

Practitioner Instructions

CD103 Air-Lock

The practitioner and amputee instructions should be given to the treating clinician after fabrication is completed.

Please save in patient chart.

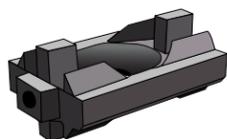
Weight limit: 350 lbs.

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



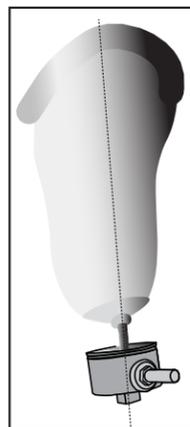
CD103Prac.revA.05192021

Replace Lock Plate every 12 to 18 months call for free Coyote® replacement. (208) 429-0026



Preparing of use
Incorrect alignment or assembly of components. Observe the alignment of the patient and fabrication instructions.

Align the lock housing with the longitudinal axis of the residual limb. If the limb is not aligned with the longitudinal axis it can increase wear on the pin, lock plate, and funnel of the socket. It could even lower the functionality of tooth engagement.



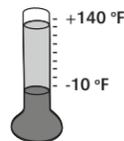
Manufactured by



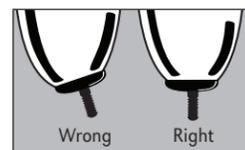
419 N. Curtis Rd., Boise, Idaho 83706
(208) 429-0026 | www.coyote.us

Environmental Conditions

E1 Allowable environmental conditions
Temperature range for use: -10 °F to 140 °F
Storage and Transportation Conditions: -10 °F to 140 °F,
Rinse and dry after use in fresh water and saltwater inspect and remove sand and debris.



Pin Engagement



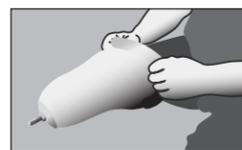
P1 Make sure the pin is properly aligned when the liner is donned.



P2 Performing a CPR motion on the knee can help the pin engage with the lock plate. Get at least two clicks before standing.



P3 When patient is donning socket make sure they get at least three clicks of the pin engaging with the tooth before walking.



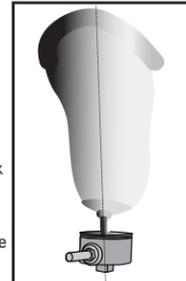
P4 Clicks should be one at a time, not all at once. If clicks are all at once add socks.



P5 The patient should get at least 2 clicks before standing, 3-4 when beginning to walk and eventually at least 5 maybe 6 depending on liner and sock usage.



P6 If you cant get pin to click at all or don't get almost all 6 clicks in, remove socks. It is okay to wear just the liner and no socks.

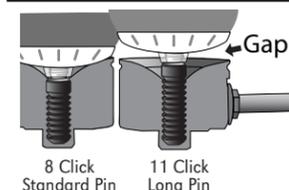


P7 Lock alignment. If your liner is donned correctly and your still having pin engagement issues check your lock alignment in the socket and make sure it is in proper orientation or line of progression to the limb.

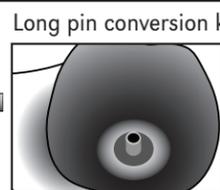


P8 If a long pin is required for patients ease of donning a **Deep AirLock** is available or a conversion kit is available to prevent the pin from bottoming out.

Instructions for the CD103GPK Guide Pin Kit - See instruction video called "Modifying Air-Lock for long pin" at www.coyote.us/airlock



G1 Do NOT use 11 click long pin on unconverted standard AirLock, the long pin will bottom out and create a gap between lock & Liner.



G2 Insert the CD103GPN Guide Pin into the lock to the first click.



G3 Using a 1/4" x 6" drill bit drill through the Guide Pin, lock and socket.



G4 Using 5/8" Hole saw and 5/8" countersink enlarge the drill hole to accept the Pin Cap.



G5 Advance the Guide Pin to the second Click.



G6 Place CD103PC Pin Cap on guide pin in hole. Use the guide pin to stop pin cap at correct depth in the hole.

G7 Cap should fit over guide pin nicely with minimal resistance and should be parallel with the base of the socket. ie: NOT crooked. If pin cap goes on tight the hole may need to be enlarged just a little bit.

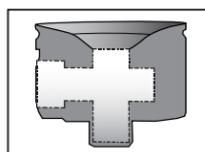


G8 Use Coyote Quik Glue or 5 minute epoxy and glue around edge of Pin Cap. Let glue set and remove guide pin.

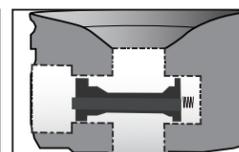
G9 When the lock has been converted you can use the CD103P11 or CD103P11H long pin with it. With long pin check for smooth pin engagement and release. If pin is hanging up a reamer tool and sandpaper may be useful for cleaning up debris in lock.

G10 Refer to back page for pin installation instructions.

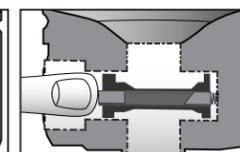
Installing Parts into Air-Lock See instruction video called "Servicing AirLock" at www.coyote.us/airlock



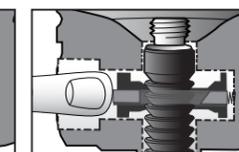
i1 AirLock Housing



i2 Put two springs into the two side by side circular holes of the Lock Plate and slide it into the housing.



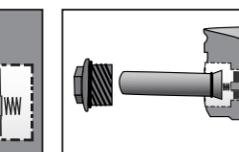
i3 Press the Lock Plate with a finger forcing the lock plate into its unlocked position.



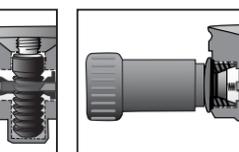
i4 Push the pin into the funnel hole. This will hold the two springs and lock plate in place.



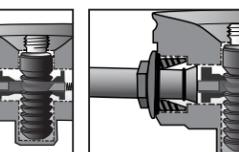
i5 Put the third spring into the singular circular hole on the lock plate.



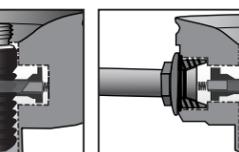
i6 Put your Push Button through the hole on the Valve Body and hand tighten it into the housing.



i7 Hand tighten the Valve Body with a Lock Wrench or 13 mm deep well socket. Tight but not too tight.

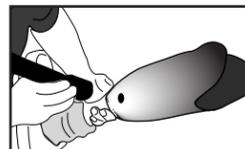


i8 Press the push button to compress the springs and this will release your pin.



i9 Installing the parts in the lock housing using this method will help ensure the springs don't get bent.

Inspect Prosthetic - Service and inspect lock at each appointment See instruction video called "Servicing AirLock" at www.coyote.us/airlock



S1 Inspect prosthetic internally and around button.



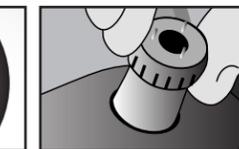
S2 Blow socket and lock out.



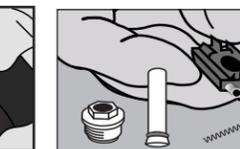
S3 Make sure pin engagement is correct with 5 to 6 clicks and it holds tight.



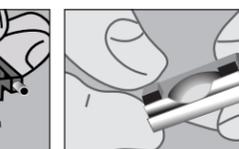
S4 Check that lock is not full of dirt, sand and other debris that might impair the lock plate or pin engagement.



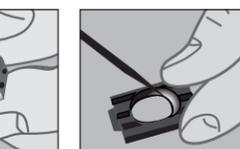
S5 Use lock wrench to remove valve body (recommended) or 13mm deep well socket.



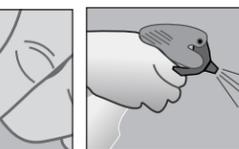
S6 Take lock apart and inspect internal parts for wear, bad O-rings and bent or rusted springs.



S7 White marring, worn down tooth and worn O-rings are good indicator the internal parts need replaced.



S8 Check lock plates tapered sloped edge and the teeth on the pin for excessive wear.



S9 Clean off parts with rag and rubbing alcohol or acetone.

K1, K2, K3, K4

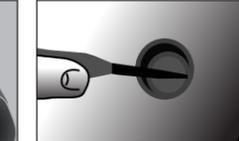
S10 Keep in mind the patient's activity level and what they do. This can have an affect on how soon parts may need to be replaced.



S11 People working where there is a lot of dirt and grime (agriculture, construction) should have their internal parts cleaned and replaced more often.



S12 Once internal parts are removed blow out the chamber with compressed air.



S13 If the inside of the lock is crusty take a pick and loosen it up and remove the dirt.



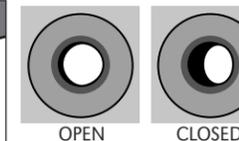
S14 Clean the lock and socket with rubbing alcohol or mild soap and water and wipe it out with a towel.



S15 Replace the internal parts if needed. (Lock Plate, Springs, Push Button, Valve Body)



S16 Hand-tighten the valve body very snug but not too tight with the lock wrench or 13mm deep well socket.



S17 Check visually to make sure the tooth on the lock plate is showing enough in the bottom of socket.



S18 Do an engagement test with the pin and liner into the lock to make sure everything is working to your satisfaction. 5 to 6 clicks and you cannot pull pin loose.

well. It is recommended you use a sleeve while diving.

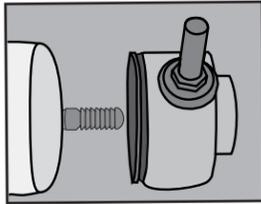
E4 Be aware of these environmental conditions
Extreme Water sports, Mechanical vibrations, G-force pressure or impacts, perspiration, urine, acids or bases.
Dust, sand, highly hygroscopic particles (e.g. talcum), saltwater, pool water should be properly rinsed or cleaned out of socket.



Need assistance?

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

Fitting Lock - CD103FL



Order a fitting lock from Coyote to help with pin spacer adjustment. The reinforce distal end of the fitting lock helps give a more accurate reading on how many pin spacers to use.

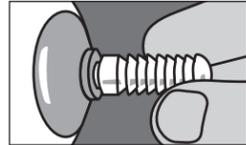
Solid Pin install and proper seating Instructions

See instruction video called "CD103P8H Installing Brass Pin" at www.coyote.us/airlock

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.



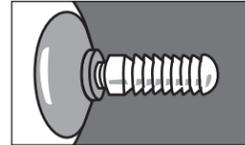
H1 Install pin on liner. Engage lock to check for play between lock and liner.



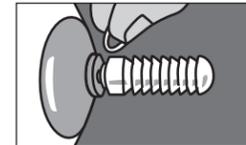
H2 If there is play, loosen pin away from adaptor screw and liner.



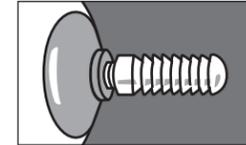
H3 Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



H4 If a Gap is created between the pin and liner.



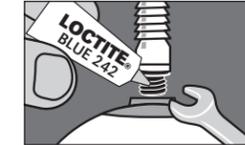
H5 Based on the size of the gap created by loosening pin, install appropriate number of pin spacers on threaded end (see Caution #5).



H6 Replace pin on adaptor, making sure base fits snugly on pin spacers.



H7 After installing pin spacers, re-engage lock to be sure there is no play.



H8 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 #5)

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

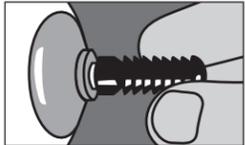
Standard Pin install and proper seating Instructions

See instruction video called "CD103P8 Pin Adjustment" at www.coyote.us/airlock

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.



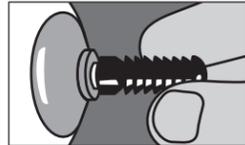
B1 Install pin on liner. Engage lock to check for play between lock and liner.



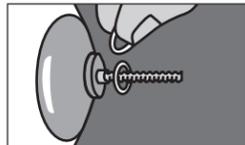
B2 If there is play, loosen pin away from adaptor screw and liner.



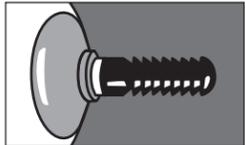
B3 Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



B4 Gap is created between pin and liner.



B5 Based on the gap created by loosening pin, install appropriate number of pin spacers on adaptor (see Caution #5).



B6 Replace pin on adaptor, making sure base fits snugly on pin spacers.



B7 After installing pin spacers, re-engage lock to be sure there is no play.



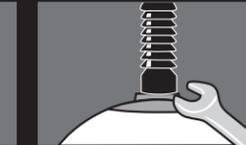
B8 Apply Loctite® Blue 242 to threads of lock pin on adaptor screw 10 mm threads. Screw into liner finger tight.



B9 After hand tightening, tighten the brass adaptor screw base against the liner a 1/4 turn more with a wrench or pliers.



B10 Place needed number of pin spacers on adaptor screw. Apply Loctite® Blue 242 to threads of lock pin adaptor screw. Screw the 8 click pin finger tight.



B11 Now tighten pin assembly with 7/16", 11 mm wrench or vice grips to insure complete thread engagement of brass into liner and pin into brass. (See Caution #4, #5, #12)

Available Pins for CD103 Air-Lock - (in 2 pack - sold separately from lock)



Air-Lock with CD103P8 or CD103P8H Pin

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

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

Detach here and keep everything below with patient records ✂

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

⚠ ATTENTION

- C1. Do not position lock with release button pointing posterior or anterior. Typically release button is oriented medially to help avoid being triggered..
- C2. Typical Coyote® components use the 6x18mm screws. In atypical setups, longer screws may be needed. Always use screws class 10.9 or better.
- C3. 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.
- C4. Always use screws provided with connector during lamination to ensure proper depth is created for attachment.
- C5. Never exceed 3 pin spacers.

- C6. 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.
- C7. Note number of clicks for engagement. There should be at least 3 clicks of engagement before ambulating and more clicks should occur after a few steps. 5 to 6 clicks (depending on liner) are required for full/proper seating and engagement.
- C8. Liner threads vary. Begin threading pin into liner by hand whenever possible. A wrench will be needed in cases of tight threads.
- C9. 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.

- C10. The CD103P11 is the longer pin for the Air-Lock. However, with most liners this longer pin will bottom out in the lock. If a long pin is needed, refer to the front page (i1 - i9) for information on extending the depth of the lock to allow for use with the longer pin, or look into our deep lock options.
- C11. 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.
- C12. If you have a pin you cannot install, even with a wrench, contact Coyote for a replacement.

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.
- 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.

Product knowledge

E5 If user is around dirty dusty environments then the prosthesis will need to be cleaned more often.

Service Life

PK1 Depending on the patients activity level this product life is 3 to 5 years. Check for signs of wear in the lock housing mainly ovaling of the funnel hole, cracks or chips. Check the Lock Plate, Push Button, Valve Body, o-rings, springs and pins for excessive wear or rust. All internal parts can be easily replaced. When you remove the parts check to make sure everything is cleaned of excess grime. Clean the socket, lock and internal parts with soap and water, rubbing alcohol or acetone inspecting each part for excessive wear. Frequency is based on the activity level and what the person does.

Safety

PK2 Warning signs or things to watch for. Excessive strain on the product could increase risk of failure of the product and its load-bearing components. The Air-Lock is not a structural component so the maximum body weight is determined by the prosthetics lamination or thermoformed socket and the

components used. The weight limit is 265 lbs. approved for use with Coyote® Connectors CD103AF or CD111.

PK3 Unallowable combination of prosthetic components

Only combine the Air-Lock with components that are approved for that purpose. Be sure that the prosthetic components that are being used in the device can be combined with each other.

PK4 Use under unallowable environmental conditions

Product damage may increase the risk of injury. Unallowable environmental conditions may damage the prosthetic. If unallowable conditions have occurred check for any damage. If damage has occurred or you feel it may have occurred quit using the product. Have the product cleaned, repaired, needed parts replaced and inspected by a qualified individual or facility.

PK5 Exceeding the service life

When service life is exceeded it increases the chances of loss of functionality and damage to the product thus increasing the risk of injury. Make sure the service life is not exceeded. This product should only be used on one patient.

PK6 Damage to the product and internal parts.

Be cautious if you notice a change in the products functionality. If damaged check the product to see what is wrong and that it is safe to use. Do not continue using the product if there are signs that it is not functioning correctly. Take the prosthetic to have it inspected by a qualified professional so they can repair it and replace any needed parts. Watch for any changes or loss of functionality of parts when the prosthetic is being used. A new noise that starts, changes in gait, changes in the button or pin engagement, missing teeth or excessive wear, check the tooth on the lock plate if hard to see or looks broken,

change in positioning of components. If a pin comes loose in the liner take it to a qualified person or facility and have it tightened and Loctite® reapplied.

PK7 Refer to Fabrication instructions

Lay-up instructions are helpful hints on how to work with the lock and connector. Actual lay-ups are the responsibility of the technician and/or practitioner.

Need more help?
Fabrication videos can also be viewed at www.coyote.us/video

Always, *LOCTITE*
and torque to manufacturer specifications.