

OWNER'S MANUAL

US

Stander

Seat for Permobil Powered Wheelchair



How to contact Permobil

Permobil Inc. USA

6961 Eastgate Blvd.
Lebanon, TN 37090
USA

Phone: 800-736-0925

Fax: 800-231-3256

Email: info@permobilusa.com

Head Office of the Permobil group

Permobil AB

Box 120, 861 23 Timrå, Sweden

Tel: +46 60 59 59 00. Fax: +46 60 57 52 50

E-mail: info@permobil.se

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Important Information about this Owner's Manual

We congratulate you on your choice of a product from Permobil. Our goal is for you to continue to feel satisfied with your choice of both vendor and product.

Before you begin using your seat and wheelchair, it is important that you read and understand the contents of these operating instructions and in particular the Safety Instructions.

These operating instructions are primarily intended to acquaint you with the functions and characteristics of the seat and how you can use them in the best manner possible. They also contain important safety and maintenance information, as well as describing possible problems that can arise during use.

Always keep these operating instructions handy in connection with your wheelchair, since the need for important information can arise concerning its use, safety and maintenance.

It is also possible to obtain information concerning our products from our home page on the Internet. You can find us at www.permobil.com.

All information, pictures, illustrations and specifications are based upon the product information that was available at the time that these operating instructions were printed. Pictures and illustrations that are found in these operating instructions are representative examples and are not intended to be exact depictions of the various parts of the seat.

We reserve the right to make changes to the product without prior notice.

Ordering of Documentation

If you are in need of another copy of the Owner's Manual, it can be ordered from Permobil, ask for item No. 205211-US-0.

TECHNICAL SUPPORT

In the event of technical problems, you should contact your dealer or Permobil Inc USA at 1-800-736-0925.

Always state the seat serial number when contacting Permobil to ensure that the correct information is provided.

SPARE PARTS & ACCESSORIES

Spare parts and accessories must be ordered through your dealer.

SCRAPPING THE SEAT

Contact Permobil Inc. for information about scrapping agreements in force.

WARRANTY

A warranty registration card is attached to each new wheelchair. The Permobil Inc. Product Warranty Information sets forth the conditions of the warranty.

Contact your dealer or Permobil Inc USA for information about the warranty period for this seat and wheelchair.

Safety Instructions - General

The seat is heavy and contains many moving parts. Special care must therefore be taken when it is used. Please read and follow all instructions and warnings in this manual before operating your seat together with your Permobil powered wheelchair. Incorrect use may both injure the user and damage the seat and wheelchair. In order to reduce these risks, you should read the Owner's Manual carefully, in particular the safety instructions and their warning texts.

Throughout this manual the following symbol will be used to note items that have significant importance to safety concerns:



CAUTION

Please use caution where this symbol appears.



WARNING

Please use extreme caution where this warning symbol appears. Failure to observe warnings can lead to personal injury and property damage, including damage to the wheelchair.

Permobil is not responsible for personal injuries or property damage resulting from any person's failure to follow the warnings and instructions in this manual. Permobil is not responsible for injuries or damage resulting from failure to exercise good judgment.

The final selection and purchasing decision about the type of power wheelchair and seating system to be used is the responsibility of the wheelchair user and his or her healthcare professional. Permobil Inc. is not responsible for inappropriate selections of wheelchair models and seating system or features or improper fitting of the wheelchair and seat.

Safety Instructions - General

Your wheelchair and seat was configured specifically for your needs as prescribed by your healthcare provider. Consult your healthcare provider before changing the seat position or making any other adjustment. Some adjustments may reduce your wheelchair's performance or safety or may not be appropriate for your needs.

It is also of the utmost importance that you devote sufficient time to become acquainted with the different buttons, the function and steering controls, the different adjustment possibilities of the seat, etc. of your wheelchair and its accessories before you begin using it.

Do not undertake your own first test drive without making sure that you have assistance in the immediate vicinity if you should need help.

In order to make sure that nothing happened to the wheelchair while it was being shipped to you, you should check the following items before beginning to use it:

- that all products ordered are included in the delivery, including operating instructions and possible other documentation. If you suspect that something is missing, then contact your supplier or Permobil for more information as soon as possible.
- that no transport-related or other damages have occurred to the wheelchair, seat and its accessories. If you discover that something has been damaged or in some other manner appears to be incorrect, then contact your supplier or Permobil for more information as soon as possible before you continue the checks.

Safety Instructions



WARNING

Prior to the seat being used for the first time, and after adjustments or other work has been done on the seat, the following safety checks should always be performed.

- Check that all supports, for example the chest support and knee stops, are mounted before using the wheelchair.
- Check that all belts on the seat are complete and correctly mounted.
- Check that the green indicator lamp on the button box is not lighted when the seat lift is raised above or lowered beneath the correct height for using the standing function.



WARNING

After adjustments and other types of work, the following checks should also be performed:

1. Check that the bolts for all actuators and the swivel rod head, see Fig.1, are properly tightened.
2. Check that the stop chain for the knee stops is mounted, see Fig. 2. The screws holding the chain must be tight.
3. Check that the locking screws for the height adjustment on the foot plate have been tightened, see Fig. 3:1. Check that the two locking nuts for the slope adjustment on the foot plate have been tightened, see Fig. 3:2.
4. Check that the screws (qty. 4) for the arm rest stop have been properly tightened on both sides of the seat.

Safety Instructions



Fig. 1. Swivel rod head, viewed from under the seat, right side.



Fig. 2. The knee stop's chain.

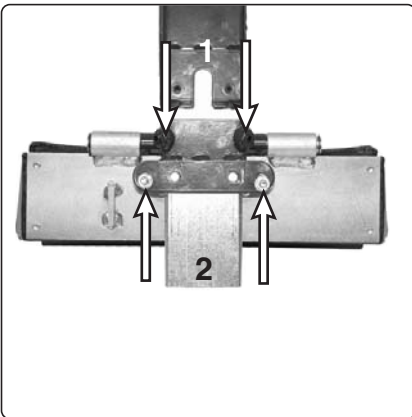


Fig 3. Legrest with foot plate viewed from the rear.



Fig. 4. Arm rest stop.

Safety Instructions



WARNING

Damage to the seat

It is most important that Permobil should be notified as soon as possible if the seat or its accessories have been damaged during transport, or damaged in any other way while running. There is a risk that the seat and its accessories can no longer be used safely.

Driving with Seat Lift/Seat Tilt

Make sure that no people are in the way of the seat when its functions are activated.

Be careful in making sure that nothing gets stuck between the chassis and the seat when the seat lift/seat tilt is operated. An elevated seat lift raises the center of gravity and increases the risk of tipping over. Always drive in low speed and only use the seat lift when driving on level ground and not on hills, ramps, slopes or other inclines. Using the seat lift while driving on inclines can lead to personal injury and property damage, including damage to the wheelchair.

Center of Balance

The possibility of this wheelchair tipping and the point where this wheelchair will tip forward, back or to the side depends on its center of balance. Please note that the following factors can affect the wheelchair's center of balance:

- Elevation of the seat
- Height and angle of the seat
- Body position or weight distribution
- Driving on an incline such as a ramp or a hill
- Use of a backpack or other accessories, depending on the amount of weight added.

Elevation to a standing position

Elevation to a standing position and driving in standing position must take place only on a level surface. When the wheelchair is in the elevated position, you must not stretch out in front of the chair due to an increased risk of tipping over.

If your wheelchair begins to move in an unexpected manner, immediately release the joystick to stop the wheelchair. Except in an emergency, do NOT use the on/off button to stop your wheelchair. This will cause the wheelchair to stop abruptly and may cause personal injury.

Safety Instructions



WARNING

Positioning Belt

Permobil recommends the user use the positioning belt while operating the wheelchair. Permobil also refers the user to the warnings regarding positioning belts while riding in a motor vehicle on page 15.

Transfer into and out of the chair

Be sure that the power is turned OFF before entering or leaving the wheelchair and before lifting the control side armrest.

When transferring into or out of the wheelchair, every precaution should be taken to reduce the distance between the wheelchair and the place to which the user is transferring. Overextending this distance can cause user to overexert, lose balance, or fall.

Permobil recommends that users transfer in the presence of or with the assistance of an attendant.

Use caution when bending or reaching.

Never use the joystick as a handhold or point of support.

Do not use foot plates or armrests as supports when transferring into or out of the wheelchair. The footplates and armrests are not designed to be weight-bearing structures. Excessive force may cause them to give way, resulting in personal injury or property damage, including damage to the wheelchair.

Safety Instructions



WARNING

Passengers

The wheelchair is not intended to transport passengers, regardless of the age of the passenger. The Maximum User Weight stated in this manual includes the user and any personal effects. The Maximum limit should not be exceeded. The wheelchair's maneuverability and stability can be degraded as a result.

Environmental Conditions

Protect your seat and wheelchair from exposure to any type of moisture, including rain, snow, or wash. Exposure to moisture can cause the chair to short-circuit, catch fire and cause personal injury or property damage. Do not operate your wheelchair if it has been exposed to moisture until it has dried completely.

If any of the shrouds or the joystick boot has cracks or tears, they must be replaced immediately. Failure to do so can allow moisture to enter the electronics and cause personal injury or property damage, including fire.

NOTE: *Extreme care should be exercised when using oxygen in close proximity to electric circuits and other combustible materials. Contact your oxygen supplier for instruction in use of oxygen.*

Safety Instructions



WARNING

Transport

The wheelchair must be transported in or with transport solutions that have been approved for this purpose.

Check that the wheelchair is properly secured and that the wheel locks are not disengaged. The wheelchair can be locked into position by running fastening straps through the brackets at the front and back. Also check that the fastening points on the transport vehicle are well-anchored.

A defectively fastened chair can cause serious injury to persons in the vehicle and serious damage to the vehicle.

Use Prohibited in Motor Vehicles

Permobil recommends that users NOT be transported in any kind of vehicle while in their wheelchair, unless the user is in an approved Permobil wheelchair configuration and has secured the wheelchair using a Permlock C. A user may ride in a Permobil C400 or C500 of appropriate configuration, in a motor vehicle, when properly secured by both a Permlock C wheelchair lockdown system AND a crash tested lap and shoulder belt which is secured to the motor vehicle. A "crash tested lap belt" does NOT include the positioning belt attached to your wheelchair. The wheelchair belt is designed to position the user in the wheelchair during ordinary use. It is not designed to protect the user against injury while riding in the wheelchair in a vehicle. Users who pursue riding in or driving vehicles in their wheelchairs assume a great risk. We urge them to give careful consideration to this pursuit.

The other safe alternative is that users be transferred into factory vehicle seating for transportation and use safety restraints made available by the auto industry. The only wheelchair transportation system Permobil recommends is a Permlock C used in combination with an approved Permobil wheelchair.

Never sit in your wheelchair while in a moving vehicle. In an accident or sudden stop you may be thrown from the chair and seriously injured or killed.

Permobil positioning belts are designed to position the user only and will not protect you in an a motor vehicle accident. You may even receive further injury from the belts.

Safety Instructions



WARNING

Maintenance and Service

Carry out only the service and maintenance which are stated in this Owner's Manual. All other service and maintenance must be performed by a qualified service technician authorized by Permobil to perform such service on Permobil products

During all work on the electrical system of the wheelchair, the connections to the poles of the battery must always be removed, or if equipped, the circuit breaker must be set to the "Off" position. To avoid the risk of electric shock, use extreme caution when using metal objects while working on the batteries. Short-circuiting can easily cause an explosion. Never perform service on the wheelchair without using protective gloves and goggles. Failure to do so can lead to personal injury.

Do not use parts or accessories not authorized by Permobil. Use of unapproved "aftermarket" accessories and parts may cause changes in the wheelchair, which may make the wheelchair unstable or uncontrollable. Such use may also void the warranty on the wheelchair.

Connecting any unapproved electrical or electronic devices to the wheelchair's electrical system can cause damage to the chair and cause the chair to become uncontrollable or drive erratically. Such use may also void the warranty.

The wheelchair and seat is heavy and contains many moving parts, which means that the risk of being caught between them is always present.

Safety Instructions



WARNING

Storage

The wheelchair and its accessories must always be shut off when they are not being used. Always store the wheelchair so that access for unauthorized individuals is avoided.

Never store the wheelchair in a room in which condensation can arise (mist or dampness on the surfaces) e.g. in pool areas, laundry rooms, or similar rooms.

If you are unsure as to how your wheelchair and its accessories should be properly stored, contact your supplier or Permobil for more information.

Damages/malfunctions on the wheelchair and its accessories

If you experience that the seat or wheelchair in any manner is not behaving as expected or if you suspect that something is wrong: Stop driving as soon as possible, shut off the wheelchair and contact your service contact or Permobil for more information.

It's also of greatest importance that Permobil be informed if the wheelchair and its accessories have been subjected to transport damages, damages during driving or damages due to another cause as soon as possible after the event. There exists a risk that the wheelchair and its accessories can no longer be used in a safe and secure manner.

General introduction

The Stander seat is designed to give the wheelchair user increased freedom of movement, however it can also be used as a rehabilitation aid. The seat is maneuvered using the wheelchair's control panel and button box. If the seat is equipped with stand-up driving functionality, the chair can then be driven at a reduced speed with the seat in the standing position.



WARNING

Elevation to a standing position must take place only on a level surface. When the wheelchair is in the elevated position, you must not stretch out in front of the chair due to an increased risk of tipping over.



WARNING

Driving in the standing position must only take place on a level surface. Driving in a standing position on an un-level surface increases the risk of tipping over.

Settings and adjustments

Arm rests

1. Loosen the two nuts on the inner side of the arm rest, see Fig. 5.
2. Adjust the height and slope of the arm rest.
3. Tighten the two nuts again.

Chest support

Depth adjustment

1. Unscrew and remove the two nuts on the inner side of the arm rest, see Fig. 5.
2. Move the chest support holder so that the chest support lines up at the appropriate depth. The depth can be adjusted in this manner in steps of 1".
3. Screw the holder firmly back in with the two nuts.

Height adjustment

1. Loosen the socket head cap screws for the locking ring on each side of the chest support, see Fig. 6:1.
2. Adjust the chest support to the appropriate height. Never adjust the height so high that the chest support bar becomes invisible below the bushing, see Fig. 6:2.
3. Tighten the locking ring's socket head cap screws again.

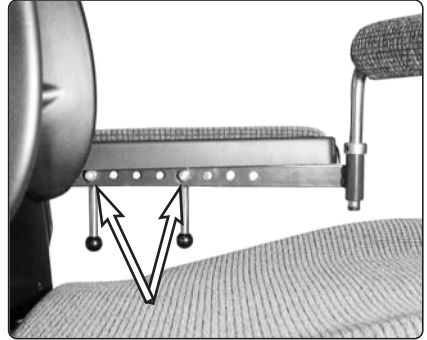


Fig. 5. Arm rest and chest support.

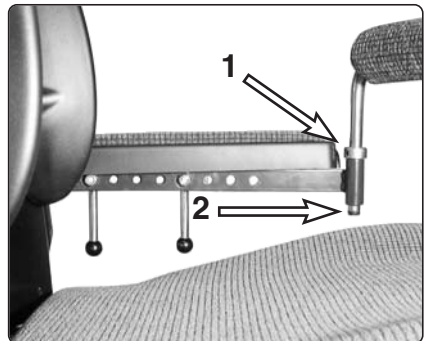


Fig. 6. Chest support.



WARNING

Make sure that both ends of the chest support bar are visible below the edge of the bushing after adjusting. Failure to do so could cause the chest support bar to fail.

Foot plate

Height adjustment.

1. Loosen the foot plate's two locking screws, see Fig. 7:1.
2. Adjust the foot plate to the desired height.
3. Tighten the screws again.

In the event of a need to adjust the height of the foot plate to an additional extent, the capability exists to turn the holder over which then allows the foot plate to be raised still further.

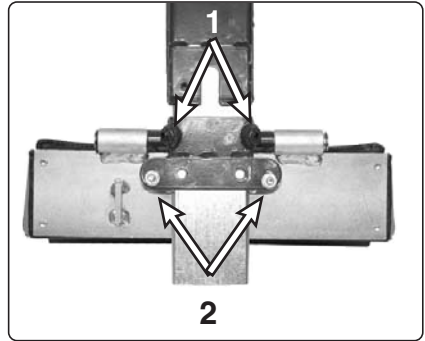


Fig. 7. Leg rest viewed from the rear.

Turning over a foot plate's holder.

1. Unscrew and remove the support wheel. For seats with stand-up driving they are mounted using two screws on each side of the leg rest. For seats without stand-up driving, they are mounted on the trailing edge of the foot plate, see Fig. 8-9.
2. Unscrew and remove the knee stops, which is mounted with a screw, see Fig. 10:1.
3. Unscrew and remove the six screws which are holding the foot plate, see Fig. 10:2.
4. Unscrew and remove the calf rests. They are mounted using two screws on the back side of the leg rest, see page 13.

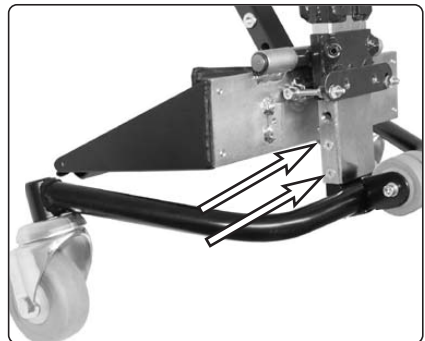


Fig. 8. Support wheel fastening for seats with stand-up driving.

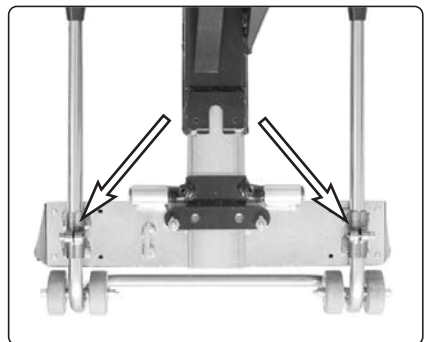


Fig. 9. Support wheel fastening for seats without stand-up driving.

5. Loosen the foot plate's two locking screws, see Fig. 7:1.
6. Turn the holder upside-down and refasten everything in the reverse order.

Slope adjustment

The slope of the foot plate can be adjusted by screwing the nuts on the foot plate's adjustment screws in or out, see Fig. 7:2.

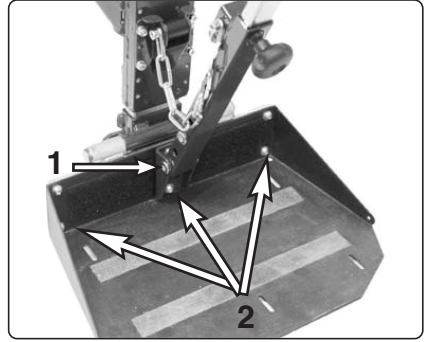


Fig. 10. Leg rest and foot plate

Knee stop

Height adjustment

1. Loosen the knee stops locking knob, see Fig. 11:2.
2. Move the traversing positioning screw on the leg rest to an appropriate position, see Fig. 11:1.
3. Tighten the knee stops locking knob.

Layout adjustment

1. Adjust the knee stop for the sitting position to a location approx. 1-1.5" in front of the leg. The adjustment is performed using the knob that is located on the rear edge of the seat's frame, see Fig. 12.

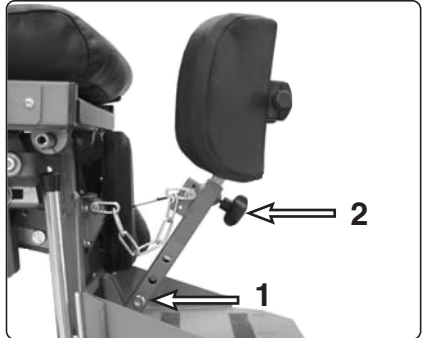


Fig. 11. Knee stops

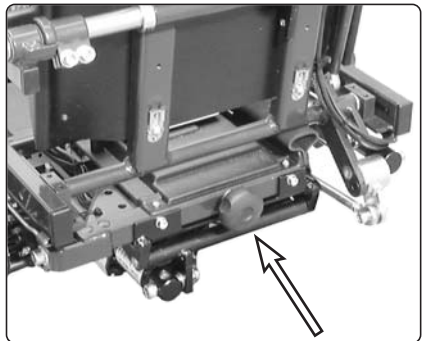


Fig. 12. Adjustment of the knee stops layout.

Leg rest

Slope adjustment

On seats with manual or electric backs, the slope of the leg rest can be adjusted in order to suit all possible users. On seats with a stand-up driving functionality, no adjustment of the leg rest's slope may be performed since doing so might cause damage to the seat and injury to the users.

1. Loosen the screw located on the leg rest's strut. The strut is located under the seat, behind the actuator on the left-hand side of the seat, see Fig. 13.
2. Set the leg rest to the desired angle.
3. Tighten the screw again.
4. Loosen the two screws holding the locking jamb to the leg rest's belt. The locking jamb is located behind the leg rest under the middle of the seat, see Fig. 14-15.
5. Push the leg rest up to its highest position, slide it along the belt.



WARNING

The leg rest must be pushed up to its uppermost position, any other position might lead to damage to the seat or injury to the users.

6. Tighten the belt's locking jamb again.



WARNING

Adjusting the slope of the leg rest for seats equipped with stand-up driving functionality is not permitted due to the risk of damage to the seat or injury to the users

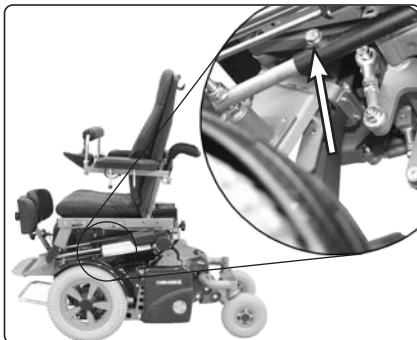


Fig. 13. Adjustment of the slope of the leg rest.

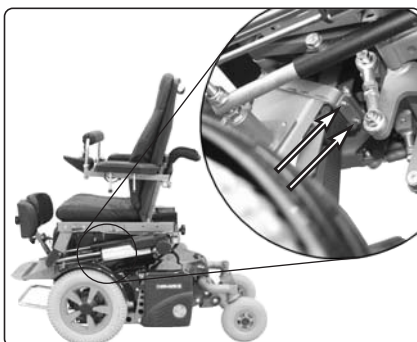


Fig. 14. The lock for the leg rest's belt is located on the rear of the leg rest.



Fig. 15. Readjustment of the leg rest's belt.

Calf rest (Accessory)

The calf rest is mounted with two screws, see Fig. 16:3.

Height adjustment

1. Loosen the two screws on the back side of each calf rest, see Fig.16:1.
2. Set to the desired height.
3. Tighten the screws again.

Forward/backward adjustment

1. Loosen the screw on the back side of each calf rest, see Fig 16:2.
2. Set the calf rest to the desired position.
3. Tighten the screws again.

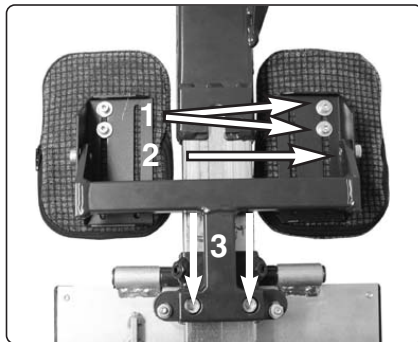


Fig. 16. Calf rest viewed from behind.

Trunk rest (Accessory)

Height adjustment

1. Loosen the knob on the back of the back rest, see Fig. 17.
2. Adjust the trunk rest to the desired height, see Fig. 18.
3. Tighten the knob again.

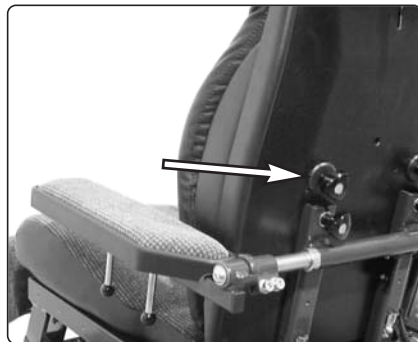


Fig. 17. Trunk rest adjustment.

Lumbar support

Vertical and depth adjustments

1. Remove the back cushion.
2. Adjust the lumbar support as required, see Fig. 18.
3. Mount the back cushion again.

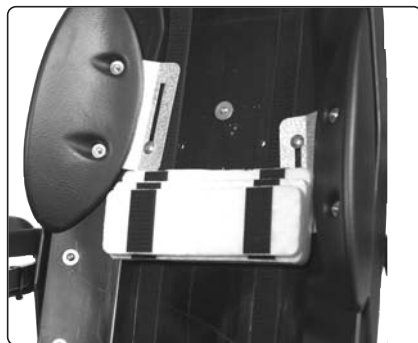


Fig 18. Trunk rest and lumbar support adjustment.

Head rest (Accessory)

Height adjustment

1. Loosen the knob on the back of the back rest, see Fig. 19:1.
2. Adjust the height of the Head rest as required.
3. Tighten the knob.

Forward/backward adjustment

1. Loosen the knob on the back of the back rest, see Fig. 19:2.
2. Adjust the head rest forwards/ backwards as required.
3. Tighten the knob.

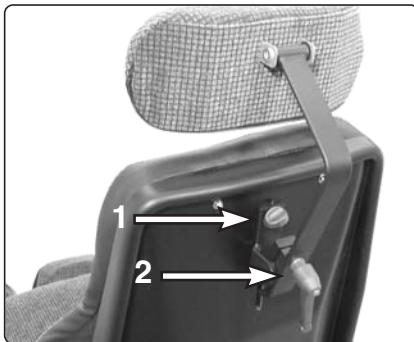


Fig. 19. Adjusting the head rest.

Tilt meter

When a person begins using the Stander seat, it can be difficult for the person to stand up completely - a great deal of training may be required in order to stand up at full height with the seat. The accompanying tilt meter can be mounted on the seat frame. It provides an indication of the progress the user is making.

The tilt meter, which has a self-adhesive back side, should be mounted on the side of the seat frame, see Fig. 21. Its placement can be varied depending upon the accessories that are mounted on the seat. Mount it where there is room for it. The entire tilt meter must be placed on the side of the seat frame, it is not permissible for edges to stick out. Mount the tilt meter so that it reads 0° in the sitting position.



Fig. 20. Tilt meter.

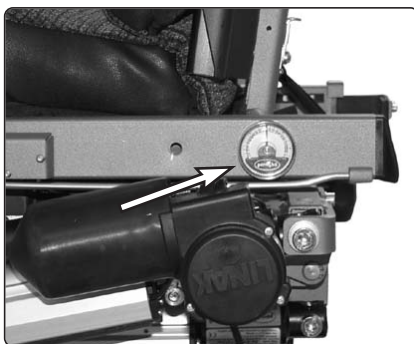


Fig. 21. Mounting of tilt meter.

Positioning Belt (Option)

Fitting the Positioning Belt

There are two screw holes on each side of the seat frame for fitting a positioning belt. The belt should be fitted in the hole nearest to where the backrest is attached.

1. Screw the belt in position with the snap lock on the side that suits the user best, and the other part with the buckle on the opposite side.
2. Check after fitting the belt that the buckle fits properly into the snap lock.

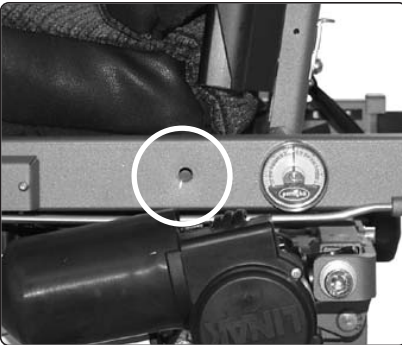


Fig. 22 Screw Holes for the Belt



Fig. 23 Fitted Belt



Fig. 24 Snap Lock for the Belt



WARNING

Permobil recommends the user use the positioning belt while operating the wheelchair. Permobil also refers the user to the warnings regarding the use of positioning belts while riding in a motor vehicle on page 15. Also check regularly that the belt is in good condition, and that it is not worn or damaged.

Control Panel, Swivelling Mounts

The position of the control panel can be adjusted lengthways into the optimum running position. It is also possible to turn the panel sideways to facilitate getting in and out of the wheelchair.

Length Adjustment

1. Loosen the screw on the panel mount and adjust the position of the panel as required.
2. Tighten the screw.

Angle Adjustment by means of the Friction Joint (Pilot+ Control Panel only)

By means of the friction joint it is possible to adjust how easily or how stiffly the panel turns out sideways.



Fig. 25 Length Adjustment Screw



Fig. 26 Friction Joint Handle



Fig. 27

Control Panel, parallel gliding panel mounts (Pilot+ Control Panel only)

The position of the control panel can be adjusted lengthways or up and down into the optimum running position. It is also possible to turn the panel sideways to facilitate getting in and out of the wheelchair.

Length Adjustment (as for the swivelling panel mount)

1. Loosen the screw on the panel mount and adjust the panel to the required position.
2. Tighten the screw.

Height Adjustment

1. Loosen the screw on the panel mount and adjust the panel to the required position.
2. Tighten the screw.



Fig. 28 Height Adjustment Screw



Fig. 29 The Control Panel swivelled sideways

Finishes Care and Maintenance

With regular care and maintenance, your Permobil will provide years of superior performance and satisfaction. To maintain the finish quality of your wheelchair, please follow the cleaning procedures provided below.

The instructions for the care and maintenance of Permobil products are provided to you as a service. No warranty is implied since results may vary.

Vinyl Upholstery

For normal cleaning, wash vinyl upholstery with a soft cloth or soft-bristled brush lathered with mild, nonabrasive soap and lukewarm water. Before the surface dries, wipe with a clean, dry cloth to remove any residue. This procedure may be repeated to remove stubborn dirt or stains. Ink spots can sometimes be removed by washing with soap and water followed by isopropyl alcohol.

Do not use any cleaning method that is not listed above, as other methods may attack the vinyl and cause eventual degradation.

Coated Metal

For normal cleaning, wash coated metal surfaces with a soft cloth soaked in detergent and warm water; rinse thoroughly and dry.

Remove scuff marks from low-gloss coatings with pre-softened paste wax, following the manufacturer's instructions.

Remove scuff marks and scratches from high-gloss coatings using automotive polishing compounds, either liquid or paste. After polishing, apply a pre-softened automotive paste wax to restore original sheen.

Plastic

For normal cleaning, wash plastic surfaces with a soft cloth soaked in mild detergent and warm water. Rinse thoroughly and dry with a soft cloth. Do not use solvents or abrasive kitchen cleaners.

Also see the washing instructions on the various cushions. If necessary, the covers can be taken off for cleaning.



CAUTION

Do not rinse the seat off with a water hose as it could damage the wheelchair's electronics. The wheelchair must always be shut off while it is being cleaned.

Finishes Care and Maintenance

Checks

Check the following at regular intervals:

- that the locking nuts on the swivel rod heads are tight.
- that the actuator is sitting firmly in the actuator mounting brackets.
- that the knee stop chain and the belt for the leg rest/foot plate are not worn and that the seams are intact.
- that the belt is in good condition, and that it is not worn or damaged.
- that moving parts such as arm rests and parallel struts are properly and firmly fastened and that all knobs have been tightened, see the safety instructions on pages 10-11.
- that the green indicator lamp on the button box is not lighted when the seat lift is raised above or lowered beneath the correct height for using the standing function.



CAUTION

In the event of technical problems, you should always contact your dealer, or Permobil Inc. USA. Using a seat with technical problems could result in damage on the seat and personal injury.

Transport

In order for the seat to be able to occupy less space when it is being transported, the back rest can be detached and placed on the seat.

1. Loosen the two locking knobs at the rear of the back rest, see Fig. 30:1
2. Open the two snap locks, see Fig. 30:2.
3. Place the back rest on the seat cushion.

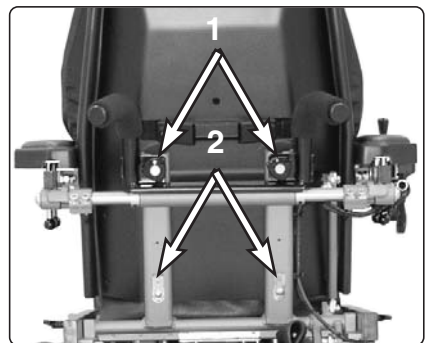


Fig. 30. Detachment of back rest.

Stander

Junior/Adult Manual Back

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Design and functionality

General

The seat consists of a seat frame with a seat plus a back rest, arm rest and leg rest. In order to facilitate the use of the elevation function, it is also equipped with knee stops and a chest support.

The figure below shows the seat removed from the chassis.

Stander Junior/Adult Manual Back



Fig. 31. Stander Junior Manual Back

- | | |
|------------------|------------------|
| 1. Back rest | 5. Chest support |
| 2. Arm rest | 6. Seat cushion |
| 3. Control panel | 7. Knee stop |
| 4. Calf rest | 8. Foot plate |

Seat

The seat has an electrically adjustable height. It can also be elevated up to a standing position. The seat cushions are made with foam rubber and covered with fabric or leatherette.

Back rest

The slope of the back rest is manually adjustable. The back rest's cushion is made with foam rubber and covered with fabric or leatherette.

Arm rest

The arm rest can be raised and its height and slope can be adjusted. The arm rest is covered with fabric or imitation leatherette.

Chest support

The chest support prevents the user from falling forward during elevation. The chest support is made with foam rubber and covered with fabric or leatherette.

Leg rest with foot plate

The foot plate is adjustable in height and slope.

Knee stop

The knee stop provides support during elevation. Its height and layout can be adjusted. The knee stop is made with foam rubber and covered with fabric or leatherette.

Head rest (Accessory)

The Head rest is mounted in a holder on the back rest. The height and angle of the Head rest can be adjusted. The Head rest is made with foam rubber and covered with fabric or leatherette.

Trunk rest (Accessory)

The trunk rest is mounted on the back rest. The height and width of the trunk rest are adjustable.

Calf rest (Accessory)

The calf rest is mounted on the leg rest. Its height and slope can be adjusted. The calf rest is made with foam rubber and covered with fabric or leatherette.

Control panel

The wheelchair's control panel is fastened on the arm rest. Its placement can be adjusted in order to attain the best comfort when maneuvering. The control panel can be mounted on the right or left arm rest. The Fig. at the right shows the functions which involve the seat. The other functions are described in the manual for the chassis.

Main power switch (32:1)

The main power switch functions as an on/off button for the wheelchair's power supply, and it must be switched on for the wheelchair to be able to function.

MODE (selector) (32:2)

This power switch activates the wheelchair's speed selector as well as the "Leverman" positioning functionality.

Seat control panel

Most of the seat's functions are controlled from the so-called button box. In order for some of the functions of the button box to work, the seat lift must be located in the "proper position". This is shown by the "Seat in position" indicator lamp (32:3).

Seat lift (32:4)

The seat is raised when the lever is pushed forward and lowered when the lever is pulled back.

Standing (32:6)

The seat is elevated to the standing position when the lever is pushed forward and lowered to the sitting position when the lever is pulled back.

Seat angle adjustment (Accessory) (32:7)

Adjusting the angle of the seat.



Fig. 32. Control panel.

- 1. Main power switch
- 2. Mode (Selector)
- 3. Indicator lamp
- 4. Seat lift
- 5. No function
- 6. Standing
- 7. Seat angle adjustment (Accessory)

Leverman (Joystick manager)

The Leverman allows control of the wheelchair's speed (5-state), the seat lift as well as the elevation function with the joystick. In other words, all functions which are normally controlled by the button box levers.

“Leverman” operation

1. Switch on the control panel's main power switch.
2. Press the "MODE" button. The battery indicator will light up and the speed selector's LEDs will blink.
3. Press the MODE button in order to proceed with the program.

The symbol for the right foot plate will light up.

4. Move the joystick to the right twice, then the symbol for the seat will light up.

By moving the joystick forwards/backwards the height of the seat will be raised/lowered.

5. Move the joystick to the right, and the symbol for the seat and back rest will light up.

This means that the standing function has been activated. It is controlled by moving the joystick forwards and backwards.

6. Press the "MODE" button, and the program will be exited. The chair is now ready to be driven.

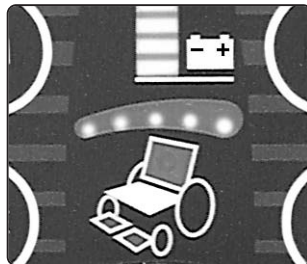


Fig. 33. Seat lift.

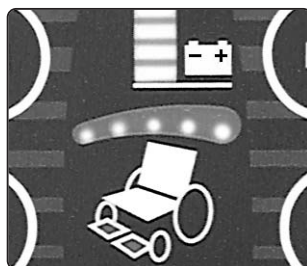


Fig. 34. Elevation.

Operation

General

The seat's functions can be controlled from either the control panel or the so-called button box.

- 1. Main power switch
- 2. Mode (Selector)
- 3. Indicator lamp
- 4. Seat lift
- 5. No function
- 6. Standing
- 7. Seat angle adjustment (Accessory)



Fig. 35. Control panel

Seat lift

The seat lift is controlled from the button box. The seat is raised when the lever is pushed forward and lowered when the lever is pulled back, see Figures 36-37.



Fig. 36. Seat lift adjustment.

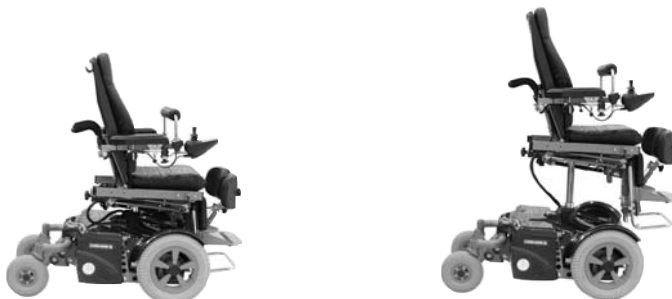


Fig. 37. Movement of the seat during adjustment of the seat height.

Standing

This function adjusts the seat to a standing position. In order for this function to operate, it is required that the seat lift be in the proper position, which is shown by the "Seat in position" indicator lamp lighting up. The seat is elevated to the standing position when the lever is pushed forward and lowered to the sitting position when the lever is pulled back, see Figures 38-39.

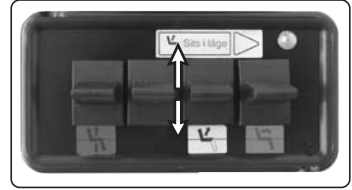


Fig. 38. Standing



Fig. 39. Movement of the seat during standing

Back rest angle

The slope of the back rest can be adjusted manually.

1. Loosen the back rest's locking screw, see Fig. 32.
2. Set the back rest to the desired angle.
3. Tighten the locking screw again.



WARNING

The back rest must not be carrying a load when it is adjusted. Otherwise there is a risk of personal injury.

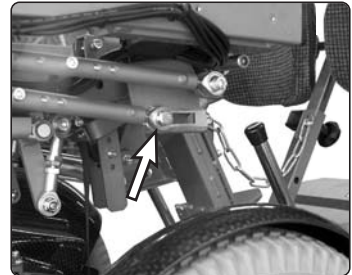


Fig. 40. The back rest's locking screw.



Fig. 41. Movement of the seat during adjustment of the slope of the back rest

Seat angle (Accessory)

The slope of the seat is adjusted with this function. In order for the function to operate, it is required that the seat be in the sitting position. By pulling the lever back, the seat will be tilted backwards. By pushing the lever forward, the seat is tilted forwards again, see Figures 42-43.

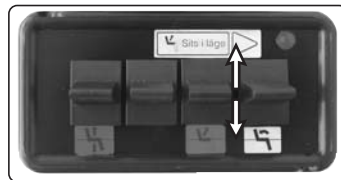


Fig. 42. Seat angle



Fig. 43. Movement of the seat when adjusting the angle of the seat.

Stander

Junior/Adult Electric Back

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Design and functionality

General

The seat consists of a seat frame with a seat plus a back rest, arm rest and leg rest. In order to facilitate the use of the standing function, it is also equipped with knee stop and a chest support.

The Fig. below shows the seat removed from the chassis.

Stander Junior/Adult Electric Back



Fig. 44. Stander Junior Electric Back.

- | | |
|------------------|------------------|
| 1. Back rest | 5. Chest support |
| 2. Arm rest | 6. Seat cushion |
| 3. Control panel | 7. Knee stop |
| 4. Calf rest | 8. Foot plate |

Seat

The seat has an electrically adjustable height. It can also be elevated up to a standing position. The seat cushions are made with foam rubber and covered with fabric or leatherette.

Back rest

The slope of the back rest is electrically adjustable. The back rest's cushion is made with foam rubber and covered with fabric or leatherette.

Arm rest

The arm rest can be raised and its height and slope can be adjusted. The arm rest is covered with fabric or leatherette.

Chest support

The chest support prevents the user from falling forward during elevation. The chest support is made with foam rubber and covered with fabric or leatherette.

Leg rest with foot plate

The foot plate is adjustable in height and slope.

Knee stop

The knee stop provides support during elevation. Its height and layout can be adjusted. The knee stop is made with foam rubber and covered with fabric or leatherette.

Head rest (Accessory)

The head rest is mounted in a holder on the back rest. The height and angle of the head rest can be adjusted. The head rest is made with foam rubber and covered with fabric or imitation leather

Trunk rest (Accessory)

The trunk rest is mounted on the back rest. The height and width of the trunk rest are adjustable

Calf rest (Accessory)

The calf rest is mounted on the leg rest. Its height and slope can be adjusted. The calf rest is made with foam rubber and covered with fabric or imitation leather.

Control panel

The wheelchair's control panel is fastened on the arm rest. Its placement can be adjusted in order to attain the best comfort when maneuvering. The control panel can be mounted on the right or left arm rest. The Fig. at the right shows the functions which involve the seat. The other functions are described in the manual for the chassis.

Main power switch (45:1)

The main power switch functions as an on/off button for the wheelchair's power supply, and it must be switched on for the wheelchair to be able to function.

MODE (selector) (45:2)

This power switch activates the wheelchair's speed selector as well as the "Leverman" positioning functionality.

Seat control panel

Most of the seat's functions are controlled from the so-called button box. In order for some of the functions of the button box to work, the seat lift must be located in the "proper position", this is shown by the "Seat in position" indicator lamp (45:3).

Seat lift (45:4)

The seat is raised when the lever is pushed forward and lowered when the lever is pulled back.

Back rest slope (45:5)

The back rest is tilted forwards when the lever is pushed forward and backward when the lever is pulled back.

Standing (45:6)

The seat elevates to the standing position when the lever is pushed forward and lowered to the sitting position when the lever is pulled back.

Seat angle adjustment (Accessory) (45:7)

Adjusting the angle of the seat.



Fig. 45. Control panel.

1. Main power switch
2. Mode (Selector)
3. Indicator lamp
4. Seat lift
5. Back rest slope
6. Standing
7. Seat angle adjustment (Accessory)

Leverman (Joystick manager)

The Leverman allows control of the wheelchair's speed (5-state), the seat lift, the back rest slope and the elevation function with the joystick. In addition to the speed, these other functions can also be controlled via the pushbuttons in the button box.

Leverman operation

1. Switch on the control panel's main power switch.

2. Press the **MODE** button.

The battery indicator will light up and the speed selector's LEDs will blink.

3. Press the **MODE** button in order to proceed with the program.

The symbol for the right foot plate will light up.

4. Move the joystick to the right twice, then the symbol for the seat will light up.

By moving the joystick forwards/backwards the height of the seat will be raised/lowered.

5. Move the joystick to the right, and the symbol for the seat and back rest will light up.

This means that the standing function has been activated. It is controlled by moving the joystick forwards and backwards.

6. Move the joystick to the right, and the symbol for the back rest will light up.

The slope of the back rest is controlled in a stepless manner by moving the joystick forwards or backwards.

7. Press the **MODE** button, and the program will be exited. The chair is now ready to be driven.

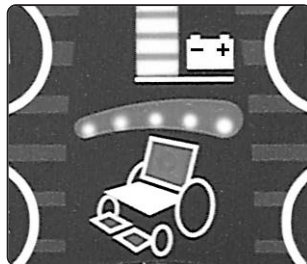


Fig. 46. Seat lift.

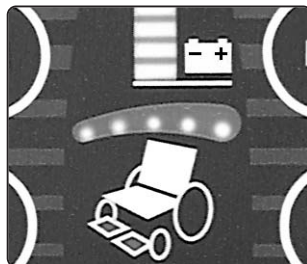


Fig. 47. Standing

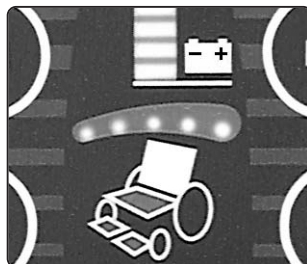


Fig. 48. Back rest slope

Operation

General

The seat's functions can be controlled from either the control panel or the so-called button box.

- 1. Main power switch
- 2. Mode (Selector)
- 3. Indicator lamp
- 4. Seat lift
- 5. Back rest slope
- 6. Elevation
- 7. Seat angle adjustment (Accessory)



Fig. 49. Control panel.

Seat lift

The seat lift is controlled from the button box. The seat is raised when the lever is pushed forward and lowered when the lever is pulled back, see Figures 50-51.



Fig. 50. Seat lift control

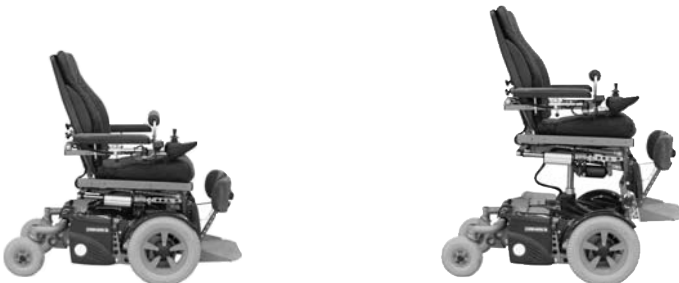


Fig. 51. Seat lift.

Back rest slope

The angle of the back rest is adjusted using this function. The back rest is tilted forwards when the lever is pushed forward and backwards when the lever is pulled back, see Figures 52-53.

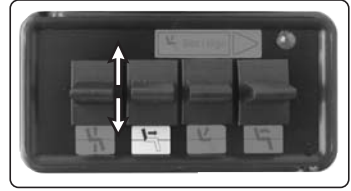


Fig. 52. Back rest slope control.



Fig 53. Back rest slope.

Standing

This function adjusts the seat to a standing position. In order for this function to operate, it is required that the back rest be tilted to its maximum forward position as well as the seat lift being in the proper position, which is shown by the “Seat in position” indicator lamp lighting up. The seat is elevated to the standing position when the lever is pushed forward and lowered to the sitting position when the lever is pulled back, see Figures 54-55.

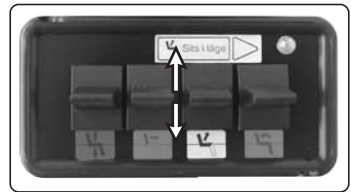


Fig. 54. Standing control.



Fig. 55. Standing

Seat angle (Accessory)

The slope of the seat is adjusted with this function. In order for the function to operate, it is required that the seat be in the sitting position. By pulling the lever back, the seat will be tilted backwards. By pushing the lever forward, the seat is tilted forward again, see Figures 56-57.

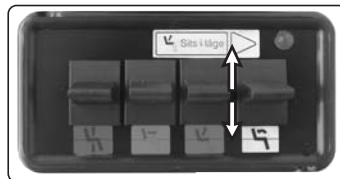


Fig. 56. Seat angle.



Fig. 57. Movement of the seat when adjusting the angle of the seat.

Stander

Junior/Adult Combi

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Design and functionality

General

The seat consists of a seat frame with a seat plus a back rest, arm rest and leg rest. In order to facilitate the use of the standing function, it is also equipped with knee stops and a chest support.

The figure below shows the seat removed from the chassis.

Stander Junior/Adult Combi



Fig. 58. Stander Junior Combi.

- | | |
|------------------|------------------|
| 1. Head rest | 6. Chest support |
| 2. Back rest | 7. Seat cushion |
| 3. Arm rests | 8. Knee stop |
| 4. Control panel | 9. Foot plate |
| 5. Calf rest | |

Seat

The seat has an electrically adjustable height. It can also be elevated up to a standing position. The seat cushions are made with foam rubber and covered with fabric or leatherette.

Back rest

The slope of the back rest is electrically adjustable along with the leg rest. The back rest's cushion is made with foam rubber and covered with fabric or leatherette.

Arm rest

The arm rest can be raised and its height and slope can be adjusted. The arm rest is covered with fabric or leatherette.

Chest support

The chest support prevents the user from falling forward during standing. The chest support is made with foam rubber and covered with fabric or leatherette.

Leg rest with foot plate

The foot plate is adjustable in height and slope. The leg rest's slope is electrically adjustable along with the back rest.

Knee stop

The knee stop provides support during elevation. Its height and layout can be adjusted. The knee stop is made with foam rubber and covered with fabric or leatherette.

Head rest (Accessory)

The Head rest is mounted in a holder on the back rest. The height and angle of the Head rest can be adjusted. The Head rest is made with foam rubber and covered with fabric or leatherette.

Trunk rest (Accessory)

The trunk rest is mounted on the back rest. The height and width of trunk rest are adjustable.

Calf rest (Accessory)

The calf rest is mounted on the leg rest. Its height and slope can be adjusted. The calf rest is made with foam rubber and covered with fabric or leatherette.

Control panel

The wheelchair's control panel is fastened on the arm rest. Its placement can be adjusted in order to attain the best comfort when maneuvering. The control panel can be mounted on the right or left arm rest. The Fig. at the right shows the functions which involve the seat. The other functions are described in the manual for the chassis.

Main power switch (59:1)

The main power switch functions as an on/off button for the wheelchair's power supply, and it must be switched on for the wheelchair to be able to function.

MODE (selector) (59:2)

This power switch activates the wheelchair's speed selector as well as the "Leverman" positioning functionality.

Button box

Most of the seat's functions are controlled from the so-called button box. In order for some of the functions of the button box to work, the seat lift must be located in the "proper position". This is shown by the "Seat in position" indicator lamp (59:3).

Back rest/leg rest adjustment (59:4)

Controls the slope of the back rest and leg rest.

Vertical/Horizontal adjustment (59:5)

To move the seat to a standing or lying position, the seat lift must first be in the proper position.

Standing (59:6)

The seat is elevated to the standing position when the lever is pushed forward and lowered to the sitting position when the lever is pulled back.

Seat angle adjustment (59:7)

Adjusting the angle of the seat.

Seat lift (59:8)

The seat is raised when the lever is pushed forward and lowered when the lever is pulled back.



Fig. 59. Control panel.

- | | |
|----------------------------------|-----------------------------------|
| 1. Main power switch | 5. Vertical/horizontal adjustment |
| 2. Mode (Selector) | 6. Standing |
| 3. Indicator lamp | 7. Seat inclination adjustment |
| 4. Back rest/leg rest adjustment | 8. Seat lift |

Leverman

The Leverman allows control of the wheelchair's speed (5-state), vertical/horizontal adjustments, standing, the seat lift, the seat angle and back rest/leg rest adjustments with the joystick. In addition to the speed, these other functions can also be controlled via the pushbuttons in the button box.

Leverman operation

1. Switch on the control panel's main power switch.

2. Press the **MODE** button.

The battery indicator will light up and the speed selector's LEDs will blink.

3. Press the **MODE** button in order to proceed with the program.

The symbol for the right foot plate will light up. This means that the vertical/horizontal control function has been activated. It is controlled by moving the joystick forwards or backwards.

4. Move the joystick to the right once, and the symbol for the left foot plate will light up.

This will cause the standing function to be activated. It is controlled by moving the joystick forwards or backwards.

5. Move the joystick to the right, and the symbol for the seat will light up.

By moving the joystick forwards/backwards, the height of the seat will be raised/lowered.

6. Move the joystick to the right, and the symbol for the seat and back rest will light up.

This will cause the seat tilt function to be activated. It is controlled by moving the joystick forwards or backwards.

7. Move the joystick to the right, and the symbol for the back rest will light up. The angle of the back rest is controlled steplessly by moving the joystick forwards or backwards.

8. Press the MODE button, and the program will be exited. The chair is now ready to be driven.

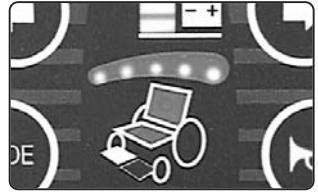


Fig. 60. Vertical/horizontal adjustment

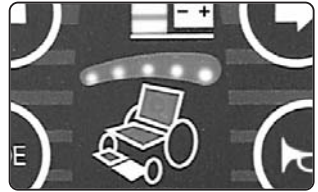


Fig. 61. Standing

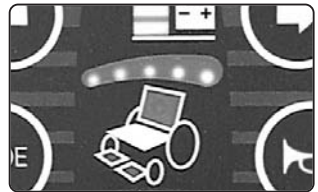


Fig. 62. Seat lift

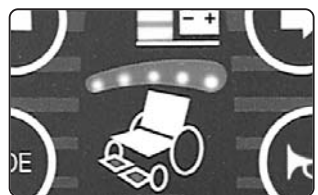


Fig. 63. Seat angle

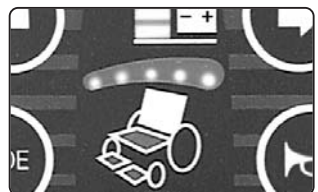


Fig. 64. Back rest/leg rest adjustment

Operation

General

The seat's functions can be controlled from either the control panel or the so-called button box.

- | | |
|----------------------------------|-----------------------------------|
| 1. Main power switch | 5. Vertical/horizontal adjustment |
| 2. Mode (Selector) | 6. Standing |
| 3. Indicator lamp | 7. Seat inclination adjustment |
| 4. Back rest/leg rest adjustment | 8. Seat lift |



Fig. 65. Control panel.

Seat lift

This function adjusts the height of the seat. By moving the lever forwards, the seat will be raised. By moving the lever backwards, the seat will be lowered again, see Figures 66-67.

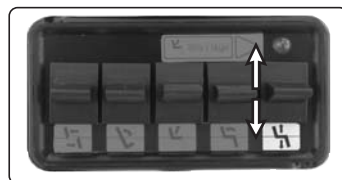


Fig. 66. Seat lift.



Fig. 67. Moving the seat by adjusting the height of the seat.

Back rest/leg rest adjustment.

This function adjusts the angle of the back rest and leg rest. By pushing the lever forward, the back rest is tilted backwards and the leg rest out. By pulling the lever back, the back rest and leg rest are moved back to their prior positions, see Figures 68-69.



Fig. 68. Back rest/leg rest adjustment



Fig. 69. Movement of the seat when adjusting the leg rest/back rest.

Vertical/Horizontal adjustment

This function adjusts the seat to a standing and lying position. In order for this function to operate, it is required that the back rest be tilted to its maximum forward position as well as the seat lift being in the proper position, which is shown by the "Seat in position" indicator lamp lighting up. By pushing the lever forward the chair rises up to the standing position, and by subsequently pulling the lever back the chair descends to the lying position, see fig. 70-71. Use the function for adjusting the back rest/leg rest and to move back to a sitting position, see Figures 68-69.

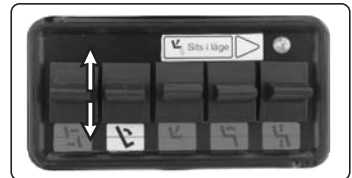


Fig. 70. Vertical/horizontal adjustment.



Fig. 71. Movement of the seat during vertical/horizontal adjustment.

Standing

This function adjusts the seat from a sitting to a standing position and back again. In order for this function to operate, it is required that the seat lift be in the proper position, which is shown by the "Seat in position" indicator lamp lighting up. By pushing the lever forward, the seat is elevated to the standing position. By pulling the lever back, the seat will be lowered into the sitting position again, see Figures 72-73.

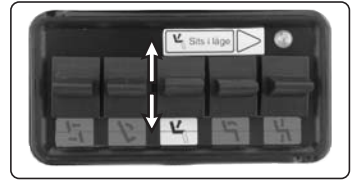


Fig. 72. Standing.



Fig. 73. Movement of the seat during standing

Seat angle (Accessory)

The slope of the seat is adjusted with this function. In order for the function to operate, it is required that the seat be in the sitting position. By pulling the lever back, the seat will be tilted backwards. By pushing the lever forward, the seat will be tilted forwards again, see Figures 74-75.



Fig. 74. Seat angle.



Fig. 75. Movement of the seat when adjusting the angle of the seat.

Data

Chair dimensions	Junior	Adult
Seat height	23"/25"	23"
Seat height with electric seat lift	23"-31"/25"-32"	23"-31"
Seat width.....	17"/19"	17"/19"
Seat depth	14"-18"	18"-24"
Back rest height	22"/24"	22"/24"
Arm rest height	6"-11"	6"-11"
Distance between arm rests.....	14"/16"/18"	14"/16"/18"
Distance between seat cushion and foot plate	11"-13"	19"-22"
Back rest angle.....	90°-180° *	90°-180° *
Leg rest angle.....	90°-175° *	90°-175° *
Max. user weight Manual Back	155 lbs	220 lbs
Max. user weight Electric Back	155 lbs	220 lbs
Max. user weight Combi.....	155 lbs	220 lbs

* Depending on fittings and accessories.

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