



INFINITETM **SOCKET** TT-S

CLINICIAN INSTRUCTIONS



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Welcome

The following will guide you through basic setup of the Infinite Socket™ TT-S.

For additional support, please call 1-(833) 233-7249 or visit our Tech Tip videos on youtube.com/LIMInnovations

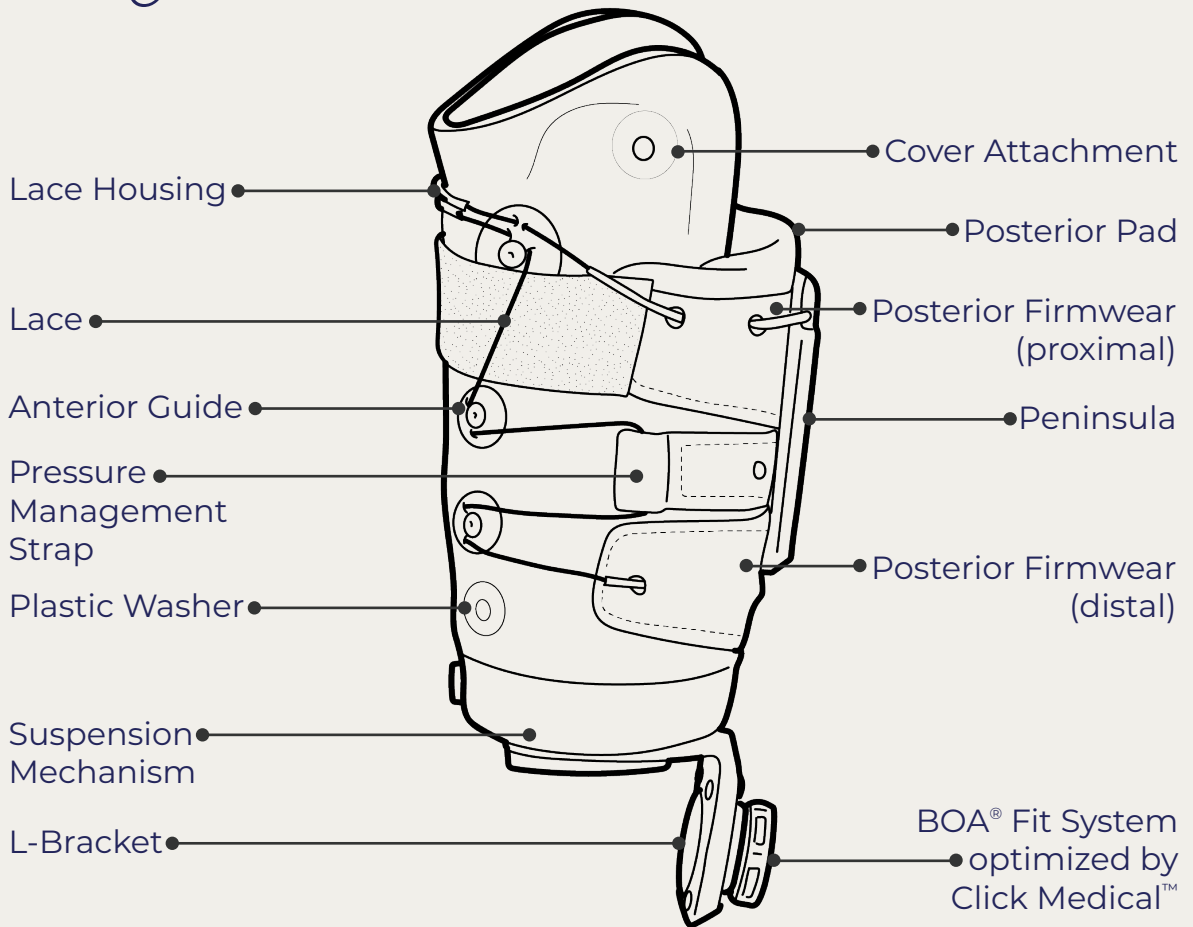
Introduction

The Infinite Socket™ TT-S is a human-inspired transtibial socket designed for daily adjustments. It optimizes knee flexion without sacrificing performance or aesthetics, providing new levels of force transitions that dynamically conform with the patient's every stride.

The Infinite socket™ TT-S is designed to accommodate daily volume management. The goal is to provide the user an optimal starting point to be able to go about their day using the adjustments provided by the socket.



Legend



Note: Tools Needed

Heat Gun

2.5mm Hex Wrench

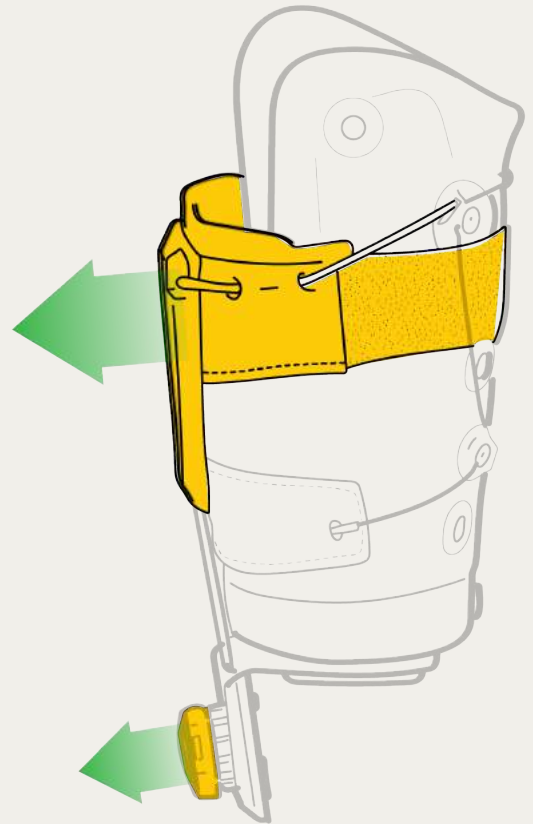
4mm Hex Wrench

Donning The Socket

Loosen the closure system: pull BOA® dial away from the socket until an audible click is heard.

Pull back the posterior firmwear to open.

Have your patient don the socket.



Closure System Engagement

Engage closure system by pushing the BOA® dial towards the limb until a click can be heard.

Turn the dial clockwise to achieve desired fit.

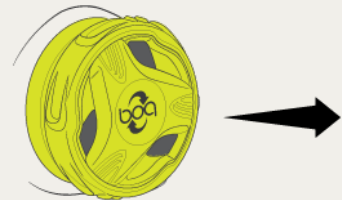
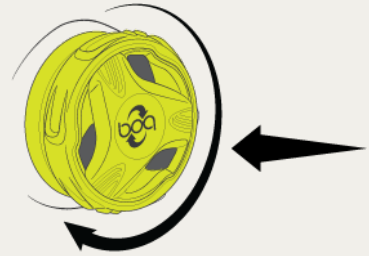


Photo courtesy of Click Medical™

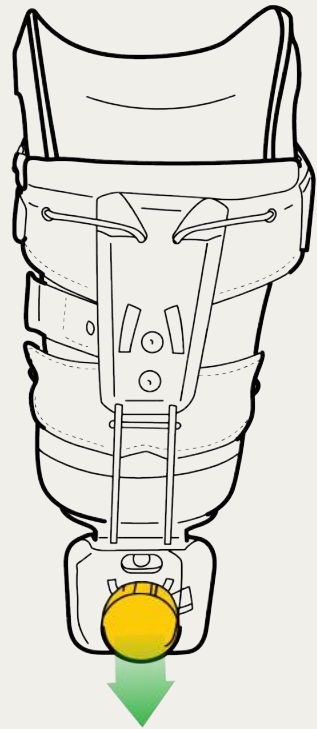
Tip: *If patient is experiencing excessive distal end contact, check the BOA® cable closure system to ensure appropriate fit.*

Doffing The Socket

Before doffing, loosen closure system by pulling the BOA® dial away from the limb.

Disengage suspension mechanism.

Remove limb from socket.

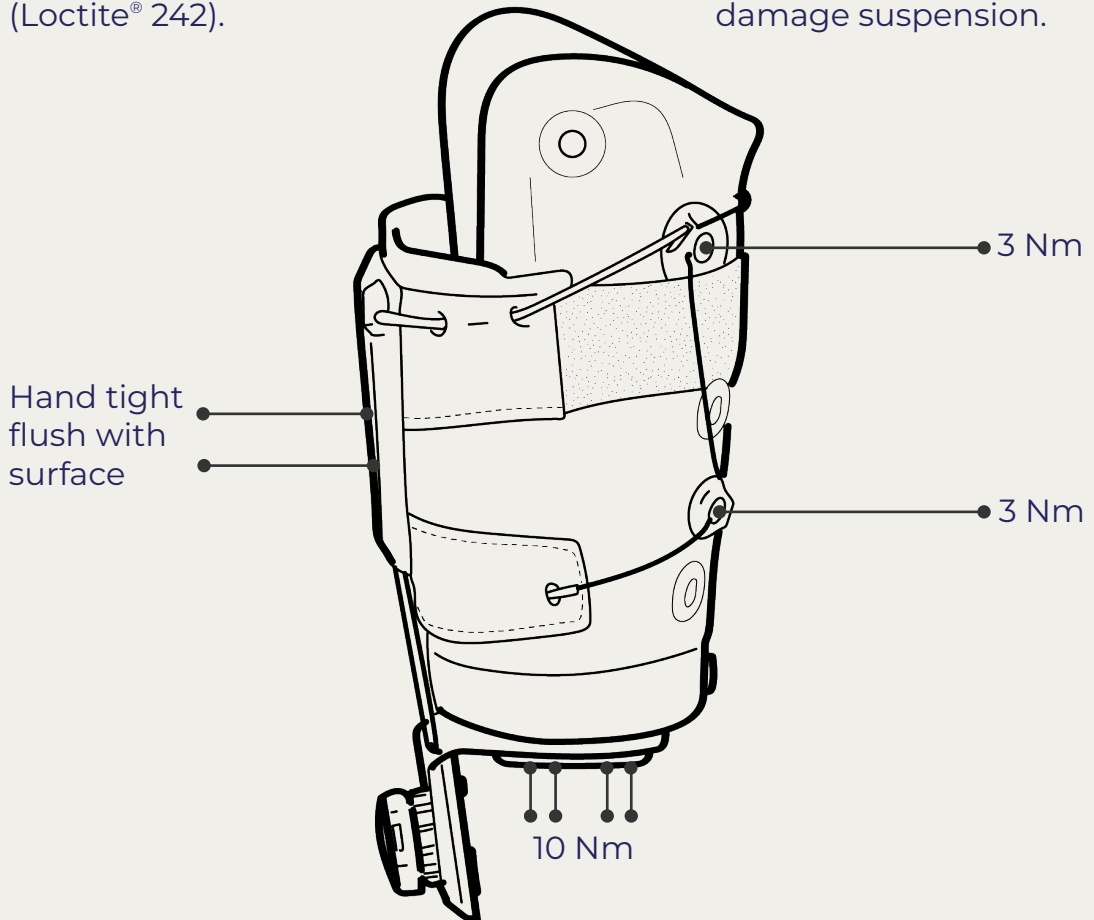


*Infinite Socket™ TT-S
Posterior View*

Torque Specifications

All screws take medium strength threadlocker (Loctite® 242).

Do not over use thread locker and it may damage suspension.



Troubleshooting

For specifics of how to perform adjustments, please refer to technical appendices

Problem	Possible Solution(s)
Patient having too much pressure on distal tibia	<ul style="list-style-type: none">• Turn BOA® dial clockwise• Make sure alignment is correct• Move pressure management strap laterally• Increase posterior pad size/thickness• Heat remold to increase loading• Add socks or padding as you would in a traditional socket
Patient having too much pressure on distal fibula	<ul style="list-style-type: none">• Turn BOA® dial clockwise• Make sure alignment is correct• Move anterior guides to offload sensitive areas• Heat remold to increase relief• Add socks or padding as you would in a traditional socket
Patient having fibular head pressure	<ul style="list-style-type: none">• Turn BOA® dial clockwise• Make sure alignment is correct• Move anterior guides to offload sensitive areas• Shift posterior pressure pad laterally• Heat remold to increase relief• Add socks or padding as you would in a traditional socket
Posterior tissue pinching or localized posterior pressure	<ul style="list-style-type: none">• Adjust posterior pad size• Adjust posterior wall height (refer to appendix)
Lack of suction in socket	<ul style="list-style-type: none">• Ensure proper circumferential fit• Ensure proper installation of valve (refer to appendix)• Add socks or padding as you would in a traditional socket
Clicking Noise	<ul style="list-style-type: none">• Refer to Technical Appendix

Warranty Information

The Infinite Socket™ warranty protects LIM Certified Providers against any defects in workmanship or manufacturing. Warranty applies when the Infinite Socket is used as intended without unapproved modifications. The warranty can be void if the clinician does not comply with LIM virtual clinical support including but not limited to, the first product fittings.

All warranty request should come from a LIM clinical support specialist who has inspected the product. Unapproved modifications, or adjustments made by clinicians who are not LIM Clinically Trained Prosthetists are cause for voiding warranty.

LIM Innovations® will either repair or replace damaged parts under warranty at no cost based on an assessment of the problem.

All replacement sockets, parts, including any reworks, will be covered under a manufacturer's warranty of 90 days. Any damage to replacement parts will not be covered past 90 days of shipment even if the socket warranty is still in effect.

Hard goods: 1 year

Soft goods: 6 months

*For additional information please refer to
www.liminnovations.com/warranty/*



Technical Appendices

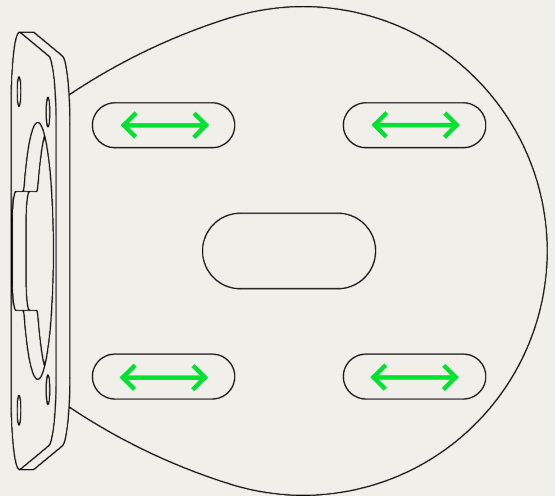
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Aligning the L-Bracket

The L-Bracket slides to accommodate up to 26 mm. It may be used for foot clearance or alignment needs.

To adjust:

1. Loosen 4 distal mount screws.
2. Slide desired amount.
3. Tighten 4 distal screws per torque specifications.



Distal View - L-Bracket

Textile Cover

The textile cover provides a cosmetic finish to the socket. It is to be removed prior to any adjustments.

To adjust:

Remove the cover, using a 2.5 mm wrench, unscrew from the proximal attachment points and slide away from the socket.

Tip: Cover can be machine washed on cold and left to air dry.



*Infinite Socket TT-S - Medial view
Attachment point highlighted*

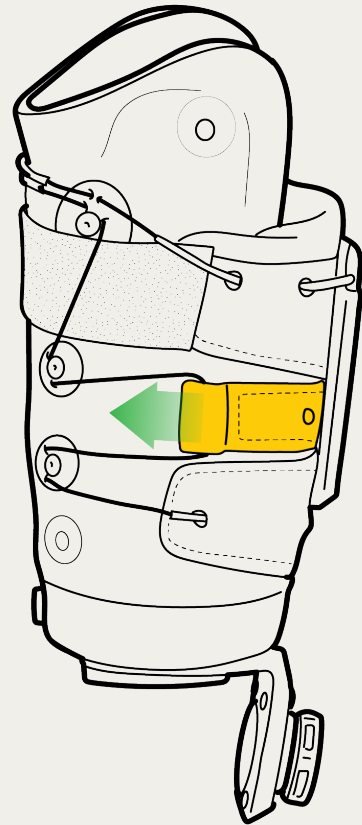
Pressure Management Strap

The closure system provides a tapered closure system. Closure bias can be controlled with the pressure management strap.

To adjust:

1. Release BOA® dial to relieve tension in the lace.
2. Release strap from peninsula (proximal screw) and pull to adjust.
3. Place screw at desired position.

Tip: It is recommended to allow patient to walk on socket for two weeks before trimming pressure strap excess.

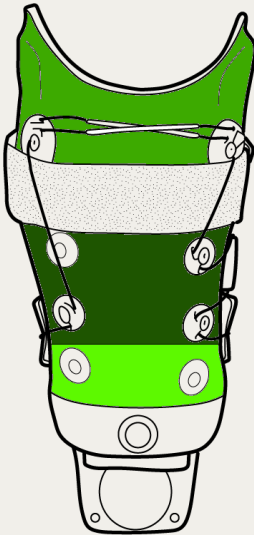


*Infinite Socket™ TT-S - Medial view
Attachment point highlighted*

Pressure Management Strap

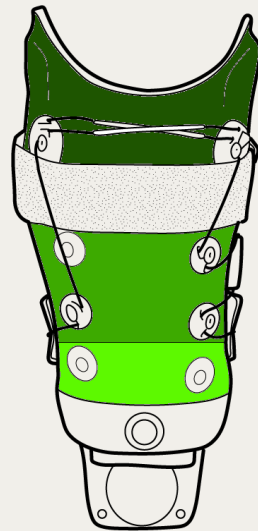
Lateral Adjustments

When strap is moved to a more lateral position, the closure system provides a proximal bias concentrated at the level of the patellar.



Medial Adjustments

When strap is moved to a more medial position, the closure system provides a distal bias concentrated at the level of medial tibial plateau.



Tip: It is recommended to allow the patient to walk on the socket for two weeks before trimming pressure strap excess.

Anterior Guides

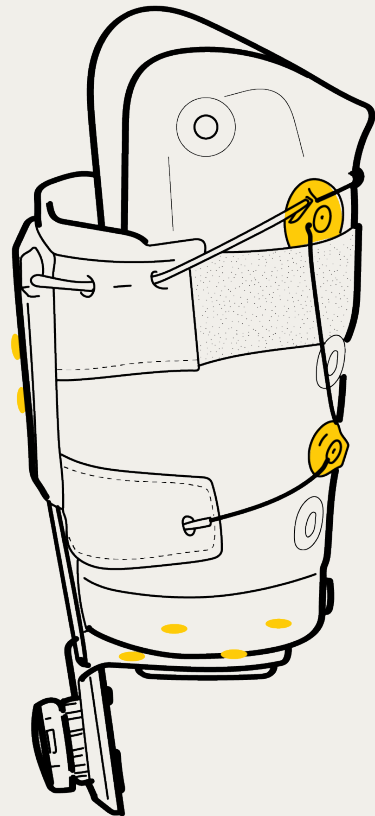
The anterior guides' position can be adjusted for line of pull control or to avoid sensitive areas.

To adjust:

1. Remove guides using 2.5 mm hex wrench.
2. Remove stickers covering additional hole locations.
3. Place guide in desired location.

Tip: Anterior guide location change is only available for limbs longer than 15 cm.

The two most proximal anterior guides cannot be changed in location.



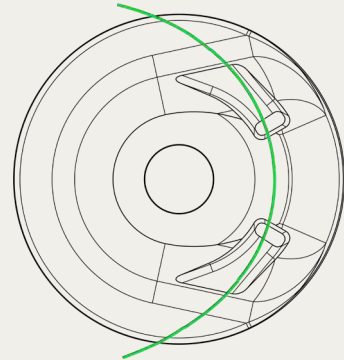
Infinite Socket™ TT-S - Anterior view
Attachment point highlighted

Anterior Guide Angle

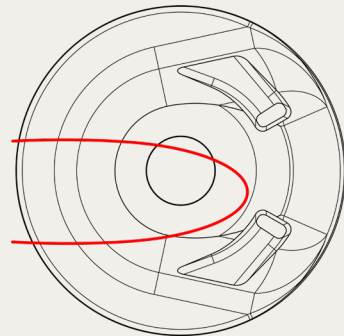
Guides should be positioned in an orientation that evenly splits the angle of pull.

Be sure the lace is not running over the screw.

Loosen and turn the guides according to the diagrams.



*Anterior guide
Correct line of pull*



*Anterior guide
Incorrect line of pull*

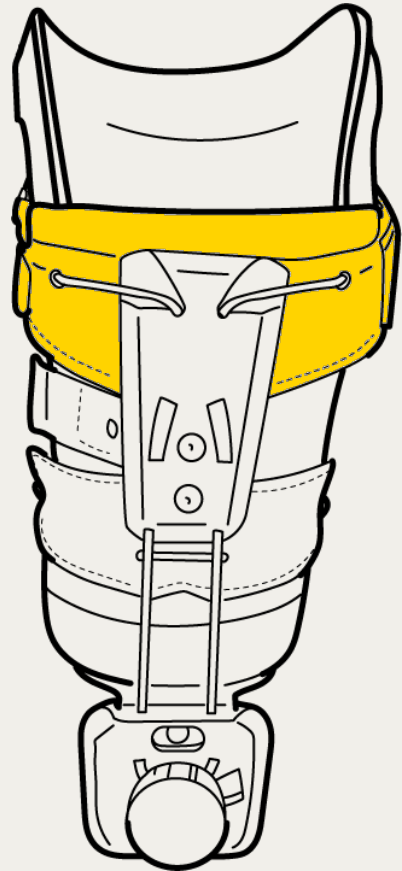
Posterior Pad

The posterior pocket houses a flexible posterior pad. This pad is removable, replaceable and customizable to adjust posterior pressure.

To adjust:

1. Access the pad by removing the two most proximal anterior guides.
2. Slide the anterior elastic up and over the socket.
3. Turn the pocket all the way up to expose the pad opening.
4. Remove pad and adjust as needed.
5. Replace posterior firmwear and tighten screws per torque specs.

Tip: The pad can be replaced using any material and durometer of choice.



*Infinite Socket™ TT-S - Posterior view
Posterior pocket highlighted*

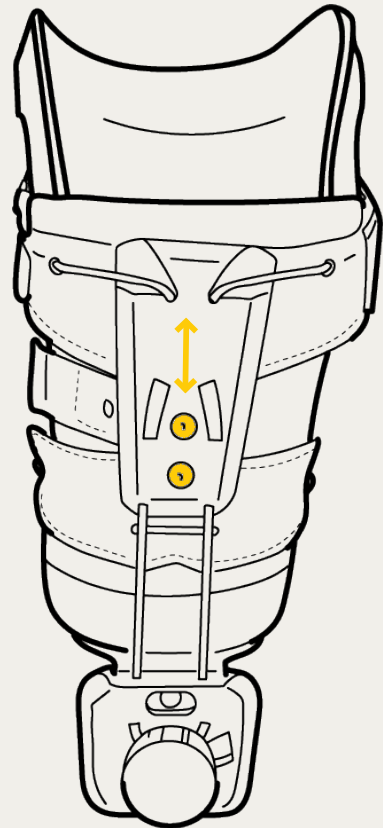
Posterior Wall Height Adjustment

The peninsula is adjustable in height allowing for hamstring relief and posterior force location control.

To adjust:

1. Loosen BOA® dial to remove all tension from lace.
2. Remove screws from the peninsula and reattach at desired position.
3. Lowering the posterior wall must be accompanied with the following:
 - Anterior guides must be placed at lowest position.
 - Posterior trimline of opening must be lowered by 1 cm.

Tip: Ensure both screws are secured when reinstalling.



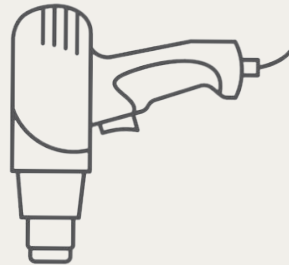
*Infinite Socket™ TT-S - Posterior view
Peninsula screws highlighted*

Heat Remolding

The socket's interface is heat remoldable.

To adjust:

1. Remove textile cover, all firmwear abd anterior guides as needed.
2. With heat gun on low setting; heat general target area at a minimum of 2 inches away.
3. Heat for approximately 4 minutes while constantly moving the heat gun.
4. The socket becomes malleable enough for remolding.
5. Avoid distorting the plastic washer in the heating process.
 - Any smoke or bubbling indicates you are overheating.
6. Allow for cooling before reassembly.



Tip: For spot remolding, use a tool to shape the socket.

Posteriorly, the socket is not heat remoldable at the level of the peninsula.

Suspension

Suction Valve Adjustments

1. If you experience a lack of suction, be sure the valve is orientated correctly.
2. The valve should be properly orientated with the groove facing down and the gasket between the valve and the socket.

Pin Lock Adjustments

1. If you experience a clicking sound originating from the lock, employ the use of the provided washers (0.5 mm and 1 mm).
2. Washers change the position of the barb on the pin in relation to the socket.
 - Try washers from smallest to largest.
3. Be sure the green ring is not on the threaded side of the plunger pin.

Tip: *If the noise is unresolvable, call Bulldog Tools directly at 877.962.0205*



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