

# General Maintenance and Specifications for MightyMite 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 saltwater 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 MightyMite 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.

## Weight Ratings, Torque Specifications and Loctite Recommendations for MightyMite Components

WHERE USED					FASTENER SPECIFICATIONS					
P/N	Component	Rating	Net Wt.	Overall Dim (inches)	P/N	Fastener	Function	N-m	ft-lbs	Loctite
FC100102	SACH Foot Growth Compensator 1/2"	60kg/132lb	41.0g	1.3 x 1.0 x 50	N/A	-	-	-	-	-
FC100104	SACH Foot Growth Compensator 1/4"	60kg/132lb	21.0g	1.3 x 1.0 x 25	N/A	-	-	-	-	-
FC100110	SACH Foot Adapter w/Medium Pyramid	60kg/132lb	32.5g	1.3 x 1.0 x 75	880289	M8 x 1.25 x 50 SHCS	SACH Foot Bolt	20	15	Yes - 242
FC100114	Four Hole Adapter w/Medium Pyramid	60kg/132lb	38.5g	1.7 x 1.7 x 75	882524	M5 x .8 x 20 FHCS	Mounting Screw	7	5.2	Yes - 242
FC100118	Integrated Pylon w/Aluminum Receiver	45kg/100lb	153g	1.4 x 1.4 x 12.4	882608	M6 x 1 x 12 SHSS	Alignment Set Screw	6	4.5	Yes - 242
FC100119	Integrated Pylon w/Titanium Receiver	60kg/132lb	281g	1.4 x 1.4 x 16.4	882608	M6 x 1 x 12 SHSS	Alignment Set Screw	6	4.5	Yes - 242
FC100120	Integrated Steel Pylon w/Alum. Receiver	60kg/132lb	263g	1.4 x 1.4 x 16.4	882608	M6 x 1 x 12 SHSS	Alignment Set Screw	6	4.5	Yes - 242
FC100121	Integrated Steel Pylon w/Alum. Receiver	60kg/132lb	278g	1.5 x 1.5 x 16.8	880290	M8 x 1.25 x 16 SHSS	Alignment Set Screw	15	11	Yes - 242
FC100122	Aluminum Tube Clamp f/Medium Pyramid	60kg/132lb	45.0g	1.4 x 1.4 x 1.6	882608 882418	M6 x 1 x 12 SHSS M4 x .7 x 14 SHCS	Alignment Set Screw Clamp Bolt	6 7	4.5 5.2	Yes - 242 NO
FC100123	Titanium Tube Clamp f/Medium Pyramid	60kg/132lb	45.5g	1.4 x 1.4 x 1.6	882608 882418	M6 x 1 x 12 SHSS M4 x .7 x 14 SHCS	Alignment Set Screw Clamp Bolt	6 7	4.5 5.2	Yes - 242 NO
FC100124	Aluminum Tube Clamp f/Large Pyramid	60kg/132lb	45.0g	1.6 x 1.6 x 1.7	880290 882418	M8 x 1.25 x 16 SHSS M4 x .7 x 14 SHCS	Alignment Set Screw Clamp Bolt	15 7	11 5.2	Yes - 242 NO
FC100130	AK Socket Adapter w/Rotation	60kg/132lb	70.0g	3.4 x 3.4 x 1.7	882418	M4 x .7 x 14 SHCS	Clamp Bolt	7	5.2	NO
FC100132	Four Hole Adapter w/Rotation	60kg/132lb	25.0g	1.7 x 1.9 x .34	882418 882524	M4 x .7 x 14 SHCS M5 x .8 x 20 FHCS	Clamp Bolt Mounting Screw	7 7	5.2 5.2	NO Yes - 242
FC100134	Rotatable Medium Pyramid Receiver	60kg/132lb	26.5g	1.4 x 1.4 x .75	882608	M6 x 1 x 12 SHSS	Alignment Set Screw	6	4.5	Yes - 242
FC100135	Rotatable Medium Pyramid	60kg/132lb	34.8g	1.3 x 1.3 x .91	N/A	-	-	-	-	-
FC100140	Aluminum Pylon Tube 22mm x 300mm	45kg/100lb	117g	.87 x .87 x 11.8	N/A	-	-	-	-	-
FC100142	Steel Pylon Tube 22mm x 400mm	60kg/132lb	227g	.87 x .87 x 15.8	N/A	-	-	-	-	-
FC100144	Rotatable Small Pyramid Receiver	45kg/100lb	25.0g	1.3 x 1.3 x .75	882608	M6 x 1 x 12 SHSS	Alignment Set Screw	6	4.5	Yes - 242
FC100150	Composite Distal Attachment Block Kit	60kg/132lb	30.0g	2.4 x 2.4 x .56	882524	M5 x .8 x 20 FHCS	Mounting Screw	7	5.2	Yes - 242
FC100152	BK Socket Adapter w/Medium Pyramid	60kg/132lb	28.8g	2.2 x 2.2 x 1.1	880282	M6 x 1 x 20 FHCS	Mounting Screw	12	108	Yes - 242

This document covers the general maintenance and fastener torque specifications for all MightyMite 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, see the instructions included with those components. All MightyMite components are intended for use on one patient only and must be installed by qualified personnel.

