

QUICK SETUP GUIDE

INFINITE S**OX**KET

— S Y S T E M —



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Welcome

The following steps will guide you through basic set up of the LIM Innovations® Infinite Socket™ TF. For additional support, please contact your LIM Clinical Specialist or visit our tech tip videos on youtube.com/LIMInnovations.

Step 1 | Establish Prosthetic Build Height

Take and record length measurements:

- a. Patient's Ischial tuberosity to knee center

IT to KC: _____

- b. Ischial seat to distal base plate

IT to Base Plate: _____

- c. 1A-1B = Available build height

Build Height: _____



Step 2 | Determine Distal Adapters

Using measurements in Step 1c determine appropriate distal adapters for Infinite Socket™

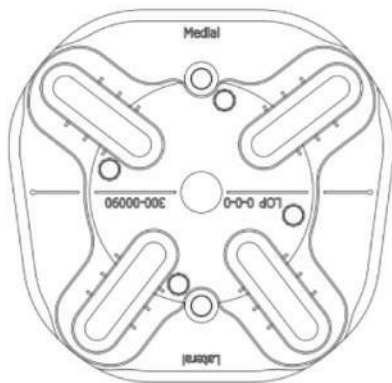
Note: The base plate will accept a 4-hole pattern adapter. The hole pattern may be offset from the line of progression.
An adapter with rotation is recommended.



Step 3 | Bench Alignment - Line of Progression

- a) The line of progression (LOP) is marked on the distal base plate for optimal starting alignment
- b) There are 4 combinations of the base plate (seen on page 5). The one received depends on the submitted patient profile
- c) The base plates accept 4 hole adapters
- d) Two sets of screws are provided for the attachment of a third party adapter. Correct length screws will sit flush with the top of the base. If you use other screws, make sure they are cut to sit flush with the top of the base
- e) Each plate has "medial" and "lateral" written on it to help with orientation
- f) Torque specs found in step 8 "Torque and Loctite"

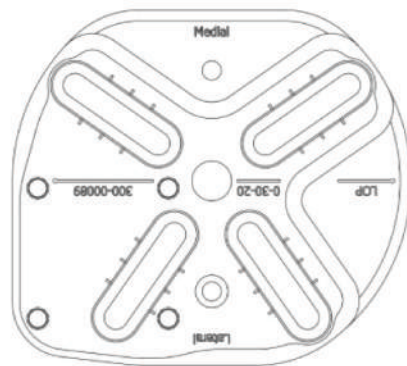
Note: Failure to follow these instructions increases the risk of failure and voids warranty.



Angular alignment built in: **0 degrees**

Posterior offset of knee with respect to socket: **0 mm**

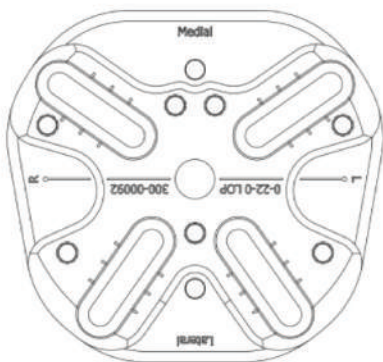
Lateral offset of knee with respect to socket: **0 mm**



Angular alignment built in: **0 degrees**

Posterior offset of knee with respect to socket: **30 mm**

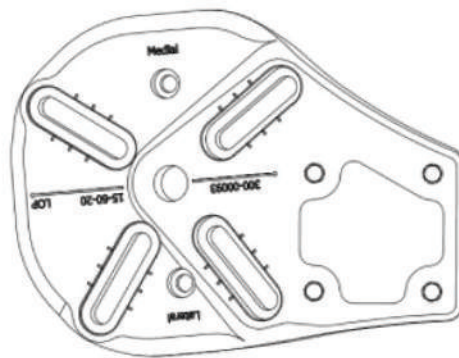
Lateral offset of knee with respect to socket: **20 mm**



Angular alignment built in: **0 degrees**

Posterior offset of knee with respect to socket: **22 mm**

Lateral offset of knee with respect to socket: **0 mm**



Angular alignment built in: **15 degrees**

Posterior offset of knee with respect to socket: **60 mm**

Lateral offset of knee with respect to socket: **20 mm**

Step 4 | Donning the Socket

- a) Open and loosen ratchet/Velcro closure strap
- b) Have patient don Infinite Socket™
- c) Verify total contact distally

Note: If patient is unable to achieve total contact distally, refer to troubleshooting.





Step 5 | Verify Landmarks

Verify appropriate heights with patient in socket

- a) Confirm medial brim height and location
50mm beneath perineum
- b) Confirm ischial seat height and location
- c) The lateral paddle will sit on the anterior lateral side of the limb
- d) Adjust height. as needed for patient comfort and control.

Step 6 | Adjust Overall Prosthetic Height

Verify and adjust prosthetic height

Note: Do not adjust overall prosthetic height until medial brim and ischial seat heights have been confirmed.



Step 7 | Adjust Ratchet/Velcro Closure Strap

- a) Open strap completely
- b) Identify anterior and **posterior** loose ends.
- c) Remove excess slack in **anterior** end, tucking loose end into lateral paddle
- d) Remove excess slack in posterior end, tucking loose end into lateral paddle
- e) Loose ends should be tucked into at least midline of lateral paddle
- f) Trim excess material that is visible outside of lateral paddle
- g) If more adjustment range is needed, untuck the tensioner from the vertical dacron strap on the lateral paddle



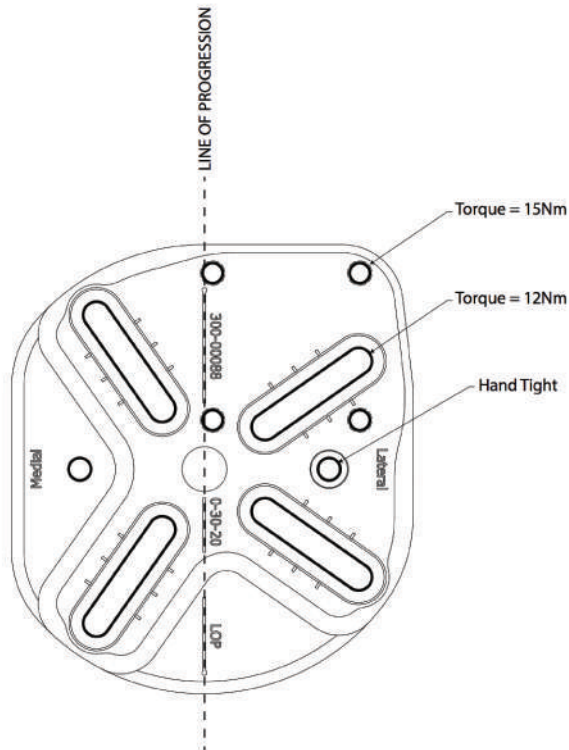
Note: Retain a reflection in loose ends inside the lateral paddle. This will allow for easier removal if adjustments are needed.

Note: For further assistance, please refer to "installation of closure system" tech tip.

Step 8 | Torque and Loctite

Torque all screws to appropriate specifications:

- a) Ischial seat/medial brim locking screw: 3 N.m
- b) Lateral paddle locking screw: 3 N.m
- c) 4-hole adapter: 15 N.m
- d) 8 carbon strut screws: 12 Nm w/ blue Loctite
- e) Locking mechanism screws: Hand tight



Troubleshooting

Problem	Possible Reason	Possible Solution
Patient does not achieve total contact	Flexible inner liner (FIL) cup is too tight (Step 4)	<ul style="list-style-type: none"> • Remove FIL cup • Instruct patient to don FIL cup with weight bearing • Reassess distal end contact • Heat and stretch FIL cup as needed until distal end contact is achieved
	Medial brim is too high (Steps 4/5)	<ul style="list-style-type: none"> • Instruct patient to don Infinite Socket with weight bearing • Assess medial brim height • Confirm brim is ½" below perineum/groin with weight bearing
	Ischial seat is too high/too low (Steps 4/5)	<ul style="list-style-type: none"> • Assess ischial seat height and position • Ischial tuberosity rests squarely on center of seat with weight bearing • Slide, rotate, raise, lower ischial seat as necessary • Heat contour ischial attack angle as necessary
	Struts are too tight (Step 4)	<ul style="list-style-type: none"> • Loosen locking mechanism screws ½ - ¾ turn • Loosen two screws attached to carbon strut • Slide appropriate struts outward
Closure system not tensioning appropriately	Tensioner incorrectly installed (Step 7)	<ul style="list-style-type: none"> • Assess the path of the tensioner • The loose ends of tensioner is fed from the outside to inside of anterior and posterior chafes

Notes:







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