

Posterior Mounting Bracket



Instructions

The Posterior Mounting Bracket is designed for use with posteriorly mounted feet. It is the recommended attachment system for use with the Fillauer Aeris Activity, Wave Sport V3, AllPro PM, and Blaze PM.

These instructions should be read prior to fabricating and fitting and should be followed to ensure the proper integration of the plate into the prosthetic system.




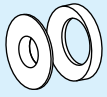
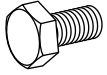
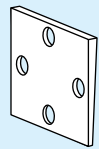
Product Specifications

Plate Thickness: 0.3 in. (8.6 mm)
Rated for patients up to 330 lbs. (150 kg)
Weight: 3.1 oz. (87 g)
Moderate to high activity levels

Warranty

12 months from date of patient fitting

The Posterior Mounting Bracket has been designed and manufactured for specific patient weights. Failure to follow the weight guidelines and/or overload conditions caused by the patient, such as heavy lifting, high impact sports, or abusive activities that would otherwise damage the natural limb, may void the warranty.

	Product Name	Product Number	Quantity
	Aeris Activity Bracket Assembly	180-10-2100	1
	AllPro Bracket Assembly	180-10-2110	
	Running Blade Bracket Assembly	180-10-2110	
	Formula Bracket Assembly	180-10-2110	
	Lamination Dummy Cover	180-30-2150	1
	Sanding Screen	180-30-2250	1
	M10 Spherical Washer Seat	180-30-2430	2
	M10 Spherical Washer	180-30-2425	2
	M10-1.5 × 20 mm HHCS	180-30-2350	2
	M10-1.5 × 25 mm HHCS	180-30-2352	2
	M10-1.5 × 30 mm HHCS	180-30-2354	1
	M10-1.5 × 35 mm HHCS	180-30-2356	1
	2° Alignment Wedge	180-30-2203	2
	5° Alignment Wedge	180-30-2205	1
	Threadlocker TL42		1

Installation

Attention: Deviating from the installation instructions or modifying the foot in any way will void any product warranty and could lead to product failure and injury to the patient.

Alignment

Using the following method to approximate the location of the pylon mount on the posterior of the socket.

1. Trace the current prosthesis in the sagittal plane noting foot position and height of MPT to bottom of foot. (If this is the patient's first prosthesis, it is recommended that a static alignment is done with an endoskeletal system and foot that can be replaced during dynamic alignment.)
2. Place the new socket in the same position on the tracing.
3. Place the posterior mount foot in the same position as the current foot, noting that the posterior mount foot may have greater deflection upon static loading (standing).
4. Trace position of new socket and posterior mount foot on paper using a different color.
5. Observe the rotation of the foot, pylon M/L angle (lean) and pylon M/L position (inset) on the current prosthesis and approximate this position on the new socket by drawing a vertical line on the posterior of the new socket. (Figure 1)

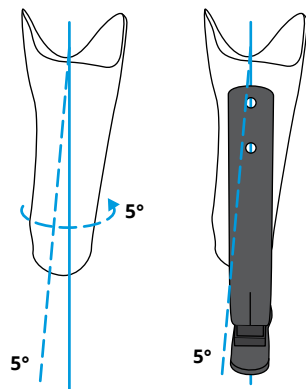


Figure 1

6. Remove the bolts from the mounting plate and use the bolt holes as "sights" to line up the mounting plate. When choosing height for the mounting plate (except for Aeris Activity, which has a fixed height), place it as proximal as possible, but be sure to leave enough room below the posterior socket brim to allow a suspension sleeve to seal if using vacuum or suction suspension plus ½ in. to accommodate height adjustment if needed. (Figure 1)
7. Temporarily attach the mounting plate by wrapping around socket with vinyl stretch tape and trace the edges onto the socket.
8. Using the mounting plate as a guide, select the location to drill the holes in the pylon of the posterior mount foot.
9. Drill two ½ in. diameter holes in the prosthetic foot on a 2 in. center using the provided template with a new drill bit and supporting material placed on the exit side of the intended holes. Carbon is an abrasive material and

therefore carbide drills are recommended. Do not force the drill bit through the carbon, doing so can generate heat in excess of 250° F leading to possible damage of the foot.

10. Temporarily mount the foot to the posterior mount bracket.
11. Visually compare the new prosthesis to the current prosthesis and make adjustments to the mounting bracket position as required and note any angulation that will be needed when creating the mounting surface in step 13.
12. Abrade the socket and anterior side of the mounting plate to allow good adhesion.
13. Create a mounting surface by covering the anterior side of the plate with plastic wrap, adding Fabtech +PLUSeries Composite adhesive or equivalent to the plastic and then compressing it to the appropriate location on the socket to create an intimate fit that may be ground for alignment changes. Use the edge tracings created in step 7 to help properly locate the bracket. Allow to cure per adhesive Instructions, then remove plate.
14. Lightly sand the surface of the mounting area and spot adhere the plate to the mounting area using the same adhesive used in step 13.
15. To perform a test fitting, wrap rigid, fiberglass casting tape through the grooves of the mounting plate being sure not to cover the two mounting surfaces (Figure 2).
16. The angled plates provided may be used to aid in alignment by providing plantar/dorsiflexion and/or internal/external rotation.
17. When finished with alignment, transfer it to the vertical fabrication jig for test sockets or prepare for finish lamination by filling all gaps between the socket and bracket with your choice of structural filler.

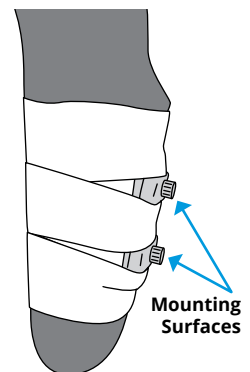


Figure 2

Lamination

1. Start by wrapping one strip of 1 in. (2.5 cm) carbon tape in a spiral fashion to capture all three grooves in the plate (Figure 3).

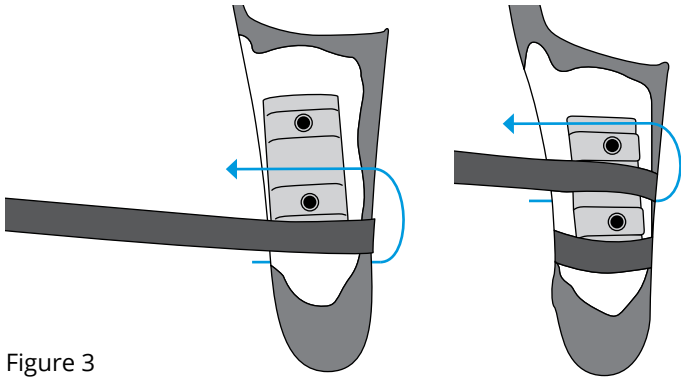


Figure 3

2. Wrap a second spiraling in the opposite direction.
3. Cover with three strips of 2 in. (5 cm) carbon tape wrapped circumferentially in such a manner that the strips cover the grooves and the spirals (Figure 4).
4. Add a layer of wicking material (Nyglass, Dacron felt, etc.).
5. Add layers of carbon cloth or braid as needed for strength while leaving the mounting surfaces free.
6. Add the last layer of carbon braid or sheet and only expose the T-nuts.
7. Add a thin layer of the stick wax to the exterior of the T-nuts. This step reduces the amount of resin build-up on the exterior of the T-nuts (Figure 5).
8. Apply the plastic dummy as described below.

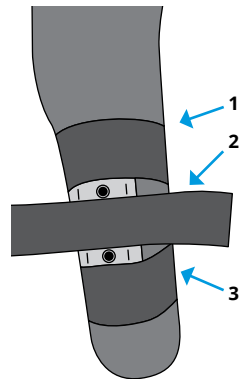


Figure 4

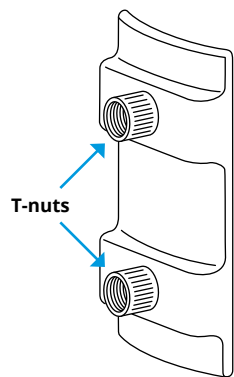


Figure 5

Dummy Installation

1. Apply silicone putty or equal to the center hole of the dummy making sure that it does not protrude from either side (Figure 6).
2. Press the dummy over the two exposed T-nuts.
3. Apply stick wax to the threads of the bolts provided and tighten into the T-nuts to hold the plate in place.
4. Laminate socket while preventing air bubble buildup under the lamination dummy and keeping the least laminate possible on the surface of the dummy.

Removal of the Dummy

1. Using a knife, score the laminate around the edges of the dummy and expose the center hole filled with putty (Figure 6).
2. Remove both bolts going through the dummy.
3. Remove enough putty to start a bolt in the center tapped hole.
4. Screw one of the provided bolts into the center hole until the dummy breaks free. The remaining putty in the hole protects the lamination from the jacking screw (Figure 7).
5. Grind away excess lamination for a clean and level mounting surface.
6. Remove any lamination from the outside of the exposed T-nuts.

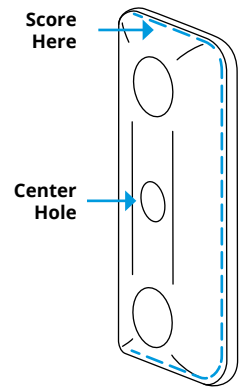


Figure 6

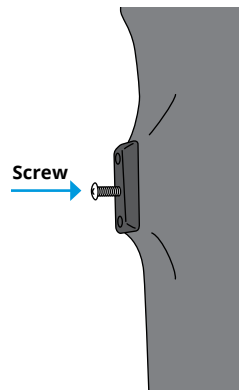


Figure 7

Foot Installation

1. Use the provided bolts and spherical washer set to attach the foot to the plate. Tighten the bolts to 35 N·m. Threadlocker (one capsule provided) should be applied to both bolts connecting the foot to the plate (Figure 8). Be sure to check the torque of the bolts regularly throughout the life of the foot (a minimum of 3 – 6 months).
2. Include the provided piece of sand screen between the foot and socket. Additional layers may be used when angle plates are needed to prevent loosening or motion between the foot and socket.
3. Angulation can be accomplished using the included angulation plates for plantar/dorsiflexion and/or internal/external rotation.

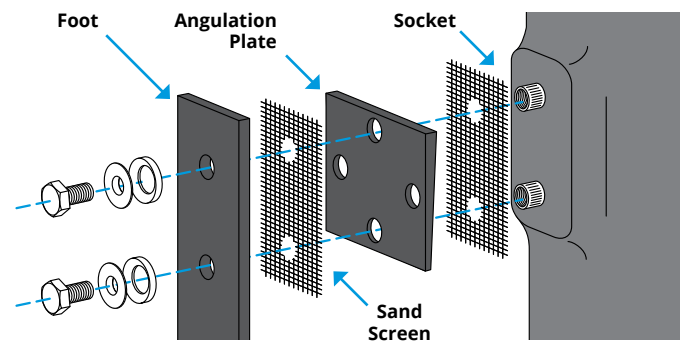


Figure 8

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