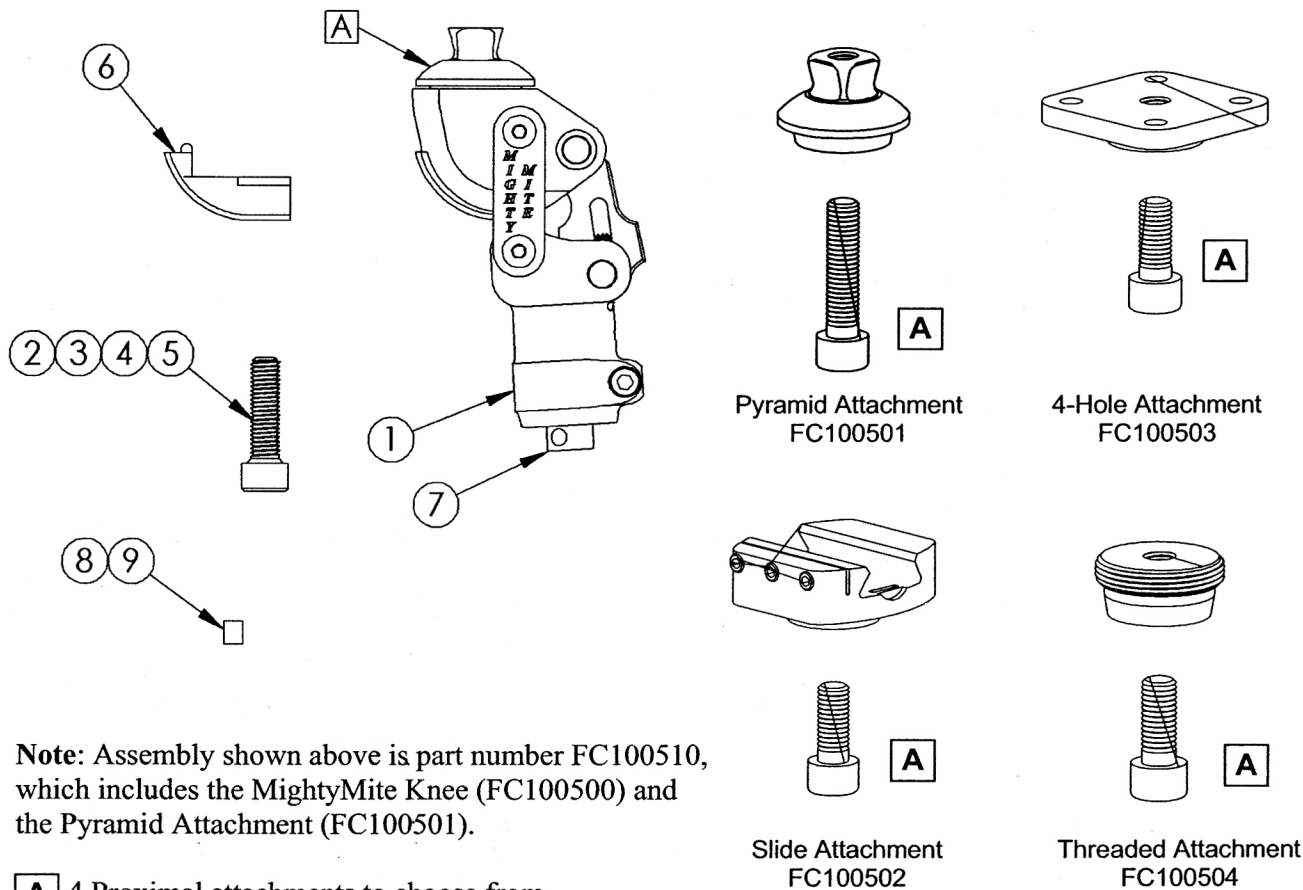


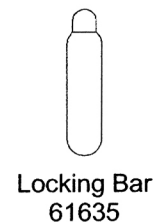
# MIGHTYMITE 4-BAR KNEE INSTRUCTION SHEET

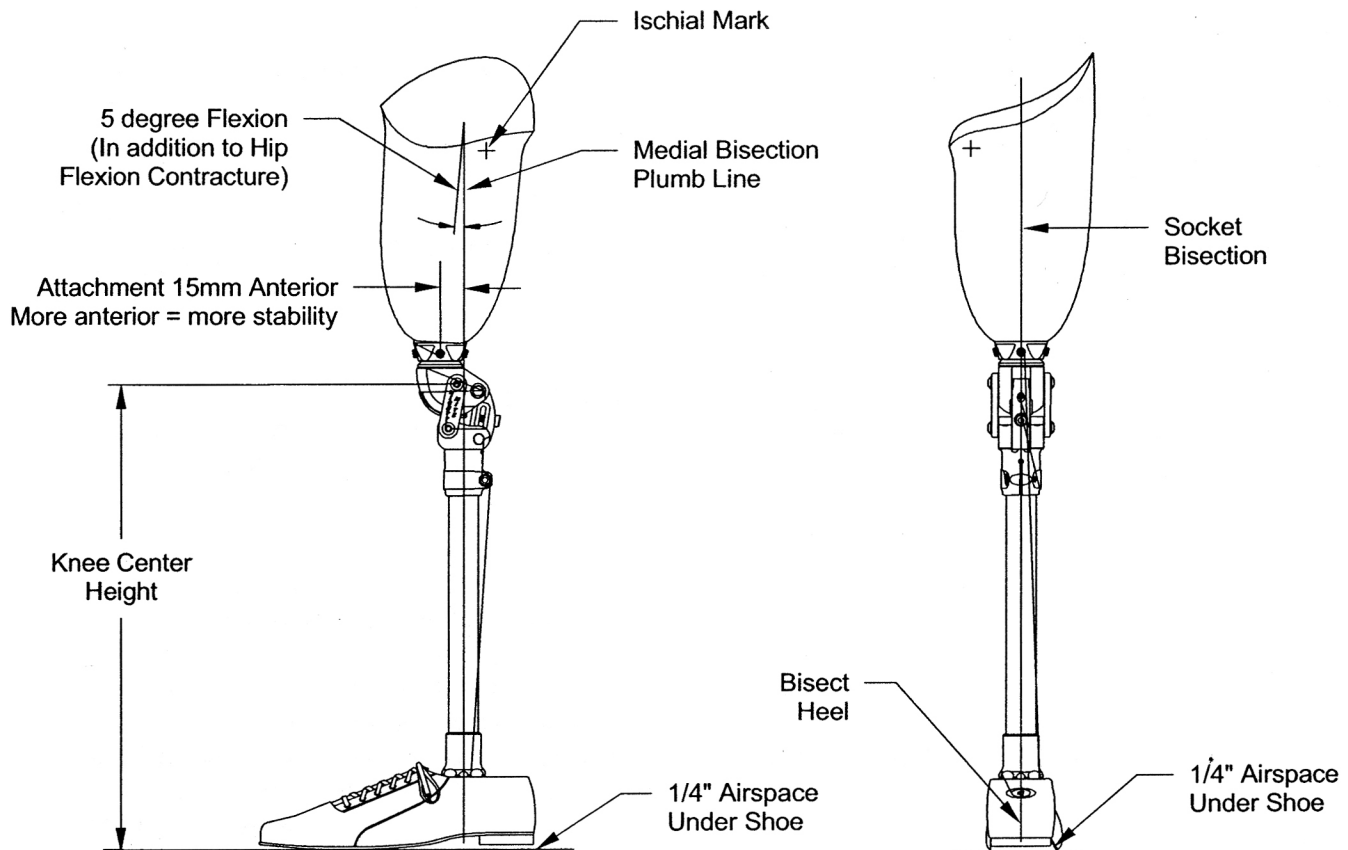
**Hosmer**  
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Campbell, CA 95008  
408-379-5151, 800-827-0070  
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Item	Description	Part No.
1	MightyMite 4-Bar Knee	FC100500
2	30mm Bolt for Pyramid Adaptor	61621
3	20mm Bolt for Threaded Adaptor	61629
4	20mm Bolt for Threaded Adaptor	61629
5	20mm Bolt for Threaded Adaptor	61629
6	Bumper	61615
7	Extension Spring Housing	61611
8	Extension Stop Spring, .210" long	61696
9	Extension Stop Spring, .220" long	61697

Extension Assist Spring		
Color	Resistance	PartNo.
Orange	Less	61643
Yellow	↕	61644
Green	↕	61645
Blue	More	61646





### 1) Sagittal Alignment:

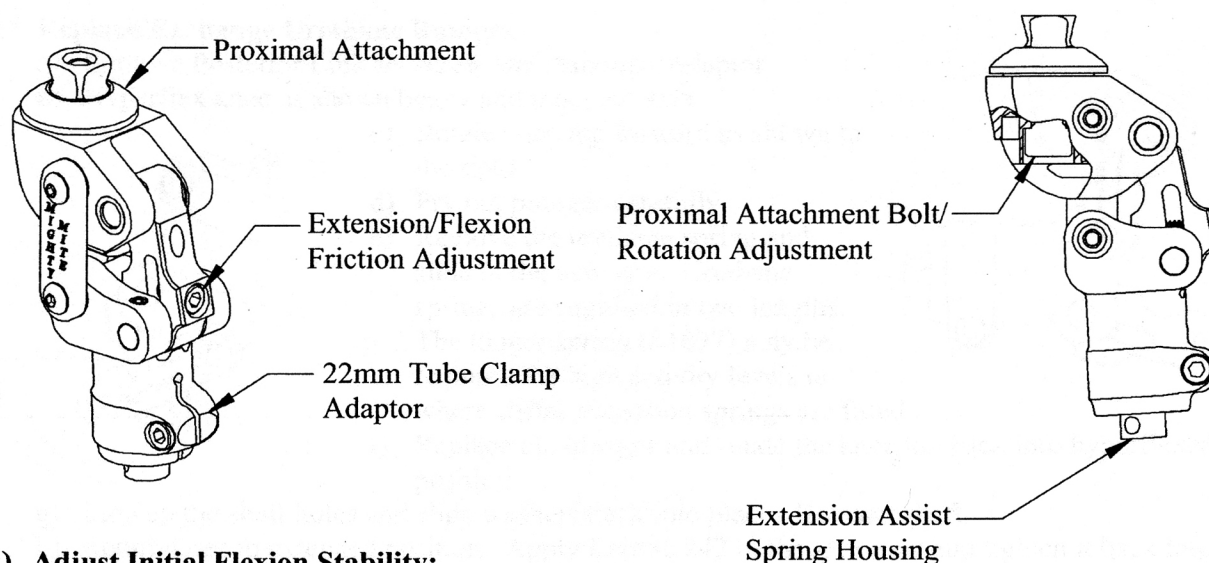
- a) Preflex interface 5 degrees more than measured hip flexion contracture (in any).
- b) Place 1/4" airspace under heel of shoe.
- c) Find Medial Bisection of interface and use plumb line to project distally.
- d) Zero pyramid adjustments at ankle.
- e) Medial Bisection Plumb Line should bisect ankle attachment.
- f) Centerline of knee attachment should be 20mm anterior of Medial Bisection Plumb Line.

### 2) Coronal Alignment:

- a) Project plumb line from socket bisection distally.
- b) Bi-section of ankle should be placed to desired amount of outset.
- c) Outset changes with limb length 0-65mm from Ischium.

### 3) Height Adjustment:

- a) Upper link approximates Knee Center for height measurement.
- b) Anatomic Knee Center is found halfway between Adductor Tubercle and MTP.



**1) Adjust Initial Flexion Stability:**

- a) Observe patient in parallel bars and flex knee.
- b) If more stability is needed, first plantarflex foot slightly.
- c) If still more stability is required, shift interface anterior.

**2) Extension/Flexion Friction Adjustment:**

- a) Set Extension/Flexion Friction Adjustment to limit heel rise and terminal impact.
- b) Selection of extension assist spring will also affect swing rate.

**3) Rotation Adjustments:**

- a) 360 degree adjustment is available with proximal attachment bolt.
- b) Loosen proximal attachment both with 6mm allen wrench, adjust and retighten.
- c) Proximal attachment works with interference taper.
- d) Attachment must be dirt free, bolt must be torqued to 190in-lb/21.5N-m using a torque wrench.
- e) Loctite Thread Locker 242 should be applied to the 8mm attachment bolt and on all small screws. Do not apply Loctite to the taper.

**4) Remove or Install Extension Assist Spring:**

- a) Turning counter-clockwise, remove the Extension Assist Spring Housing, which is threaded into the distal 22mm Tube Clamp Adaptor.
- b) Four spring rates are provided, progressing from orange with the least compression resistance, to yellow, then green and blue with the greatest compression resistance.
- c) Install desired spring and turn housing clockwise until seated. Caution! Hand tighten only. This is best accomplished with knee at full extension.
- d) The Locking Bar replaces the Extension spring to lock knee at full extension for fitting, training and evaluation.

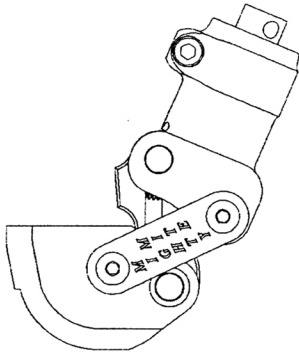
**5) Distal Connection:**

- a) Caution! Do not use spaces or shims if pylon tube is too short, replace with correct length pylon tube.
- b) Loctite Thread Locker 242 should be applied to the 5mm Pinch Bolt and torqued to 7ft-lb/10N-m using a torque wrench.

### 1) Replace/Exchange Urethane Bumper

a) Remove Posterior Link set screw and Proximal Adaptor.

b) Hyperflex knee as shown below and push out axle.



c) Rotate knee top forward as shown to the right.

d) Pry out plunger carefully.

e) Remove the urethane spring and slide in the new one. Urethane springs are supplied in two lengths. The longer spring (61697) may be required for high activity levels or where stiffer extension springs are fitted.

f) Replace the plunger and rotate the knee top back into hyperflexed position

g) Line up the shaft holes and slide washers back into place. Reinsert shaft.

h) Return knee to extended position. Apply Loctite 242 to the set screw and tighten it back into place.

