

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 Warwick, CV34 6WE, UK

Parts Included

 ϵ



Pin adaptor



4-hole plug



Foam rectangle

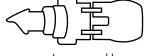


Screws (4)



Lamination dummy

8-click pin



Lever assembly



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.

Fill hole with Coyote

Ouick Adhesive or

fast-setting epoxy.

Trace lock.

5



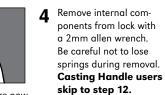
2 Insert anchor in cast handle of mold. Fill mold.

Do not flatten beyond

tracing of lock.



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.



Flatten mold to fit to lock. 7 Drill 1/2" wide hole. Angle hole to help anchor adhesive.



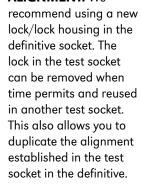
around tie-off ring

10 Place anchor and Apply nylon over mold.

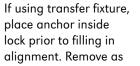
lock on mold. When glue Reflect and twist nylon of the anchor

Transferring Alignment

NOTES FOR TRANSFERRING ALIGNMENT: We



normal and proceed from step 23.



NOTES FOR FLEXIBLE INNER SOCKET:

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



sets, remove lock.

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 alianments. Measure to compare accurately.



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



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

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.

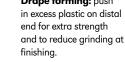


15 Install insert of choice in Coyote alignable connector.



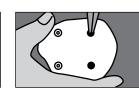
16 Place adhesive foam on connector posts. Place connector offset or centered.







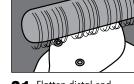
18 Expose foam rectangle and remove it.



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.

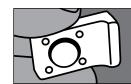


21 Flatten distal end and polish.



23 Use Coyote alignment coupler CD106 for alignment duringfitting

Preparation for Lamination



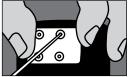
32 Make sure O-ring is in place on lamination dummy insert.



33 Install lamination dummy direction of lever.



and orient in the desired



34 Tighten screws. Do not over-torque.

and #4)



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 ground 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 stockinet or other material over connector, lock and mold.



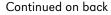
Twist and reflect material to leave a small open circle in center of



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



44 Lay reinforcement between posts. Avoid extra material around fabrication plug for easier removal.



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



down over mold.



force lamination through

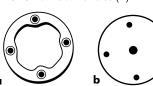


49 String can be tied between fabrication plug and top of lock to ensure seal (see Caution #6).

Alignable Connector Parts

Parts Sold Separately

- a Alignable Connector CD103AF **f** Multi-Direction Insert CD103MDI
- **b** Five Hole Plate
- c Glue Plate
- d 6mm x 18mm Screws
- e Small foam circles (4)







g Single-Direction Insert CD103SDI

h One-Shot Connector CD111

Related Parts

- i Alignment Coupler CD 106
- i Casting Handle CD316A
- 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





50 Expose edge and remove excess lamination.



51 Remove 5-hole plate.



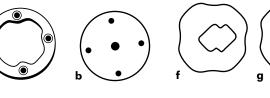
52 Expose lamination dummy and remove screws

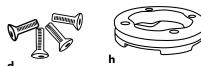


53 Extract lamination dummy with removal screw.

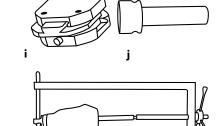


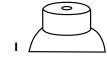
bottom of socket.





Inserts







Installing Lever Assembly

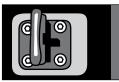


55 Make sure that lock is placed properly, as it may have dislodged during shipping. At right, a properly assembled lever.





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

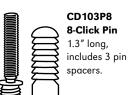


58 Install 4 screws. DO NOT over-torque.



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

Additional Pins



999

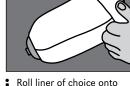






Practitioner Instructions

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.



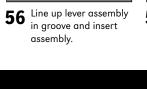
patient. Add desired number of sock ply if used.



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



Vi Replace pin on After installing pin adaptor, making spacers, re-engage lock to be sure there sure base fits snugly is no play. on pin spacers.



Install pin on liner. Engage

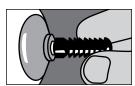
and liner. Based on gap cre-

ated by loosening pin, add

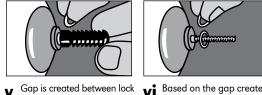
spacers. (See Caution #5)

lock to check for play

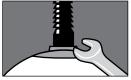
between lock and liner



If there is play, loosen pin away from adaptor screw and liner.



vi Based on the gap created by loosening pin, install appropriate number of pin spacers on adaptor (see Caution #2).



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

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 componenets. 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.

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. 8. Liner threads vary. Begin threading pin into liner

7. Note number of clicks for engagement. There

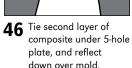
should be at least 2 to 3 clicks engagement

- 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 adaptor 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.











47 Pull bag and laminate. Initially restrict flow to center hole on plate to force out air pockets.



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

