

CD117 Easy-Off[™] Lock

Fabrication Instructions



Weight limit: 265 lbs.

2-year warranty against manufacturer defects, excessive wear or breakage.

Patent No. 6334876. Other patents pending. Made in U.S.A. **External Prosthetic Components**







Advena Ltd Pure Offices Plato Close Tachbrook Park

Warwick, CV34 6WE, UK

Parts Included



Lamination dummy

8-click pin

 ϵ

CD117.revE.12122017





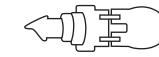




Foam rectangle



Screws (4)



Lever assembly



screw



Removable screw



Pin spacers (3)

Manufactured by



419 N. Curtis Rd., Boise, Idaho 83706 (208) 429-0026 | www.coyotedesign.com

Installing Lock on Mold



Cast limb with casting handle in place to create shape of lock in mold.

Place lock on mold.

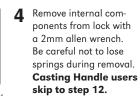
Trace lock.



2 Insert anchor in cast handle of mold. Fill mold.



3 Mold and anchor are now ready for fabrication.



If using casting handle, begin with Step 1.

If NOT using casting handle, skip to Step 4.



8 Place anchor in lock.



Do not flatten beyond tracing of lock.



10 Place anchor and lock on mold. When glue sets, remove lock.



7 Drill 1/2" wide hole.

Angle hole to help

11 Apply nylon over mold. Reflect and twist nylon around tie-off ring of the anchor.

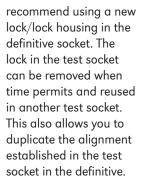
Transferring Alignment

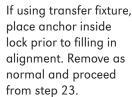
NOTES FOR TRANSFERRING ALIGNMENT: We

9 Fill hole with Coyote

Quick Adhesive or

fast-setting epoxy.





NOTES FOR FLEXIBLE INNER SOCKET:

If you are using a flexible inner socket, visit our video gallery at coyotedesign.com for tutorials and instructions.



24 Lube and install glue plate on alignable connector

27 Install lock on mold in

desired location, mark

release lever location.



25 Attach a pyramid to alignable connector.





28 Rest mold and lock on alignable connector. Place test socket next to mold and compare alignments. Measure to compare accurately.



29 Separate lock from connector. Fill connector with Coyote Quick Adhesive or fast-settina



30 Place mold and lock 31 Remove pyramid from back into connector in tube clamp then remove desired location. Let set. pyramid and glue plate.

Need more help?

Fabrication videos can also be viewed at www.coyotedesign.com/ video

Test Socket Fabrication



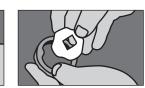
12 Install 4-hole fab plug. Snug tighten screws only DO NOT over-torque.



13 Place rectangle foam on fab plug.



14 Place lock on mold. Mark desired location of release lever.



15 Install insert of choice in Coyote alignable connector.



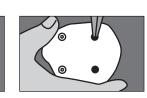
16 Place adhesive foam on connector posts. Place connector offset or centered.







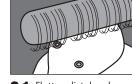
18 Expose foam rectangle and remove it.



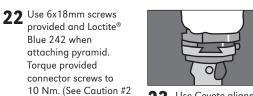
19 Expose yellow foam, using care not to hit posts. Remove socket with socket extractor or traditional methods.



20 Remove 4-hole plug with screw, smooth and polish area.

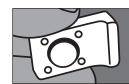


21 Flatten distal end and polish.



23 Use Coyote alignment coupler CD106 for alignment during fitting.

Preparation for Lamination



32 Make sure O-ring is in place on lamination dummy insert.

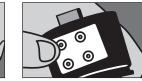


33 Install lamination dummy and orient in the desired direction of lever.



and #4)

34 Tighten screws. Do not over-torque.



35 Lubricate screw heads with petroleum jelly or clean clay.



36 Pull inner PVA bag over model. Heat bag to form to distal end. Tie PVA bag to anchor tie-off ring.



37 Trim excess PVA between tie-off ring and o-rings. Keep o-rings clear.



38 Run bead of Coyote Quick Adhesive or 5-minute epoxy around inner funnel of lock.



39 Place lock on anchor and ensure release lever is in desired location. Smooth out excess adhesive with finger.

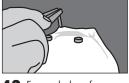
Lay-up



40 Reflect nylon stockinette or other material over connector, lock and



41 Twist and reflect material to leave a small open circle in center of



42 Ensure holes of connector are exposed. A hot nail or awl can be used



43 Pull first composite layer over mold. Cut top edges to fold around posts.



Lay-up continued



Reinforce with carbon <u>tape between posts</u>. Avoid extra material around fabrication plug for easier removal



45 Lubricate screws and install five hole plate. (See Caution #4)



46 Tie second layer of composite under 5-hole plate, and reflect down over mold.



47 Pull bag and laminate. 48 Toward end of Initially restrict flow to force lamination through center hole on plate to force out air pockets.

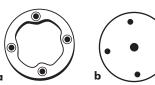


49 String can be tied between fabrication plua and top of lock to ensure seal (see Caution #6).

a Alignable Connector CD103AF

Parts Sold Separately

- **b** Five Hole Plate
- c Glue Plate
- d 6mm x 18mm Screws
- e Small foam circles (4)





Related Parts

- i Alignment Coupler CD106
- k Extractor, Socket Removal Tool CD301
- I Fabrication dummy CD103FD (for flexible inner liners, NOT for drop-in system)
- **m** Fitting Lock (for pin spacing) CD103FL

Finish



50 Expose edge and remove excess lamination



51 Remove 5-hole plate.



52 Expose lamination dummy and remove screws

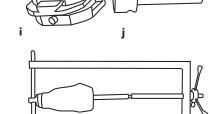


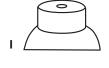
53 Extract lamination dummy with removal screw.



bottom of socket.









Installing Lever Assembly



55 Make sure that lock is placed properly, as it may have dislodged during shipping. At right, a properly assembled lever.



56 Line up lever assembly in groove and insert assembly

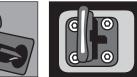


57 Line up long side of rectangle with anterior posterior aspect of the socket

If there is play, loosen

screw and liner.

pin away from adaptor

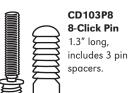


58 Install 4 screws. DO NOT over-torque.

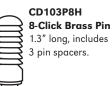


59 Lever is shown open (UNLOCKED). When lever is flush, lock is engaged (CLOSED).

Additional Pins









Practitioner Instructions

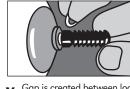
Poor seating leads to premature lock wear. The pin spacers are used to adjust the pin to seat with any liner. There should be no play between the lock and the liner when fully engaged. It is best to check seating using the Fitting Lock (CD103FL) which is reinforced to make pin evaluation fast and easy.



Roll liner of choice onto patient. Add desired number of sock ply if used.



Reengage lock to check for play. Repeat until lock seats completely.

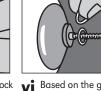


Install pin on liner. Engage

lock to check for play

between lock and liner.

and liner. Based on gap created by loosening pin, add spacers. (See Caution #5)



Gap is created between lock **v** Based on the gap created by loosening pin, install appropriate number of pin spacers on adaptor (see Caution #2).



vii After installing pin **Vi** Replace pin on adaptor, makina sure base fits snugly on pin spacers. is no play.



spacers, re-engage lock to be sure there



Apply Loctite® Blue 242 to threads of lock pin. Pin may need to be tightened with a 7/16" or 11 mm wrench. (See Caution #8 and #9).)

Documenting Suction

We view suction not as a component or a code, but as a function. Pistoning and milking can be reduced by maintaining a suction socket when using this lock.

- The suction feature of the lock can be demonstrated and documented very simply.
- Have the amputee step into the lock and seat completely.
- Lever assembly WITHOUT o-rings will be needed. This allows airflow while the patient is locked in, and can then be compared to a lever assembly WITH o-rings.
- Walk the patient normally.
- Amputee may experience a difference in how the socket feels immediately, after some ambulation, or after reinstalling the o-rings. Patient feedback should be

Call for more information on coding of the Easy-Off Lock: (208) 429-0026.

It is the practitioner's responsibility to demonstrate, document, and select appropriate codes for insurance billing.

Easy-Off Lock with P8 Pin

Chart is a guideline, NOT a guarantee of seating. Verify seating.)

Liner	Size	Spacers used	No. of clicks
Alpha Original	М	1	5
Alpha Select	М	0	5
Ossur	26.5	1	6
Alps	26	1	5

Detach here and keep everything below with patient records --------

Patient name: ____

For tracking purpose, write LOT number (from funnel of lock) here: _



CAUTION

- 1. Lever and lock do not lock automatically. Ensure lock is in the closed position; when lever is flush against socket, it is CLOSED (see Step 58.) Practitioner must give instructions on donning and doffing.
- 2. Use the 6x18mm screws provided with typical components. In atypical setups, longer screws may be needed. Always use screws class 10.9 or better.
- 3. Do not lubricate inside of lock, this will attract debris. If you have a noise issue, it is typically due to seating. Call for technical assistance.
- 4. Always use screws provided during lamination to ensure proper depth is created for attachment.
- 5. Never exceed 3 pin spacers.
- 6. Lay-up instructions are helpful hints on how to work with the lock and connector. Actual layups are responsibility of the technician and/or practitioner.

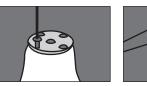
should be at least 2 to 3 clicks engagement prior to any ambulation and more clicks should occur after a few steps. 5 to 6 clicks (depending on liner) are required for full/proper seating and engagement.

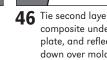
7. Note number of clicks for engagement. There

- 8. Liner threads vary. Begin threading pin into liner by hand whenever possible. A wrench will be needed in cases of tight threads.
- Regardless of threading, always use Loctite 262 on lock pin threads. If installing into a plastic distal adapter Loctite® Primer 242 should also be used.
- 10. The CD103P11 is the longer pin for the Easy-Off Lock. However, with most liners this longer pin will bottom out in the lock. If a long pin is needed, call Coyote for information on extending the depth of the lock to allow for use with the longer pin, or for a deeper lock option.
- 11. If using a flexible inner liner, do not leave plastic over lock housing, this can cause air leakage and other issues. You should laminate directly over housing. Contact Coyote for more information.













lamination, place tape over 5-hole plate to squeeze excess resin out of lamination.

Connector Parts

f Multi-Direction Insert CD103MDI

- g Single-Direction Insert CD103SDI
- h One-Shot Connector CD111
- i Casting Handle CD316A

