How to contact Permobil

Permobil Inc.
300 Duke Drive
Lebanon, TN 37090
PH: 800.736.0925
FAX. 800.231.3256
info@permobil.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.com
Custom Programmer

PP1c

Owner’s Manual

Produced and published by Permobil AB, Sweden
Edition no. 2, 2002-12
Order no: 201133-US-0
PABnr: 1133:2
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Connection
1. Switch off the power on the joystick.
2. Connect the PP1c to the socket on the joystick.
3. Switch on the power on the joystick.

Functions
The arrow keys are used to move up and down the various programming positions and to make changes to them.

The ? key is used to obtain help on the various programming positions.

Enter is used to confirm the programming and to move to the programming positions from the menu.

--- WARNING ! ---

Programming of the wheelchairs power module may only be performed by authorized personnel. Incorrect performed programming may cause serious damage to the chair and personal injury.
Root Menu

When the wheelchair is switched on and the PP1c is connected, driving is inhibited for the time being. The text window on the PP1c shows the message "PP1c Vn.n", where n.n is the version number of the program installed in that PP1c. Subsequently, the menu position C2K appears. By pressing the arrow keys the other menus can now be accessed, and those in the Root Menu are:

To switch from the menu to the various program positions, press Enter.

C2K
Downloads all the default parameters installed in a Chairman 2K. Answer Yes (These parameters will be the default values) or NO (No changes will be made) and press Enter.

Entra
Downloads all the default parameters installed in a Entra. Answer Yes (These parameters will be the default values) or NO (No changes will be made) and press Enter.

Koala
Downloads all the default parameters installed in a Koala. Answer Yes (These parameters will be the default values) or NO (No changes will be made) and press Enter.

HD
Downloads all the default parameters installed in a Chairman HD. Answer Yes (These parameters will be the default values) or NO (No changes will be made) and press Enter.

Playman
Downloads all the default parameters installed in a Chairman Robo. Answer Yes (These parameters will be the default values) or NO (No changes will be made) and press Enter.

Hexior
Downloads all the default parameters installed in a Hexior. Answer Yes (These parameters will be the default values) or NO (No changes will be made) and press Enter.

Chairman
Downloads all the default parameters installed in a Chairman. Answer Yes (These parameters will be the default values) or NO (No changes will be made) and press Enter.

Service Menu
Gives access to the Service Menu.
Service Menu

To access the Service Menu, use the arrow keys to reach Service Menu? and press Enter. In the Service Menu, just as with the Root Menu, you move round with the arrow keys. The Service Menu is for inputting special driving parameters for the user and for reading/erasing the Fault Log. The Service Menu has the following positions:

To switch from the menu to the various program positions, press Enter.

Read Fault Log
In the Fault Log you can read off error messages noted for the chair. For example, the text may be displayed: 1: code 3B00#5. This means that a fault has occurred five times in the chair, 3B00 = Cable break left drive motor. To return to the menu, press Enter.

Erase Fault Log
Here you can erase the fault log. Answer Yes or No and press Enter.

Acceleration
Here you can set how quickly or slowly you wish the chair to accelerate. Key in the desired value with the arrow keys, up = higher value, down = lower value, between 0-100. Then press Enter. For default values see the Table. NB! Be very careful with this adjustment, incorrect performed adjustment could make the wheelchair hard to handle, causing hazardous situations.

Deceleration
Here you can set how quickly or slowly you wish the chair to slow down. Key in the desired value with the arrow keys, up = higher value, down = lower value, between 0-100. Then press Enter. For default values see the Table. NB! Be very careful with this adjustment, incorrect performed adjustment could make the wheelchair hard to handle, causing hazardous situations.

Turn Accel´n
Here you can set how quickly or slowly you wish the chair to reach its maximum turning speed. Key in the desired value with the arrow keys, up = higher value, down = lower value, between 0-100. Then press Enter. For default values see the Table.

Turn Decel´n
Here you can set how quickly or slowly you wish the chair to stop turning. Key in the desired value with the arrow keys, up = higher value, down = lower value, between 0-100. Then press Enter. For default values see the Table.

Forward Speed
Here you can set the maximum and minimum forward speed. Key in the desired value with the arrow keys, up = higher value, down = lower value, between 0-100. Then press Enter. For default values see the Table.

Reverse Speed
Here you can set the maximum and minimum reverse speed. Key in the desired value with the arrow keys, up = higher value, down = lower value, between 0-100. Then press Enter. For default values see the Table. NB! Be very careful with this adjustment, incorrect performed adjustment could make the wheelchair hard to handle, causing hazardous situations.
Turning Speed
Here you can set the maximum and minimum speed for turning. Key in the desired value with the arrow keys, \textit{up = higher value, down = lower value}, between 0-100. Then press Enter. For default values see the Table. \textbf{NB! Be very careful with this adjustment, incorrect performed adjustment could make the wheelchair hard to handle, causing hazardous situations.}

Power (This function is not available on chairs with a power module manufactured before Feb 2002)
Can be used to regulate the power of the engines. Key in the desired value with the arrow keys, \textit{up = higher value, down = lower value}, between 10-100. Then press Enter. For default values see the Table.

Sleep Timer
Sets the period of time before the control system will "go to sleep" if the joystick is not operated. The time can be set between 1 and 10 minutes in steps of 1 minute. If the time is set to 0 the system will never "go to sleep"

Park Brake Trip
This tells the control system whether or not to trip if one or both of the solenoid brakes become disconnected or are not fitted. You can turn this function on or off. \textbf{NB! This function should only ever be turned off if there are no solenoid brakes fitted on the wheelchair.}

Joystick Throw
This allows you to program the control system so that full speed can be reached with a reduced joystick movement (throw).

Steer Correct
This factor compensates for any mismatching of motors to ensure that the wheelchair drives directly forward when the control system’s joystick is being pushed directly forward. It is normally set to zero but may be varied from -9 to +9 in increments of 1. If the chair is veering to the left, you should increase the setting. If the chair veers to the right, decrease the setting.

Read Timer
The Pilot+ has a timer which records how long the wheelchair is in use. The timer runs whenever the joystick is moved away from the center position, and stops when the joystick is returned. The timer records the number of hours the wheelchair has been in use.

Clear timer
This allows you to reset the timer to 0 hours. It is recommended that the timer be left intact and not cleared. This information can be useful to the drive system’s manufacturer when performing diagnostics.

Back to Root
This takes you back to the ROOT menu.
# Default Values

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Chairman 2K</th>
<th>Entra</th>
<th>Koala</th>
<th>Chairman HD</th>
<th>Playman</th>
<th>Hexior</th>
<th>Chairman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceleration</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
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<tr>
<td>Deceleration</td>
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<td>60</td>
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<td>50</td>
<td>95</td>
<td>60</td>
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<td>Turn Accel’n</td>
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<td>20</td>
<td>20</td>
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<td>52/36</td>
<td>50/36</td>
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<td>57/36</td>
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<td>20/8</td>
<td>20/8</td>
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<td>40/20</td>
<td>17/10</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>Park Brake Trip</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Joystick Throw</td>
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<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Steer Correct</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

# Menu Layout

![menu_layout_diagram](image)