



# AIPro PM

Product Manual

*Fillauer*®

# Contents

Intended Use.....	<b>3</b>
Warnings and Precautions .....	<b>4</b>
Alignment (Specifications & Preparations Before Use).....	<b>5</b>
Foot Shell and Prosthetic Sock (Consumable Components) .....	<b>8</b>
Compatibility.....	<b>9</b>
Disposal / Waste Handling .....	<b>9</b>
Warranty .....	<b>9</b>
User Instructions .....	<b>10</b>
Serious Incidents .....	<b>11</b>



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# Intended Use

The AllPro PM posterior-mounted, prosthetic foot is intended for use in lower extremity prostheses. The foot uses a long carbon pylon (Figure 1) to maximize energy storage and release during gait, similar to a “running blade”. It has a special wave spring foot plate for shock absorption and terrain compliance at heel strike. This foot is intended for patients that require competition-level energy return with the ability to stop and turn that only comes with a heel. It is also an exceptional walking foot for strong users, especially those with longer residual limbs and the height requirements that come with those limbs. The AllPro PM bridges the gap between everyday foot and sport-specific prosthesis in a single device.

## Indications

- Moderate to very high activity transtibial or transfemoral amputees as defined by functional K3 and K4 activity levels
- Unilateral or bilateral patients
- Patients that would benefit from high energy return
- Patients that would benefit from low build height
- Patients weighing up to 330 lbs. (150 kg)

## Contraindications

- Clearance below 4 in. (10 cm)
- Patients weighing over 330 lbs. (150 kg)

The device is intended for single patient use only.

## Performance Characteristics

- Patient weight: Up to 330 lbs. (150 kg)
- Foot weight: 21 oz. (600 g)
- Build height: 4 in. (10 cm)
- Functional level: K3 – K4
- Durable: meets ISO-22675 standard
- Primary Materials: Carbon composite and stainless steel
- Waterproof: The foot unit is waterproof to 1 meter. See additional information below

## Storage and Handling

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

# Warnings and Precautions



**CAUTION:** The AllPro PM is designed to be maintenance free and should not be disassembled.



**CAUTION:** For patient safety and device compatibility, only the appropriate Fillauer Posterior Mounting Bracket should be used with any Fillauer Posterior Mounted 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 ( $< -5\text{ }^{\circ}\text{C}$  or  $> 50\text{ }^{\circ}\text{C}$ ). 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 6 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.

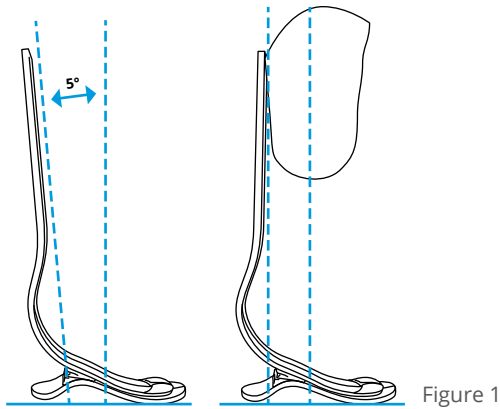


**NOTICE:** If any serious incidents occur in relation to the usage of the device, contact your Fillauer Representative and the competent authority in your country.

# Alignment (Specifications & Preparations Before Use)

## Proximal attachment

The Adjustable Alignment Bracket (PN [180-10-4000](#)) may be used for temporary, adjustable attachment during alignment. The Posterior Mounting Bracket (PN [180-10-2010](#)), typically used for permanent attachment, may also be used in a temporary setting but only allows angular adjustments. Permanent attachment of the foot may be achieved via direct lamination or use of the Posterior Mounting Bracket. See Posterior Mounting Bracket or Adjustable Alignment Bracket instructions for more information or request assistance from Fillauer for further instruction in this process.



## Static Alignment—Sagittal Plane

Before aligning, the initial heel height should be established. The AllPro PM employs a 5° posterior lean (Figure 1) with a 10 mm ( $\frac{3}{8}$  in.) heel block to preload the anterior keel. When the patient is weight bearing, the socket bisecting should settle to a vertical to slightly flexed position.

## Transtibial Frontal Plane Alignment

A plum line from the bisection of the socket at the proximal brim in the frontal and sagittal plane should bisect the keel of the foot (Figure 2). The foot may be slightly inset 1 – 12 mm depending on the limb length. Most runners prefer a wider base of support with the foot slightly lateral to the distal bisection, 7 – 13 mm. The longitudinal axis of the foot will be externally rotated approximately 5 – 8° by aligning the medial border of the foot with the line of progression.

## Transfemoral Static Bench Alignment

Alignment at the transfemoral level should be consistent with the instructions provided by the manufacturer of the prosthetic knee in use. Attachment to the prosthesis will be challenging with transfemoral amputees and the method of doing so is at the discretion of the treating clinician.

## Dynamic Alignment

It is important to align the prosthesis so that the anterior keel is loaded sufficiently to provide dynamic response late in stance. Some bending of the carbon pylon is desirable for optimal performance and foot deflection may be more noticeable during dynamic alignment. Up to ½ in. (12 mm) additional height may be needed to accommodate for spring deflection. Patient feedback during this process is essential. Use the Adjustable Alignment Bracket Kit for easier alignment of any Fillauer posterior mounted foot. If using the Posterior Mounting Bracket alone, adjustment of plantar/dorsiflexion angles using the alignment wedges will help achieve a smooth transition from heel to toe and provide adjustment of transverse plane foot rotation.

1. During the stance phase of gait, monitor to ensure smoothness and ground contact throughout.
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 the firmer 60A bumper supplied with the foot. 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. Ensure that the softer bumper is installed before making any angular adjustments.
4. If the rollover is too rapid from midstance to toe loading, increased plantarflexion may be required.
5. If the rollover from midstance to toe loading is delayed, dorsiflexion may be indicated.
6. Check to make sure pylon is vertical in the frontal plane at midstance. This angulation will be done by moving the bracket, so extra time spent in bench alignment to properly match the patient's current angulation is advised.

## Heel Bumper Installation

The foot is supplied with two heel bumpers: the PU Foam bumper (40A) is standard and pre-installed. If desired, the firmer bumper (Solid Rubber 60A) can be installed to make the heel firmer (Figure 2).

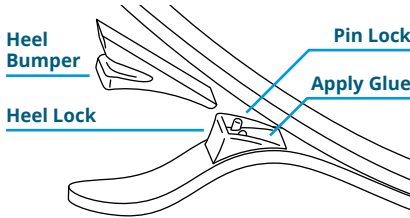


Figure 2

1. Pull the pylon and foot plate apart. Insert a piece of plastic to keep the gap 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 super glue to the heel lock and reinstall the bumper

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

# Foot Shell and Prosthetic Sock (Consumable Components)

The AllPro PM 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.

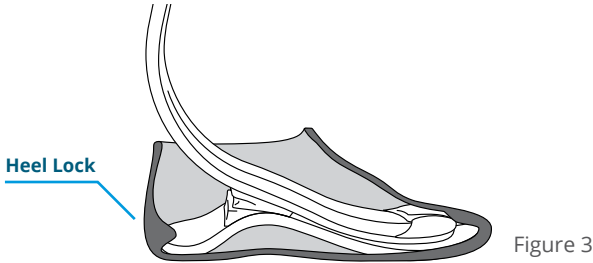


Figure 3

## Installation

- Pull 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 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.
- 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.

## 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's adult posterior mounting feet are appropriate for use with the adult sized Fillauer Posterior Mounting Bracket and Adjustable Alignment Bracket. A Fillauer prosthetic sock and foot shell (not included) 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 a 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 AllPro.



**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 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:** The foot shell may also be cleaned with 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.

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