

Catapult Running Foot Instructions for Use

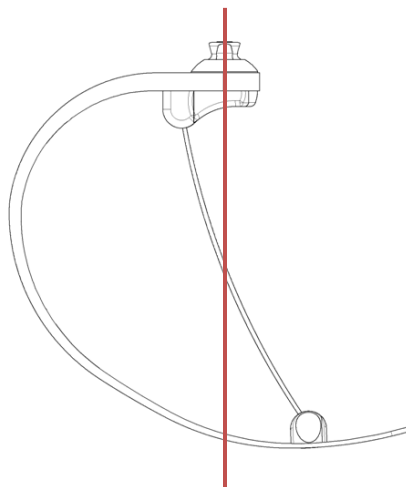
Product Number: FX6 or FX7

Product Description The Catapult Running Foot module is supplied with a tread attached to the distal aspect of the foot module, providing traction for the user and protection for the composite structure. **Removal of this tread will void the 30 day trial period**, but will not affect the 12 month warranty. If you choose to utilize another material for tread, add that material following assembly instructions below prior to attaching the foot module to the socket to prevent inadvertent increase of the overall height of the prosthesis. The Catapult Running Foot is shipped with a soft, medium, and firm PowerSpring which allows for user customization to optimize product stiffness to amputee's activity and preference. The medium stiffness PowerSpring is installed from the factory.

Assembly If an alternate tread is desired, select a suitable material such as a modified running/sprinting shoe of other sole material with a tread pattern. Attach the sole so it extends in an anterior direction beyond the distal edge of the foot module. After dynamic alignment, torque pyramid adjustment screws to the manufacturer's specifications. Secure pyramid adjustment screws with a thread locking adhesive (i.e., Loctite 242). To interchange the PowerSpring: 1. Remove the Torx Plus screws located on the upper and lower hinge gate with the supplied Torx Plus L-key Wrench. 2. Remove lower and upper hinge gates. 3. Remove PowerSpring by sliding laterally out of hinge pockets (Use caution as PowerSpring is assembled under a slight preload). 4. Grease bearings on ends of PowerSpring if necessary with supplied grease. 5. Reassemble strut with C-Spring, replace hinge gates, and insert Torx Plus screws. 6. Torque Torx Plus Screws only with supplied tool (Using inappropriate tool increases risk of stripping screw head).

Bench Alignment Prior to donning the prosthesis:

- Proximal portion of foot module should be horizontal to the ground.
- Adduct/Abduct socket to provide appropriate frontal plane angle.
- Flex/Extend socket to provide appropriate sagittal plane angle.
- Add 5° additional external transverse rotation to the foot module.
- Establish proper height. Increase overall height of prosthesis up to 25mm longer than the sound side with an appropriate shoe donned to compensate for vertical compression.
- Move the socket linearly in an anterior-posterior motion to ensure the weight line of the bisected socket falls through the center of the proximal connector. (See illustration below).



Dynamic Alignment Optimal performance of the foot module will be achieved by introducing symmetry of gait during physical activities that mimic the every day use of the prosthesis. Due to the variation in physical condition of athletes as well as the widely varied range of activities encountered, close attention to dynamic alignment of the Catapult Running Foot will

ensure optimal energy return and improve control of the prosthesis. Video and/or still photography has been found to be a helpful tool to refine optimal alignment.

- Adjust the foot module toe out and socket flexion/adduction angles according to the user's requirements.
- Stride length may be shortened by moving the weight line anterior in relation to the foot module or vice versa.

Troubleshooting

Verify user is spending an equal amount of time on each lower limb. If not, make adjustments to improve gait symmetry.

If user spends more time on the prosthesis, correct the following problems:

- If foot module is too soft, move posterior in relation to weight line.
- If prosthesis is too short, increase height.

If user spends more time on the sound limb, correct the following problems:

- If foot module is too stiff, move anterior in relation to weight line.
- If prosthesis is too long, decrease height.

Catapult Running Foot System

Minimum clearance: 241 mm (9.5 in)

Maximum user weight: 166 kg (365 lbs)

Warranty: Graphite components, pyramid connector, PowerSpring (12 months)

Maintenance

The foot module requires periodic maintenance.

- Inspect the foot module every six months. If the user is more active, more frequent inspection may be necessary. Service as necessary.
- Replace tread material as it wears before damage occurs to the composite foot module.
- If dirt or other debris gets into the hinge; disassemble, clean with soap and warm water, dry, re-grease, and reassemble.

Warnings

Failure to adhere to the guidelines of the *Instructions for Use* will void the warranty.

- Freedom Innovations foot modules are manufactured to fit industry standard pyramids and receivers. It is the Prosthetist's responsibility to select and/or fabricate properly fitting attachment components.
- Never attempt to loosen the bolt affixing the pyramid connector.
- Discontinue use and consult your prosthetist if any part of the prosthesis starts to make noise.
- Inform your prosthetist if you lose or gain a significant amount of weight.
- Freedom Innovations foot products are manufactured and tested for a particular weight and activity impact level. Use by another user for whom it was not originally manufactured may cause injury and shall void any written or implied warranty.
- Never assemble the Catapult without an appropriate tread material attached to the distal aspect of the foot. Without protection, the graphite of the foot module will fail prematurely.
- Never use the Catapult without the pyramid attachment.
- Never shorten the Catapult by removing composite material distally. It is permissible to round the distal corners of the foot module.
- When the tread material wears, consult your prosthetist for repair/replacement before damage to the composite foot module occurs.



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