



ASSIGNABLE BUTTONS INTRODUCTION



Assignable buttons is one of the most powerful tools the Sunrise Medical R-Net System has to offer clients.

Any buttons (excluding on/off) can be reprogrammed to ANY command or seat position.

Regular commands or memory positions can be programmed to be accessed with one touch of a button.

This function makes the Sedeo Ergo the most easy to use power chair on the market and in this chapter we will cover some of the most common assignable button functions and explain how this can benefit a client.

- Assigning buttons to the joystick module
- Assigning buttons to the 5-Switch Box
- Assigning the latch actuator function
- Assigning a memory position
- Assigning a function to a button



All buttons with the exception of ON/Off and P-M paddle switch can be assigned on your joystick module.

Why Assign a function?

It is unlikely you will want to re-assign the main function of the joystick buttons because your client will want to use these functions so why have assignable buttons?

2nd Functions: A 2nd function can be assigned to each button. A second function is a long press. Do a short press and the standard function operates, hold longer for the 2nd function to operate. The time that defines a short or a long press can be programmed.

Assign Functions to buttons: The joystick module has a jack socket allowing you to plug in a switch and assign a function. We will explore this later.....







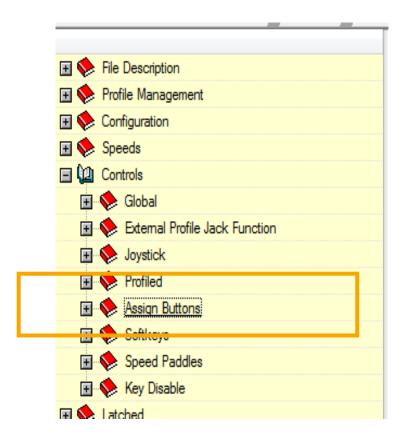
THE JOYSTICK MODULE



Step 1 – Open the PC programmer

Step 2 – Upload the parameters from the chair into the PC software

Step 2 - Select assign buttons from
the controls menu





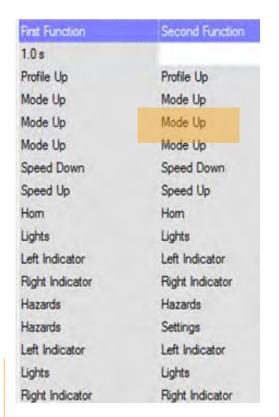
Step 4 - Any of the buttons can be reassigned by moving the mouse pointer over the first or second function and selected with a double click - example to right

Unless the client does not use the main function we recommend you only assign the second function

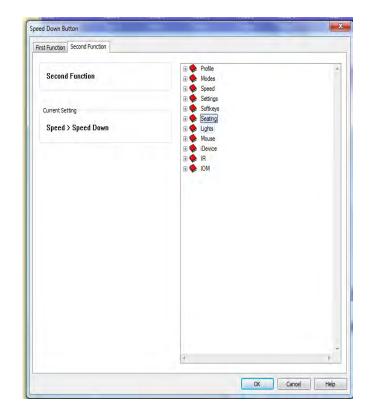
Assign Buttons	First Function	Second Function
Second Function Time	1.0 s	
Profile Button	Profile Up	Profile Up
Mode Button	Mode Up	Mode Up
External Profile Jack 1	Mode Up	Mode Up
External Profile Jack 2	Mode Up	Mode Up
Speed Down Button	Speed Down	Speed Down
Speed Up Button	Speed Up	Speed Up
Hom Button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



Step 5 – After the Double click on the function the Function menu windows opens you wish to reassign – e.g. Speed Up



The assignable buttons menu will appear



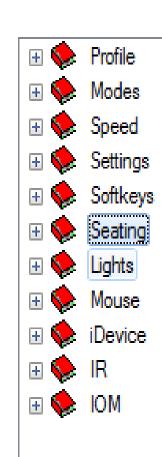
ASSIGNING TO A JOYSTICK MODULE



Step 5 – The menu categorises different functions. Select the category you require.

The most common category to want to assign functions from is Seating

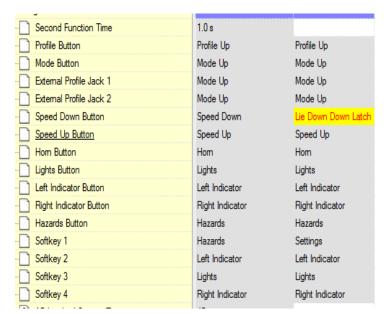
Other examples include Modes (mode enter via Button) Infra red commands (TV on) Bluetooth Commands, speed changes.



ASSIGNING TO A JOYSTICK MODULE

Step 6 – Select the joystick command you wish to assign from the drop down list.

Select OK and the function has changed





□ △ DCl-
⊕ Speed
⊕ Settings
⊕ Softkeys
□
□ Seated Up
- Seated Down
Seated Toggle
Seated Up Latch
Seated Down Latch
Seated Toggle Latch
Lie Down Up
Lie Down Down
Lie Down Toggle
Lie Down Up Latch
Lie Down Down Latch
Lie Down Toggle Latch

ASSIGNABLE BUTTONS EXAMPLES OF COMMANDS TO ASSIGN



- **Seat Lift UP Latch:** Press once and the seat elevates to its final position. Client can drive whilst lifting. Press again to stop lift (this can be Lift, Lie flat, Recline, etc)
- Seat Lift Toggle Latch- As above but first press lift elevates / second press lift descends.

 Allows one control of one seat function (up/down) via only one button.
- Memory Functions If a memory function has been programmed it is more commonly
 because the client accesses that position frequently. Make accessing this function even
 faster by assigning it to a joystick module or switch (e.g. buddy button).
- IR Controls Common IR codes can be programmed such as TV on, channel up, channel down
- Mode- If your client finds it difficult to access mode why not assign it to a buddy button and mount it nearer to them.

ASSIGNABLE BUTTONS EXAMPLES OF BUTTONS TO ASSIGN TO



• **Speed Up / Down Toggle Switch** – The most common button to assign to. The paddle switch is in close reach for clients and you can program second functions to this button for quick access to the most popular functions.

 Lift Up latch and Lift Down Latch 		
Speed Down Button	Speed Down	Lift Down Latch
Speed Up Button	Speed Up	Lift Up Latch
		•

• Lift UP/Down Toggle Latch and Lie do		
Speed Down Button	Speed Down	Lie Down Toggle Latch
Speed Up Button	Speed Up	Lift Toggle Latch
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ASSIGNING TO THE 4 SOFT KEYS CJSM2 MEDICAL





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
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

ASSIGNING TO THE 4 SOFT KEYS CJSM2





As a default setting, the
"Softkey Enable" Parameter
is set to NO, means all
functions related to the
"Softkey" section in the
Controls section are
switched off, means no
icons apart from the
default lights & indicators
appears on the screen

ASSIGNING TO THE 4 SOFT KEYS CJSM2



For the Sunrise Medicals "Assignable Button" function only the Section Softkey 1 to 4 is relevant for AB programming.

Softkeys	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6	Mode 7	Mode 8
Softkey Enable	No							
Softkey Timed Function Time	1.0 s							
Softkey 1 Function	Hazards	Hazards	Hazards	Hazards	Hazards	Hazards	Hazards	Hazards
Softkey 1 Timed Function	Settings	Settings	Settings	Settings	Settings	Settings	Settings	Settings
Softkey 2 Function	Left Indicator	Left Indicator	Left Indicator	Left Indicator	Left Indicator	Left Indicator	Left Indicator	Left Indicator
Softkey 2 Timed Function	None	Liegen Toggle Latch	None	None	None	None	None	None
Softkey 3 Function	Lights	Lights	Lights	Lights	Lights	Lights	Lights	Lights
Softkey 3 Timed Function	None	None	None	None	None	None	None	None
Softkey 4 Function	Right Indicator	Right Indicator	Right Indicator	Right Indicator	Right Indicator	Right Indicator	Right Indicator	Right Indicator
Softkey 4 Timed Function	None	None	None	None	None	None	None	None

In case you want to use the PG Softkey function to assign functions mode related, the Sunrise Medicals "Assignable Button" function needs to be switched off. With that you give up on all OMNI and jack socket related function programming.





ASSIGNABLE BUTTONS TO THE 5-SWITCH BOX



The 5-Switch Box is the most powerful option to combine with assignable buttons and highly recommended with every Sedeo Ergo.

The 5-switch Box provides quick access to positions with out going through the joystick menu.

This chapter will show you how to.

- Overview of the 5-Switch box
- Latch the functions of the switch box
- Change functions completely



ASSIGNABLE BUTTONS KEY FEATURES OF THE 5-SWITCH BOX MEDICAL.



- Connection via R-Net Bus
- Fits to all R-Net chairs in the field
- USB charger port for mobile devices
- Available as toggle or button version
- LED colour light feedback
- Assignable functions to each button
- Up to 2 modules can be attached to a chair



ASSIGNABLE BUTTONS KEY FEATURES OF THE 5-SWITCH BOX



NEW Functionality: LED Code information

- AXIS_DRIVING_LED Green, an actuator function is assigned to the button
- AXIS_DRIVING_LED Green Blinking, active actuator axis to blink green while the actuator is running
- DRIVE_INHIBIT_CREEP_LED Yellow, chair is in creep mode
- DRIVE_INHIBIT_LOCKOUT_LED Red, chair is in drive lockout
- WHITE_LED White steady, button is not assigned to an actuator axis
- BLUE LED Button is assigned to the pressure relief memory axis and pressure relief timer indicates to start relief process

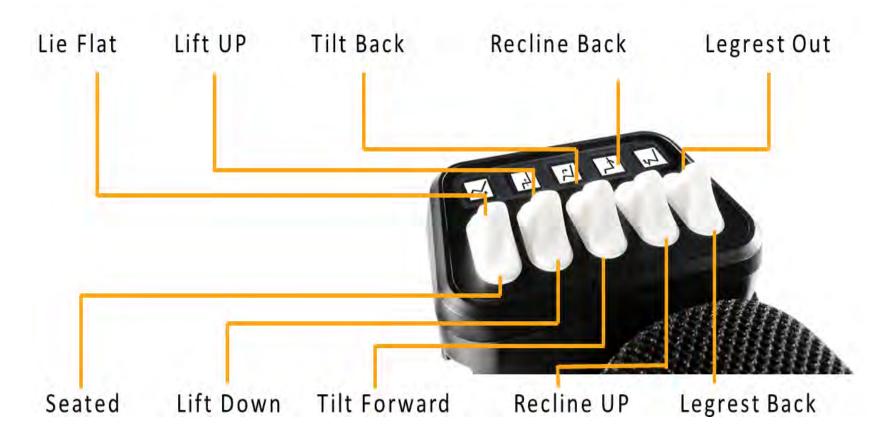




LATCH FUNCTIONS

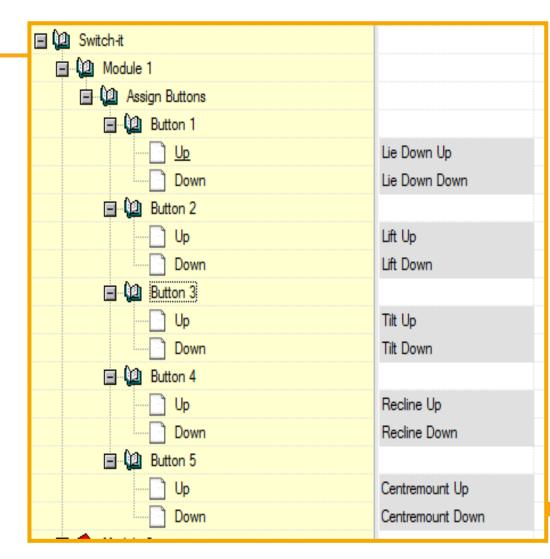


Below is the default setting of the 5-Switch Box



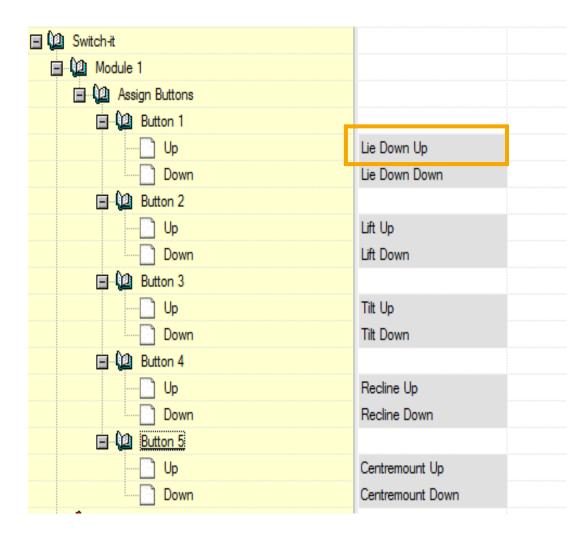


Step 3: Open the menu structure (as to right) to show each of the default button commands.





Step 4: Double click on the Icon function you want to change to latched.

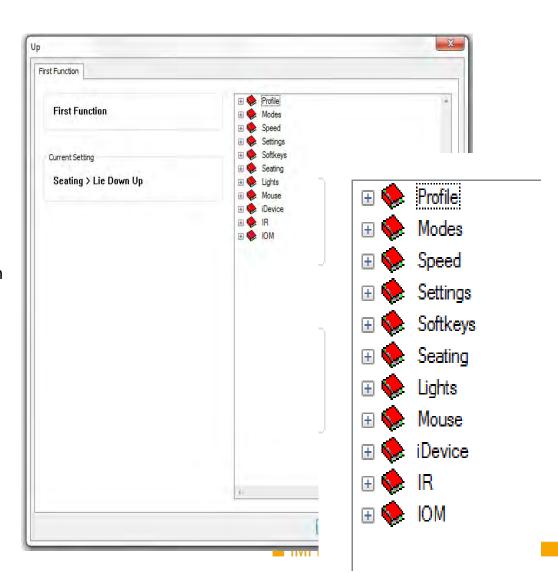




Step 5: The assign button menu will appear.

This menu box with show you all functions you can assign to a button.

This includes, speeds, mode, infra red commands, seating....anything you can do in your chair





Step 6: To change the function to latches.

Select Seating:

Speed Settings Softkeys Seating Lights Mouse iDevice

Information: This menu will show you the function that is assigned to the button you have selected. In this example Lie Down Up

⊟ 🛍 Se	eating
	Seated Up
	Seated Down
	Seated Toggle
	Seated Up Latch
	Seated Down Latch
	Seated Toggle Latch
	Lie Down Up
	Lie Down Down
	Lie Down Toggle
	Lie Down Up Latch
	Lie Down Down Latch
	Lie Down Toggle Latch
	Pressure Relief Up
	Pressure Relief Down

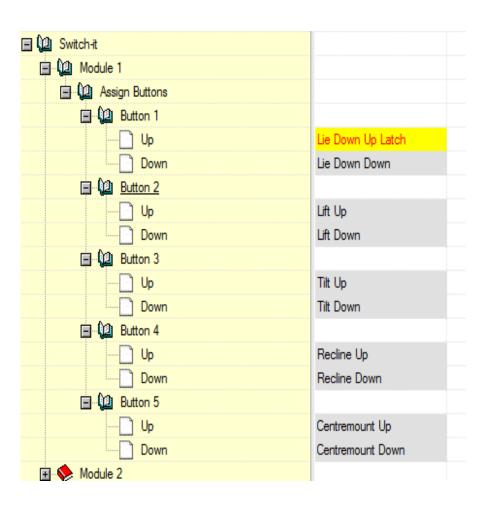
Pressure Relief Toggle Latch



Step 6: Change the function from "Lie	—
Down" to "Lie Down Latch"	Seated Up
	Seated Down
☐ 1 Seating	Seated Toggle
Seated Up	Seated Up Latch
Seated Down	_ '
Seated Toggle	Seated Down Latch
Seated Up Latch	Seated Toggle Latch
Seated Down Latch	Seated Toggle Later
Seated Toggle Latch	Lie Down Up
Lie Down Up	☐ Lie Down Down
Lie Down Down	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Lie Down Toggle	Lie Down Toggle
Lie Down Up Latch	[7] II: Dame He Latak
Lie Down Down Latch	Lie Down Up Latch
Lie Down Toggle Latch	Lie Down Down Latch
Pressure Relief Up	
Pressure Relief Down	□□□□ Lie Down Toddle Latch
Pressure Relief Toggle	
Pressure Relief Up Latch	
Pressure Relief Down Latch	■ IMPROVIN



The button is now re-assigned



RECOMMENDATION

Seat positions that have a definitive end position like Lie flat, Seat Up, Memory Positions are good functions to latch.

Functions like Tilt, Recline where the client wishes to stop in before the end position are not recommended to be latched.



If the client has specific needs you can reassign all functions to the 5-switch box. The 5-switch box can be come a device to command any function of the wheelchair. Seating related function will always show a GREEN LED light. As soon as a button is assigned to a "non seating" function the LED will turn WHITE.

This process can be repeated to assign any function to any button.

- Speed up
- Speed down
- TV on
- TV off
- Memory position





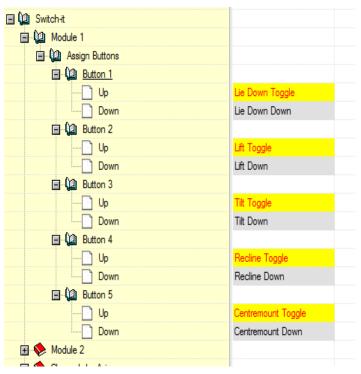


ASSIGNING TOGGLE FUNCTIONS TO THE 5-SWITCH BOX

ASSIGNABLE BUTTONS TOGGLE FUNCTIONS



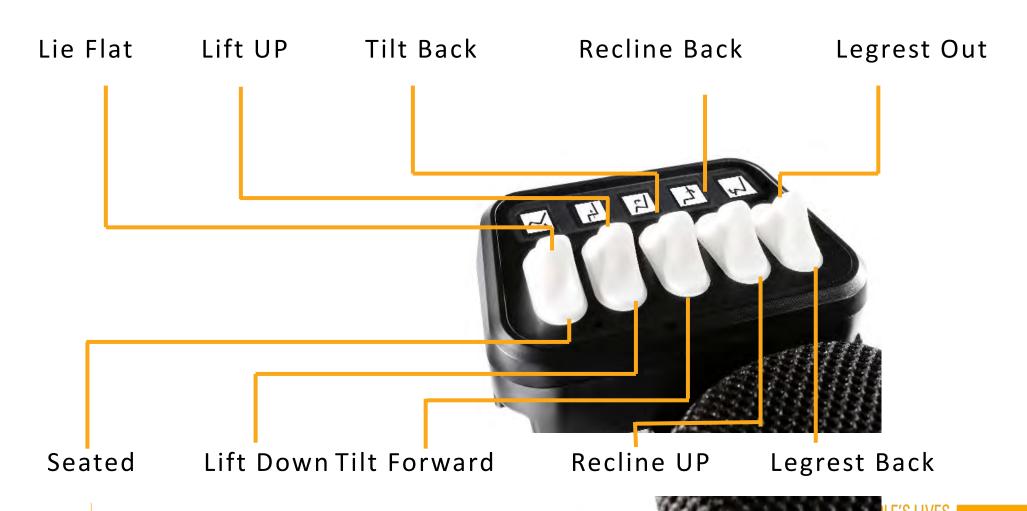
- Toggle function combine 2 functions to one direction of a button press
- The button will toggle between the command for each press. E.g. Lift Up/Down. Tilt Back/Forward
- You can reprogram the Switch It Box to have toggle functions freeing up 5 buttons for other functions



BIOMETRIC SMART SEATING



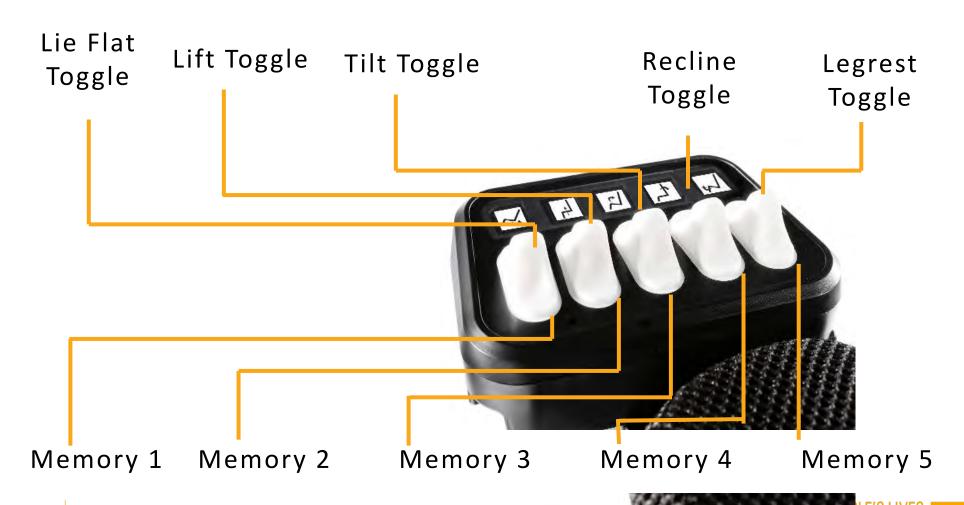




BIOMETRIC SMART SEATING

ASSIGNABLE BUTTONS – 5-SWITCH BOX

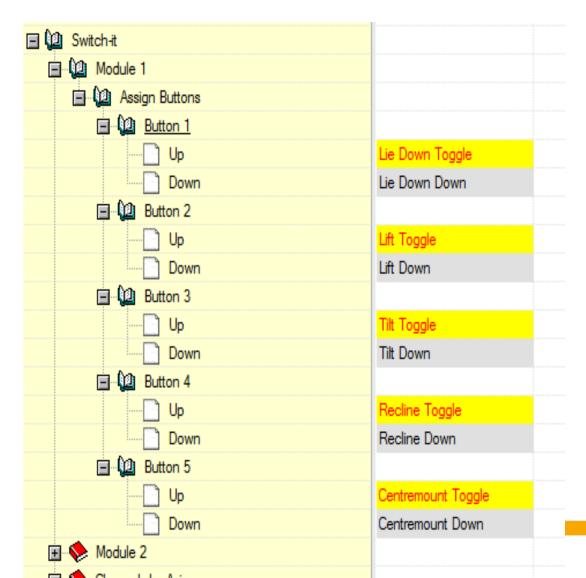




ASSIGNABLE BUTTONS TOGGLE FUNCTIONS



By following the same steps as before you can assign toggle Functions as shown to right

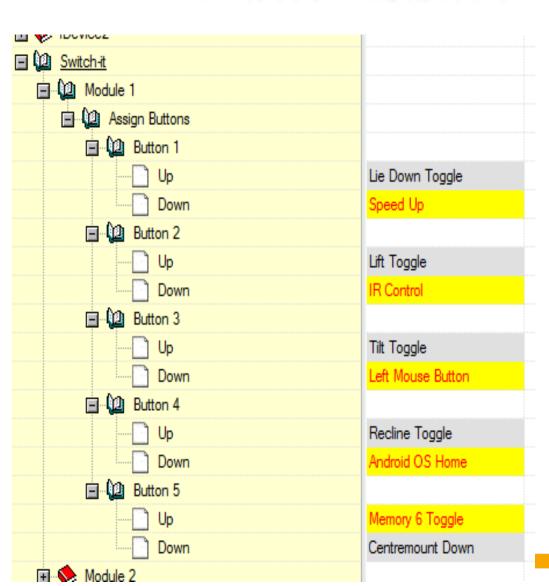


ASSIGNABLE BUTTONS TOGGLE FUNCTIONS



You can now reassign the 5 functions to any function the client requires.

Example shown to right



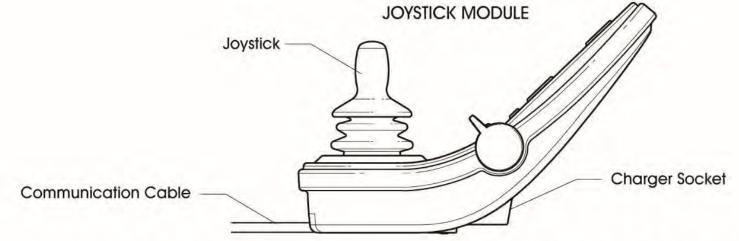


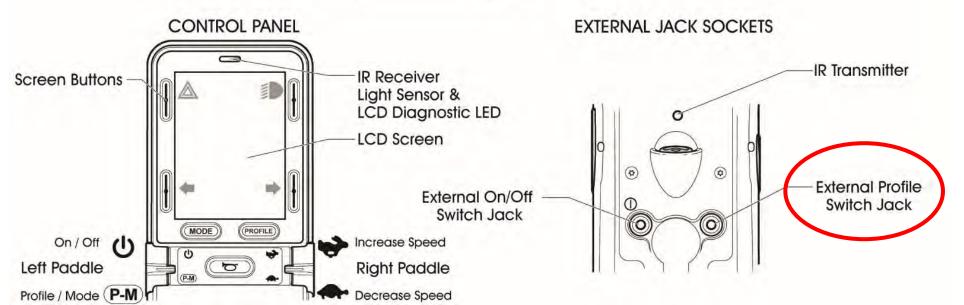


ASSIGNING TO THE JACK
SOCKET OF THE JOYSTICK
MODULE











Assigning a function to a buddy button can improve a clients ability to access modes, menu's and memory positions. With Sedeo Ergo you can

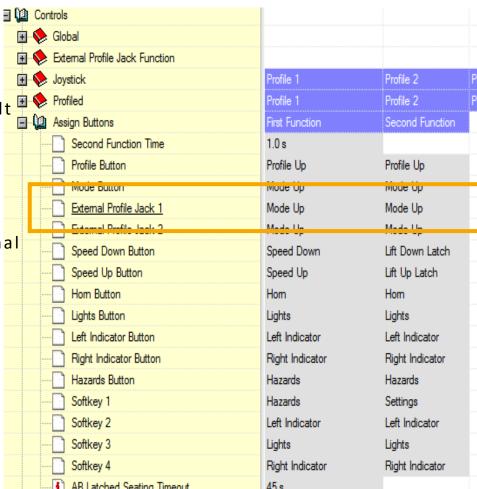
- Plug one Buddy Button into the jack socket of the joystick and assign 1 function
- Plug one Buddy Button into the jack socket of the joystick and assign 2 functions (short press and long press)
- Plus 2 Buddy Buttons via a stereo to mono splitter and assign **4 functions** (short press and long press via 2 buttons)
- Plug a DB9 pin to 5 jack socket adapter to the Omni Port 2 and assign 5 single functions (up to 10 using short and long press)



ONE FUNCTION VIA ONE BUDDY BUTTON INTO THE JOYSTICK

Step 1: Plug in buddy button into jack socket. RH socket for ON/Off (not assignable) LH socket (default Assign E Assign E

Step 2: Open the PC programmer and select external profile jack 1





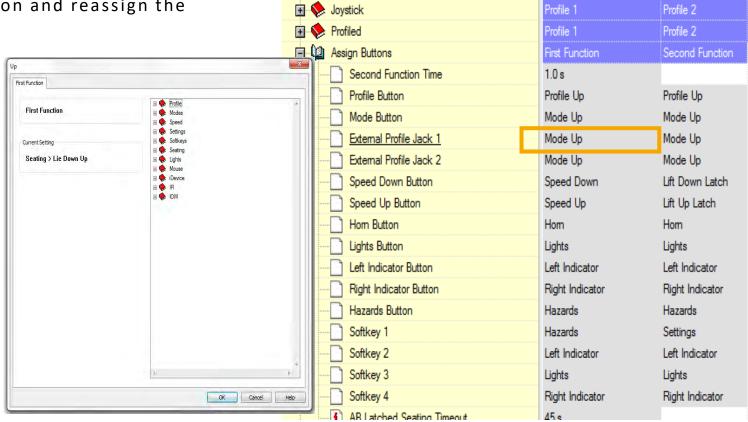
Step 3: The default function is mode. You can change

this function to any other command from the AB list

Double click on the function and reassign the

function.

(for details of how to do this see chapter "how to assign buttons" to joystick)



External Profile Jack Function

☐ Controls
☐ Global

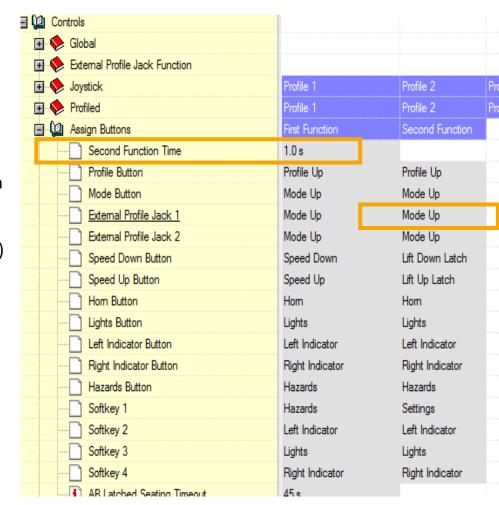


TWO FUNCTION VIA ONE BUDDY BUTTON INTO THE JOYSTICK

Step 1: Repeat the steps for assigning a function to the buddy button in previous pages.

Step 2: To assign a second function to the button select second function show to left and reassign function (full detail in chapter assignable buttons)

Step 3: The button can now do two functions via a short and long press: This time can be programmed via second function timer shown to left.





FOUR FUNCTIONS VIA TWO BUDDY BUTTONS INTO THE JOYSTICK

Step 1: Purchase a stereo to mono jack socket splitter.

Available via Sunrise Medical or local electronics store (e.g. Maplins)

Step 2: Plug into Joystick module jack socket

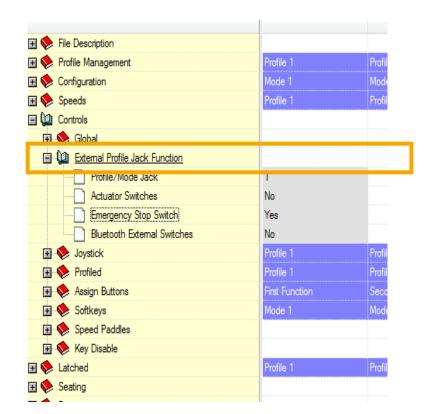


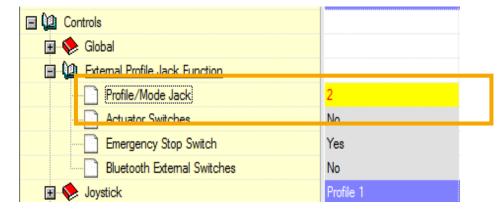


FOUR FUNCTIONS VIA TWO BUDDY BUTTON INTO THE JOYSTICK

Step 3: Select external profile jack socket from the menu screen shown below

Step 4: Change Profile/Mode Jack setting to 2 (defines stereo mode)





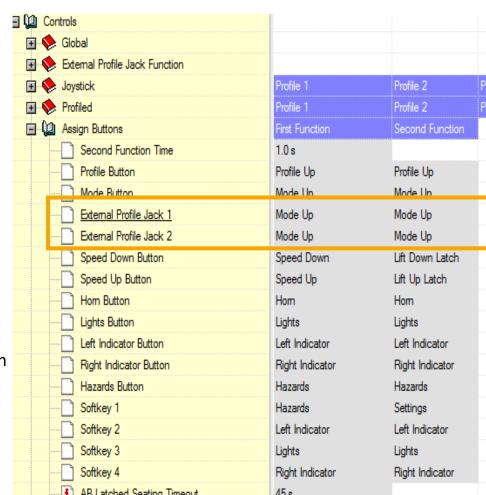


Step 3: Open the assign buttons menu shown to right

You have 4 functions to assign – example below.

Mode Button	Mode Up	Mode Up	
External Profile Jack 1	Seated Up	Lift Toggle Latch	
External Profile Jack 2	Seated Down	iDevice Shortcut 1	
Speed Down Button	Speed Down	Lift Down Latch	
Speed Up Button	Speed Up	Lift Up Latch	
Dan Du	11		

EXAMPLE: If a client with no hand function goes to lie flat and his hand falls from the joystick a button mounted on the base can be pushed to return to seated mode.







ASSIGNING TO THE JACK
SOCKET OF THE OMNI MODULE

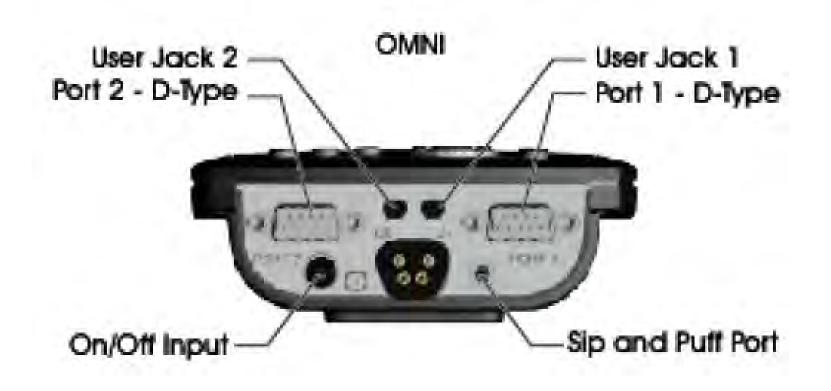
ASSIGNING TO THE OMNI





ASSIGNING TO THE OMNI





ASSIGNABLE BUTTONSASSIGNING TO THE OMNI



For complex clients using special input devices you can assign buttons to the Omni. This is done in the same way as assigning buttons to the joystick but hardware is required

■ Part code 21011077 is required

With this hardware you can achieve

- On/off button via Omni Jack socket (Non reprogrammable)
- Mode button via Omni Jack socket (reprogrammable)
- 5 x buttons via switch box that can be programmed for any function



ASSIGNABLE BUTTONS SUMMARY AND EXAMPLES



- CHANGE TO A LATCHED FUNCTION Reaching seat end positions with the short press of a button
- CHANGE TO A TOGGLE FUNCTION One function up or down on one button
- BLUETOOTH MODE One press straight to phone control
- INFRA RED MENU One to IR Menu to control home entertainment
- LIFT UP LATCH (short press) / LIFT DOWN LATCH (Long Press) One button to do a quick press and drive whilst lifting
- SEATED BUTTON MOUNTED TO BASE Arm falls of armrest in lie flat you can press to return to seated
- SEATED BUTTON MOUNTED TO ARMREST PAD armrest moves form joystick in lie flat easy return to seated
- FOOTPLATE TO GROUND / FOOTPLATE LIFT (STANDING TRANSFER) MOUNTED TO FRONT OF LEGREST client can use
 to stand on footplate and push button to be lifted into chair
- IR COMMANDS TO SWITCH 5 Use switch 5 as a remote control. TV on, Off, Channel up, down
- BLUE TOOTH COMMANDS Right click (short press) / Lift Click (Long Press) Use joystick to hoover over icon on phone and tablet and use button to select or back up