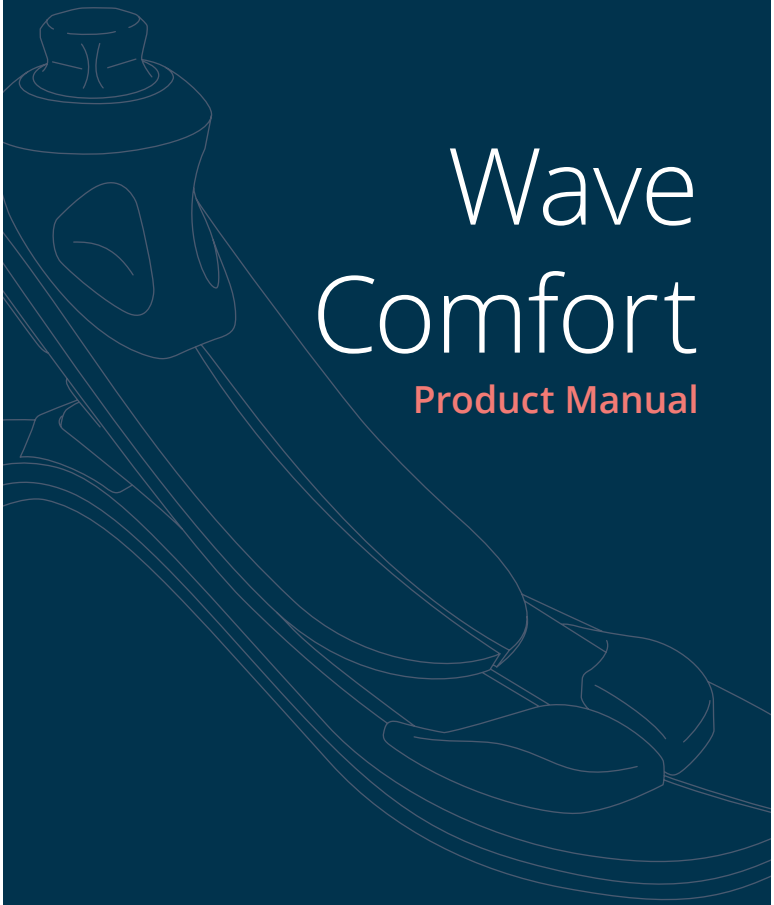


Wave Comfort

Product Manual

Fillauer®

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Intended Use

The Wave Comfort 3 (WC3) prosthetic foot is intended for use in lower extremity prostheses. The foot uses three carbon composite elements (Figure 1) that conform to terrain while storing and releasing energy during gait. The two upper carbon springs in the WC3 combine to provide a high rate of energy return while the separation between those springs reduces stiffness in all three planes. The wave spring foot plate creates a soft heel for shock absorption, quick foot flat, and a resulting early stance stability at the knee. Patients will experience significantly improved range of motion when walking up and down slopes compared to similar devices as well as greater compliance on uneven terrain.

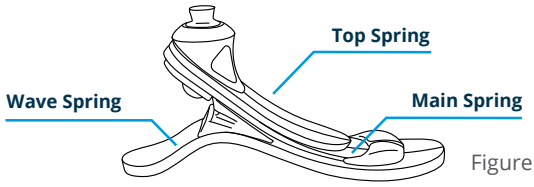


Figure 1

Indications

- Low to moderate activity transtibial or transfemoral amputees as defined by functional K3 activity levels
- Unilateral or bilateral patients
- Patients that would benefit from moderate energy return
- Patients that would benefit from knee stabilization from heel strike to foot flat
- Patients weighing up to 330 lbs. (150 kg)

Contraindications

- Clearance below 4 in. (10 cm)
- Patients weighing over 330 lbs. (150 kg)
- Patients wanting to run or jog regularly on the device

The device is intended for single patient use only.

Performance Characteristics

- Patient weight: Up to 330 lbs. (150 kg)
- Foot weight: 13.2 oz. (374 g)
- Build height: 4 in. (10 cm)
- Functional level: K3
- Durable; meets ISO-22675 standard

- Primary Materials: Carbon composite, stainless steel, titanium, and aluminum
- Waterproof: The foot unit is waterproof to 1 meter. See additional information below.

Storage and Handling

It is recommended that prosthetic feet be stored in a cool, clean, dry environment away from harsh chemicals (chlorine, acids, acetone, etc.).

Warnings and Precautions



CAUTION: The Wave Comfort 3 is designed to be maintenance free and should not be disassembled. The pyramid dome on the foot is permanently attached to the pylon (main and top) spring and should not be removed.



CAUTION: For patient safety and device compatibility, only Fillauer or equal, ISO 10328 compliant, pyramid receivers should be used with this foot.



CAUTION: Abnormal or improper environmental conditions will lead to malfunctioning and damage of the prosthesis and is not covered under the warranty of the device. This prosthetic/orthotic component must not be subjected to dust/debris, liquids other than fresh water, abrasives, vibration, activities which would damage the biological limb, or prolonged, extreme temperatures (< -5 °C or > 50 °C). Do not allow debris or liquids to remain in the prosthesis and its components during use. Rinse the foot with fresh water and dry immediately after exposure.



CAUTION: The foot unit is waterproof to 1 meter. However, if the foot is submerged, the foot and foot shell should be rinsed with fresh water and **dried** immediately to remove salt, chlorine, or debris. The foot shell and sock will experience significant deterioration if not allowed to fully dry before return to normal use and are not covered under warranty for this failure.

NOTICE: The foot should be inspected by the clinician every six months for signs of abnormal wear and to assure that the attachment/alignment screws are secure.

NOTICE: The foot stiffness is based on weight and activity level. Please provide accurate patient information so that the appropriate foot may be selected.

NOTICE: Attachment, alignment, and delivery of the foot must be performed by or under the direct supervision of a qualified prosthetist. Any adjustment or modifications should be done by the clinician and not by the user.

NOTICE: If any serious incidents occur in relation to the usage of the device, contact your Fillauer Representative and the appropriate authority in your country.

Alignment (Specifications & Preparations Before Use)

Proximal attachment

Attachment of the foot may be achieved via the proximal pyramid to any ISO 10328 compliant, Fillauer or equal, standard adult pyramid receiver. Torque all set screws to the setting specified by the manufacturer of the pyramid receiver. For Fillauer components, this is 15 N·m. Proper thread locker must be used for final delivery per the component manufacturer's specifications.

Static and Bench Alignment

Standard bench alignment techniques may be used for the Wave Comfort 3 (Figure 2). Before aligning, the initial heel height should be established. The Wave Comfort 3 is designed for a ⅜ inch or 1 cm heel height. The initial heel height can be established with a simple spacer under the heel. The top of the pyramid should be parallel with the work surface before proceeding with alignment. A backward leaning pylon indicates that the heel height is too low and will make late-stance rollover difficult.

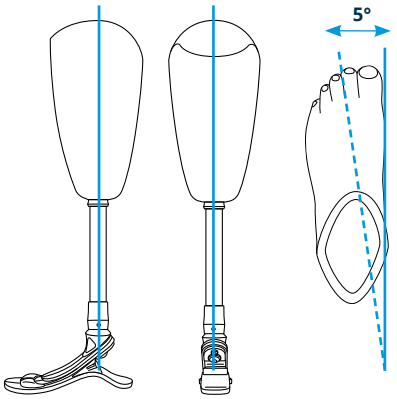


Figure 2

The socket should be set with the proper amount of inset found in the evaluation. A plum line from the bisection of the socket at the proximal brim in the frontal and sagittal plane should bisect the ankle pyramid. The foot may be slightly inset, 1–12 mm, depending on the limb length. Short limb lengths are set with very little inset of 2–3 mm and longer limb lengths may tolerate a greater varus thrust of 10–12 mm. The longitudinal axis of the foot will be outset approximately 5° by aligning the medial border of the foot with the line of progression.

Transfemoral Bench Alignment

Alignment at the transfemoral level should be consistent with the instructions provided by the manufacturer of the prosthetic knee in use.

Dynamic Alignment

The Wave Comfort 3 is flexible and conforms well to the ground. This characteristic may make the foot appear to be properly aligned after the static alignment. However, small adjustments in the alignment however will smooth the transition from heel to toe, optimize gait and efficiency. Patient feedback during this process is essential. In the dynamic alignment of the foot, the socket flexion angle and heel stiffness are altered to achieve optimal alignment and patient gait.

1. Check for smoothness of gait and ground contact during stance phase.
2. If the heel rollover is delayed from heel strike to midstance, or the heel compression is too great, dorsiflexion of foot may correct this problem. It is also possible to replace the heel bumper with a firmer, 60A bumper available from Fillauer. See bumper installation instructions.

3. If the heel rollover is too rapid from heel strike to midstance, or the heel is too hard, plantarflexion of the foot may solve this problem.
4. If the anterior keel rollover progresses too quickly from midstance to toe loading, the patient may say that they are “walking up a hill.” Plantarflex the foot to provide more anterior support.
5. If the anterior keel rollover hesitates from midstance to toe loading, the patient may say that they are “walking down a hill.” Dorsiflex the foot to increase the rate of rollover.

Changing the toe stiffness

The toe stiffness is pre-determined by the load category of the anterior spring members. This stiffness can be dynamically adjusted by changing the amount of plantar/dorsi-flexion of the foot. This adjustment increases or decreases the amount of anterior support during gait.

If a smooth stance phase of gait cannot be achieved, contact Fillauer for additional assistance.

Heel Bumper Installation

The foot is supplied with two heel bumpers: 40A durometer is standard and pre-installed. If desired, the “Firm” bumper (60A) can be installed to stiffen the heel performance.

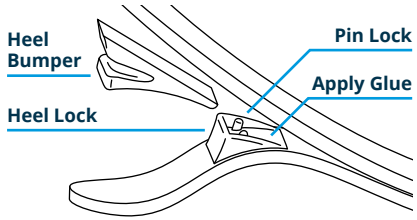


Figure 2

1. Pull the pylon and foot plate apart. Insert a piece of plastic to hold parts open.
2. Remove the Heel Bumper by pulling it up and away from the heel lock.
3. Install the new bumper and ensure the Lock Pins engage the Heel Bumper properly.
4. When the desired bumper density is determined, remove the bumper, and apply Superglue to the Heel lock and reinstall the bumper.

Replacement Heel Bumpers

Description	24 cm and Smaller	25 cm and Larger
40A Softer (Pre-installed)	**100-10-2540**	**100-10-2640**
60A Stiffer	**100-10-2560**	**100-10-2660**

Consumable Components: Foot Shell and Prosthetic Sock

The WC3 uses a unique cosmetic foot shell that is flexible and durable (sold separately). Use care in the installation and removal of the foot shell to maintain its appearance and durability. Always use the shell with an internal prosthetic sock. Never use a sharp-edged tool such as a screwdriver to install or remove the foot shell.

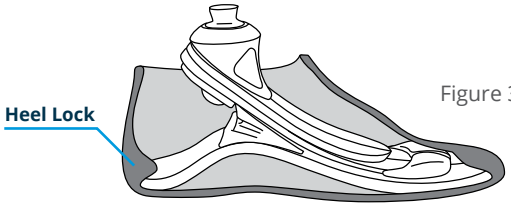


Figure 3

Installation

- Slide the prosthetic sock onto the foot from toe to heel, pulling excess material to the ankle so that it does not bunch under the heel or toe of the foot.
- Insert the forefoot into the foot shell as far as possible. Set the heel on a supportive surface with the toe up and push the shell onto the foot until the toe is in position.
- Rotate the foot side to side to allow the foot shell to slide onto the heel.
- Push the foot shell up onto the heel or, if necessary, insert a shoehorn into the foot shell and allow the heel to slide down a shoehorn into the heel lock. The heel must lock (Figure 3) in place for proper function and safety.

- The foot shell should be inspected daily by the user and replaced by the clinician when tears or breaks are evident in the surface of the shell.
- The prosthetic sock should be inspected and replaced if needed every 3–6 months by the prosthetist. The plantar surface of the foot should be inspected at this time and if there is excessive wear of the protective soling, it should be replaced.

Removal

- Place the foot on the bench so that the heel is hanging over the edge of the bench.
- Apply downward force to the top portion of the foot shell at the heel. The heel plate should pop out of the heel lock, allowing removal of the foot shell by hand.
- If the foot shell is too tight, a smooth-edged shoehorn may be used to disengage the heel lock.

Compatibility

Fillauer feet are appropriate for use with Fillauer or equal, ISO 10328 compliant, endoskeletal components. A Fillauer foot shell should be used with this device, the fit of other manufacturers' shells cannot be guaranteed.

Disposal / Waste Handling

The product must be disposed of in accordance with applicable local laws and regulations. If the product has been exposed to bacteria or other infectious agents, it must be disposed of in accordance with applicable laws and regulations for the handling of contaminated material.

All metal components may be removed and recycled at the appropriate recycling facility.

Warranty

- 36 months from date of patient fitting
- Foot Shell (sold separately) — 6 months from date of patient fitting.

User Instructions

The providing health care professional must review the following information directly with the user.

Care and Maintenance



WARNING: If the foot performance changes or it begins to make noise, the patient should immediately contact his or her practitioner. **These things may be as sign of a failure of the foot or other part of the prosthesis that could result in a fall or other serious injury.**



CAUTION: Attachment, alignment, and delivery of the foot must be performed by or under the direct supervision of a qualified prosthetist. Any adjustment or modifications should be done by the clinician and not by the user.



CAUTION: The foot should be inspected by the clinician every six months for signs of abnormal wear and to assure that the attachment/alignment screws are secure.



CAUTION: The foot is waterproof to 1 meter. However, if the foot is submerged, the foot and foot shell should be rinsed with fresh water and dried immediately to remove salt, chlorine, or debris.



CAUTION: The foot shell is designed to provide realistic appearance and maximum performance of the Wave Comfort 3. The life of the foot shell will depend on level of activity and degree to which it is protected from wear and damage with socks and shoes. Socks and shoes should be worn at all times and should be allowed to dry fully after exposure to water to prevent damage to the shell.

CAUTION: Patients should inspect the shell daily for signs of cracks or holes and for the presence of sand or other debris. If the foot shell shows signs of failure, it should be replaced as soon as possible to prevent damage to the carbon fiber and soling materials. If debris is present, the foot and shell should be rinsed and allowed to fully dry.

CAUTION: The foot shell may also be cleaned with a soft cloth and a soap and water solution or with rubbing alcohol (70%). Do not use acetone. It will damage the foot shell.

Serious Incidents

In the unlikely event a serious incident occurs in relation to the use of the device, users should seek immediate medical help and contact their prosthetist, local competent authority and Fillauer at the earliest possible convenience. Clinicians should at any time contact their local Fillauer representative and local competent authority immediately in the event of any device failure.

Fillauer
2710 Amnicola Highway
Chattanooga, TN 37406
423.624.0946

EC REP **Fillauer Europe**
A Fillauer Company
Kung Hans väg 2
192 68 Sollentuna, Sweden
+46 (0)8 505 332 00

Fillauer®

www.fillauer.com

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