Programming Compact Joystick (CJ) R-net





2.0 Programming

The control system can be programmed to meet your needs. Programming can be performed using the specialist R-net software and Dongle.

If you re-program your control system, make sure that you observe any restrictions given in your wheelchair user manual. Note any changes you make for future reference.

Remark! Programming should only be conducted by healthcare professionals with indepth knowledge of PGDT electronic control systems and the CJ R-net . Incorrect programming could result in an unsafe set-up of a wheelchair for a user. Permobil Inc accepts no liability for losses of any kind if the programming of the control system is altered from factory pre-set values.

2.1Program Settings

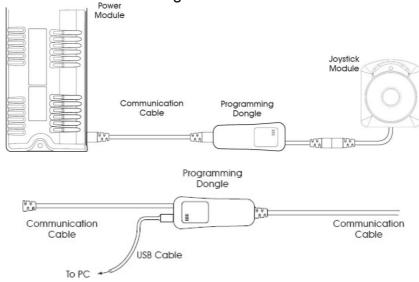
It is the wheelchair manufacturer's or dealer responsibility to program the control system to suit the vehicle model and ensure safe operation in compliance with relevant legal requirements over the whole of the operating range. Permobil Inc accepts no liability for losses of any kind due to failure to, or incorrect programming of the R-net Control System.

Programming should only be conducted by healthcare professionals with in-depth knowledge of PGDT electronic control systems and of the CJ-R-net of Permobil Inc. Incorrect programming could result in an unsafe setup of a wheelchair for the user.

2.2Programming Connection

2.3PC Programming

To utilize the R-net PC Programming Suite the R-net Dongle must first be connected in the communications system as shown. A USB cable can then be connected between the Dongle and a PC with the R-net PC Programmer installed.



3.0 Functionality Tests after reprogramming.

Perform the following tests, in order, on each wheelchair before dispatch.

These tests should be conducted in an open space and a restraining device such as a seat belt should always be used. Permobil Inc accepts no liability for losses of any kind arising from failure to comply with this condition.

3.1 Joystick and Gaiter

- Check that the joystick is not bent or damaged.
- Check the thin rubber gaiter or boot, around the base of the joystick shaft, for damage or splitting. Check visually only, do not handle the gaiter.
- Check that the joystick returns to the centre position when you push and release it.

3.2 Operational Test

This test should be carried out on a level floor with at least one meter clear space around the wheelchair.

- Switch on the control system.
- Check that the battery gauge remains on, or flashes, after one second.
- Push the joystick slowly forwards until you hear the parking brakes operate. The chair may start to move.
- Immediately release the joystick. You must be able to hear each parking brake operate within a few seconds.
- Repeat the test a further three times, pushing the joystick slowly backwards, left and right.

3.3Test Drive

- Drive the wheelchair and make sure that it operates correctly for all positions of the user controls.

3.4Soft-Stop Test

- Drive the wheelchair at full forward speed and switch the control system off.
- The wheelchair must not stop suddenly, but should decelerate to standstill.

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4 Programming

4.1 Introduction

This chapter gives an overview of the programmable parameters within the R-net control system related to the CJ R-net. The R-net can be programmed using a PGDT R-net PC Programmer.

Programming should only be conducted by healthcare professionals with in-depth knowledge of PGDT control systems and in-depth knowledge of the CJ R-net. Incorrect programming could result in an unsafe set-up of a wheelchair for a user. Permobil Inc accepts no responsibility for losses of any kind if the programming of the control system is altered from the factory pre-set values.

4.2 PC Programmer

For a complete list of all programmable parameters we refer to the R-net Control System Technical Manual – SK77981 – of PGDT.

Here is the list with all parameters related to the CJ R-net.

Compact Joystick:

Grab Focus Sets how the focus can be grabbed

Grab Focus Time Maximum time to grab focus by joystick movement

Profile Switch Sets the functionality of the profile switch Jack Disconnected Alarm Enables alarm on jack disconnection

4.2.1 Grab Focus: Default - Local On

Sets how focus can be grabbed.

Standard: Standard JSM behaviour (See R-net Control System

Technical Manual – SK77981 – of PGDT)

Local On: If the local power button/switch is operated to start-up the

system, the joystick module will be the active input

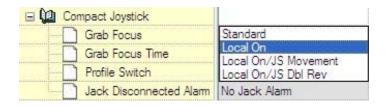
device.

Local On/JS Movement: Additional to the Local On the focus can be grabbed by

any movement of the joystick *.

Local On/JS Double Reverse: Additional to the Local On the focus can be grabbed by

moving the joystick twice backwards *.



^{*} See also Grab Focus Time

4.2.2 Grab Focus Time: Default - 0.5 s

Maximum time to grab focus by joystick movement

0.1 ... 2.0 s Sets the period in which the movement to grab the focus

must be finished.



4.2.3 Profile Switch: Default - Horn

Sets the functionality of the profile switch

Off: The switch is disabled

Profile: Selects the next profile (and mode if Profile/Mode is set

for Profile Button – see the R-net Control System

Technical Manual – SK77981 – of PGDT)

Horn: Selects the horn. The horn will sound while this

button/switch is depressed.

Mode: Selects the next available mode in the last profile in

which that mode was used.



4.2.4 Jack Disconnected Alarm: Default - No Jack Alarm

Enables alarm on jack disconnection

No Jack Alarm: No alarm will be generated when a disconnection of the

External On/Off Switch or the External Profile Switch

occurs.

Power Jack Alarm: When a disconnection on the External On/Off Switch

Jack occurs, the system enters an error state. Further

driving is no longer possible.

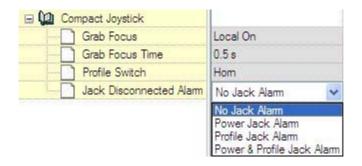
Profile Jack Alarm: When a disconnection on the External Profile Switch

Jack occurs, the system enters an error state. Further

driving is no longer possible.

Power & Profile Jack Alarm: This is the combination of Power Jack Alarm and Profile

Jack Alarm.



4.3 User Cases:

4.3.1 General

The contents of this chapter will explain you, from a user point of view, how to deal with all parameters that are related to the CJ R-net .

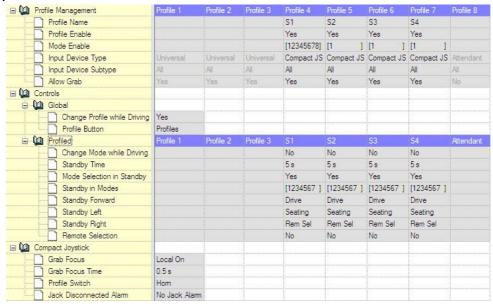
Depending on the use case more or less parameters must be changed. All these parameters will be grouped in a parameter subset file.

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4.3.2 User can not operate buttons/switches:

Operation is all done by movement of the joystick. A standby function is needed to change profiles, axes, etc.

Subset file:



The standby function is the key to access all the possibilities of you wheelchair. From standby you can

access drive mode: move joystick forward operate actuators: move joystick left change profile: move joystick right

4.3.3 User can operate 1 button/switch:

Operation is done by a combination of the joystick and the button or switch.

The assigned button is used to switch between profiles.

Subset file:

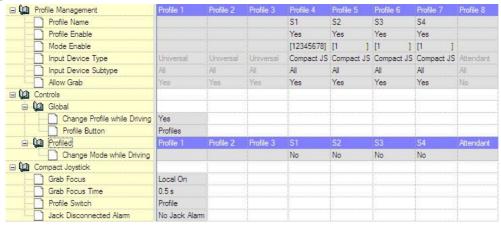


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