



Advisories

Must be installed by a licensed professional.

Lace will wear:

- Routinely check for wear or damage.
- Look for broken fibers around areas of high wear.
- Replace lace if a significant amount of fibers are broken.
- Proactively replace lace every 6 months.
- Loss of suspension can occur if lace fails.
- Keep lace away from open flame and sharp edges.

Secure threaded insert to liner with medium thread lock.

Secure snap to threaded insert before tensioning system.

Weight limit: 300lbs/135kg

See instructions in other languages: clickmedical.co/instructions

Tool Form for fabrication is sold separately;
Click Part Number: RL-310-00-01

GUARANTEE

The Click Reel is guaranteed to last the life of the device into which it is originally installed. Registration of the Click Reel is required at the time of original device delivery. To register: clickmedical.co/contact-us/cr-registration/

WARRANTY

For warranty information on all of Click Medical's products: clickmedical.co/terms/#warranty

U.S. Customers:

Contact Help@ClickMedical.co

Tel: +1-970-670-7012

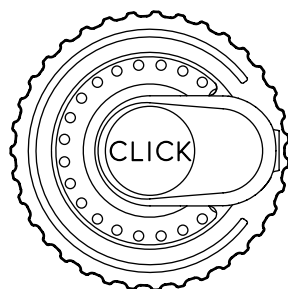
International Customers:

Please contact your local distributor.

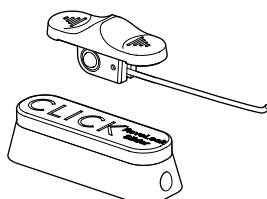
Click Medical products are patent protected.

For full list see www.clickmedical.co/patents

RevoLock 4-Hole Kit Contents:



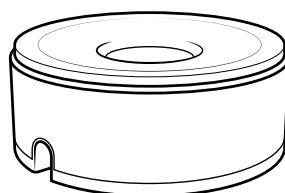
Click Reel



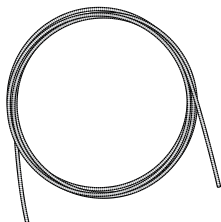
RevoLock Slider



Lamination Collar & Dummy



4-Hole Housing



0.5m
Lamination Tube



Metal
Lace Feeder



Plastic Lace
Feeder x 3



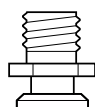
Tool Form
Plug



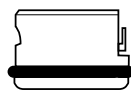
2.0m
HC Lace



Reel Tool



LE Quick
Connect Insert



LE Quick
Connect Snap

Overview of Possible Applications:

Fabricate a New Socket:

1. Determine location of Click Reel.
2. Secure tool form to model.
3. Apply PVA bag.
4. Apply inner fabric layers.
5. Insert tube into the tool form plug and the reel collar.
6. Apply outer fabric layers.
7. Laminate.
8. Remove tool form and install distal housing.
9. Lace device, then attach lace to the Click Reel and the snap.
10. Install Click Reel into the collar.
11. Test for function.

Replace a Problem Pin Lock:

1. Remove old pin lock distal housing.
2. Insert and attach RevoLock distal housing.
3. Route tubing from distal housing slot through old pin lock hole without kinking tubing.
4. Determine Click Reel and Slider location and bond collar, slider base and tubing to socket frame.
5. Cut tubing to length, insert into collar, bond tubing to socket.
6. Remove silicone dummy from collar and trim tubes.
7. Feed lace through collar, tubing and distal housing.
8. Attach lace to snap.
9. Attach the other lace end to the Click Reel and install into collar.
10. Attach threaded insert into liner.
11. Connect threaded insert to snap.
12. Test for function.

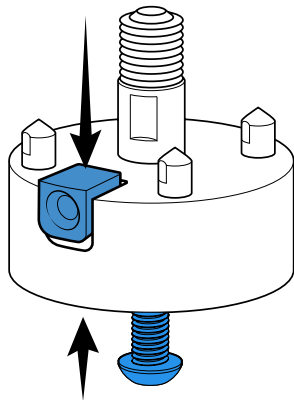
Detailed Fabrication Instructions:

RevoLock can be fabricated using a single stage or double stage lamination process:

- **For single stage:** follow steps 1-10, then skip to step 18
- **For double stage:** follow steps 1-8, then skip to step 11

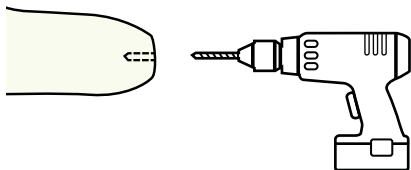
For material suggestions and guidelines, please refer to the **Material Data Sheet:** clickmedical.co/mds

- 1 Prepare the inner tool form by inserting a tool form plug into the base and attaching retention bolt.**



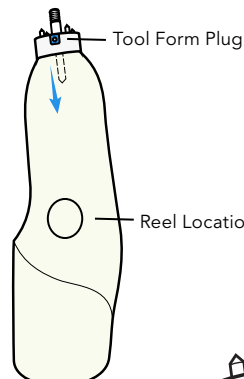
Note: Tool form plugs are found in each RevoLock Kit.

- 2 Drill hole in mold to anchor retention bolt.**



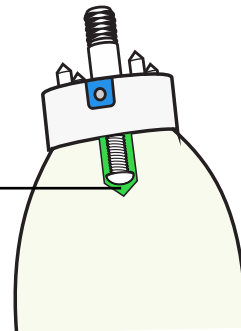
- 3 Determine desired location of reel and mark on the model.**

Orient the tool form plug in the direction of the collar. Fill hole with 60 second adhesive to secure retention bolt.



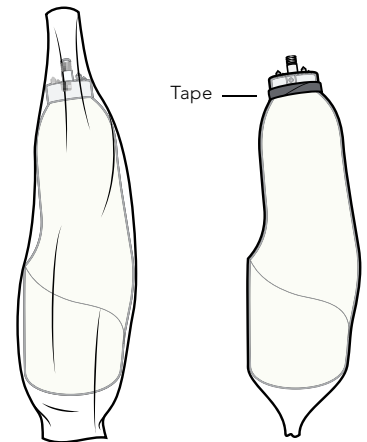
Pro Tip: Backfill and blend tool form with model.

Fill hole with 60 second adhesive to secure retention bolt.



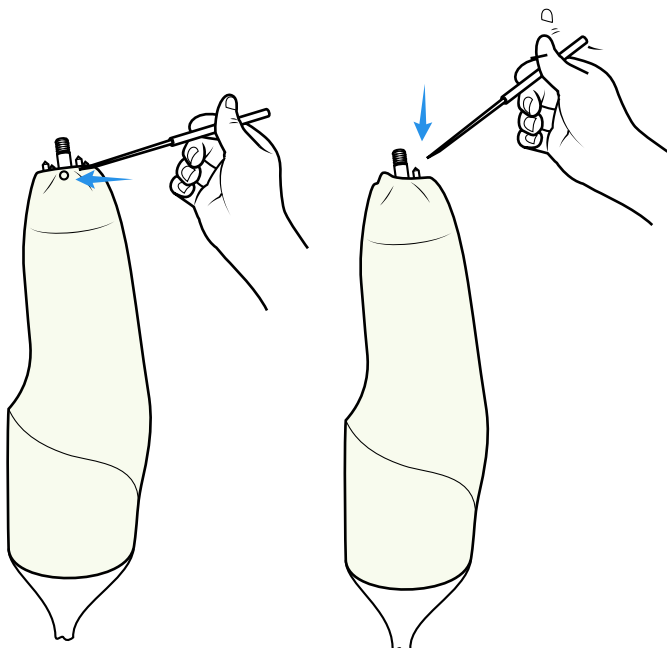
- 4 Apply inner PVA bag:**

- a. Tape bag to metal form, remembering to allow access to the plug.
- b. Trim excess.



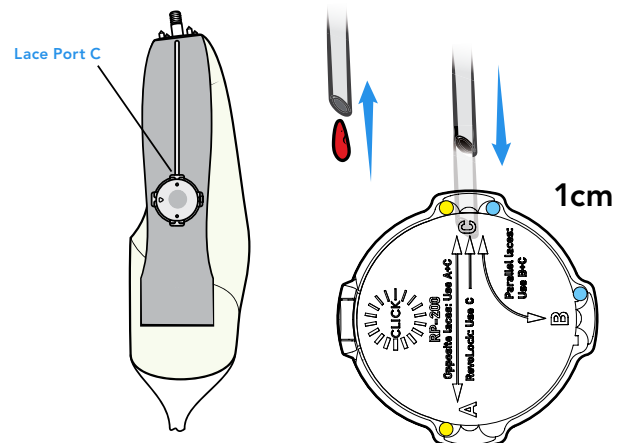
- 5 Apply inner fabric layers:**

Use a hot pick to create access holes for the plug and the 4 pins.



- 6 Install the tubing:**

- a. Pack tube end with 1cm of clay.
- b. Fully insert one end into tool form plug.
- c. Measure the distance from the plug to the collar.
- d. Cut tube to length, pack with clay and insert into collar via **Port C**. Leave room proximally on the socket for the slider that is installed in Step 7.



-- DO NOT KINK THE TUBE --

If the tube kinks, you must replace with a new piece.

Detailed Fabrication Instructions (continued):

7 Install RevoLock Slider Base and Tubing:

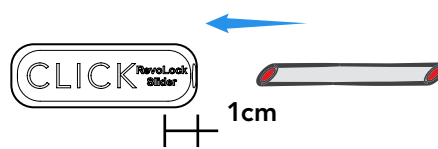
Purpose: The RevoLock Slider locks the reel into Power Mode and prevents unintentional full release of lace.

a. Plug both ends of Slider Tube with clay.



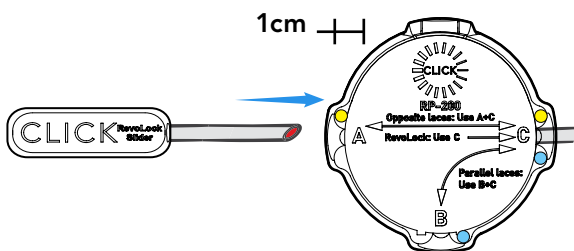
b. Insert tube into Slider Base.

Insert fully - at least 1cm.



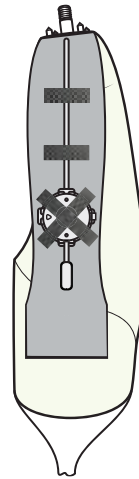
c. Insert free end of tube into Lamination Collar opposite of the tubing inserted in step 6.

Use Lace Port A. Insert fully - at least 1cm.



d. Place Lamination Collar and Slider Base in desired location.

Pro Tip:
For more secure positioning of the tube, use light spray adhesive and strips of carbon tape to secure tube and collar in place.

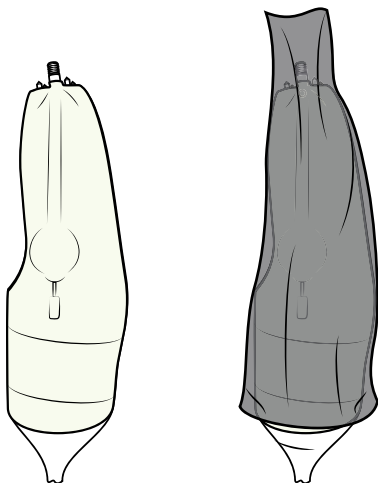


e. Use additional material to fill in under tubing for support.



**! DO NOT EXCEED 15 inHG OF VACUUM PRESSURE DURING LAMINATION
REDUCE VACUUM TO ALLOW INNER LAYERS TO FULLY SATURATE DURING LAMINATION**

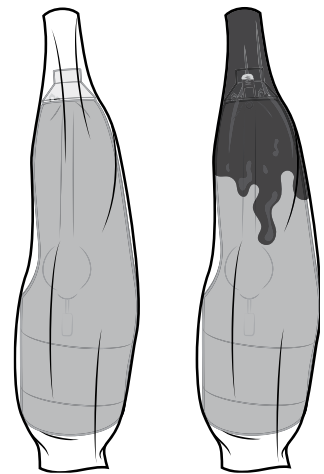
8 Apply outer fabric layers.



9 Clay the 2 small holes on top of the form. Apply outer form and nut.



10 Apply outer PVA bag and laminate.



! REMINDER

- **For single stage:** follow steps 1-10, then skip to step 18
- **For double stage:** follow steps 1-8, then skip to step 11

Additional Steps for Two-Stage Lamination:

- 11 Add plastic spacer plate to create void for 2nd lamination, then apply outer former and compression nut.

Clay the 2 small holes on top of nut.

- 12 Apply outer PVA bag.

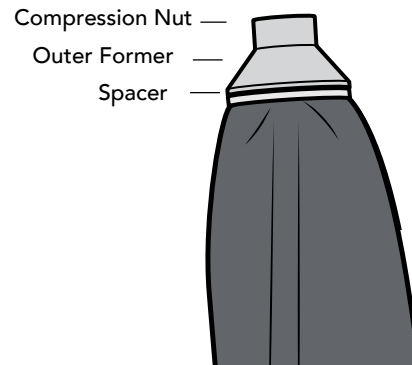
- 13 Perform 1st lamination.

- 14 Remove compression nut, outer former and spacer plate.

- 15 Apply outer fabric layers. Then reapply the outer former and compression nut.

- 16 Apply outer PVA bag.

- 17 Perform 2nd lamination.

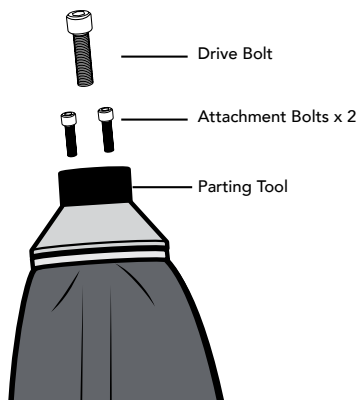


Optional: If also adding RevoFit® adjustability, install those components now.

For All Laminations, Complete These Final Steps:

- 18 Tool Form removal:

- a. Remove compression nut.
- b. Place parting tool onto the outer former.
- c. Screw 2 attachment bolts through parting tool and into outer former.
- d. Screw drive bolt into parting tool to remove the outer former.



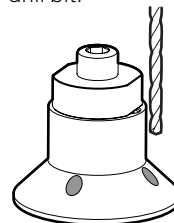
- 19 Gently tap center bolt to remove inner tool form and plug.

Note: Be careful not to damage threads on the bolt.



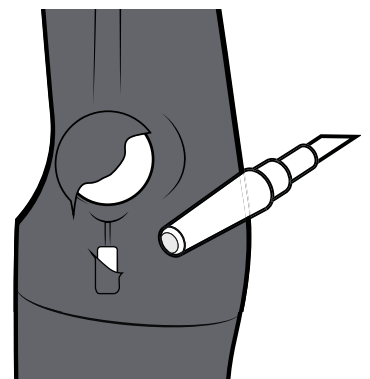
Pro Tip:

The four open shafts allow the distal material to fully saturate. These must be cleared out after each use with a 1/4" drill bit.



- 20 Prepare Collar and Slider Base:

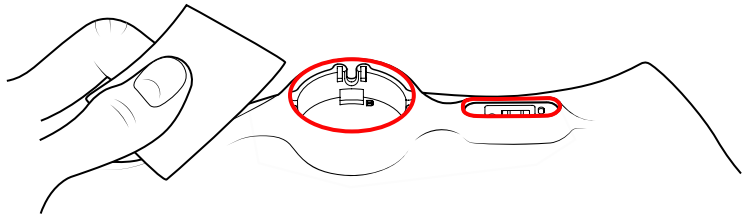
- a. Grind to silicone in both the collar and the slider dummies and remove.
- b. Grind to expose metal bridge and smooth edges.
- c. Trim tube ends in both Lamination and Slider Collars. Remove any clay debris.



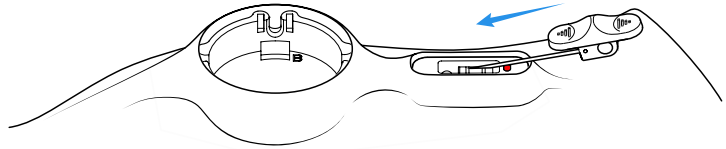
Detailed Fabrication Instructions (continued):

21 Install RevoLock Slider:

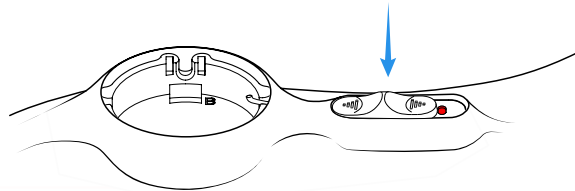
- a. Ensure carbon edge surrounding Lamination Collar and Slider Collar cavity is smooth - sand with wet/dry sand paper.



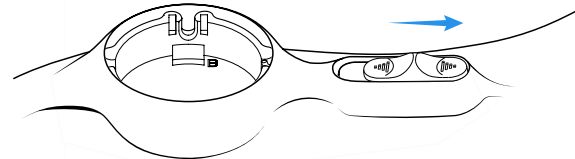
- b. Insert wire on Slider into the Slider Collar and into tubing. Push the wire through the tubing until it exits the reel collar.



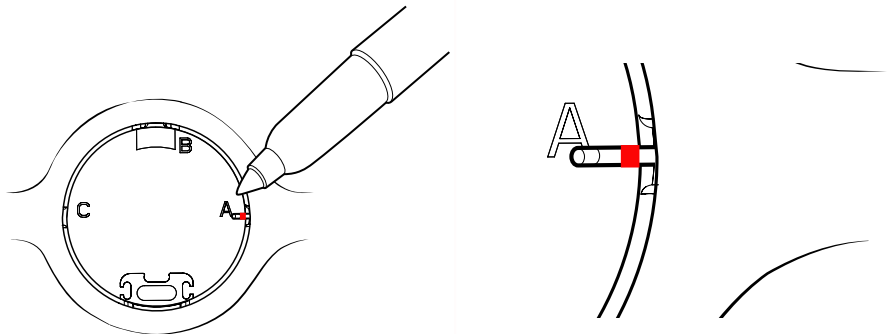
- c. Push the Switch down into the Slider Base until it "clicks".



- d. **VERY IMPORTANT STEP:** Ensure that the Switch is in the unlocked/open position with the red indicator not visible.

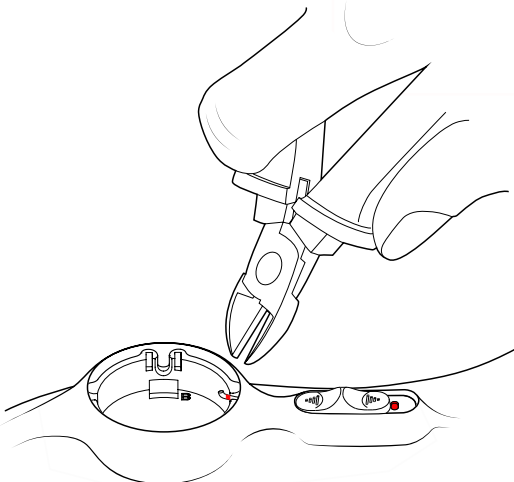


- e. **VERY IMPORTANT STEP:** Mark the Lock Wire at the inside diameter of the reel Lamination Collar with a permanent marker.

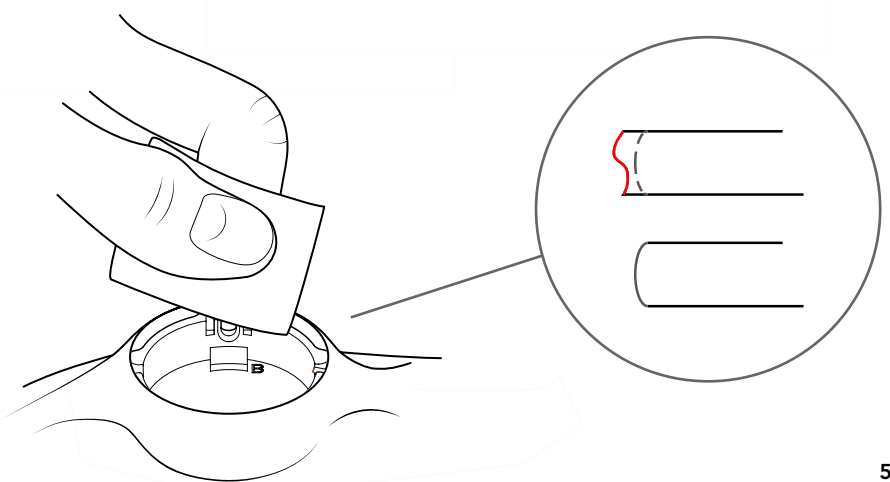


- f. Move Switch into the locked position, with the red pill shape showing.

Step 1 Cut Lock Wire at the mark.



Step 2 Sand/file smooth to remove any burrs.

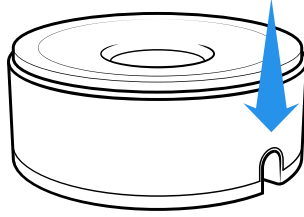


Detailed Fabrication Instructions (continued):

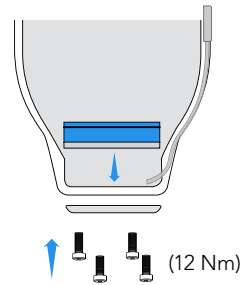
22 Install 4-Hole Housing:

- a. Insert distal RevoLock housing into socket.

Note: Align bottom channel to fit over the tubing.



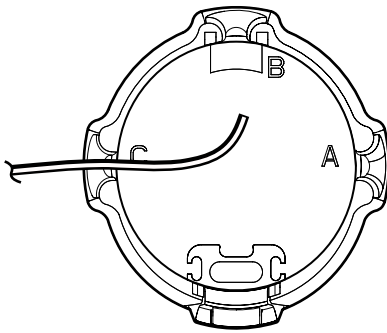
- b. Attach alignment hardware and torque to spec (12 Nm).



23 Attach lace to the Click Reel.

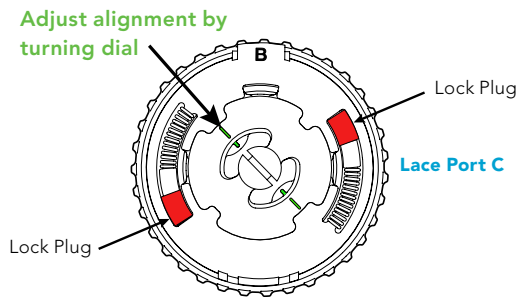
Step 1

Insert Lace into Port C, ensuring that the tubing from the distal end is entering Port C as outlined in Step 6.



Step 2

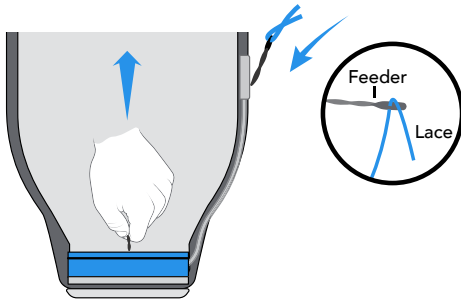
Ensure that the reel is ready for lacing. Both lock plugs should be in place. The **green marks** on the spool should align with the **green marks** on the washer. If necessary, turn dial to align green marks. **Use Lace Port C.**



24 Lace the device:

Use the lace feeder to feed the lace through tubing starting at the collar.

Note: Crimp end of feeder to help steer it up and through the housing.



25 Attach lace to the LE Quick Connect Snap.

- a. Determine lace length for the user to easily connect snap parts, and mark the lace.

Note: Max lace length from distal housing = 45 cm.

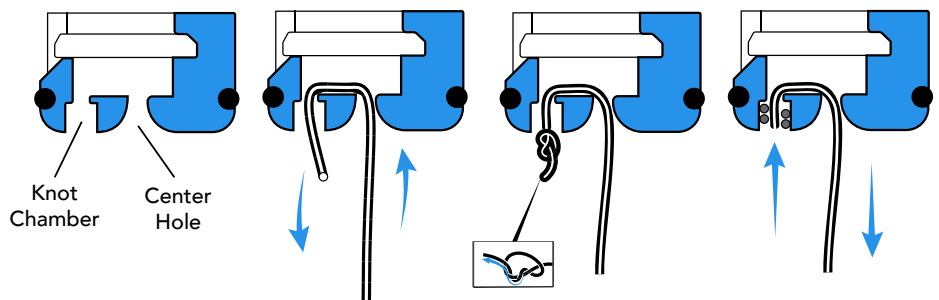
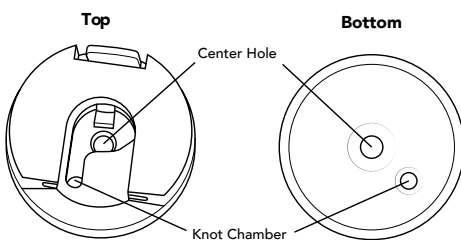
- b. Connect the lace to the LE Quick Connect Snap:

1. Thread lace up through the center hole from the bottom of the snap.
2. Then thread lace down through the knot chamber.
3. Tie a **double overhand** knot.
4. Seat the knot into the knot chamber by pulling on the lace.
5. Seal the hole with a drop of glue.

45cm max



****MAKE SURE THE LACE DOES NOT INTERFERE WITH THE CONNECTION OF THE SNAP****



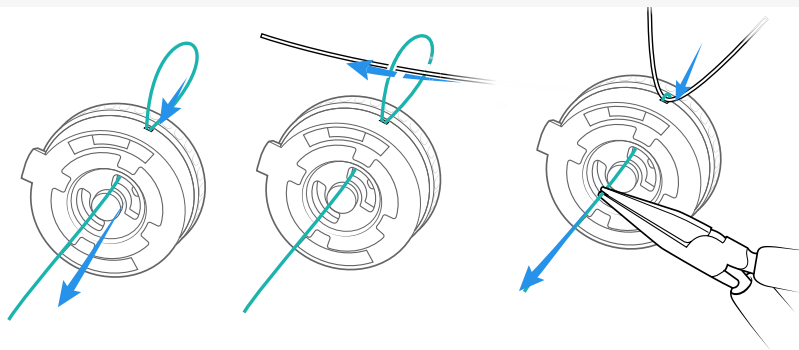
Detailed Fabrication Instructions (continued):

26 Step 1

Lace the reel using the plastic lace feeder.

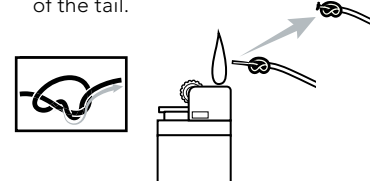
Pro Tips:

1. Slightly bend the tip of the lace feeder.
2. Once inserted into lace hole, twist lace feeder to help exit the lace hole.



Step 2

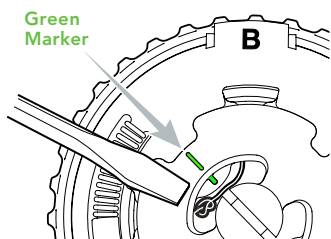
Tie a **double overhand** knot for the HC Lace. Trim tail to <5mm and lightly burn the end of the tail.



Step 3

Pull lace to seat knot in the far lace pocket, on the opposite side of the **green marker**.

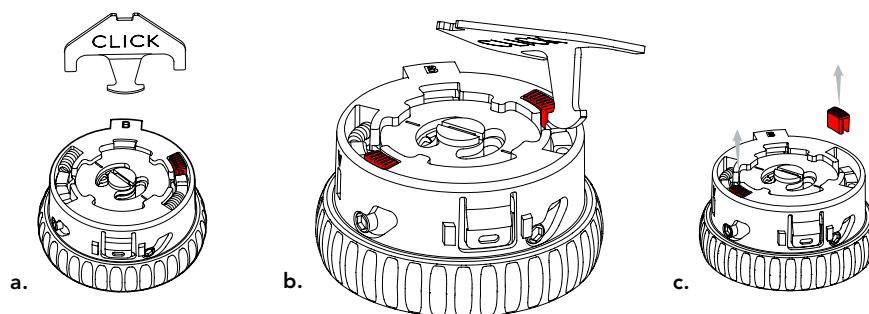
Completely push knot into the cavity with a #1 flathead screwdriver:



Step 4

Remove **both** red lock plugs to engage the Shift® feature of the reel.

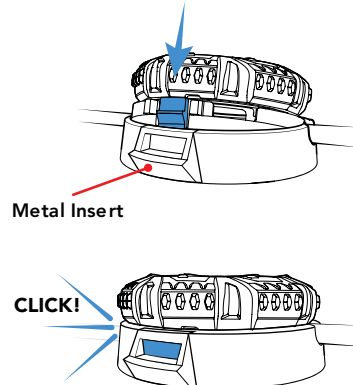
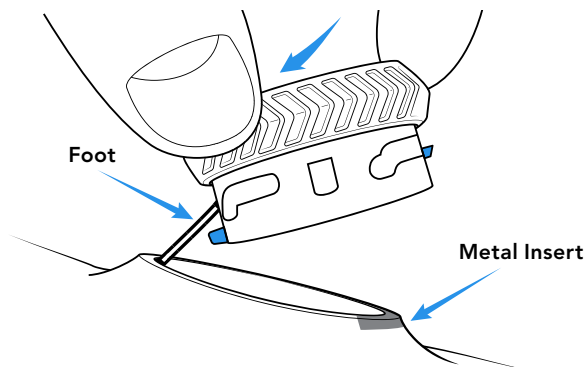
Pro Tip: Keep the red lock plugs for future use or leave in place to keep reel locked in Power Mode.



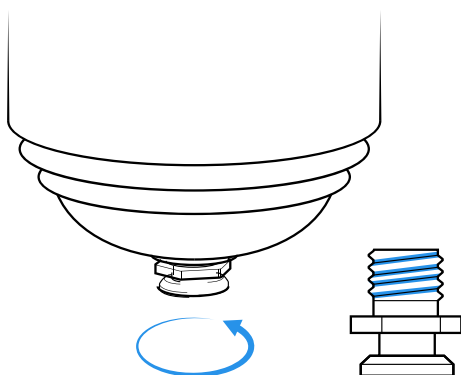
27 Install the Click Reel.

a. Insert the foot of the reel into collar.

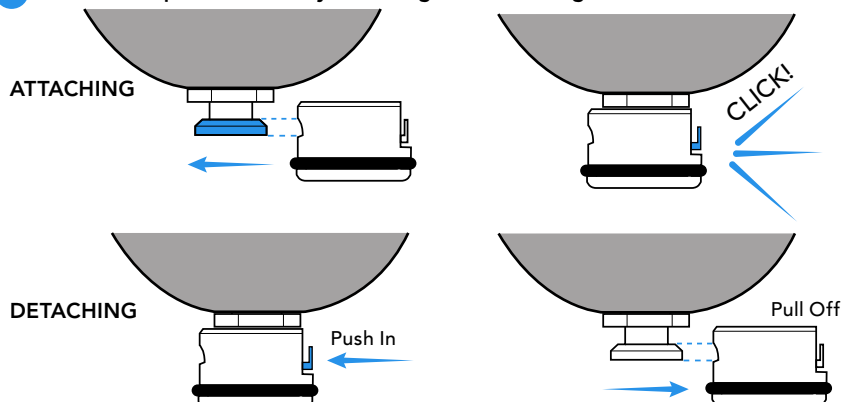
b. Press the reel firmly into the collar (you should hear a "CLICK" when secure).



28 Apply medium thread lock to the insert threads and attach to the liner.



29 Test the snap connection by attaching and detaching 2-3 times.



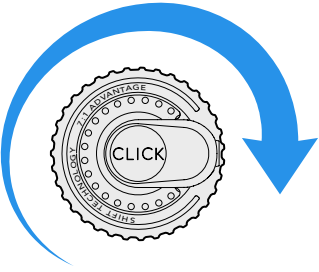



Test system for proper function:

Cycle the system 3 times before delivering to verify proper function of the reel.

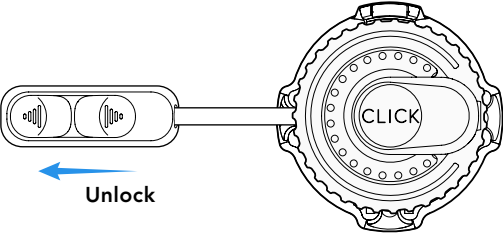
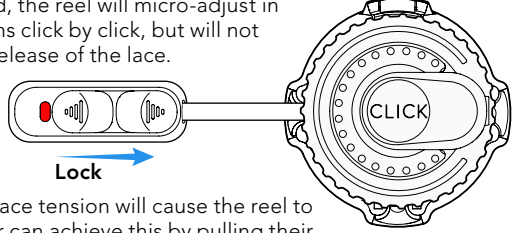
30 Important.

As a final step of fabrication, attach the patient **Instructions For Use** hangtag on dial.

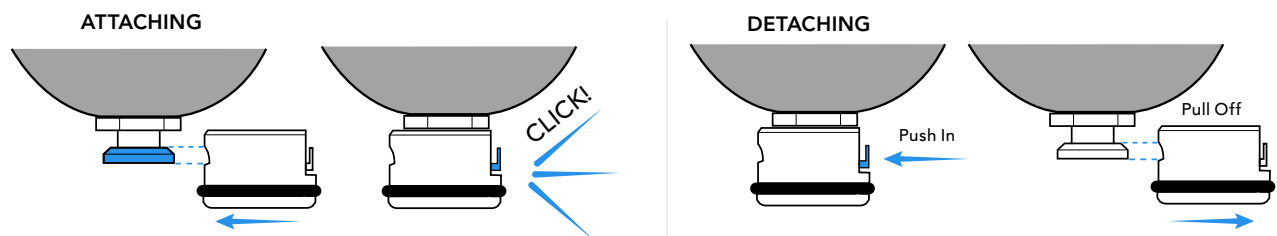
How to use the Click Reel

- 1 Turn reel clockwise to quickly take up lace.

Fast Wind or Full Release Mode = Silent (Smooth)
- 2 Reel will automatically shift to high power mode as it tightens.

Power Mode = "Clicking" (Tactile)
- 3 Micro-adjust by turning forward or backward.

Pro Tip: If you prefer the reel to operate ONLY in Power Mode for constant micro-adjustment, replace the lock plug to "disable" the Shift function.
- 4 To fully release, unwind counter-clockwise until "clicking" stops.


How to use the Slider:

- 1 Push out, Slider is **unlocked**.
 - Allows for the standard function of the Reel with full release of the lace.
Red Mark is Hidden
Unlock
 - 2
 - Turn the dial clockwise until the limb is completely pulled into the socket and the reel has fully shifted into Power Mode.
 - While the reel is fully shifted, engage the Slider by pushing it towards the reel while turning the dial at the same time, until the red mark appears.
 - Once locked, the reel will micro-adjust in both directions click by click, but will not allow for full release of the lace.
Lock
- Pro Tip:** If the patient can't fully seat into the socket, they can still stay locked into the device. Once the reel is fully shifted into Power Mode, engage the slider and the user is securely connected to the socket.
- Pro Tip:** Increased lace tension will cause the reel to shift faster. The user can achieve this by pulling their limb away from the socket while turning the dial at

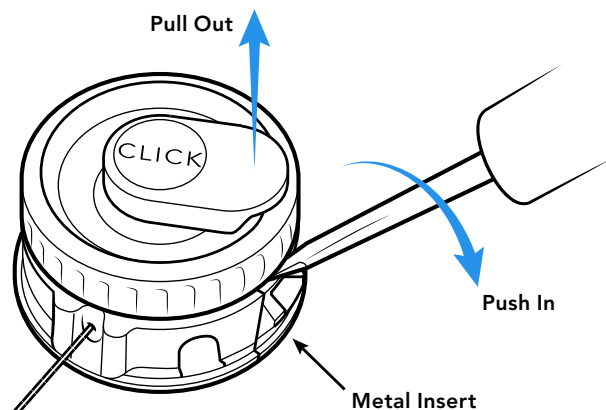
How to operate the Snap to connect the liner:



To remove the Click Reel:

- Release lace tension.
- Locate the metal insert.
- Insert a small flathead screwdriver between the metal insert and the reel body.
- Gently pry the reel upwards.

See clickmedical.co/instructions for detailed instructions for replacing/re-lacing a reel.

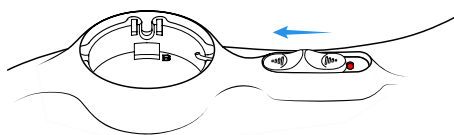


How to replace the Slider Wire:

This process is **ONLY** needed if the Slider Wire is trimmed short and does not engage the Shift Ring. Replace it with the second Slider Wire included in the kit.

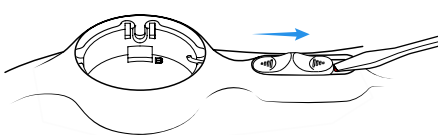
Step 1

Put the Slider in the locked position with the red pill shape showing completely.



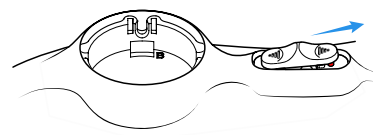
Step 2

Place a #1 flathead screwdriver on top of the base behind the Slider and on top of the red pill shape.



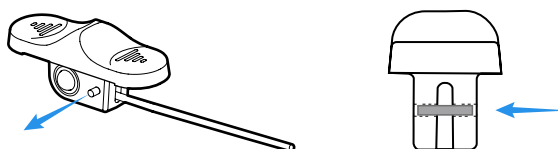
Step 3

Push the Switch into the unlocked position, ramping it up the flathead screwdriver face until the Switch pops out of the Slider Base.



Step 4

Push the pin out of the Switch body from one side only.



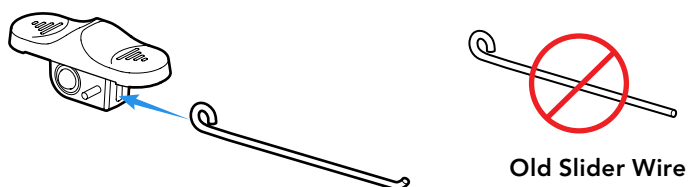
Step 5

Once the pin is exposed enough to grab with pliers, pull the pin almost all of the way out, but leaving it in one of the side walls.



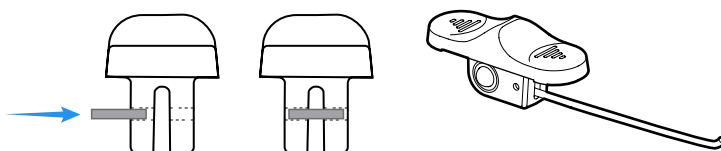
Step 6

Remove and discard old Slider Wire & put new Slider Wire in pocket.



Step 7

Push the pin back through second wall with a flat head screwdriver, capturing the Slider Wire and fastening it in place. The Slider Wire should still be able to rotate, but not pull out of the pocket. Make sure that the pin is not proud of the wall surface, otherwise it will drag on the inside of the Slider Base and cause a malfunction.



Step 8

Reinsert Slider Wire into tubing and Switch into Slider Base (see step 6 above).

***If you lose the pin**, use the discarded Slider Wire as a replacement. Cut the old Slider Wire cleanly and insert into side wall pin hole. Push through until it starts to enter the second wall. Trim old Slider Wire and push the pin the rest of the way into the first wall.

At delivery of device with patient present, scan Instructions For Use Hangtag. Please review with your patient how to use the Click Reel and to care for and maintain their RevoLock system.

Regularly inspect your RevoLock system.



Inspect lace:

- ✓ Check for wear or damage routinely
- ✓ Replace at any sign of wear
- ✓ Replace lace every 6 months



This product is waterproof and submersible. Rinse with fresh water after use in saltwater, sand, or mud.

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