

CD103L Air-Lock Locking Lanyard

Fabrication Instructions



Weight limit: 265 lbs.

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



Lock plate

Fabrication plug

Springs (3)

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

Silicone

Plua

Spacers Disk (3)

118PC

Lanyard Pull Cord

Valve body

CE CD103L.revA.11122019

Parts Included





Modified Deep Housina Release button





Locking Lanyard Pin





CD118PD



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Rivet



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Pin spacers (3)

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Anchor

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

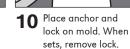
Manufactured by



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



lock on mold. When glue

handle of mold. Fill mold.



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 4 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.



5 Place lock on mold. 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

Quick Adhesive or

fast-setting epoxy.

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



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

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



25 Place lock on anchor and ensure release button is in desired location. Smooth out excess adhesive

26 Place mold and lock into connector in desired location

18



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.

hesive to attach lock in

desired alignment.

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



in the lamination process.

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



end of connector.

42 Pull nylon stockinette

connector, lock and mold.

or other materials over

Lamination Lay-up

socket flat. Take care not to sand metal posts. Foam can be left in place to act as a guide for flattening. **32** For extra strength, fold excess seam on distal

34 Remove socket in traditional fashion or with socket extractor.

to leave a small open

circle in center of connector.

33 Expose and remove small

tion plugs. Grind distal end of

adhesive foam and fabrica-



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

43 Twist and reflect material to leave a small open 44 Ensure holes of connector 45 Pull first composite

awl can be used.

are exposed. A hot nail or



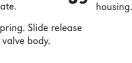
edges to fold around posts.

ONLY one way. Verify orientation



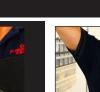
37 Place lock pin in lock to hold lock plate.

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





46 Reinforce offset as needed. It is recommended to use carbon layer over mold. Cut top fiber strips for reinforcement







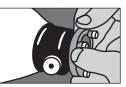
Do not flatten beyond



in Alignable Connec-







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





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



to clear the connector you choose.



the lock can help reinforce



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.



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



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)

47 Cut top edges of composite to fold around posts.



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



49 Finish layup.



for laminating.



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

55 Remove five hole plate.

56 Expose fabrication plug and remove

Making Hole for Lanyard Cord

string.



60 Sand open silicone plug with Trautman.

Connector Parts

1 Install pin on liner.

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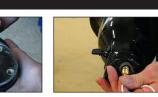
5 Based on the gap created

by loosening pin, install

appropriate number of pin

spacers on threaded end

(see Caution #5).



62 Try to make the hole **61** Remove silicone plug. Smooth out the edges of the hole so it doesn't cut the can pass through.



63 Attach your finish



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

Attaching Pinch Disk

1. Choose the desired location for your Lanyard Pinch Disk.

2. Mark the location.

Finish

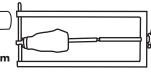
3. Drill appropriate size hole for #12 copper rivet.

4. Attach the Lanyard Pinch disk to the socket.

m Extractor, Socket Removal Tool CD301

for easier install.

n Fabrication dummy CD103FD



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



- 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.

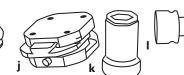


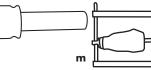
Practitioner Instructions

c Five Hole Plate

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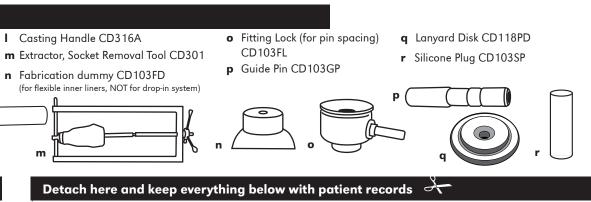
e 6mm x18mm Screws Small foam circles (4) g Multi-Direction Insert CD103MDI h Single-Direction Insert CD103SDI





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i One-Shot Connector CD111

Related Parts

i Alignment Coupler CD106

k Lock Wrench CD103WH



- 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.

Documenting Suction

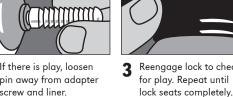
 Amputee may experience a difference in how the socket feels immediately, after some ambulation, or after reinstalling the valve body, release button and outer spring. Patient feedback should be documented.

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.

Engage lock to check for play between lock and liner

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

Replace pin on

on pin spacers.

adapter, making

check this with a lock that has not been put into a socket yet.



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

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▲ Gap is created between pin and liner.



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

Remove lock



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

a 5 Degree AK Connector CD115CF5

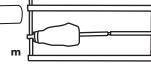
b Alignable Connector CD103AF

Parts Sold Separately



d Glue Plate

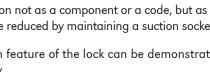
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57 Smooth rough edges of distal end. Hole for valve body can be smoothed

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. Torgue provided connector screws to 10 Nm.

1. Typically release button is oriented medially.

- 2. Typical Coyote[®] components use the 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.coyotedesign.com/ video