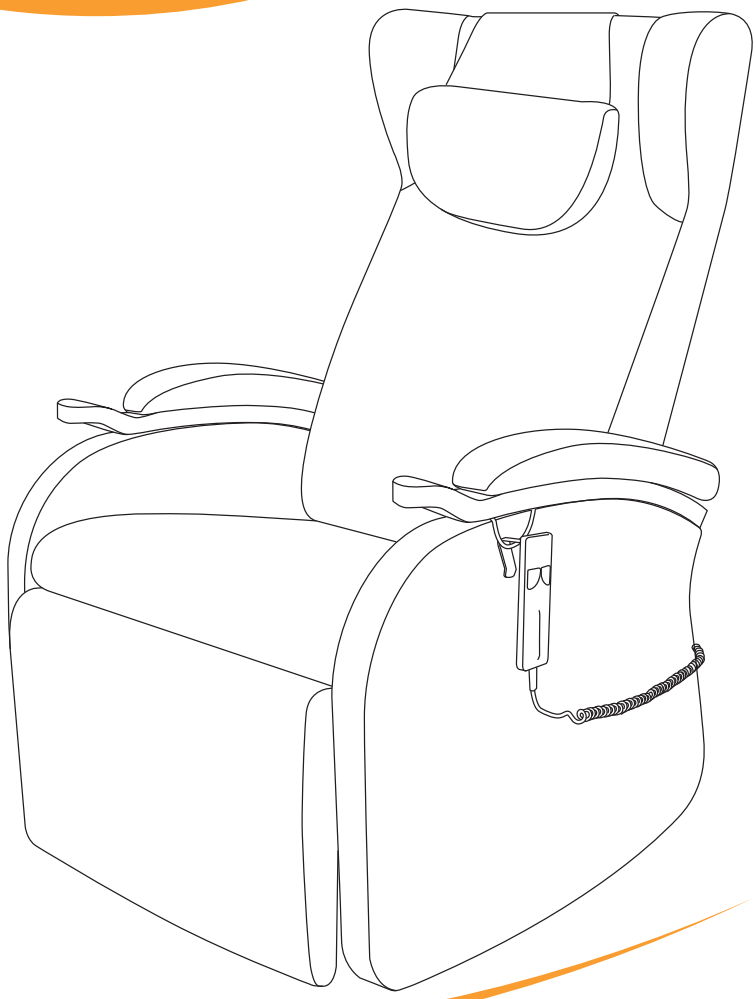
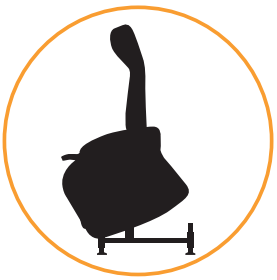
SIGMA









User Manual

CE

MB8100GB

handicare

Introduction

Congratulations on your choice of your new lifting chair.

Quality and functionality are keywords for all Handicare lifting chairs.

For your own safety, and in order to get the greatest benefit from the features of your new lifting chair, we recommend that you read this user manual carefully before you start to use Sigma.

Sigma in brief

Sigma has been developed in collaboration with the market. This has resulted in a unique and comfortable lifting chair/recliner with a wide range of accessories and plenty of customised settings.
The name of the chair stems from the Greek letter "∑", which is used in mathematics to symbolise "sum". Sigma therefore means the sum of all our experience from 15 years of operation in the chair market.

One of our goals when developing Sigma was to ensure that the chair featured settings that could easily be adapted to suit the anatomy and disabilities of its users. We also wanted to ensure that it was simple to convert the chair back to a standard chair on recycling.
A wide range of adjustments can be made to Sigma using intuitive procedures that require minimal use of tools or replacement of parts.

This user manual accompanies Sigma

with serial number:. . . . . .

The product has been checked and approved

on: . . . . . .

by: . . . . . .

Handicare AS
Serviceboks
2626 Lillehammer – Norway
www.handicare.com

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1. Intended use

Sigma is a lifting chair that can be adapted to suit the individual user.

- Sigma is manufactured in accordance with the medical equipment directive.
- Sigma assists users to move from a seated to a standing position with a minimum of effort.
- The stepless movement of the chair allows the user to find a comfortable resting position.
- The chair is only intended for indoor use.

⚠ Warning
Make sure that the Sigma chair is positioned so that its movements during operation do not cause injury to people or damage to the chair or other property.

Installation/assembly of the chair

The chair is supplied fully assembled from the factory. However, it may be necessary to adjust the chair to suit the user and to fit accessories.

Transport

The chair must always be transported in its original packaging.

2. The parts of the lifting chair

To make it easier for you to be able to read and understand this manual it is important that you familiarise yourself with the most common terms we use for the different parts of the lifting chair.
Study this drawing while identifying the parts on your chair. As accessories can vary from user to user, they are not included in the figure below.

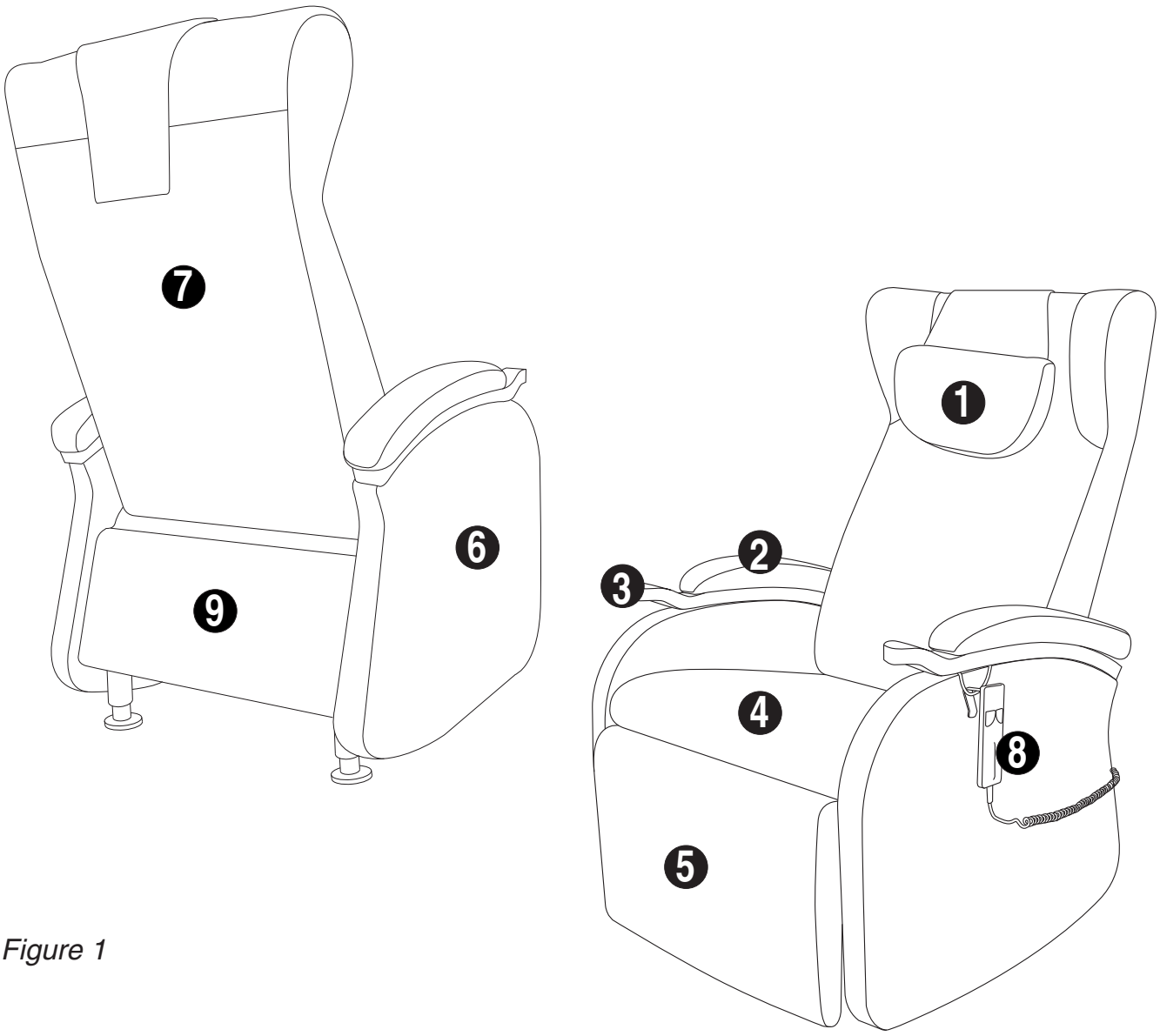


Figure 1

1 Neck cushion	4 Seat cushion	7 Backrest
2 Armrest top	5 Footrest cushion	8 Hand control
3 Wooden armrest	6 Side panel	9 Lower back panel

3. Brief instructions for use

Hand control

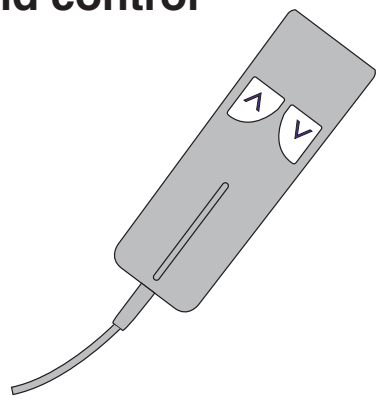


Figure 2



Neutral

Arrow up

- Backrest/tilt and seat up.

  From a prone position, the backrest rises, the footrest descends and the seat lifts up.

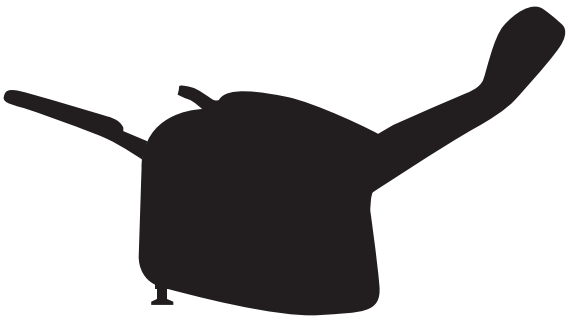


Raised

Arrow down

- Backrest/tilt and seat down.

  From a seated position, the backrest moves back, the footrest moves up and the seat tilts backwards.



Prone

4. Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
None of the electrical functions works.	(1) No 200 V power supply to the plug.	Change the fuse in the appropriate fuse box.
	(2) Break in the 220 V cable to the electrical box.	The 220 V cable must be replaced by approved service personnel.
	(3) Fault in the hand control, possibly in the hand control cable or plug.	Replace the hand control.
	(4) Fault in the chair's electrical box.	Replace the electrical box.
	(5) Fault in the motor.	Replace the motor.
	(6) Fault in the electrical box.	Replace the electrical box.
Motor does not work	Fault in the motor.	Replace the motor.

5. Adjusting the chair

5.1 Adjustments to Sigma

In order to prevent injury to the user and damage to the chair or its surroundings, all Sigma adjustments must be performed by qualified personnel.

5.2 Preparation and subsequent work

Check that all the nuts and bolts are appropriately tight and that all electrical functions work properly after adjustment.

Many of the adjustments require the removal of the seat cushion, footrest cushion, lower back panel and side panels.

Seat cushion

The seat cushion is held in place by Velcro ribbon and can be removed from the chair as required. When replacing the seat cushion, push it under the backrest until the leading edge of the cushion is flush with the side panels.

Footrest cushion

The footrest cushion is attached to the footrest with Velcro ribbon.
When replacing the footrest cushion, push it up against the seat cushion so that it lifts the seat cushion slightly. Then press the cushion against the footrest so that it attaches firmly to the Velcro ribbon on the footrest.

Lower back panel (Figure 3)

When removing the lower back panel, it is best to start by removing the seat cushion.

- Loosen the locking wheels Ⓐ and remove the panel Ⓑ
- After completing the adjustments, replace the panel by reversing the procedure.

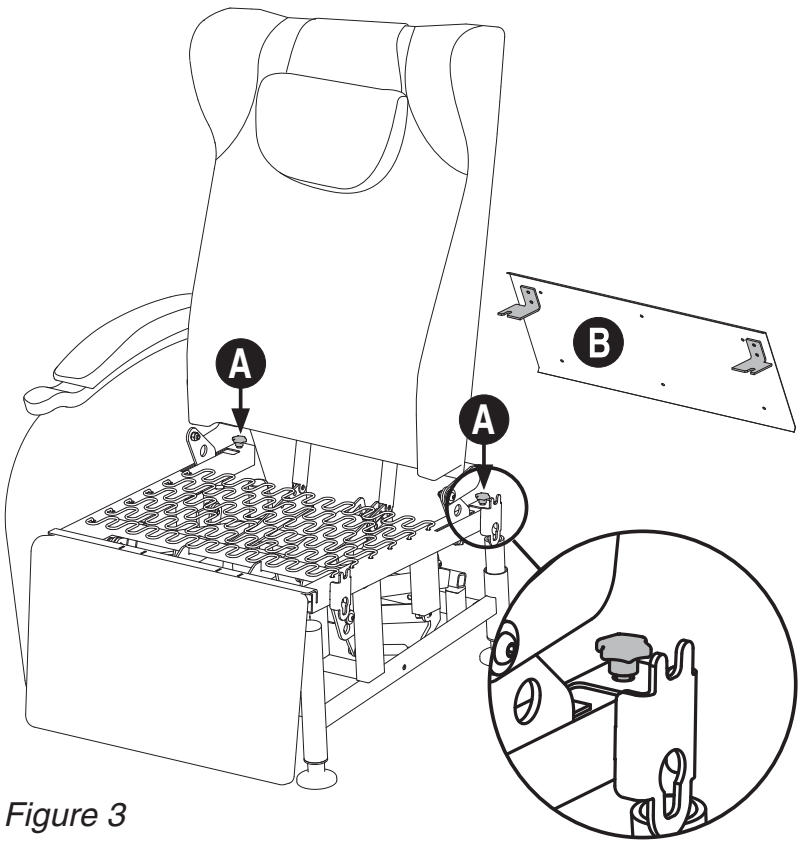


Figure 3

5. Adjusting the chair

Side panels (Figure 4)

Tools: Allen key NV 6

- Remove the seat cushion
- Loosen screws Ⓐ and screws Ⓑ
- Lift the side panel up and out to remove it
- Make sure that the screws are sufficiently tightened when you replace the side panel

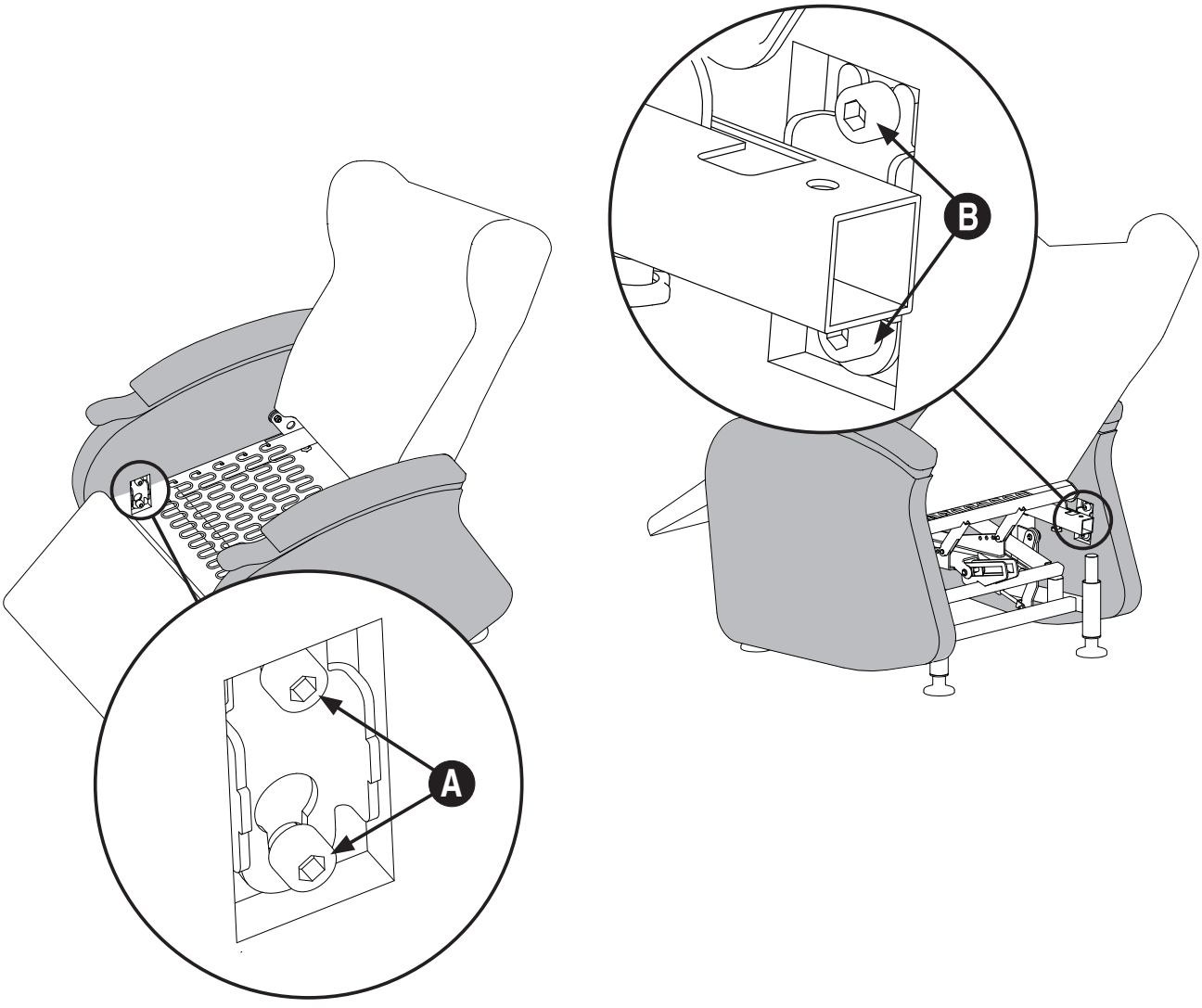
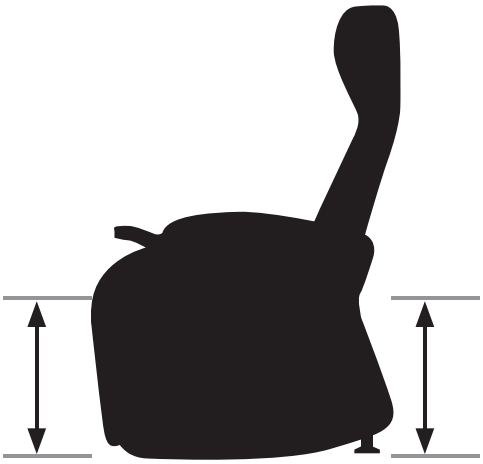


Figure 4

5.3 Adjusting the seat height

The four legs are steplessly adjustable and independent of each other.



Seat height, front

- Adjust the front plastic feet Ⓐ to the required height. Each full turn adjusts the height by 1 cm. The lowest front seat height is 44 cm.

Seat height, back

- Adjust the rear plastic feet Ⓑ to the required height. Each full turn adjusts the height by 1 cm. The lowest back seat height is 44 cm.

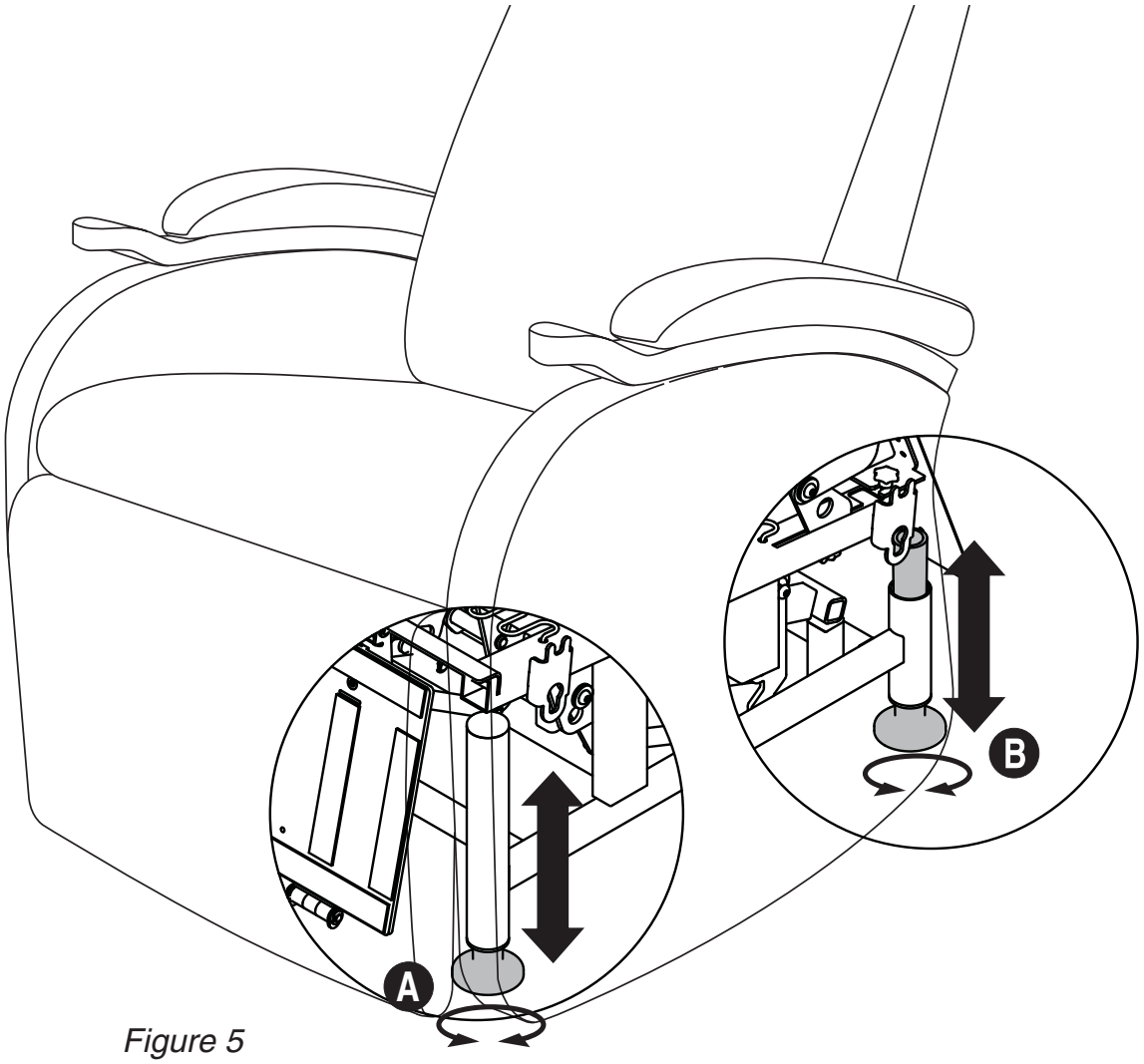
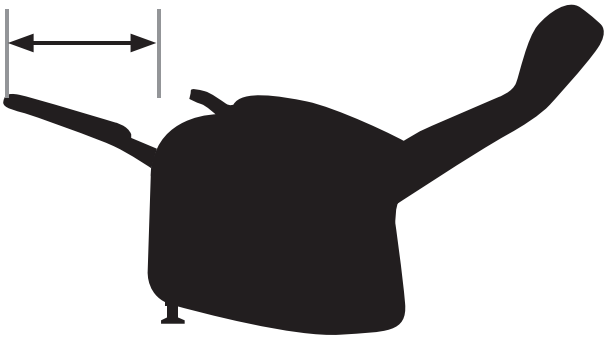


Figure 5

5.4 Adjusting the footrest length

The footrest can be adjusted to suit the length of the user's legs.



The footrest can be adjusted to one of three lengths.

- Remove the seat cushion and footrest cushion (see Section 5.2)
- To adjust the length of the footrest, lift up the axle Ⓐ and move it to a different position. The rear position Ⓑ provides the longest footrest length.

If the footrest bands are slack, they must be tightened – see Section 5.6.

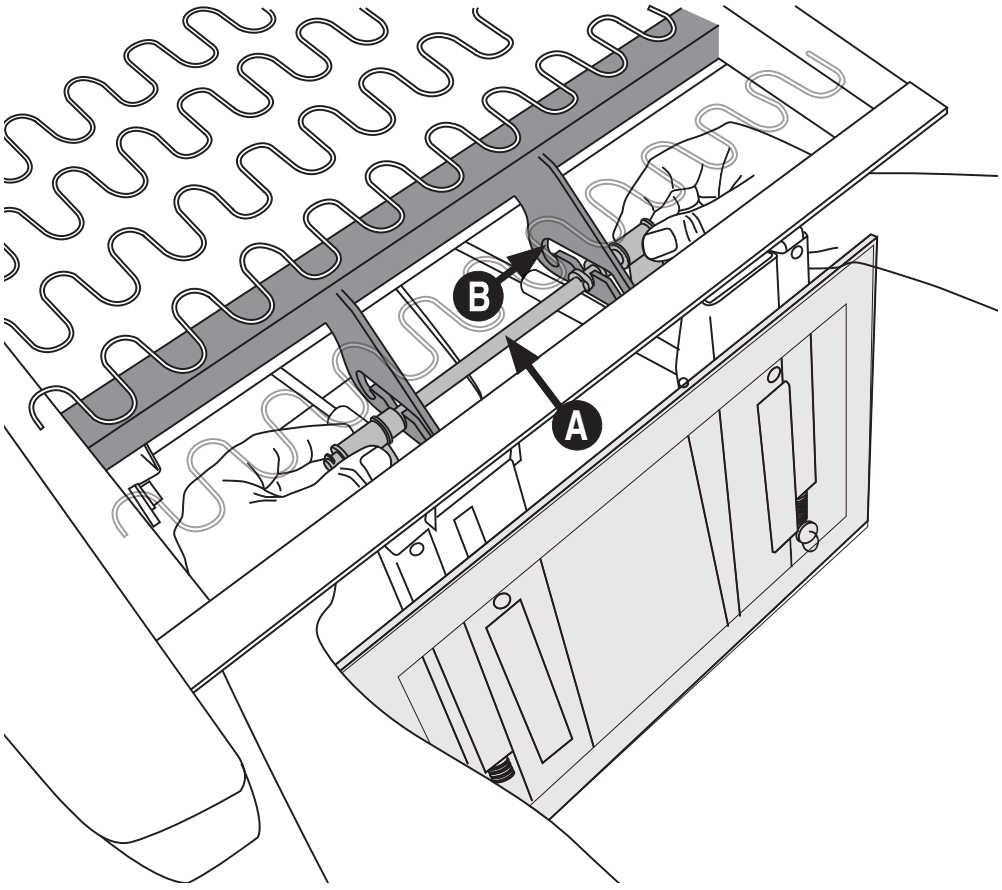
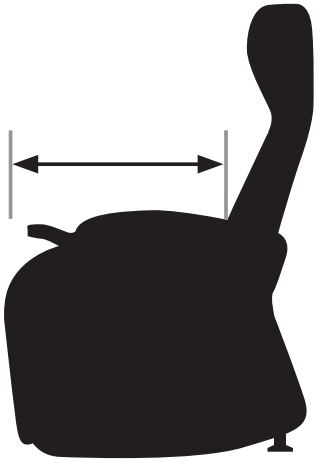


Figure 6

5. Adjusting the chair

5.5 Adjusting the seat depth

You can adjust the seat depth by moving the backrest forwards or backwards.



- Remove the seat cushion and take off the lower back panel (see Section 5.2)
- Put the chair in the raised position
- Loosen the locking wheels Ⓐ on both sides. (Do not remove the locking wheels completely.)
- Lean the backrest forward so that the pins Ⓑ are freed from the tracks in the seat frame. Push the backrest forwards or backwards to the desired position and then tilt the backrest so that the pins Ⓑ settle in the correct track.
- Check the position of the pins against the measurement scales Ⓒ
- Make sure that you have adjusted both sides equally before tightening the locking wheels Ⓐ again

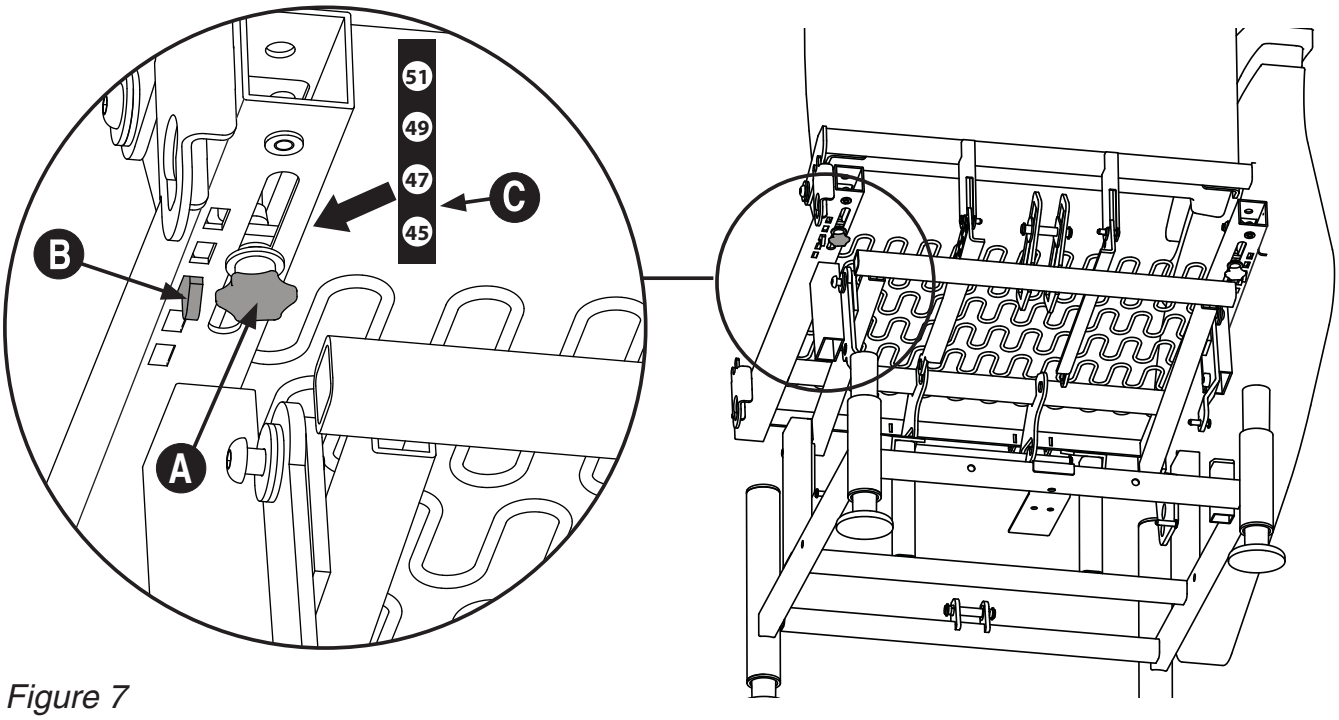


Figure 7

5. Adjusting the chair

- Remove the split pins Ⓓ and move the stays Ⓔ to the position you require
- Check that the position of the measuring scales Ⓕ matches the position of the measuring scales Ⓒ in Figure 7
- Replace the split pins
- Replace the back panel and the seating cushion

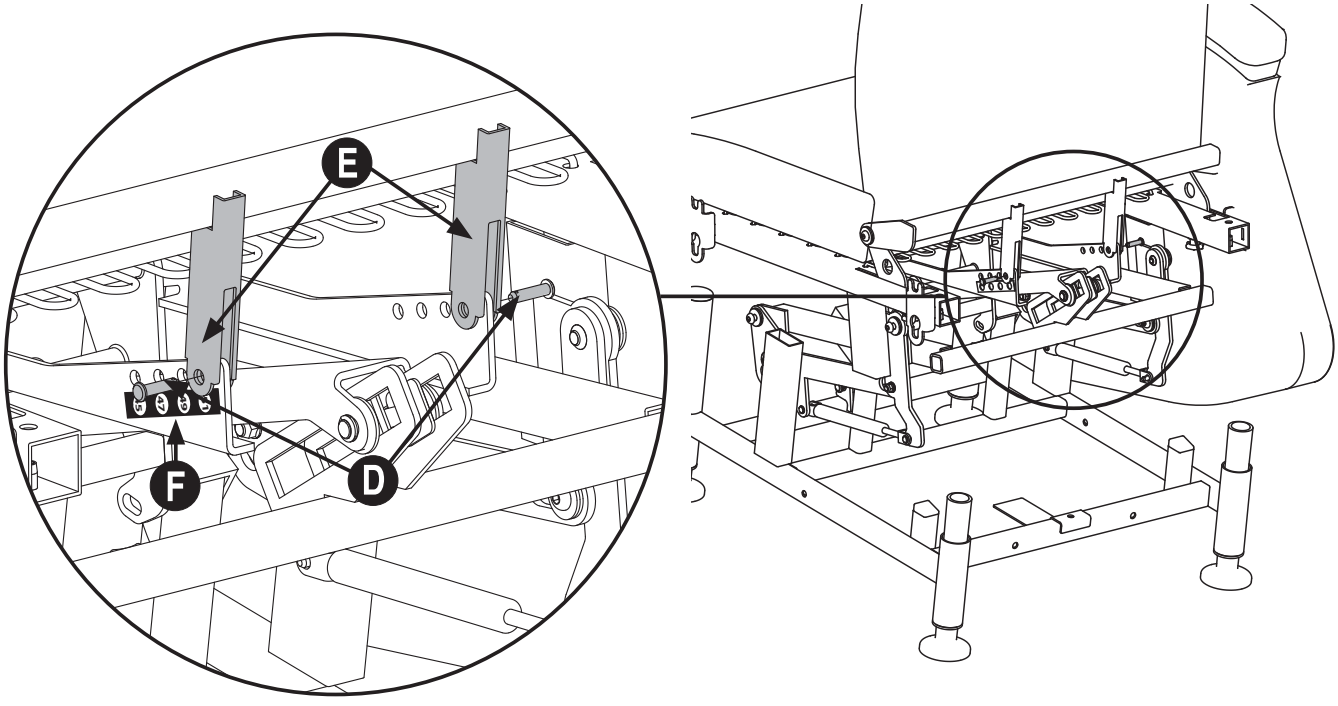


Figure 8

5.6 Taking up the slack in the footrest

The bands in the footrest mechanism can slacken over time and may need to be tightened up.

- Remove the footrest cushion (see Section 5.2)
- Put the chair in neutral position
- Tighten the bands Ⓐ while at the same time moving the footrest up until it stops against the edge

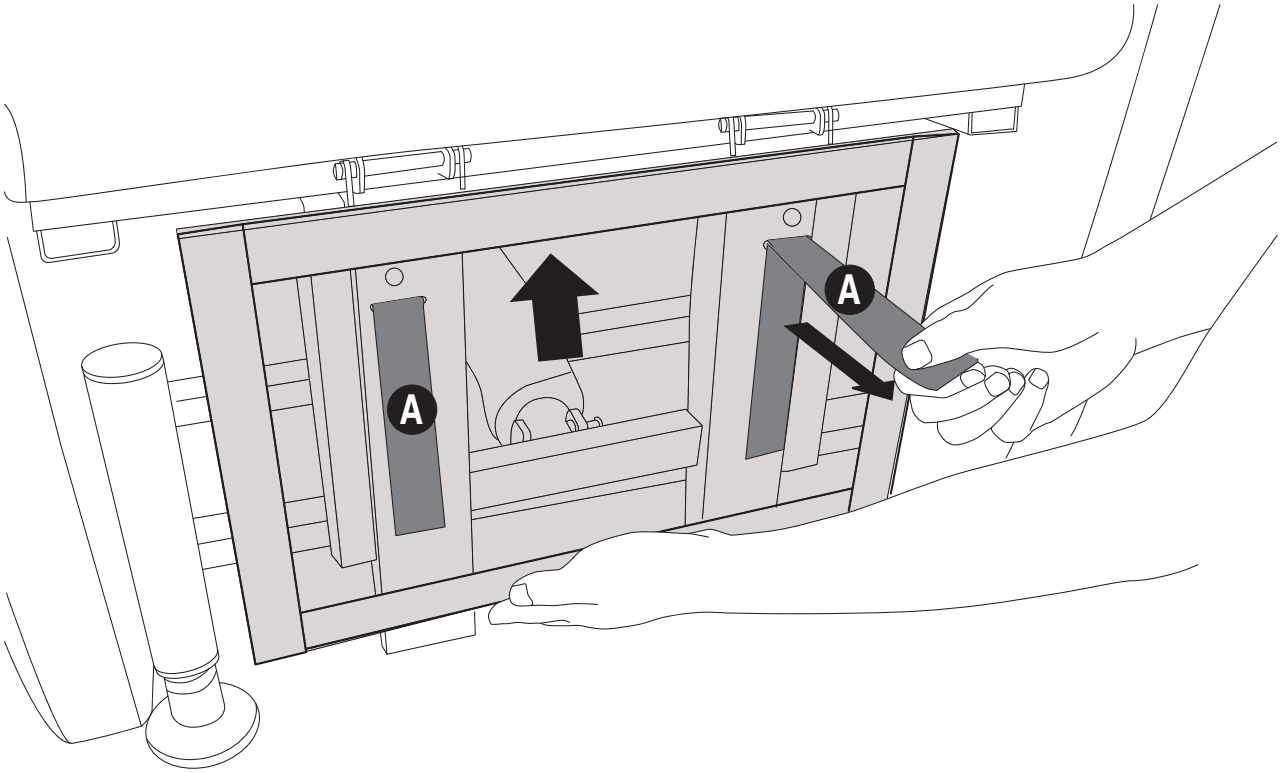
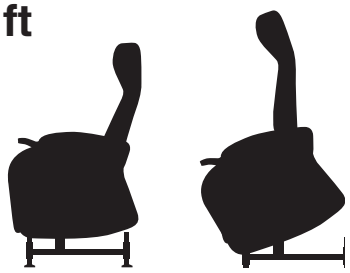


Figure 9

5.7 Switching between straight lift and angled lift

As standard, the Sigma chair is set up for angled lift, but can be adjusted to straight lift.



Straight lift *Angled lift*

⚠ Switching between straight lift and angled lift may only be performed by qualified personnel.

Tools: spanner NV 13 and Allen key NV 5–6

- Put the chair in neutral position
- Remove the side panels and take out the seat cushion (see Section 5.2)
- To switch between angled lift and straight lift, move the stay Ⓐ
- Unscrew the bolt from the hole Ⓑ (use a spanner to keep the rear nut in position). Move the stay to the bottom hole Ⓒ for straight lift, or to the top hole Ⓑ for angled lift.
- Perform the same adjustment on the opposite side of the chair.
- Replace the side panels and the seat cushion.

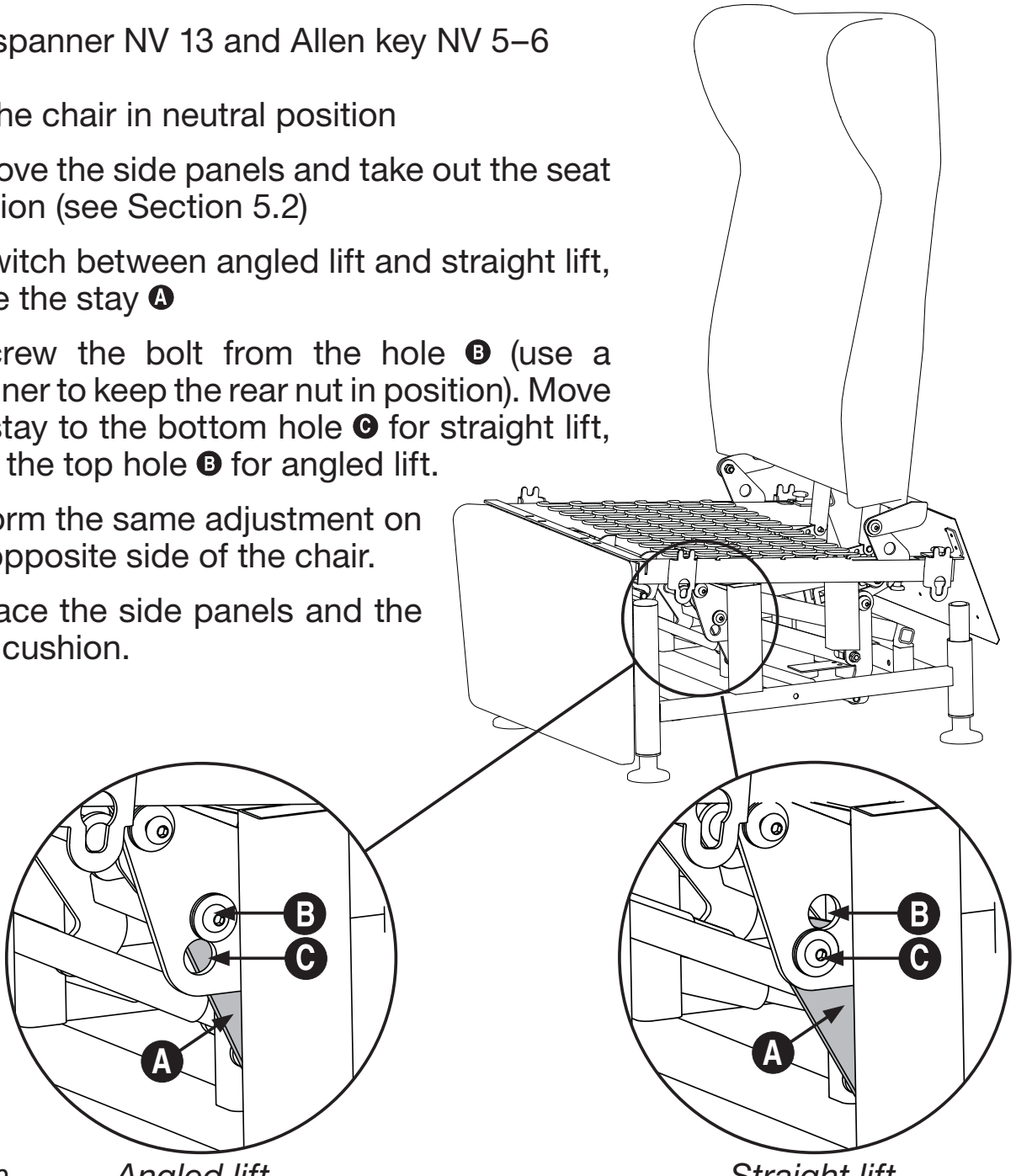


Figure 10 *Angled lift* *Straight lift*

6. Safety



- Ensure when positioning the chair that its movements when in use will not risk injuring people or causing damage to the chair or objects in the immediate vicinity. The footrest and backrest must not be obstructed.
- The Sigma lifting chair is designed not to cause crushing injuries during normal use.
- Similarly, the footrest function is fitted with a spring mechanism to prevent crushing when the footrest is moved in towards the chair chassis.
- Make sure that no one is standing, lying or playing around or under the chair chassis when the chair functions are operated!
- Take care when operating the chair's lifting function, otherwise there is a risk that the chair user or other people may catch their fingers, hand or arm in the chair lift mechanism!
- Do not subject the chair to a weight greater than the max. total user weight: 150 kg.
- Do not sit on the footrest or subject it to loads in excess of those of its intended use.
- Do not lift the footrest.
- Sitting in the lifting chair for long periods of time increases the danger of pressure sores. If there is a high risk of pressure sores, we recommend the use of anti-decubitus cushions to counteract the problem.
- The chair has been EMC tested in accordance with IEC60601-1-2, but it may affect sensitive equipment through electromagnetic or other types of interference.

7. Maintenance

Maintenance described in this section can be carried out by the user. Other maintenance work should be carried out by qualified personnel at the supplier in your municipality or at the technical aids centre. For information about repairs or servicing, please contact the technical aids centre in your county.

Checks

- Check that the power cable has not become entwined in the mechanical parts of the chair, and make sure that it has not been otherwise damaged.
- The hand control can be wiped with a moist cloth.
- Soiled fabric can be cleaned with a moist cloth or washed according to the instructions on the following page.
- Soiled leather covers can be cleaned by spraying with a fat-saturated cleaning agent (use a special agent intended for cleaning leather) and then soaking up the agent with a sponge. Do not rub.

Repairs

- Over and above minor repairs such as tightening screws etc., all repairs must be performed by qualified personnel from the supplier in your area, or at the technical aids centre.
- For information about repairs or servicing, contact the technical aids centre in your county.

8. Maintenance

Washing instructions

Fabric:

Removable covers on the chair and on any accessories are labelled with the following washing instructions:



Detergent: Standard washing machine powder.
Washing: Gentle wash at 60 °C; spin at approx. 800 rpm.
Shrinkage: Covers may shrink by 2–3% on the first wash. Shrinkage is minimal on later washes.

NB: Do not dry the covers in a tumble drier. Do not use bleach on the fabric.

Leather:

Detergent: Clean water, with special washing agent for leather furniture.
Washing: Spray on the detergent, and soak it up with a sponge without rubbing.

It is best not to subject the leather covers to direct sunlight, high temperatures and very dry conditions. Maintain normal air humidity in the room.
Otherwise, normal maintenance with a vacuum cleaner is sufficient.

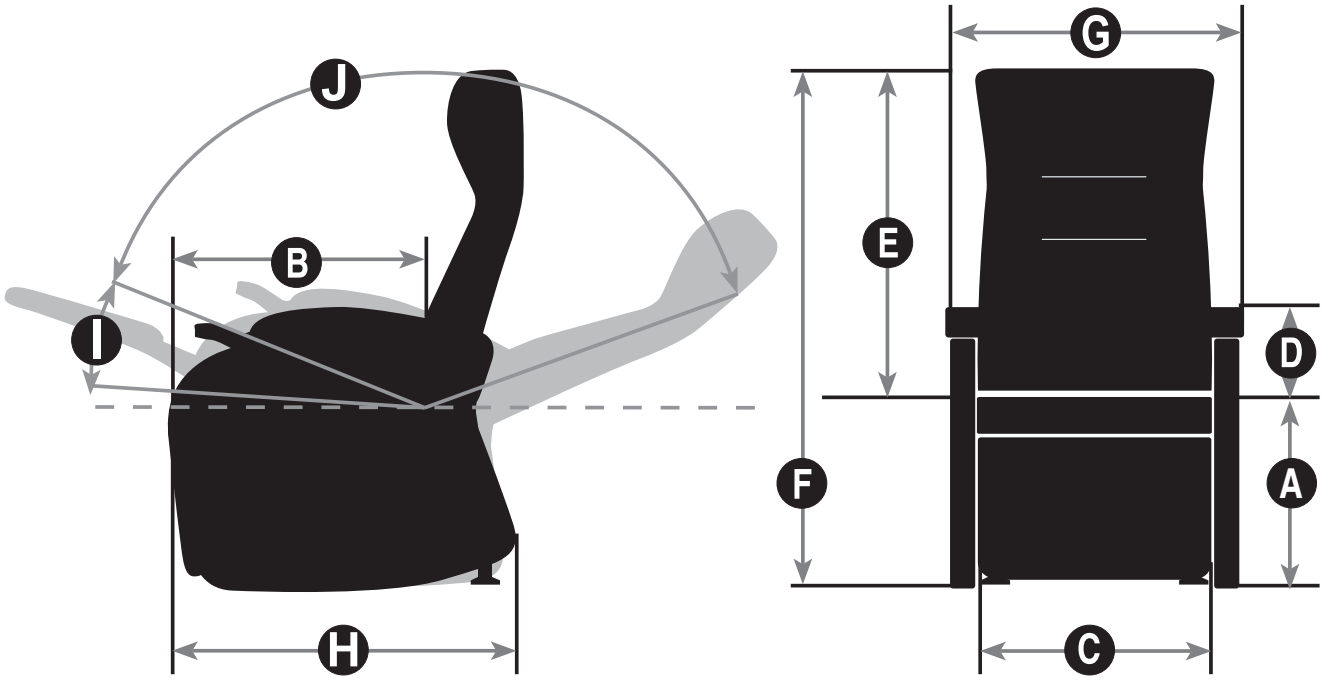
NB: Do not use chemicals.

Incontinence cover:

Detergent: Standard washing powder. Wash at 60 °C.

9. Technical specifications

Technical specifications and measurements



Ⓐ Seat height	44 (44–52)	**Ⓖ Total width**	67
Ⓑ Seat depth	47 (45–51)	**Ⓗ Total length**	76
Ⓒ Seat width	53	**Ⓘ Tilt**	16°
Ⓓ Armrest height	19	**Ⓙ Max. backrest angle**	138°
Ⓔ Backrest height	80	**Chair weight**	52.5 kg
Ⓕ Total height	117 (117–152)	**Max. user weight**	150 kg

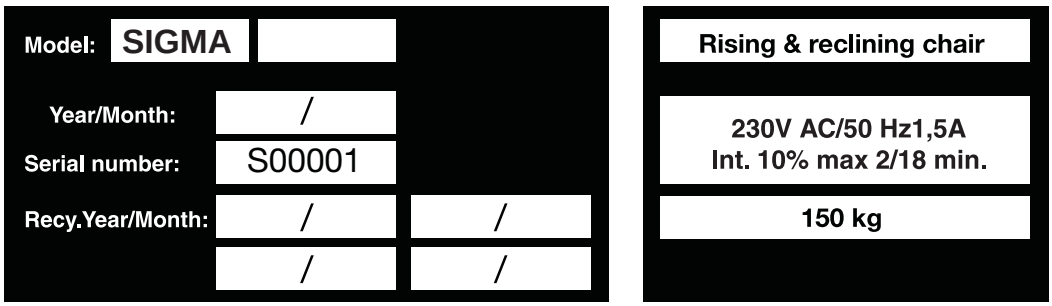
⚠ Warning!
Settings outside the adjustment range displayed in the table above may cause damage to the product.

10. Product labels and symbols

CE label



Product and type label



Explanation of symbols:



Recycle



CE labelling (indicating conformance with EU health, safety and environmental directives)

IPX4

Ingress protection rating



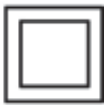
For indoor use



Type B equipment



Warning – read the user manual



Class II equipment

Int. 10%
Max. 2/18

The product must not be operated with maximum load for more than 2 minutes within an 18-minutes period.

11. Accessories

- L Neckrest with cotton wool
- L Neckrest with polystyrene beads
- Pressure relief seat cushion
- Transportwheels
- Swivel base
- Soft backrest cover
- Adjustable lumbar cushion

An extended range of accessories is available on request

Notes

Warning: The contents of this user manual are only intended as information. This information may be changed without warning and must therefore not be interpreted as an obligation on the part of Handicare AS. Handicare AS is not responsible, either legally or financially, for any errors or inaccuracies that may appear in this user manual. All products that are mentioned in this user manual are registered trademarks and cannot be used in other contexts without the consent of Handicare AS.

12. Nationwide service network

02-Utgitt april 2009 Handicare AS

Manufactured by:



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