

CD122A Air-Lock Drop-In

Fabrication Instructions



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

Patent No. 6334876 Made in U.S.A. External Prosthetic Components







EC REP Tower Business Centre

Parts Included



Housing with attached Connector (*Do not remove 4 hole connector from lock)



Release button



Lock plate

Valve body

Springs (3)







Fabrication plug



Screws (4)

6mm x 18mm



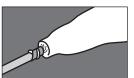
99 Small Foam

99

Circles (4)

Manufactured by Coyote® Loyote -419 N. Curtis Rd., Boise, Idaho 83706 (208) 429-0026 | www.coyote.us

Installing Dummy on Mold



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



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

10 Fill hole in cast with

fast-setting epoxy, or a wet

Covote Ouik Glue.



3 Mold and anchor are ready for fabrication.



Install Fabrication Plua and push plate into Air-Lock Drop-in Dummy.



12 When glue sets mark desired location of release button.



(See Caution #1)

Casting Handle users skip to step 10.



Place lock dummy on mold. Trace lock.



If using casting handle, begin with Step 1.

If NOT using casting handle, skip to Step 4.

7 Flatten mold to fit to lock dummy. Do not flatten beyond tracing of dummy.



Drill 1/2" diameter hole Angle hole to help anchor adhesive.



- 1. Do not position lock with release button pointing posterior or anterior. Typically release button is oriented medially.
- 2. Typical Coyote® components use 6x18mm screws. 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.

Drape Molding Check Socket

Place anchor in lock dummy or use

threaded stud from dummy kit.



13 Apply nylon over mold. Reflect and twist nylon around lock dummy.



14 Use a hot awl or scissors to expose connector posts.

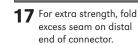


11 Place Fabrication

Dummy on mold.

15 Place adhesive foam on connector posts.







19 Remove socket in traditional fashion or with socket extractor.

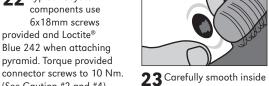


20 Use the Threaded Bolt and 3/4" socket wrench to push the dummy out.



21 Press lock into place and attach pyramid with supplied 6mm x 18mm screws







24 Slide lock plate into lock, 25 Place lock pin in lock to 26 Add third spring. Slide springs first. It slides easily ONLY one way. Verify orientation first. (See Caution #3)



hold lock plate.



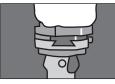
release button into valve body.



27 Thread valve body into housing.



28 Hand-tighten valve body with Coyote lock wrench or 13mm deep well socket.



29 Use Coyote alignment coupler CD106 for alianment during fitting.

Laminating

(See Caution #2 and #4)



30 Pull vacuum nylon over socket and lock dummy. Add one layer of Electrical tape at edge of lock dummy and cut off excess nylon at distal end of dummy



et and lock dummy

Heat shrink it for tight fit.

of hole to allow for easy

assembly of lock.

32 Tie off PVA bag and apply vacuum. Apply one layer of electrical tape over distal end of lock.



33 Cut away PVA Bag from distal end against electrical tape and lock edge. Fill circular crack of push plate with clay or putty. Cover bottom of dummy with compound 4.



34 Pull nylon stockinette or other materials over connector, lock dummy and mold.



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



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



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



38 Reinforce with carbon tape between posts. Avoid extra material around abrication plug for easier



install five hole plate.

(See Caution #4)



40 Tie second layer of composite under five hole plate and reflect down over mold



41 Pull bag and laminate as usual. Initially restrict flow to force lamination through the center hole on plate, forcing out air pockets.



42 Toward end of lamination, tape can be placed over five hole plate to squeeze excess resin



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

Need assistance?

Call us, we would love to help. (208) 429-0026

Finish



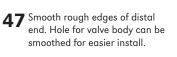
44 Expose edge and remove excess lamination.



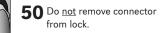
45 Remove five hole plate.



46 Expose fabrication plug and remove.



48 Remove socket in traditional **49** Use the Threaded Bolt fashion or with socket extractor. and 3/4" socket wrench to push the dummy out.



51 Wipe down O-ring on socket with alcohol before inserting.



52 Press lock into place and attach pyramid with supplied 6mm x 18 mm screws.

53 Attaching pyramid to connector will draw lock into place.

54 See steps 23-27 for lock assembly instructions. Use 6x18mm screws provided (see Caution #2 and #4) and Loctite® Blue 242 when attaching pyramid. Torque provided connector screws to 10 Nm.



When attaching the dummy to the cast The Air-Lock Anchor or Threaded Stud can be used with the Drop-In Air-Lock Dummy.



The Threaded bolt is used in conjunction with the push plate to push the dummy out of the socket.

CD122AFD Air-Lock Fabrication Dummy - Parts Sold Separately



Dummy for Drop-In Air-Lock





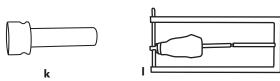
Extractor Bolt

Other Parts Sold Separately

Related Parts

- i Alignment Coupler CD106 i Lock Wrench CD103WH
- k Casting Handle CD316A
- Extractor, Socket Removal Tool CD301 m Fabrication dummy CD103FD
- (for flexible inner liners, NOT for drop-in system)

n Fitting Lock (for pin spacing) CD103FL



Need more help?

Fabrication videos can also be viewed at www.coyote.us/video

Practitioner Instructions

Poor lock pin spacing leads to premature wear. There should be no play between the lock and liner when fully engaged. You may need to add spacers to the pin to ensure this. Check for proper amount of play before putting lock into socket.



Install pin on liner. Engage lock to check for play between lock and liner



v Based on the gap created by loosening pin, install appropriate number of pin spacers on adapter (see Caution



pin away from adapter screw and liner



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



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



Gap is created between

pin and liner.

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 #4, #5, #12)

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
- Have the amputee step into the lock and seat completely.
- Using the lock wrench, remove the valve body, release button, and outer spring from the lock. The amputee is still locked into the socket, but air is now allowed to flow into the bottom of the socket like a traditional pin.
- Walk the patient normally.
- Amputee may experience a difference in how the socket feels immediately, after some ambulation, or after reinstalling the valve body, release button and outer spring. Patient feedback should be documented.

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

* It is the practitioner's responsibility to demonstrate, document, and

Detach here and keep everything below with patient records

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



CAUTION (page 2)

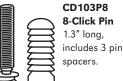
- 1. Do not position lock with release button pointing posterior or anterior. Typically release button is oriented medially.
- 2. Typical Coyote® components use the 6x18mm screws. In atypical setups, longer screws may be needed. Always use screws class 10.9 or better.
- 3. Do not lubricate inside of 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 lay-ups are responsibility of the technician and/or practitioner.
- 7. Note number of clicks for engagement. There 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.

- 8. Liner threads vary. Begin threading pin into liner by hand whenever possible. A wrench will be needed in cases of tight threads.
- 9. Regardless of threading, always use Loctite® Blue 242 on lock pin threads. If installing into a plastic distal adapter Loctite® Blue 242 should also be used.
- 10. Do not use the CD103P11 long pin with the Drop-In Easy-Off Lock or the Drop-In Air-Lock. With most liners this longer pin will bottom out in the lock.
- 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, or visit the video gallery at www.coyote.us.
- 12. If you have a pin you cannot install, even with a wrench, contact Coyote for a replacement.

Air-Lock with P8 Pin

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

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



Additional Pins

