

CD103L Air-Lock Locking Lanyard

Fabrication Instructions



Weight limit: 350 lbs.

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



i EC REP Advena Limited Tower Business Centre 2nd Flr, Tower Street Swatar, BKR 4013 Malta

Silicone

Plug

Spacers Disk (3)

CE CD103L revA 06012021

Parts Included



Modified Deep Release button

Housing











#12 Copper

Rivet



 \bigcirc #12 Copper Burr



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Fabrication plug

Springs (3)

118PC Lanyard Pull Cord

Valve body



Lock plate

Manufactured by

O

Pin spacers (3)



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

Installing Anchor and Lock on Mold - If using casting handle, begin with Step 1. If NOT using casting handle, skip to Step 4.



1 Cast limb with casting 2 Insert anchor in cast handle in place to create shape of lock in mold.



9 Fill hole with Coyote Quick Adhesive or fast-setting epoxy.

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

3 Mold and anchor are

ready for fabrication.

11 Apply nylon over mold. Reflect **12** Install Fabrication and twist nylon around tie-off ring of the anchor.

Plug in lock.

Remove internal components from lock with a Coyote lock wrench or 13mm deep well socket. Be careful not to lose springs during removal. **Casting Handle users**

skip to step 11.



Place lock on mold. 5 Trace lock.



13 Place lock on mold. Mark **14** Install insert of choice desired location of release button. (See Caution #1)

6

tor.

Transferring Alignment

handle of mold. Fill mold.



16 The hole in the 5 Degree AK Connector is designed for adjusting alianment.



24 Run bead of Coyote Quik Glue or 5 minute epoxy around inner funnel of lock.

17 Make sure the bottom 18 post of the lock is not blocked by attachment.



26 Place mold and lock into 25 Place lock on anchor and ensure release connector in desired button is in desired localocation.

19 A hole is pre-drilled in the bottom of the lock to be plugged with the silicon plug during fabrication



27 Make sure the string exit hole is clear of finish connector for string to exit.



20 The spacer disks can be helpful for building the correct hight.

21 The better the access to the post bottom the easier finishing is.



hesive to attach lock in the lock can help reinforce in the lamination process.

tion. Smooth out excess

Drape Molding Check Socket - Drape mold and blister molding instructional videos are available at www.coyote.us/air-lock



Lamination Lay-up

42 Pull nylon stockinette

connector, lock and mold.

or other materials over

metal posts. **32** For extra strength, fold excess seam on distal end of connector.

traditional fashion or



of hole to allow for easy assembly of lock. first. (See Caution #3)





37 Place lock pin in lock to hold lock plate.

38 Add third spring. Slide release button into valve body.









adhesive

Foam can be left in place to act



as a guide for flattening.

to leave a small open

circle in center of connector.

35 Carefully smooth inside

43 Twist and reflect material 44 Ensure holes of connector 45 Pull first composite

awl can be used.

are exposed. A hot nail or

36 Slide lock plate into lock, ONLY one way. Verify orientation

layer over mold. Cut top

edges to fold around posts.



desired alignment.





Do not flatten beyond



in Alignable Connec-



anchor adhesive.



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





22 If you don't use spacer **23** Push the lock forward disks make sure your not resting on the pin post.



29 Creating a buildup behind **30** Once glue is set remove from jig, place silicone plug and fill gap between lock and 5 Degree Connector with Quik Glue. the connector plate.



to clear the connector you choose.



31 If silicone plug is under the 5 Hole Plate trim it to fit at the hight of posts on



39 Thread valve body into housina.



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

41 Typical Coyote® components use 6x18mm screws provided. Use Loctite® Blue 242 when attaching finish connector. Torque provided connector screws to 10 Nm. (See Caution #2 and #4)



composite to fold around posts.



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



49 Finish layup.



50 Use your favorite resin

for laminating.



string



51 Restrict flow to force lamination 52 String out rest of resin through the center hole on lamination as typical. 5 Hole Plate, forcing out air pockets.



53 Toward end of lamination, tape can be place over 5 Hole Plate to squeeze excess resin out of lamination.



54 Expose edge and remove excess lamination

Making Hole for Lanyard Cord



60 Sand open silicone plug 61 with Trautman.

Connector Parts

Parts Sold Separately

b Alignable Connector CD103AF

a 5 Degree AK Connector CD115CF5



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Smooth out the edges of ble so it doesn' the hole so it doesn't cut the can pass through.

c Five Hole Plate

d Glue Plate



63 Attach your finish connector and check for proper string exit.

e 6mm x18mm Screws

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f

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Small foam circles (4)



64 The pin should bottom out in the lock. But not against your finish connector.

Attaching Pinch Disk

Lanyard Pinch Disk.

2. Mark the location.

3. Drill appropriate size hole for #12 copper rivet.

4. Attach the Lanyard Pinch disk to the socket.

I Casting Handle CD316A

- m Extractor, Socket Removal Tool CD301



Practitioner Instructions

Poor lock pin spacing leads to premature wear. There should be no play between the lock and liner when fully engaged. To ensure this, spacers may need to be added to the pin. It is best to check this with a lock that has not been put into a socket yet.



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



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



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4 Gap is created between pin and liner.



5 Based on the gap created 6 by loosening pin, install appropriate number of pin spacers on threaded end (see Caution #5).



Replace pin on adapter, making sure base fits snugly on pin spacers.



is no play

lock seats completely.

Remove lock

8 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

g Multi-Direction Insert CD103MDI

h Single-Direction Insert CD103SDI

i One-Shot Connector CD111

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.
- 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 select appropriate codes for insurance billing.



56 Expose fabrication plug and remove.

1. Choose the desired location for your

n Fabrication dummy CD103FD (for flexible inner liners, NOT for drop-in system)





- 2. Typical Coyote[®] components use the screws may be needed. Always use screws class 10.9 or better.
- 3. Do not lubricate inside of lock, this will 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.

Related Parts i Alignment Coupler CD106



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55 Remove five hole plate.



58 See steps 36-41 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.



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

1. Typically release button is oriented medially.

- 6x18mm screws. In atypical setups, longer
- attract debris. If you have a noise issue,

- 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. 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 coyotedesign.com, see the video titled "CD103FD Flexible Inner Socket with and without Coyote Design Fabrication Dummy."
- 11. If you have a pin you cannot install, even with a wrench, contact Coyote for a replacement.

Need more help?

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