

PATIENT INSTRUCTIONS

INFINITE S $\infty$ KET<sup>®</sup>  
SYSTEM



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## Welcome

Congratulations on becoming a **#LIMLegend!**

The following steps will guide you through the use the LIM Innovations Infinite Socket.

For additional support or questions, please contact your prosthetist.

## Step 1 | Loosen the Socket

- Loosen the back BOA reel by pulling it away from the socket. An audible click occurs when the BOA reel disengages.
- With the BOA reel open, pull back the carbon strut outwards as much as possible





## Step 2 | Release Air from Bladders

- Release air from both the top and the bottom air bladders
- **Upper Air Bladder:** Press release button on attached pump
- **Lower Air Bladders:** Squeeze black handheld pump, insert black end into valve and release pump
- The valve should be used on both the right and left sides



## Step 3 | Pin Lock/Seal-In

### **PIN LOCK**

- Place limb in socket
- Push down until limb is almost at the bottom  
It is ok to stand to let limb sink - do not put entire body weight into it
- Verify pin engagement with locking mechanism  
Listen for two or more audible clicks  
Take weight off the limb (go back to seated position if necessary)
- Bring the limb to the bottom of socket by turning the locking mechanism red button clockwise  
If the lock does not turn, that means the limb is in the correct position  
Turn lock with provided key, if lost, use house keys or a quarter



## SEAL-IN

- Apply alcohol-based lubricant on liner seals and on the inside of the socket
- Insert limb into socket
- Verify limb is fully inserted with total contact on bottom of the limb
- Stand up to expel residual air from socket by gently pushing limb repeatedly into socket until air is no longer heard escaping through the valve



## Step 4 | Tighten BOA Reel

- While seated, push BOA reel towards limb and listen for click
- Rotate BOA reel by spinning dial in a clockwise direction
- Continue turning BOA reel until socket fits snugly around the limb
  - A good starting point is to have less than a finger's width allowed to fit between socket and limb
- Tension may need to be adjusted multiple times throughout the day based on volume change and activity
  - Undertightening will result in excessive pressure on end of limb
  - Overtightening will result in excessive pressure in upper calf

## Step 5 | Adjust Air Bladders: Upper/Lower

### UPPER AIR BLADDER

- To inflate: use on board pump attached to socket
- Compress on bulb to fill air around your knee
- To release pressure: press release button above pump





## LOWER AIR BLADDERS

- The lower air bladders are controlled with black handheld pump

### To Inflate:

- Hold valve body in one hand
- Insert the clear end of pump about 6-7mm into valve
- Once valve is engaged, continue to apply pressure with both hands and squeeze the hand pump to begin to inflate bladder with air

### To deflate:

- Hold valve body in one hand
  - Squeeze handheld pump
  - Insert the black end of the pump about 6-7 mm into valve
  - Release hand pump to draw air out
- Right and left bladders are adjustable separately for comfort
  - The bladders may need adjustments each day to compensate for any changes



## Step 6 | Remove Infinite Socket

- Make sure the BOA reel is in the open position by pulling it away from the limb
- With the BOA reel open, pull the back carbon strut away from limb
- Make sure all air is released from upper and lower air bladders

### **PIN LOCK**

- Press the pin lock red release button to disengage pin
- This may require additional force or a tap
- Pushing limb down in socket and pushing red button simultaneously can be helpful
- Once pin is released, keep red button pushed and remove limb from socket

### **SEAL IN**

- Press the button on the valve body to allow air into the socket
- Pull limb out of socket to break the seal

# Troubleshooting

<b>Problem</b>	<b>Possible Reason</b>	<b>Possible Solution</b>
Pain at end of the limb	Pin lock is not properly engaged (pin lock suspension only)	<ul style="list-style-type: none"><li>- Put liner on again to ensure pin orientation is correct</li><li>- Pin should be straight with the line of the limb</li></ul>
	BOA cable system was tightened while weight bearing in socket	<ul style="list-style-type: none"><li>- Release BOA cable system</li><li>- Sit down</li><li>- Fully remove and then reapply the socket</li><li>- Re-tighten BOA system while seated</li></ul>
	BOA dial is not sufficiently tightened before standing	<ul style="list-style-type: none"><li>- Release BOA cable system</li><li>- Sit down</li><li>- Fully remove and then reapply the socket</li><li>- Re-tighten BOA system while seated</li></ul>
	Insufficient air in the lower air bladders	<ul style="list-style-type: none"><li>- Inflate appropriate air bladders to comfort using hand pump</li><li>- Bladders on right and left inflate independently</li></ul>
Looseness, instability or pain around the knee	Insufficient air in the proximal bladder	<ul style="list-style-type: none"><li>- Compress the onboard pump to inflate upper air bladder</li></ul>
	Insufficient tension in the BOA reel	<ul style="list-style-type: none"><li>- Turn the BOA reel clockwise for more compression</li></ul>
Severe pain or skin breakdown on the limb		<ul style="list-style-type: none"><li>- See your prosthetist</li></ul>



Notes:





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