



Clinician Reference Sheet

GUI Info (Programming)

- System current=amount of power device provides to stand up (and stair function)
- Step time=Swing time
- Delay between steps=stance time
- Walk current=amount of power device provides during swing
- Tilt delta=anterior movement to initiate step
- Tilt time out=time allowed to hit tilt delta target

Initial GUI Settings

- Step time: 1100ms
- Delay between steps: 400ms
- Select walk current based on patient's weight, LE strength, and spasticity
- Hip/knee Sit to Stand current determined by weight
- Stand to sit tilt: 6 deg, timeout 3 sec
- Walk tilt: 7 or 8 deg, time out 2-3 sec
- Hip flexion: 18-20 deg
- Knee flexion: 38 deg

Progress GUI settings as patient progresses:

- ↓ step time and delay, ↑ hip flex, ↓ knee flex, attempt ↓ walk current

Important Tips:

- After Graceful Collapse (GC) always **exit** the system, do not try to stand after a GC.
- **Skin check** before and after each session.
- **Check ankle ROM** and set the device ankle joints **within the available anatomical range**.

Sit to Stand (STS) Procedures

- Make sure the user weight is entered for correct power calculation
- Fall Detection ON and set at 25 degrees
- Select seat to allow hips and knees to be at 90 degrees with feet flat on floor and crutches to allow positioning behind hips
- FKBs mounted in middle position and aligned with mid patella. Snug, but not too difficult to close. FKB alignment checked in seated position first, then rechecked in standing.
- Thigh straps high and tight along hip crease
- Verbal and video review of crutch placement, timing, and pressure
- Crutches placed behind hips. Preload crutches after 1 beep
- User pushes throughout the sit to stand process
- Therapist provides only MinA with 1 hand on pelvic band, other hand under glutes
- Tighten thigh straps after each STS transfer
- Do not perform more than 3 consecutive STS at a time

If unsuccessful STS transfer, do the following:

- Connect the device to a laptop
- Adjust hip or knee current if one of them was mentioned in the warning
- Clear the system warning by selecting SIT mode on a communicator
- Practice transfer again
- Also check:
 1. User's position in the device
 2. Thigh strap position and tightness
 3. Crutch position and adequate loading
 4. Other factors that might limit movement forward in the device

Fit Check

- Extremely important to assess fit with all patients prior to walking for the first time! Start from the bottom and work up: foot plate, lateral malleolus, knee alignment, strap tightness, hip alignment, torso alignment, and crutch height. Inferior portion of pelvic band should be below coccyx.

Balance Training Progression

Lateral Weight Shift with Static Crutches
Lateral Weight Shift with Foot Lift(Hip Hike)
Anterior/Posterior Weight Shift
Diagonal Weight Shift
Single Crutch Balance
Perturbations- shoulders then pelvis
Directional Call Outs
Pivoting

BYPASS Mode

- Used to perform all device functions in the event of communicator (watch) failure (i.e. communicator battery depleted, loss of communicator, radio frequency interference.)
- *To Active or Exit Bypass Mode:* Press both buttons on either hip simultaneously for two seconds; a long beep is produced
 - *Sit to Stand/Stand to Sit:* Press and hold either lower hip button for two seconds then press again and hold for two seconds
 - *Walk Mode:* Press either upper hip button for two seconds
 - *Manual Mode:* To Enter-press either upper knee button for two seconds
 - To Exit-press both buttons on either knee for two seconds