

# Freedom Maverick™ Comfort AT Instructions for Use

Product Number: F22

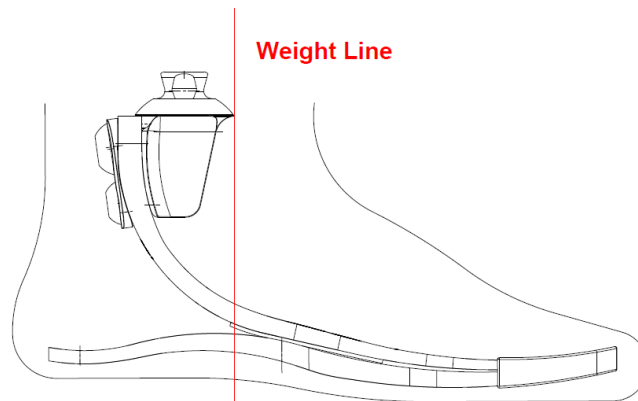
## Assembly

The Freedom Maverick Comfort AT foot module is pre-assembled consisting of glass composite components (keel and sole plate), a Spectra™ sock, and a foot shell. Stiffening bumpers for increasing heel stiffness are provided. After dynamic alignment, torque pyramid adjustment screws to the manufacturer's specifications. Secure pyramid adjustment screws with thread locking adhesive (e.g., Loctite 242).

## Bench Alignment

Prior to donning the prosthesis:

- Plantar flex/Dorsiflex the foot to match the shoe heel height (foot designed for shoes with 10mm (3/8") heel height).
- Adduct/Abduct the socket to provide appropriate frontal plane angle.
- Flex/Extend the socket to provide appropriate sagittal plane angle.
- Move the socket linearly to ensure the weight line falls along the anterior edge of the pylon (see illustration).



## Dynamic Alignment

During *loading response*, the heel lever stores energy and releases it during *midstance*. This action provides momentum for the keel to store energy and release it during *terminal stance*. To optimize the heel to toe rollover motion, adjust the following variables:

- Anterior/posterior foot placement
- Dorsiflexion/plantar flexion
- Heel stiffness

## Troubleshooting

Heel too soft

### Symptoms

- Foot flat occurs too rapidly
- Toe feels excessively stiff
- Knee hyperextension

### Solutions

- Shift socket anteriorly in relation to the foot
- Attach stiffening bumpers. See **Stiffening Bumpers** section below for installation instructions

Heel too hard

### Symptoms

- Rapid knee flexion, instability
- Heel to toe progression too rapid

- Lack of energy return sensation

*Solutions*

- Shift socket posteriorly in relation to the foot
- Verify appropriate foot module category

Foot module too stiff

*Symptoms*

- Flat spot in rollover motion at slow cadences

*Solutions*

- Consider a lower category foot module

Foot module too soft

*Symptoms*

- Clicking noise at *initial contact*
- Excessive toe deflection with high impact activity

*Solutions*

- Consider a higher category foot module

**Stiffening Bumpers**

Stiffening bumpers are included to adjust the heel stiffness during *loading response*. The bumpers may be temporarily attached between the heel lever and the keel using the pre-applied adhesive in the location indicated on the bumper package to increase heel stiffness one category. If the heel stiffness is too stiff, move the bumper posteriorly; too soft, move it anteriorly. For permanent placement, clean off the pre-applied adhesive with Acetone, and adhere bumpers using Super Glue (cyanoacrylate).

**Spectra™ Socks**

One Spectra™ sock is provided to minimize noise and to decrease friction between the foot and the shell. The Spectra™ sock should be placed over the keel and the heel section before donning the foot shell. Spectra™ socks must be replaced at intervals appropriate to the user's activity level. Failure to inspect and replace the Spectra™ socks may prematurely wear the foot module, and could void the warranty.

**Foot Shell**

When removing or installing the foot shell, use the Foot Shell Removal Tool (ACC-00-10300-00) to prevent damage to the foot module.

**Maverick System**

Maximum user weight: 166 kg (365 lbs.)  
 Available sizes: 23cm-30cm  
 Warranty: Glass composite components/pyramid connector (36 months)  
 Foot shell (6 months)

## Maintenance

The foot module requires periodic maintenance.

- Inspect the foot module every six months. If the user is very active, more frequent inspection may be necessary. Service as necessary. Replace Spectra™ sock and/or foot shell if worn to prevent damage to the glass composite components.
- The foot module may be cleaned and/or disinfected with soap and warm water.
- Do not allow aggregates such as sand to remain in the foot shell. Upon exposure to aggregates, immediately remove the foot shell and rinse the foot and shell with water. The abrasive properties of aggregates will quickly wear the glass composite components of the foot module.
- Rinse with fresh water and dry following exposure to sea water or chlorinated water.

## Warnings

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

- Never use the foot module without a foot shell.
- 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.



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