OWNER'S MANUAL

US

PS Seating System
How to Contact Permobil

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Important Information about this Owner 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 content 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.permobilusa.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.

Specially Adapted Product

If your seat is marked with the decal “specially adapted product”, it has been adapted to your requirements and wishes. This means that its design and functions may differ from the text in the present Owner’s Manual or from the design and functions of other seats of the same type.

General Introduction

The Positioning System is an ergonomically designed seat allowing numerous adjustments. It is designed for users up to a maximum of 300 Lbs. The seating system allows for easy adjustments of the Manual Recline, Armrests, and Footplates. This Owner’s Manual is current as of the date of publication. Product specifications are subject to change without notice.

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 chassis serial number when contacting Permobil to ensure that the correct information is provided.

Spare Parts and Accessories

Spare parts and accessories must be ordered through your dealer.

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 chair.
Safety Instructions

General
A power wheelchair is a motorized vehicle and special care must therefore be taken when it is used. Please read and follow all instructions and warnings in this manual before operating your Permobil powered wheelchair. Incorrect use may both injure the user and damage the chair. In order to reduce these risks, you should read the Owner’s Manual carefully, in particular the safety instructions and their warning texts.

All fasteners on this seating system must be installed using the proper torque. A Torque Table for the various sizes of fasteners is provided in this manual.

Seating systems with fabric back rests should be inspected regularly for tearing, particularly around the blind rivets. Failure to replace significantly torn back rests can result in the back rest giving way and causing personal injury.

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

![Warning]

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 electric wheelchair 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 or features or improper fitting of the wheelchair.

Modifications
Any unauthorized modifications to the wheelchair or its various systems may increase the risk of personal injury and property damage, including damage to the wheelchair.

All modifications to and interventions in the vital systems of the wheelchair must be performed by a qualified service technician authorized by Permobil to perform such service on Permobil products.

Warning
Do not modify your wheelchair in any way not expressly authorized by Permobil. Unauthorized modifications can lead to personal injury and property damage, including damage to the wheelchair.

Prior to Riding
In some instances, including where certain medical conditions exist, users should practice operating their wheelchair under the supervision of an assistant who is familiar with the operation of the wheelchair and with the abilities and limitations of the user.
Always be sure that tires are inflated properly.

Weight Limitations
The maximum user weight for your Permobil is set forth in the Specification section of this manual. Operation of the wheelchair by users who exceed the maximum allowable user weight can lead to personal injury and property damage, including damage to the wheelchair, as well as voiding any applicable warranty to the wheelchair.
Warning
Exceeding the maximum user weight voids your warranty and can result in personal injury and property damage, including damage to the wheelchair. Permobil is not responsible for injuries or damage resulting directly or indirectly from excessive user weight.

Warning
Do not transport passengers or excessive loads on the wheelchair. Do not allow others, including small children, to ride on the chair with user. Carrying passengers or heavy objects may cause the wheelchair to become unstable and uncontrollable which could result in tipping of the wheelchair, personal injury, or property damage, including damage to the wheelchair.

Operation – General
Carefully follow the recommendations in the Handling section of the chassis manual to prevent the risk of accidents in connection with driving.
Do not let children drive the wheelchair without supervision. Do not drive the wheelchair on public streets or roadways. Obey all local pedestrian rules and be aware that vehicle drivers may have difficulty seeing you. Permobil recommends the use of wheelchair lights at all times user is riding near public rights of way. Use extreme caution when driving near unprotected ledges, drop-offs or on elevated surfaces. Unintended movement or excessive speed in these areas can lead to personal injury or property damage. Do not drive the wheelchair over any curbs or edges higher than specified in the chassis manual. When driving over a curb or similarly elevated surface, you must cross the surface at a 90 degree angle (perpendicular). Crossing such surfaces at any other angle may result in the wheelchair tipping. Reduce your speed when driving on uneven terrain or soft surfaces. Do not use your wheelchair on stairs or escalators. Always use an elevator.

Warning
Some physical limitations or use of medication, either prescribed or over-the-counter, may limit your ability to operate your wheelchair safely. Be sure to consult with your physician about your physical limitations and medications. Do not operate your wheelchair under the influence of alcohol. Consumption of alcohol may impair your ability to operate your wheelchair safely.

Warning
Do not lift or move the wheelchair by any of its removable parts. Doing so could lead to personal injury and property damage, including damage to the wheelchair.

Operation – Inclines
When driving downhill, select the slowest speed and proceed with caution. Driving down an incline in a front wheel drive wheelchair can shift the user’s center of gravity forward. If the wheelchair rolls faster than you would like, stop the wheelchair by releasing the joystick and begin descending again at a slower speed.
Avoid sudden stops or starts. Stop by releasing the joystick rather than by turning the power off.
Turning off power while the wheelchair is in motion will cause the wheelchair to stop suddenly.
Be sure to keep all recommended positioning belts securely fastened at all times.
When driving up an incline, try to keep moving at a steady speed. Stopping and starting the chair while moving up an incline makes the wheelchair more difficult to control.
Do not drive up or down slopes with a gradient greater than indicated in the technical specifications section of the manual, there is a risk that the wheelchair will not maneuver safely.
Do not drive the wheelchair where the sideways gradient is more than indicated in the technical specifications section of the manual, there is a risk of tipping over.
Do not drive up or down ramps that are not equipped with proper edge protection along the sides of the ramp to prevent the wheelchair from falling off of the ramp.
Warning
When driving up an incline, be sure to drive your wheelchair straight up the incline (perpendicular). Driving at an angle up an incline increases the risk of tipping or falling. Use extreme caution when driving up an incline.

Warning
Do not drive down or up a hazardous incline, such as a surface covered with snow, ice, or wet leaves or a surface that is uneven. Also, avoid driving on ramps that do not have proper edge protection.

Operation – Turning
Turning your wheelchair at high speeds can create the possibility of the wheelchair tipping and personal injury. The possibility of tipping can be increased by high turning speed, sharp turns, uneven surfaces, abrupt changes in direction, and driving from an area of low traction (e.g. lawn) to an area of high traction (e.g. sidewalk).

Warning
To protect against tipping, personal injury and property damage, reduce speed when turning.

Operation – Freewheel Mode
In order to prevent the wheelchair from rolling away, ensure that the wheelchair is on a level and dry surface before releasing the brakes.

Warning
In order to avoid personal injury do not use your Permobil in freewheel mode without an attendant present. Do not attempt to put the wheelchair in freewheel mode by yourself while seated in it.

Warning
Do not put your Permobil in freewheel mode while on an incline. This could cause the wheelchair to roll on its own, causing injury and property damage, including damage to the wheelchair.

Operating the seat lift
Ensure that nothing is caught between the chassis and the seat when the seat lift is operated. Raising the seat lift raises the center of gravity and increases the risk of tipping. Therefore, you should only use the seat lift on level ground and not on hilly ground.

Charging the batteries
The batteries must be charged in a well-ventilated room, not in a closet. Do not charge the batteries in a bathroom or wet room. Use only chargers with a maximum 10 A charging current (mean value). When the charger is connected, the chair must not and cannot be driven.

Use Prohibited in Motor Vehicles
Currently, the Department of Transportation has not approved any tie-down or restraint system in a moving vehicle of any type to transport a person while seated in a wheelchair. Permobil recommends that users NOT be transported in any kind of vehicle while in their wheelchair. The only safe alternative is that users be transferred into factory vehicle seating for transportation and use safety restraints made available by the auto industry. Permobil does not recommend any wheelchair transportation systems.
Warning
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.

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

When transporting the wheelchair in a vehicle, ensure that the wheelchair is properly secured. If the chair is not properly secured and comes loose, it can cause serious injury to persons in the vehicle and serious damage to the vehicle.

Environmental Conditions

Warning
Protect your 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.

Warning
Do not operate your wheelchair in icy or slippery conditions. These conditions can lower the performance and safety of your wheelchair which could lead to an accident, personal injury and property damage, including damage to the wheelchair.

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

Service
Carry out only the service and maintenance which are stated in the 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 connection to the negative pole of the battery must always be removed. 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 caused the chair to become uncontrollable or drive erratically. Such use may also void the warranty on the wheelchair.

Warning
Your wheelchair 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.
Handling

General
This wheelchair is designed for use both inside and outside. When driving inside, take normal care. Outside you must remember to drive very slowly on steep downhill slopes and not to drive over curbs and other obstacles higher than recommended. Do not make the first test run on your own. The test run is to find out how you and the wheelchair work together and you may need some assistance.

Safety Circuits
Permobil products are equipped with safety circuits. Inhibit circuits prevent the wheelchair from driving under certain conditions. Speed reduction circuits limit the wheelchair’s maximum speed under certain conditions. Limit switch circuits limit the wheelchair’s functions under certain circumstances. Overload protection circuits shut the wheelchair off in case of an overload. The user should stop using the wheelchair immediately and consult an authorized Permobil distributor if any of these circuits should become disabled.

Any attempt to modify the safety circuits will result in unsafe operation of the wheelchair and could cause the chair to become unstable or uncontrollable. Such modifications may also void the wheelchair’s warranty.

Transferring to and from the Wheelchair

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.

⚠️ Warning
Do not use foot plates or armrests as supports when transferring into or out of the wheelchair. The foot plates 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.

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

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
Warning
Raising the seat lift raises the center of gravity and increases the risk of tipping. 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.

Driving

Warning
To prevent unintended movement from accidental joystick contact or electromagnetic interference (EMI), turn off power when seated in a stationary position. Failure to do so may result in personal injury or property damage, including damage to the wheelchair.

Warning
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.

Transporting the Wheelchair

Air transport
Please refer to the Air Carrier Access Act at 49 USC § 41705 and accompanying regulations at 14 CFR Part 482 for specific guidelines and regulations pertaining to transporting wheelchairs on aircraft in the United States. Further guidelines on transporting powered wheelchairs and batteries can be found at the Department of Transportation hazardous materials regulations (49 CFR Parts 171, 172, 173, 175). Due to the variance in aircraft sizes and cargo space dimensions, Always contact the airline prior to traveling or purchasing a ticket to make sure that your Permobil can be accommodated.

Batteries
In the event that the airline needs to remove the batteries for wheelchair transport, see the Owner’s Manual for the chassis for how to remove the batteries.

The dimensions and weight of the wheelchair
The weight and dimensions of the wheelchair are significant in relation to the type of airplanes in which the wheelchair is to be transported. Always check with the airline before traveling to make sure that the aircraft in question can accommodate your Permobil.

NOTE: The weight and dimensions of the wheelchair listed in this manual are based on the most common configurations of the wheelchair. Wheelchairs which have had custom modifications or additional features may have different dimensions or weights. Be sure to measure the dimensions of your particular chair whenever exact dimensions are critical or required.

Preventing damage
The electronic components, as well as other critical parts, in your wheelchair are highly sophisticated and fragile and care must be taken to protect them. When transporting your wheelchair by air, we recommend that you cover the control panel with soft, shock-absorbing material (foamed plastic or similar) and fold it in towards the back rest. Protect other fragile parts in a similar fashion. Tape any loose cables to the seat frame or covers.
Maintenance

⚠️ Warning

During all work on the electrical system of the wheelchair, the connection to the negative pole of the battery must always be removed.

⚠️ Warning

Take care when using metal objects in connection with work on the batteries. Short-circuiting can easily cause an explosion. Always use protective gloves and goggles.

⚠️ Warning

Batteries and related accessories may contain lead and lead compounds. Always wash hands after handling.

General

- Batteries discharge themselves and must be charged and maintenance-charged to prevent them from being damaged.
- The wheelchair must not be stored in rooms in which condensation occurs (mist or moisture on surfaces), i.e. laundry or similar rooms.
- The wheelchair may be stored in an unheated room. From the point of view of corrosion, it is best for the chair if the room is a few degrees warmer than the surroundings, which keeps the room drier.

Short-term storage

In order for the charging process to produce a battery with good capacity, the temperature in the storage room should not be less than 41°F. Storage at less than 41°F increases the risk that the battery is not fully charged when it is used and also increases the risk of corrosion.

Long-term storage

The chair may be stored in an unheated room but the battery should be maintenance-charged at least once per month. See also Short-term storage above.

Maintenance and Repairs

To ensure that your wheelchair works well, you must inspect, maintain, and obtain routine service on it regularly. Every wheelchair is subject to wear and tear between the moving parts and also due to the strains and stresses of typical use. Therefore, you must know how the wheelchair works, how to use it correctly, and how to maintain it. Preventive maintenance will minimize the risk of component failure. If you look after your wheelchair, it will work well and the risk of faults is reduced.
Features

General:
The seating system consists of a seat frame with legrests, a seat and backrest, and armrests. Tubing sizes of 7/8” and 1” are utilized for ease of adapting popular backrests and accessories.

Seating adjustments:
The chair’s broad range of seating adjustments allows the user to obtain a comfortable position for a wide range of situations. The seating system is easily configurable to different sizes. Footplates are movable for external rotation.

Legrest configurations:
Fixed 70° legrest
Optional swing-away 70° removable legrest
Optional calfrests

Armrest configurations:
Fixed height armrest
Optional height adjustable armrest
Note: Both styles of armrests are available with a variety of armpads listed below.
Standard 2” x 12”
Optional Corpus II 4” x 10,12,14 or 16”
Optional Multi-functional armrest 4” x 12”

Backrest configurations:
Sling back
Optional metal back shell and foam cushion
Optional angle adjustable headrest

Seat lift:
The Positioning System can be fitted with an electrically operated seat lift. An adjustment device which is operated from the control panel makes it possible to raise the seat up to 7 ¾” in order to adapt the height of the seating system comfortably to tables, benches, etc. If the seat is raised from it’s lowest position, the wheelchair’s maximum speed is reduced by 50 %.

Seat tilt:
The Positioning System can be fitted with an electrically operated seat tilt which is operated from the control panel. This function makes it possible to adjust the angle of the seat.

![Diagram of wheelchair features](Fig.1)
Optional Backrest Manual Recline Adjustment

If so equipped, the backrest recline angle can be adjusted using tools to relocate the backrest to the desired position. (See Fig. 1)

To change the backrest position:

- Remove the nuts and washers from the bolts holding the backrest in position.
- Grasp the backrest assembly with one hand for support.
- Pull the bolts out and rotate the backrest to the desired position and put the bolts back in to secure the backrest.
- Replace and tighten the nuts and washers.
Optional Headrest Adjustments

- The headrest height and angle can be adjusted to locate the headrest in the desired position. (See Fig. 2)

To change the headrest position:

Loosen the knob as shown in Fig. 2 and slide the head rest up or down to the desired position. To adjust the headrest angle, loosen the knob as shown in Fig. 2 and the screws on the back of the bracket. Rotate the headrest to the desired position and tighten the bolts and knob to secure the headrest. The headrest can be removed by loosening the knob and lifting the headrest straight up.
Seat Sizing Adjustments

Seat Width

Note: Width adjustment requires changing the backrest cushion. See the tables below for the proper cushion and/or backrest shell. Seat widths of 20” and 22” requires installation of additional fasteners for seat frame support. The additional fasteners are shown in Fig. 5

<table>
<thead>
<tr>
<th>Seat Width</th>
<th>Backrest Cushion Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>16”</td>
<td>60-300-016</td>
</tr>
<tr>
<td>18”</td>
<td>60-300-018</td>
</tr>
<tr>
<td>20”</td>
<td>60-300-020</td>
</tr>
<tr>
<td>22”</td>
<td>60-300-022</td>
</tr>
</tbody>
</table>

Sling Back

Fig. 3
Seat Sizing Adjustments

Seat Width

Note: Width adjustment requires changing the backrest cushion. See the tables below for the proper cushion and/or backrest shell. Seat widths of 20” and 22” requires installation of additional fasteners for seat frame support. The additional fasteners are shown in Fig. 5

Metal Back Shell

<table>
<thead>
<tr>
<th>Seat Width</th>
<th>Backrest Shell</th>
<th>Cushion Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>16”</td>
<td>60-310-016</td>
<td>60-311-016</td>
</tr>
<tr>
<td>18”</td>
<td>60-310-018</td>
<td>60-311-018</td>
</tr>
<tr>
<td>20”</td>
<td>60-310-020</td>
<td>60-311-020</td>
</tr>
<tr>
<td>22”</td>
<td>60-310-022</td>
<td>60-311-022</td>
</tr>
</tbody>
</table>

Fig. 4
Seat frame and pans

To adjust the width of the seat:

Remove the armrests.

Remove the backrest. (See Fig. 3 or Fig. 4)

Remove the seat pans attached by the four M5 x 10 screws to the seat frame.

Remove the backrest width tube from the backrest canes. See Fig. 4

Remove the cushion by taking out the two screws that secure the sling back to the backrest canes and sliding the cushion up and over the push handles. If you have the optional metal back shell and cushion: remove the four screws holding the back shell to the backrest canes.

Remove the hardware that secures the backrest width tube. See Fig. 4

Slide the backrest tubes to the desired width and re-install the two bolts, nuts and washers. Tighten the bolts.

Install the new backrest cushion or shell.

Install the backrest width tube on the backrest canes and set the backrest aside for now.

Remove the six(or ten) seat frame width adjustment screws and slide the main seat frames tubes apart to the required distance. See Fig. 5

Seat widths of 20” and 22” requires installation of additional fasteners for seat frame support. The additional fasteners are shown in Fig. 5

Install the seat pans.

Install the backrest to the seat base.

Install the armrests.

Fig. 5
Seat Sizing Adjustments

Seat depth adjustments

To adjust the depth of the seat:
Remove the armrests.
Remove the backrest and re-install at the desired seat depth. (See Fig. 6)
If you have the optional height adjustable armrests and want a seat depth of 14-16", you must swap the fasteners that go into the seat frame cross bars. The armrest forward lock plates have longer screws and must be used when going through the frame cross bars.
Re-install the armrests.
Standard Armrest Removal and Installation

- The armrests are easily removed for transfer or seating system maintenance.

  To remove armrest:
  - Release the armrest lock at the front of the armrest. (See Fig. 7)
  - Pull the armrest upward to remove.
  - If the armrest being removed has controls mounted on it, be careful not to damage the cables.

  To install armrest:
  - Place the armrest in the locking plate.
  - Push the armrest down against the backrest bracket.

Optional Height Adjustable Armrest Removal and Installation

To remove armrest:
- Loosen the armrest position tension knob.
- Release the armrest lock at the front of the armrest. (See Fig. 8)
- Rotate the armrest to the rear of the chair to clear the locking plate.
- Pull the armrest outward to remove.
- If the armrest being removed has controls mounted on it, be careful not to damage the cables.

To install armrest:
- Place the armrest on the pivot pin in a position that clears the locking plate.
- Push the armrest against the backrest bracket.
- Rotate the armrest downward to the front of the chair until the lock “clicks” into place.
- Tighten the armrest position tension knob.
Optional Height Adjustable Armrest

- The armrest height adjustment is accomplished by utilizing the lock at the base of the armrest. (See Fig. 9)

To adjust the vertical position of the armrest:
Grasp the armrest assembly with one hand for support and positioning.
Use your other hand to press the lock to release the mechanism.
Slide the armrest up or down to the desired position and release the lock to secure the armrest.

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**Warning**
Pinching hazard. Do not put your hands in between the seat frame and the armrest when adjusting the angle of the armrest as it is possible to get your fingers pinched.

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**Warning**
Pinching hazard. Do not put your hands in between the armrest and the armrest height adjustment mechanism when adjusting the height of the armrest as it is possible to get your fingers pinched.
Optional Swing-Away Legrest Operation

Legrest removal:

Hold the legrest assembly near the latch mechanism. Release the latch by pulling the knob to the rear of the chair and swing the legrest away to the outside of the chair. See Fig. 10. Lift up on the legrest to remove it from the seating system.

Legrest installation:

Hold the legrest assembly near the latch mechanism. Insert the guide pins into the legrest holder and swing the legrest forward until the latch closes. Test the legrest to make sure it is secure to the seating system.
Footplate Adjustments

The footplate height adjustment is accomplished by relocating bolts on the legrest tubes. (See Fig. 11)

To adjust the vertical position of the footplates:
Grasp the legrest assembly with one hand for support and positioning.
Loosen the bolt holding the footplate tube to the legrest tube.
Pull the bolt out and slide the footplates up or down to the desired position and put the bolt back in to secure the footplates in the new position.

To adjust the location of the footplates:
Remove the screws holding the footplate to the footplate clamp.
Place the footplate in the desired position and re-install the two attachment screws. The footplates can be moved in ½" increments Forward or Aft and rotated 30°. (See Fig. 12)
Footplate Adjustment for Flexion and External Rotation

To adjust the footplates for Flexion:
Loosen the clamp on the base of the footplate and rotate the footplate to the desired angle.
Tighten the clamp to secure the footplate.(See Fig. 13)

To adjust the footplates External Rotation:
Loosen the clamp on the base of the footplate tube and rotate the footplate assembly to the desired position.
Tighten the clamp to secure the footplate assembly.(See Fig.13)
Footplate Adjustment for Inversion/Eversion

To adjust the footplates for Inversion/Eversion:
Loosen the jamb nut and turn the screw in or out on the footplate pivot to rotate the footplate to the desired angle.
Tighten the jamb nut and screw to secure the setting at the new position. (See Fig. 14)

⚠️ Warning
The footplates can flip up if they come in contact with objects during use and may cause personal injury.
Optional Calfrest Adjustments

- The calfrests can be adjusted using tools to relocate them to the desired position.

To change the calfrest position:

Loosen the depth and height adjustment screws holding the calfrest in position.
Grasp the calfrest assembly with one hand for support.
Adjust the calfrest to the desired position.
Tighten the adjustment screws. (See Fig. 16)
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.

Torque Table for Seating System Fasteners

<table>
<thead>
<tr>
<th>Fastener Size</th>
<th>Torque Value in Ft/Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>4</td>
</tr>
<tr>
<td>M6</td>
<td>6</td>
</tr>
<tr>
<td>M8</td>
<td>16</td>
</tr>
<tr>
<td>M10</td>
<td>31</td>
</tr>
</tbody>
</table>

DANGER! All fasteners are Grade 8.8 or higher. This seating system utilizes numerous bolted connections instead of welded sub-assemblies. It is imperative that the correct fasteners are installed to the proper torque. Do not substitute fasteners of unknown or lower grade than originally installed. Improper torque or fasteners could cause bolted connections to fail and result in personal injury or property damage.
Specifications

Maximum User Weight ............................................................ 300 lbs.
Seat pan to floor height ........................................................ Dependant upon wheelchair base and tilt options
Seat depth ............................................................................... 14”-22”
Seat width ............................................................................... 16”-22”
Push Handles .......................................................................... Included as a standard feature
Weight of the standard seating system .................................. 60 lbs.

Backrest height(sling back) ..................................................... 18 1/2”
Backrest height(metal back) .................................................. 22”
Backrest width ......................................................................... Equal to seat width
Backrest angle(optional angle adjustable) ......................... 85° - 115°
Seat tilt (optional) ................................................................. (power tilt) 45°

Armrest height(optional height adjustable) ......................... 81/2” – 13 ½”
Armrest height(standard armrest) ........................................ 10”
Distance between armrests ..................................................... 1 1/2” wider than seat width
Armrest size(standard armrest) ............................................ 2” x 12”
Armrest size(Corpus II armrest) ............................................ 4” x 10,12,14 or 16”
Armrest size(Multi-functional armrest) ................................. 4” x 12”

Footrest pivot angle .............................................................. (Dorsi Flexion) 45° (Plantar Flexion) 45°
Footplate size(small metal) .................................................... 6”W x 8”L
Footplate size(large metal) ..................................................... 8 3/4”W x 9 1/2”L
Footplate size(small composite) .......................................... 6 1/2”W x 6 1/4”L
Footplate size(large composite) .......................................... 8”W x 6 1/4”L
Footplate position ................................................................. 1” Fwd or Aft of footplate center in 1/8” increments

Footrest distance from seat pan(fixed legrest, metal footplates, on lower tube) ......................... 12 1/2” – 18”
Footrest distance from seat pan(fixed legrest, metal footplates, on upper tube) ......................... 5 3/4” – 10 1/4”
Footrest distance from seat pan(fixed legrest, composite footplates) ....................................... 13” – 17 3/4”
Footrest distance from seat pan(swing-away legrest, metal footplates) ..................................... 11 3/4” – 15 3/4”
Footrest distance from seat pan(swing-away legrest, composite footplates) .......................... 10” – 15”
Legrest angle ........................................................................... (fixed) 70°

Note: The above specifications are correct for the standard seating system without optional leg rests or power features unless noted otherwise. The backrest height and leg length measurements are taken from the metal seat pan. Specifications listed are current at the time of printing and are subject to change without notice.
The selection of accessories listed below by their description and Service Part Number are available for ordering and installation by your dealer. For a complete list of accessories, refer to the Permobil Inc order forms.

PP1 Programmer  602307-99-0

Retractable Joystick Mount  306810-99-0  (Not for VSI)

Chin Cup for Joystick  602154-00-0

“T” Handle for Joystick  602151-00-0

Small Tray  307802-99-0
"Large Ball" for Joystick  602152-00-0

"Softball" for Joystick  602155-99-0

"Mushroom" for Joystick  602153-00-0

"Stick" for Joystick 602156-00-0