



HOW TO SET BLUETOOTH WITH R-NET CONTROLLERS

BLUETOOTH CONTROLS



INTRODUCTION

Bluetooth modules are an option on Sunrise Medical Power Chairs, that allow the client to pair their R-Net System to control a mouse pointer or scanner of a smart phone, tablet or PC through the chairs input device. Left and right mouse clicks and other functions can be assigned when necessary.

It must be selected on the Sedeo Order Form

You can select two separate Bluetooth Modules to control Android devices and one to control an apple device.

R-NET OPTIONAL CONTROLS / ELECTRONICS			£
JMV110031	● R-NET ISM-L (lighting module)	<i>(required if L&I is selected)</i>	
JMV110033	● R-NET CxSM (8-channel seating module)	<i>(includes memory seat programming)</i>	
JMV090068	<input type="checkbox"/> R-NET BLUETOOTH MODULE (Controls 1 x Android and Windows device)		195
JMV090101	<input type="checkbox"/> 2nd R-NET BLUETOOTH MODULE (Controls second Android and Windows device)		195
JMV090102	<input type="checkbox"/> R-NET BLUETOOTH MODULE IOS (Controls Apple Device)		195
JMV090103	<input type="checkbox"/> R-NET IO MODULE	<i>(7 Switched controllable output commands, only available via B4Me)</i>	252

There is also an optional CJSM2 Joystick module with BT functionality available. The integrated BT function can operate 2 Android and two Apple devices as standard.

This guide will show you how to pair and customise Bluetooth for a demo and handover.

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INTRODUCTION

CJSM2 BT: An R-net Output Mode must be set to Bluetooth. See programming example below. To enable BT within the CJSM2 it is a two-stage process. Firstly, a device or devices must be set to On from the **Settings Menu (Long press on the hazard light button on the JS)**. Secondly, for each device a screen graphic and a name can be set via PC Programming.

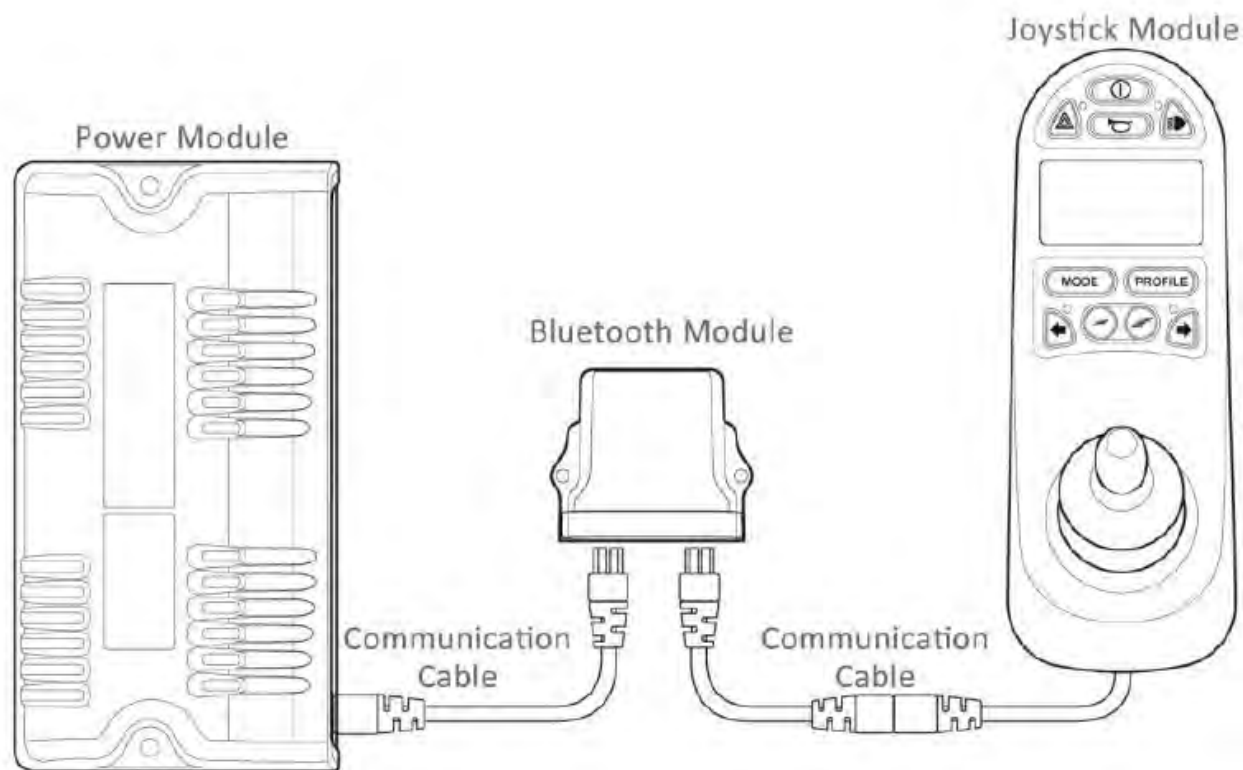
Separate CAN-Bus BT Modules: R-net Output Modes must be set to Mouse 1, Mouse 2 (second BT Module) and iDevice (IOS access). The module will appear in the mode selections as soon as it is connected to the CAN Bus. See programming example below.

	Separate BT Module Settings			CJSM2 Mode Settings
	Profile 3	Profile 4	Profile 5	Profile 6
Mode 3	Mode 4	Mode 5	Mode 6	
Mouse 1	Mouse 2	iDevice	My BT Devices	
Raw	Raw	Raw	Raw	
Mouse 1	Mouse 2	iDevice	Bluetooth	
Speed Profile 3	Speed Profile 4	Speed Profile 5	Chin Control	

BLUETOOTH CONTROLS

PAIRING YOUR DEVICE

If you are using separate BT-Modules connected to the R-Net bus system they only need to be enabled in the MODE configuration section and appear as soon as you press the mode button and reach the BT-Mode section.



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INTRODUCTION

If you use the BT-functionality of the CJS2 you have to enable the BT modes through the CJS2 device menu first. Press and hold the “hazard” light button for more than 1 second and you will enter the CJS2 menu.



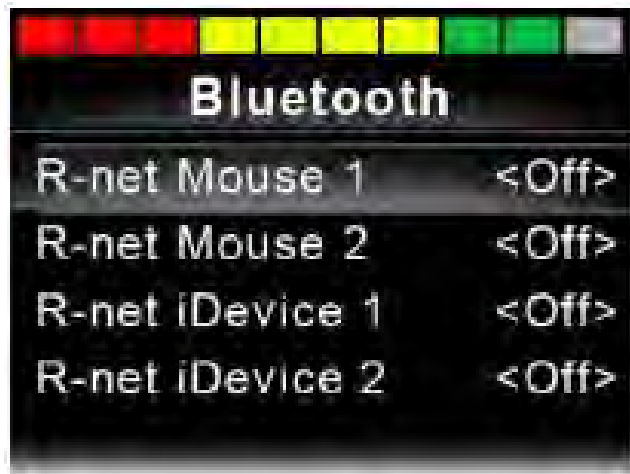
Press & hold hazard until the menu screen appears

BLUETOOTH CONTROLS

PAIRING YOUR DEVICE



Select Bluetooth and the following screen will appear:



Set one or more of the devices to On. The R-net system must now be switched off and on again.

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PAIRING YOUR DEVICE

Step 1: Ensure your device is in Bluetooth discoverable mode.

Step 2: Enter Bluetooth via the joystick menu and push forward for 15 seconds until you hear a beep, then pull back for 15 seconds until you hear a beep.

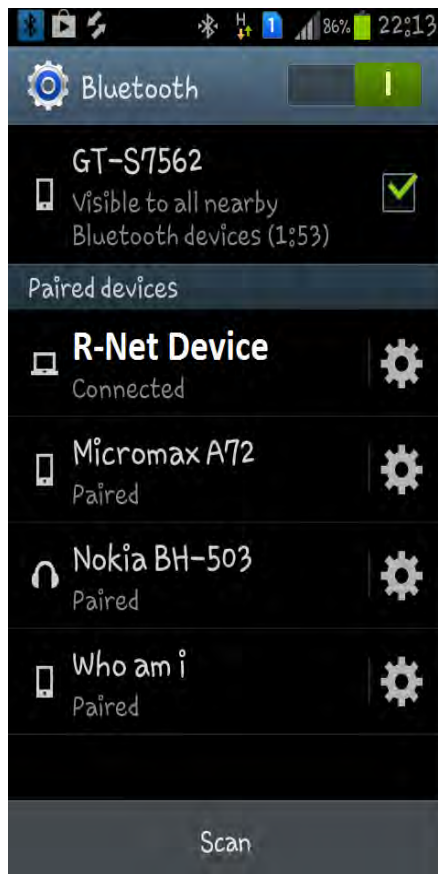
Step 3: You will now be able to find R-Net Controls in your device Bluetooth menu



BLUETOOTH CONTROLS

PAIRING YOUR DEVICE

Step 4: Pair the devices together by selecting Rnet form the list of devices in the Bluetooth menu.



Step 5: To check you have connected successfully turn power on and off and select Bluetooth from the joystick Menu

A cursor should appear On the device screen if you are connected.

To use Bluetooth effectively you need to customise the commands via the PC programmer



BLUETOOTH CONTROLS

BLUETOOTH MODE SCREEN – CJSM2

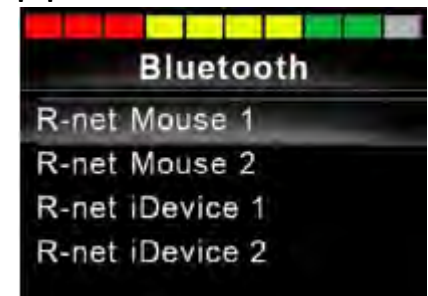


The initial Bluetooth Mode screen will be dependent on whether the CJSM2 has been set up to control one or more devices.

If set up to control just one device, a screen such as below will appear.



If set up to control more than one device, a screen such as below will appear.



The joystick should then be used to navigate the menu and select the device to control. Forward and reverse deflections navigate the menu, while a right deflection selects the highlighted device.

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CUSTOMISING BLUETOOTH

Once you have paired your device you can control the mouse automatically for that device but now you need to customise how the client will select ICONS and make commands like typing and sending messages.

The next steps will allow you to customise commands like **name, home, select, open, close, etc.** and enable the user to affectively use their devices from their joystick.

The text to describe each device can be set via the programmable parameter, Device Name.

The screen symbol for each device can be set via the programmable parameter, Screen Graphic.

Refer to chapter Bluetooth Programming for more details.

BLUETOOTH CONTROLS



CUSTOMISING BLUETOOTH – NUDGE

“**Nudges**” are the most common way of making commands with a joystick. A nudge is a fast push of the joystick in a direction.

The user can push the joystick to an icon on the device and “nudge” to open it up.

Nudge commands need to be programmed.

Nudge speed can also be programmed to suit a clients ability

Step 1: Connect the R-Net Dongle, Open the PG programmer and read out the program.

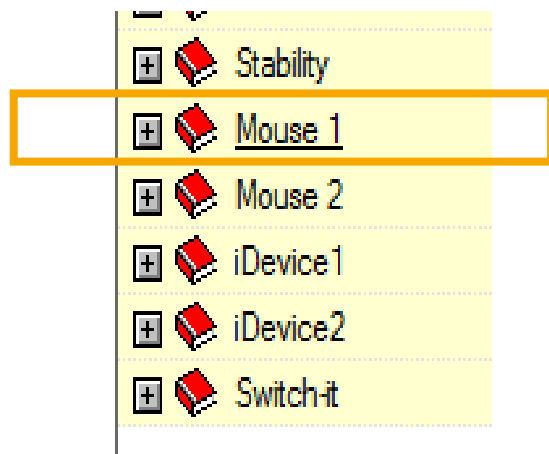


BLUETOOTH CONTROLS

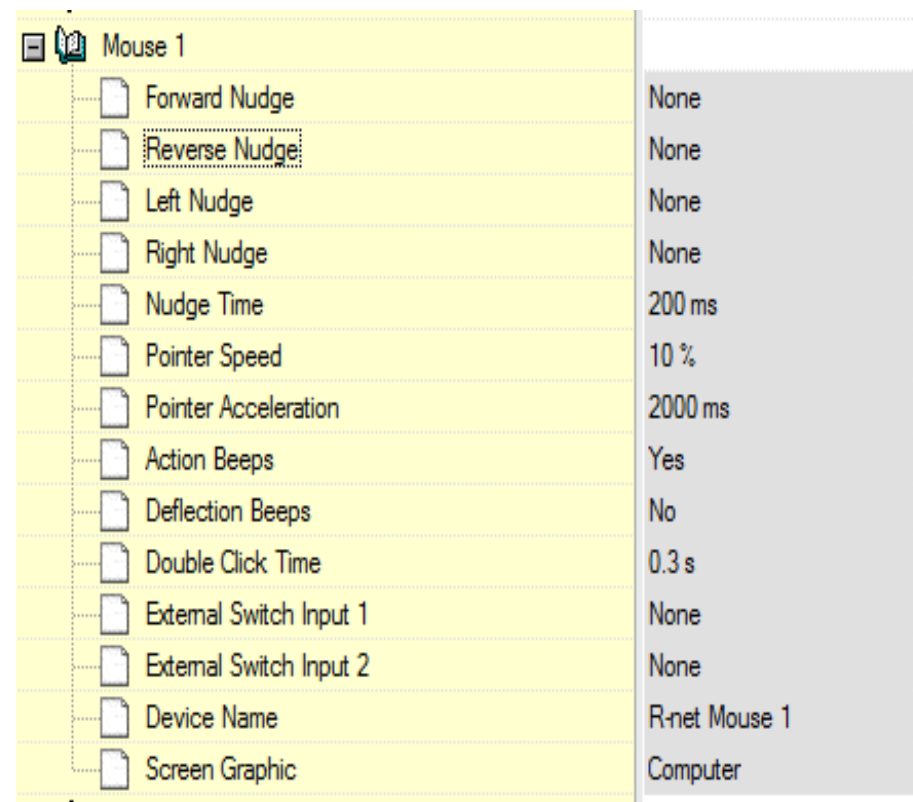


CUSTOMISING BLUETOOTH – NUDGE

Step 2: Select **Mouse 1** from the menu on the left hand side



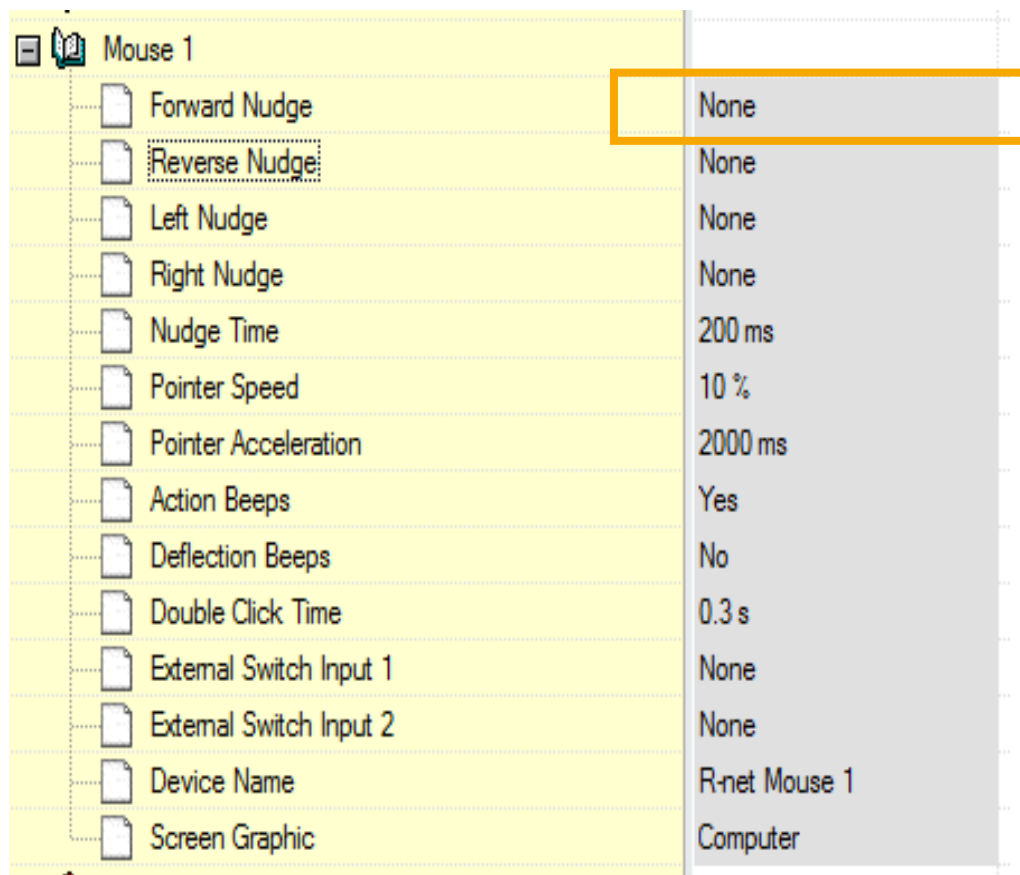
Step 3: Open the **Mouse 1** menu and the settings appear



BLUETOOTH CONTROLS

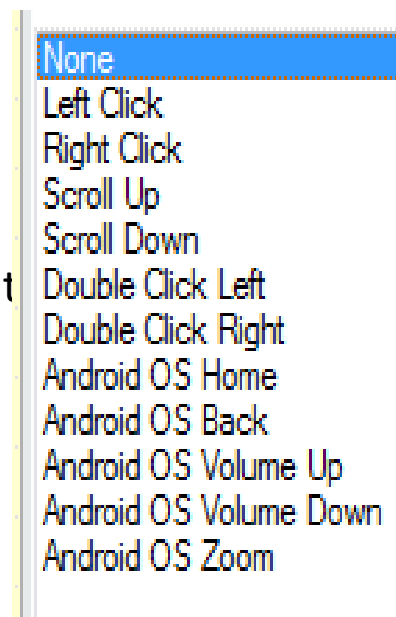


CUSTOMISING BLUETOOTH – NUDGE



Step 4: double click on the Forward Nudge – show to left

Step 5 – It will reveal the list of commands you can program. Select the desired command.



BLUETOOTH CONTROLS



CUSTOMISING BLUETOOTH – NUDGE

POPULAR TEMPLATE

Below is a popular template that will work for most people. Start with this and then customise it to your client.

Android Phone / Tablet

Reverse Nudge = Android OS Home (Phone Home Screen)

Left Nudge = Right Click (Back Up)

Right Nudge = Left Click (Forward)

Setting	Value
Forward Nudge	None
Reverse Nudge	Android OS Home
Left Nudge	Right Click
Right Nudge	Left Click
Nudge Time	300 ms
Pointer Speed	5 %
Pointer Acceleration	2000 ms
Action Beeps	Yes
Deflection Beeps	No
Double Click Time	0.3 s
External Switch Input 1	None
External Switch Input 2	None
Device Name	Gebs HTC
Screen Graphic	Computer

BLUETOOTH CONTROLS



CUSTOMISING BLUETOOTH – NUDGE

CUSTOMISING NUDGE SPEED

A client must be able to double tap the joystick to complete a nudge command. The speed of this can be programmed to suit the ability of a client.

Default = 200ms

If a client is not quick enough, it can be increased

A screenshot of a software interface for configuring a mouse. The title is "Mouse 1". It lists several settings: Forward Nudge (None), Reverse Nudge (None), Left Nudge (None), Right Nudge (None), Nudge Time (300 ms), and Pointer Speed (10%). The "Nudge Time" row is highlighted in yellow.

Setting	Value
Forward Nudge	None
Reverse Nudge	None
Left Nudge	None
Right Nudge	None
Nudge Time	300 ms
Pointer Speed	10 %

If a client accidentally keeps nudging (they are too quick with controls) this can be reduced

A screenshot of a software interface for configuring a mouse, similar to the one above. The title is "Mouse 1". It lists the same settings: Forward Nudge (None), Reverse Nudge (None), Left Nudge (None), Right Nudge (None), Nudge Time (100 ms), and Pointer Speed (10%). The "Nudge Time" row is highlighted in yellow.

Setting	Value
Forward Nudge	None
Reverse Nudge	None
Left Nudge	None
Right Nudge	None
Nudge Time	100 ms
Pointer Speed	10 %

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CUSTOMISING BLUETOOTH – BUTTON

Some clients can find it difficult to make the nudge commands and using a buddy button mounted to the armrest can be easier.

A buddy button can be programmed to “select” or “back up”.

Clients can use the joystick to navigate the mouse over icons and use the button to select (short press) or back up (long press)

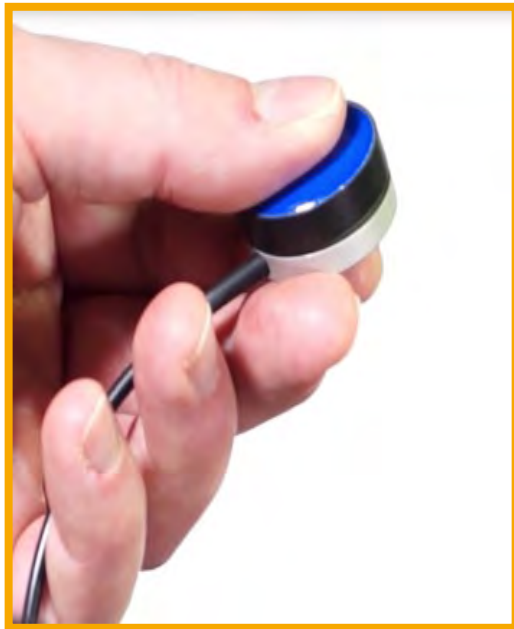


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CUSTOMISING BLUETOOTH – BUTTON

Step 1: Plug a buddy button into the external jack socket port via the joystick



Step 2: Connect the R-Net Dongle. Open the PG programmer and read out the program.

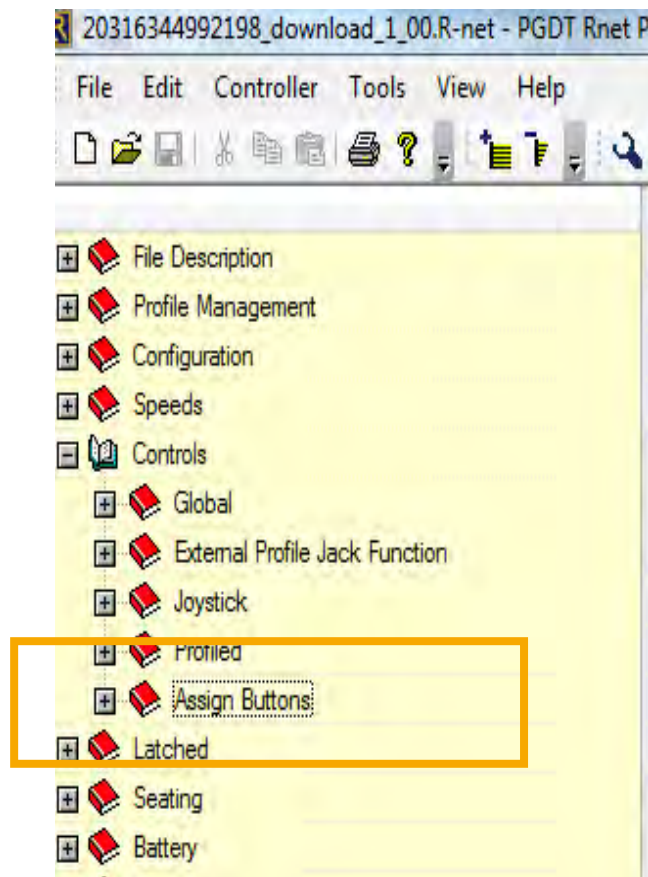


BLUETOOTH CONTROLS



CUSTOMISING BLUETOOTH – BUTTON

Step 3: Select Assignable buttons form the Rnet menu shown below



Step 4: double click on first function / external jack socket 1 as shown below

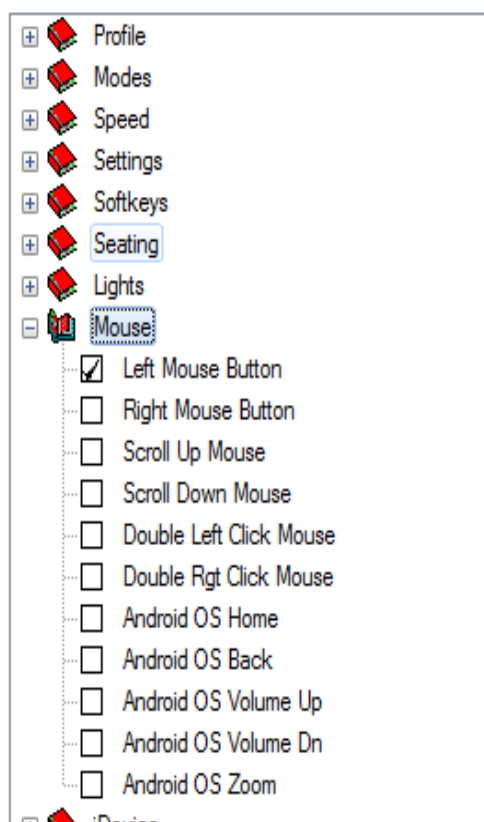
	First Function	Second Function
Assign Buttons		
Second Function Time	1.0 s	
Profile Button	Profile Up	Profile Up
Mode Button	Mode Up	Mode Up
External Profile Jack 1	Mode Up	Mode Up
External Profile Jack 2	mode up	Mode Up
Speed Down Button	Speed Down	Speed Down

BLUETOOTH CONTROLS



CUSTOMISING BLUETOOTH – BUTTON

Step 5: In the assignable button menu select “Left Mouse Button” or another function



Step 6: Repeat for second function and set to “Android OS Back”

Assign Buttons	First Function	Second Function
Second Function Time	1.0 s	
Profile Button	Profile Up	Profile Up
Mode Button	Mode Up	Mode Up
External Profile Jack 1	Mode Up	Mode Up
External Profile Jack 2	Mode Up	Mode Up
Speed Down Button	Speed Down	Speed Down

- Double Rgt Click Mouse
- Android OS Home
- Android OS Back
- Android OS Volume Up

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CUSTOMISING BLUETOOTH – BUTTON

The program should look like this.

Program the chair and whilst hovering over the ICON use a short press to select / type and a long press to back up.

Remember time can be programmed via “second function time”

Short Press = Left Mouse button = Enter

Long press = Right Mouse button = Back Up

	First Function	Second Function
Assign Buttons		
Second Function Time	1.0 s	
Profile Button	Profile Up	Profile Up
Mode Button	Mode Up	Mode Up
External Profile Jack 1	Left Mouse Button	Right Mouse Button
External Profile Jack 2	Mode Up	Mode Up
Speed Down Button	Speed Down	Speed Down
Speed Up Button	Speed Up	Speed Up
Hom Button	Hom	Hom
Lights Button	Lights	Lights
Left Indicator Button	Left Indicator	Left Indicator
Right Indicator Button	Right Indicator	Right Indicator
Hazards Button	Hazards	Hazards
Softkey 1	Hazards	Settings
Softkey 2	Left Indicator	Left Indicator
Softkey 3	Lights	Lights
Softkey 4	Right Indicator	Right Indicator
AB Latched Seating Timeout	45 s	