



Partial Hand SOLUTIONS, LLC



Technical Instructions Titan Thumb

PACKAGE CONTENTS

- (1) Titan Thumb Assembly
- (1) Grip Tip (installed)
- (1) 3/4" metal fabrication dummy
- (1) Flat Head Screw, 8-32 x3/8"
- (1) Flat Head Screw, 8-32 x1/2"
- (1) Flat Head Screw, 8-32 x5/8"
- (1) 0.5 mm Allen wrench
- (1) 2 mm Allen wrench
- (1) Rubber Palm Pad
- (1) Loctite 242

RECOMMENDED TOOLS AND SUPPLIES

- #2 Phillips screwdriver
- Drill
- 5/32" drill bit



Titan Thumb Assembly

1. Titan Thumb Assembly
2. Mounting Base
3. Grip Tip

Not Shown:

3/4" metal fabrication dummy

Flat Head Screw, 8-32 x3/8"

Flat Head Screw, 8-32 x1/2"

Flat Head Screw, 8-32 x5/8"

0.5 mm Allen wrench

2 mm Allen wrench

Rubber Palm Pad

Loctite 242

Mounting Instructions

1. Loosen 0.5 mm set screw on the back of the thumb.
2. Disassemble the thumb assembly to remove metal washer by loosening the Phillips screw.
3. Install black metal washer included for fabrication onto mold for fabrication of socket. Insure when fabricating frame that the surface of the outer frame is completely flat over washer. Crowning of the frame over the washer may minimize surface area for optimal friction rotation.
4. Once fabrication of socket is complete, remove black metal washer from socket.
5. Trim prosthesis to desired trim lines.
6. Drill out a 5/32" center hole at location of metal fabrication washer.
7. Install Titanium metal washer with tapered hole facing away from prosthesis.
8. Install rubber washer on outside of prosthesis.
9. Install Titan thumb assembly with a Phillips head screw (3/8, 1/2, or 5/8, inch) from inside the socket. Determine the appropriate length screw depending on frame thickness. Use Loctite and tighten to desired resistance.
10. Tighten 0.5 mm set screw to lock resistance in place. Do not Loctite.
11. Custom shape rubber palm pad, install and glue in place.

Note: College Park Industries and Partial Hand Solutions do not provide fabrication services. As fabrication of sockets for thumbs, partial fingers, and fingers is not routine for most facilities, the use of a fabricator, such as SPS National Labs in Cromwell, CT, is recommended.

Adjustments

- Loctite 2mm allen screw. Do not overtighten.
- The center mounting screw controls rotation. Set as desired then Loctite screw in position.

Positioning the Finger



Apply pressure to the back of the thumb tip, which causes the thumb tip to ratchet into flexion. Once the desired position is determined, pressure can be removed from the thumb tip and the tip would be locked in to position.



To return the thumb tip back to the extended position, dislocate the tip section from the base by pulling on the tip section. This motion releases a pin in the tip section from the base allowing the finger to move freely.

The thumb can be rotated 360 degrees.

Additional Considerations/Tech Tips

- Ensure resistance is appropriate for the user.
- If using a silicone socket, apply a small amount of water or Cal Stat lubricant to limb to dampen skin. Push limb into prosthesis. Adjust thumb to desired position.
- To remove prosthesis, hold prosthesis with other hand and pull your limb out of prosthesis or consult with you prosthetist or therapist on proper technique.

Cautions/Warnings

- Do not expose this product to corrosive or caustic materials, salt water or pH and temperature extremes.
- New users should start with a wearing schedule and ease in to a full day of use.
- Loctite screws as indicated in these instructions.
- Do not disassemble thumb except as specified in these instructions.

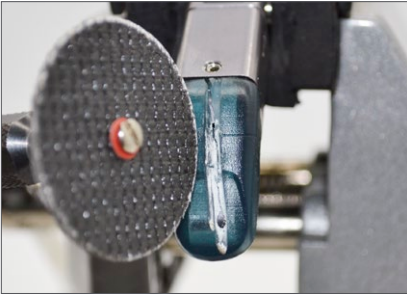
Inspection/Maintenance

- Users should clean the inside of the prosthesis and silicone liner with anti-bacterial wipes daily.
- Visual/Audible signs of wear, cracks, damage, etc.
- Ensure that the joint moves freely without obstruction.
- Make sure rotation resistance is appropriate as it may change slightly over time with use.
- Replace grip tip as needed.

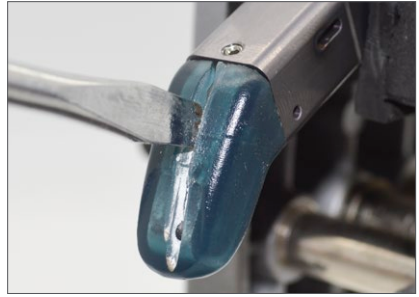
Warranty: 1 year

Repairs/Replacements

Replacing the Fingertip - Due to wear and tear, a fingertip may become damaged and need to be replaced. Fingertips are available as replacement parts.



Secure finger and using a dremel tool cut a channel down the length of the tip. Take caution to not cut in to titanium.



Wedge a flat-edge screw driver into the slot created and pry tip off finger tip.



Apply a small amount of super glue on either side of the inner surface of the tip



Press fingertip onto finger and hold in place until glue sets. Use rubber padding to prevent slipping.

M-Fingers are distributed by:



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27955 College Park Drive, Warren, MI 48088

TECHNICAL ASSISTANCE/ EMERGENCY SERVICE 24-7-365

College Park's regular office hours are Monday thru Friday, 8:30 am - 5:30 pm (EST). After hours, an emergency Technical Service number is available by calling College Park's main line.



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