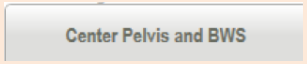
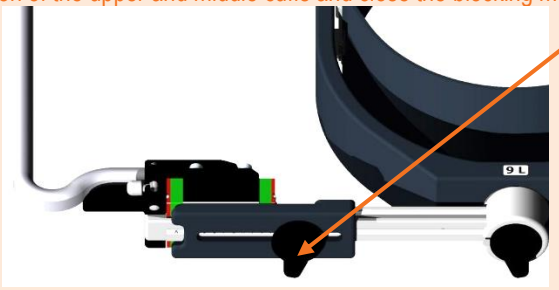
“What is the difference between the patient setup with the LokomatPro and the LokomatPro with FreeD?”

	LokomatPro	LokomatPro with FreeD
1. Leg lengths	Measure upper and lower legs, adjust the orthoses and enter the values in the software.	Measure upper and lower legs, adjust the orthoses and enter the values in the software.
2. Cuffs	Select the cuffs and attach them to the orthoses.	Select the cuffs and attach them to the orthoses. The upper cuffs are delivered in sizes 9 and 7 and should fit most patients. If this is not the case, the middle cuffs can be used.
3. Harness	Select the harness and leg loops. Fix the harness on the patient.	Select the harness and leg loops. Fix the harness on the patient.
4. Lift Patient	Attach the patient to the support frame and lift the patient. Close the swivel door and lower the orthoses.	Attach the patient to the support frame and lift the patient. Close the swivel door and lower the orthoses. Press the “Center Pelvis and BWS” button on the therapist screen and open the pelvic orthosis to its maximum width. 
5. Hip Alignment	Adjust the height of the Lokomat by placing the hip cushions directly above the greater trochanter. Set the pelvic depth and width using the dedicated hand wheels. Fix the pelvis by fastening the strap around the pelvis and by adjusting the orthosis to the rings on the harness. 	Adjust the height of the Lokomat by aligning the greater trochanter with the white plastic indicators. Adjust the pelvic depth by turning on the hand wheel and the pelvic width by pushing inwards on the pelvic cushions (to open, push button and pull). Attach the patient harness to the orthosis by buckling the pelvic straps on the harness.

© Hocoma, www.hocoma.com

6. Knee and ankle alignment	Close the upper cuff and check the knee axis, adjust lower leg length if necessary. Close the middle and lower cuffs.	Close the upper cuff and check the knee axis, adjust lower leg length if necessary. Close the middle and lower cuffs.
7. Sagittal plane alignment	Adjust the upper cuff bracket so that the orthosis is aligned with the patient's femur. Adjust the lower bracket so that an imaginary lines through the lower leg falls behind the lateral malleolus. Adjust the middle bracket and check the knee extension.	Adjust the upper cuff bracket so that the "Lokomat femur" is aligned with the patient's femur. Adjust the lower bracket so that an imaginary lines through the lower leg falls behind the lateral malleolus. Adjust the middle bracket and check the knee extension.
8. Frontal plane alignment*	Adjust the upper, middle and lower cuffs so as to follow the anatomical axes of the patient's legs and so as to set the track width.	Fasten the **foot lifters.**
9. Foot lifters* ***Note: the order of steps 8 and 9 have been switched for LokomatPro with FreeD!**	Fasten the foot lifters.	Adjust the lower cuff so as to set the track width **(frontal plane alignment)**. Set the amount of lateral and medial translation of the upper and middle cuffs and close the blocking mechanism screws. 
10. Mechanical clearance test	N/A	Check that each leg does not collide with the foot lifter bar of the opposite leg at any time during the gait phase.

© Hocoma, www.hocoma.com