

# General Maintenance and Fastener Torque Specifications for Fillauer Prosthetic Components

## Care and Maintenance

Metal components are subject to corrosion damage if used in a wet or otherwise corrosive environment including, but not limited to, the shower/bath, the ocean or other salt-water environment, and corrosive industrial environments. Avoid submersion in any liquid, and if the prosthesis does get wet, dry thoroughly as soon as possible. Prosthetic components are subjected to mechanical stresses that can fatigue the part over time. Although all Fillauer prosthetic components have been tested in accordance with applicable standards, the risk still exists that they may fail under certain conditions that will vary greatly depending on patient use. In order to reduce the risk of failure, it is recommended that all of the components in a prosthesis be checked periodically by the Prosthetist (at an interval determined by the patient's weight and activity level, not to exceed 6 months) for signs of fatigue or other damage, i.e. cracks, deep scratches, corrosion, wear, etc. The Prosthetist should also advise the patient to examine the prosthesis before each application.

## Fastener Torque and Thread Locking

- It is imperative that all fasteners be tightened to the proper torque listed in the table below. Over tightening can overstress the fastener or part and strip threads. Too little torque will allow movement between parts leading to premature fatigue failures and/or fasteners coming loose.
- Certain fasteners need to be thread locked to insure safe use of the prosthesis. Where thread lock is not specified in the table below, it is recommended that a lubricant be used on threads unless otherwise noted.
- At least as often as the part is inspected, the fasteners should be inspected for proper torque, and a record of this inspection kept in the patient's file.
- Proper care and maintenance can help prevent unnecessary risk, which may occur with neglect.

## Torque Specifications and Loctite Recommendations for Fillauer Prosthetic Components

Where Used		Fastener Specifications						
P/N	Component	P/N	Fastener	Function	N-m	in-lbs	ft-lbs	Loctite
124105	Universal Coupling Ring	882612	M6 x 1 x 12mm	Attach to slide unit	15	132	11	Yes-242
124109 125298 125308	Wood Socket Attachment Plate Thermoplastic Attachment Plate Thermoplastic Attach Plate w/Dish	880285	M6 x 1 x 25mm	Attach to socket <sup>1</sup>	12	108	9	Yes-242
124102	Composite Distal Attachment Block	880280	M6 x 1 x 16mm	Attach to socket <sup>1</sup>	12	108	9	Yes-242
124106	Adaptor Ring with Screws	880288 882612	M6 x 1 x 30mm M6 x 1 x 12mm	Attach to socket <sup>1</sup> Alignment adjustment set screw	12 15	108 132	9 11	Yes-242 Yes-242
124107 124108	Pyramid Receiver w/tapped holes Pyramid Receiver w/non-tapped holes	880290	M8 x 1.25 x 16mm	Alignment adjustment set screw	15	132	11	Yes-242
124114	Rotatable Socket Adaptor	880290	M8 x 1.25 x 16mm	Alignment adjustment set screw	15	132	11	Yes-242
125106	Upper Pylon Tube Clamp Assembly	882620	M6 x 1 x 20mm	Clamp cap screw	10	90	7.5	No
124500 124170 124171	Pylon Tube Clamp 34mm – Aluminum Pylon Tube Clamp – Aluminum Liner Lanyard Adaptor	880290 882520	M8 x 1.25 x 16mm M5 x .8 x 20mm	Alignment adjustment set screw Clamp cap screw	15 10	132 90	11 7.5	Yes-242 No
125240 125241 125243	Green Cylindrical Shuttle Lock with 1 in. Plunger Green Cylindrical Shuttle Lock with 1.5 in. Plunger Green Cylindrical Shuttle Lock with 2 in. Plunger	880282	M6 x 1 x 20mm	Attach to socket <sup>1</sup>	8	72	6	Yes-242
125461 125462 140020	Modular Shuttle Lock w/ 4-Hole Housing Cylindrical Shuttle Lock w/ 4-Hole Housing Cylindrical Clutch Lock w/ 4-Hole Housing	880282	M6 x 1 x 20mm	Attach to socket <sup>1</sup>	12	108	9	Yes-242
141003	Cylindrical Gator Grip w/4-Hole Housing	880280	M6 x 1 x 16mm	Attach to socket <sup>1</sup>	12	108	9	Yes-242
124160	Foot Attachment Plate – Aluminum Foot	K20103	3/8-16 x 3	SACH foot bolt	20	180	15 <sup>2</sup>	Yes-242
125101	Foot Plate with Pylon Tube Clamp	K20104	3/8-16 x 4	SACH foot bolt	34	300	15 <sup>2</sup>	Yes-242
124270	M36 Thread to Pyramid Adapter	882516	M5 x .8 x 25 SHCS	Clamp Bolt	10	90	7.5	No

<sup>1</sup>Fastener length may vary depending upon application.

<sup>2</sup>Foot bolts should have a torque setting as recommended by foot manufacturers specifications, generally 15 ft-lbs for wood keels.

## Torque Specifications and Loctite Recommendations for Fillauer Prosthetic Components

Where Used		Fastener Specifications						
P/N	Component	P/N	Fastener	Function	N-m	in-lbs	ft-lbs	Loctite
124510	36mm Threaded Adapter w/ Pyr Rec Titanium	880257	M8 x 1.25 x 6 SHSS	Alignment adjustment set screw	15	132	11	Yes-242
124119 124137 124121 124127	Integrated Pylon w/ Titanium Adaptor 10" Integrated Pylon w/ Titanium Adaptor 17" Integrated Pylon w/ Aluminum Adaptor 10" Integrated Pylon w/ Aluminum Adaptor 17"	880290	M8 x 1.25 x 25mm	Alignment adjustment set screw	15	132	11	Yes-242

This document covers the general maintenance and fastener torque specifications for all Fillauer prosthetic components. It is the responsibility of the practitioner to insure that all of these recommendations are followed and that the patient is aware of all maintenance procedures. For specific maintenance procedures and specifications for components with moving parts, such as knees or attachment kits, see the instructions included with these components. All prosthetic components are intended for use on one patient only and must be installed by qualified personnel.