

# WillowWood® SACH Foot Instructions

## WHAT'S IN THE BOX

WillowWood SACH Foot  
M10-1.5 x 38 mm bolt (Part No. 700-B118)  
3 Heel Inserts (Soft, Medium, Firm)  
Lock Washer  
Instructions  
Patient Advisory Warning

## MODIFYING THE FOOT

Do not alter the top of the foot sufficiently to change the angle between the bolt hole and the top of the foot. This may cause bolt fracture due to the resulting bending moments that may be generated due to uneven mating surfaces.

The urethane foam shell may be lightly sanded with little resulting loss of strength. Do not expose the internal components of the foot, as this could reduce the structural integrity of the foot.

## EXPOSURE TO WATER

The WillowWood SACH Foot is essentially water resistant, provided no open cracks have developed and no area of the foot has been sanded. Seal the bolt hole before exposing the foot to water. Complete submersion in water is not recommended.

## FOOT BOLTS

WillowWood recommends using the M10-1.5 x 38 mm bolt (Part No. 700-B118) and lock washer included with the WillowWood SACH Foot. (A 3/8"-16 x 2.75" bolt, Part No. 700-B120, is also available for use with English thread components and for exoskeletal applications.) When assembled, the end of the foot bolt must be within 2 mm of the top of the foot pyramid. (Please note that if the foot bolt extends more than 2 mm above the foot pyramid, the bolt will interfere with the function of WillowWood Foundation components.) The use of fasteners other than those provided for this product is done so at the sole judgement of the attending prosthetist. The use of the provided fastener is not recommended for any product other than WillowWood feet.

To significantly reduce the possibility of bolt failure, the structures connected by the bolt must both be rigid. (Non-rigid structures demonstrate slight deformation upon loading, resulting in bending of the foot bolt that inevitably leads to failure.) The WillowWood SACH Foot has been thoroughly tested to ensure that no keel deformation will occur; the prosthetist is then responsible for selecting a component to attach to the keel that is at least as rigid as the keel itself. The foot bolt is a high quality capscrew that has been manufactured especially for this purpose, but WillowWood cannot guarantee its suitability for use with components from other manufacturers.

## INSTALLATION

**Foot Pyramid:** Use the Titanium Foot Pyramid Adapter (Part No. 2LTC-1208) for best results. Since the ridge on the bottom of the Titanium Foot Pyramid Adapter grips into the composite keel when it is tightened, no interface plate is necessary. However, if you will be changing the position of the adapter numerous times (during a temporary alignment, for example), we recommend that you use a WillowWood Interface Plate (Part No. 3F-6CC-002), a leather interface, or some similar temporary device to prevent excessive deformation of the keel. WillowWood will not accept returns of feet with deformed keels. This temporary interface must be removed prior to final assembly of the prosthesis in order to achieve adequate thread engagement of the foot bolt with the foot pyramid.

If using another manufacturer's foot pyramid, a special interface plate (Part No. 3F-6CC-002) may be required to accommodate the keyways on the bottom of the foot pyramid.

**Torque:** Tighten the Foot Bolt to 30 ft-lbs (41 Nm).

**Heel Inserts:** Install heel inserts by pressing them into the recess on the bottom surface of the foot. No adhesive is necessary for definitive use. Do not use the foot without a heel insert in place.

# WillowWood®

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**Exoskeletal Applications:** The WillowWood SACH Foot can also be used for exoskeletal applications. When using a wood ankle block, apply a thin layer of epoxy adhesive between the keel and the ankle block to prevent rotation. When using a polyurethane ankle block, use a WillowWood Interface Plate (large size) attached with epoxy adhesive. Exoskeletal applications may require the use of a 3/8"-16 x 2.75" foot bolt (Part No. 700-B120).

#### **PATIENT ADVISORY WARNING**

The attached Patient Advisory Warning enables you, the prosthetist, to effectively notify your patients of the limitations of the components in their prosthesis, and of the need to monitor their weight and activity levels. Please review the Patient Advisory Warning with the patient upon delivery of a prosthesis with a WillowWood SACH Foot. The patient and the prosthetist should then sign the Patient Advisory Warning to acknowledge that it has been reviewed and understood by both parties. Give one signed copy to the patient and place one copy in the patient's file.

If a patient's weight or activity level increases after receiving a prosthesis with a WillowWood SACH Foot, the patient should immediately contact the prosthetist to determine whether replacement components are necessary. If a patient continues to use a prosthesis with a WillowWood SACH Foot after experiencing an increase in weight and/or activity level, the foot could fail with the possibility of serious injury to the patient.

To ensure that the correct components are selected for each patient, the prosthetist should weigh the patient on scales in the prosthetist's office. Do not rely on the patient's estimate of his/her own weight. Instruct the patient to monitor his/her weight weekly to ensure that it remains in a range appropriate for the prosthetic components being used.

#### **WARRANTY**

The warranty for the WillowWood SACH Foot is one year from date of invoice. Use of the WillowWood SACH Foot for amputees whose adjusted body weight is more than 250 lbs (115 kg) or who engage in extremely high and abusive activity is against WillowWood's recommendations and will void the one year warranty. Adjusted body weight is defined as the weight of the amputee plus any loads carried by the amputee. "Extremely high and abusive activities" are defined as activities such as skydiving, karate, and judo; activities that could result in injury to an individual's natural feet; and activities that expose the prosthesis to corrosives such as salt water.

#### **WARRANTY DISCLAIMER**

WillowWood warrants that each product manufactured will, at the time of delivery, be of workmanlike quality and substantially free of defects. WILLOWWOOD MAKES NO OTHER WARRANTY, IMPLIED, OR EXPRESSED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty shall terminate immediately upon an action to combine our products with other materials or in any manner to change the nature of our products. The sole remedy is replacement of the products or credit for the products. WillowWood's liability shall not exceed the purchase price of the product. WillowWood shall not be liable for any indirect, incidental, or consequential damage.

#### **WILLOWWOOD RETENTION OF RIGHTS**

WillowWood retains all intellectual property rights reflected or incorporated in its physical products, regardless of the transfer of the physical products to another party or parties.