



# Air-Lock Instructions

Air-Lock CD103 | Medium Air-Lock CD103M | Small Air-Lock CD103S

Deep Air-Lock CD103D | Deep Medium Air-Lock CD103MD

Deep Small Air-Lock CD103SD

## Fabrication Instructions



CD103  
CD103D

CD103M  
CD103MD

CD103S  
CD103SD

Patent No. 6334876

Made in U.S.A.

External Prosthetic Components



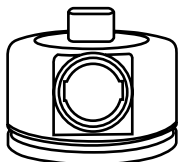
Advena Limited  
Tower Business Centre  
2nd Flr, Tower Street  
Swatar, BKR 4013  
Malta

**Weight limit: 350 lbs.**

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

CD103.revH.03082023

## Parts included with locks (pins sold separately)



**Air-Lock Housing**  
*(will vary depending on size and/or depth)*



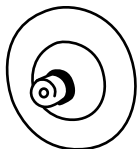
**Lock plate**



**Valve body**



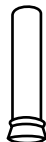
**Springs (3)**



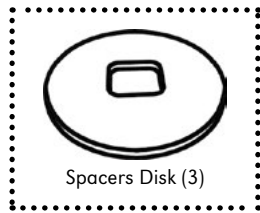
**Anchor**



**Fabrication plug**



**Release button**



*Provided with deep locks only*



Manufactured by Coyote®  
419 N. Curtis Rd., Boise, Idaho 83706 USA  
(208) 429-0026 | [www.coyote.us](http://www.coyote.us)



EN | Instructions for Use  
DE | Gebrauchsanweisung  
FR | Notice d'utilisation  
ES | Instrucciones para el uso  
IT | Istruzioni per l'uso  
NO | Bruksanvisning  
DA | Brugsanvisning  
SV | Bruksanvisning  
EL | Οδηγίες Χρήσης  
FI | Käyttöohjeet  
NL | Gebruiksaanwijzing  
PT | Instruções de Utilização

PL | Instrukcja użytkowania  
CS | Návod k použití  
TR | Kullanım Talimatları  
RU | Инструкция по использованию  
JA | 取扱説明書  
ZH | 中文说明书  
KO | 사용 설명서



[www.coyote.us/instructions-airlock](http://www.coyote.us/instructions-airlock)

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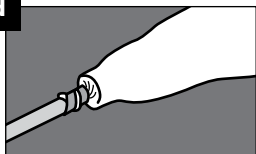
## Need more product info?

Visit us at [www.coyote.us](http://www.coyote.us) for more information, videos, tips, and instructions.



## Installing Lock on Mold

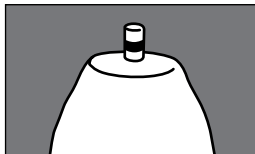
If using Casting Handle, begin with Step 1.  
If NOT using casting handle, begin with Step 4.



**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.



**3** Mold and anchor are ready for fabrication.

**4**

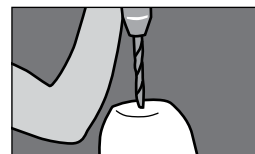
Remove internal components from lock with a Coyote Lock Wrench or 13mm deep well socket. Be careful not to lose springs during removal. Casting Handle users skip to step 11.



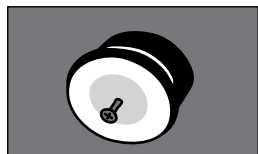
**5** Place lock on mold. Trace lock.



**6** Flatten mold to fit to lock. Do not flatten beyond tracing of lock.



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



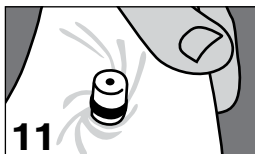
**8** Place anchor in lock.



**9** Fill hole with Coyote Quik Glue or fast-setting epoxy.



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



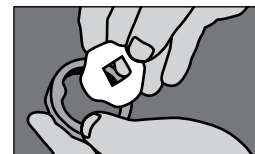
**11** Apply nylon over mold. Reflect and twist nylon around tie-off ring of the anchor.



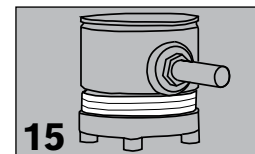
**12** Install Fabrication Plug in lock.



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

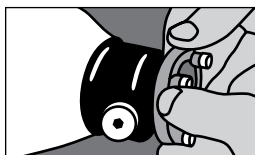


**14** Install insert of choice in Alignable Connector.



**15** If using the Deep Air-Lock add the three Spacer Disks to the lock before adding the connector.

## Drape Molding Check Socket



**16** Place the provided adhesive foam on the four connector posts. Place connector offset or centered.

**17**

Drape mold and blister molding instructional videos are available at [www.coyote.us/airlock](http://www.coyote.us/airlock)



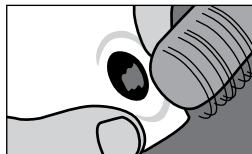
**18** For extra strength, fold excess seam on distal end of connector.

**19**

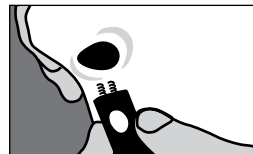
Expose and remove small adhesive foam and fabrication plug. Grind distal end of socket flat. Take care not to sand metal posts. Foam can be left in place to act as a guide for flattening.

**20**

Remove socket in traditional fashion or with socket extractor.



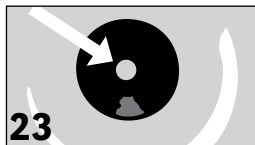
**21** Carefully smooth inside of hole to allow for easy assembly of lock.



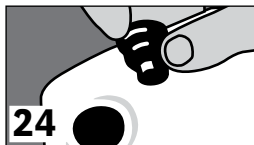
**22** Slide lock plate into lock, springs first. It slides easily ONLY one way. Verify orientation first. (See Caution #3)

**Always, *LOCTITE* and torque to manufacturer specifications.**

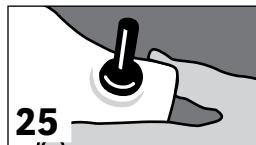
## Drape Molding Check Socket (Continued)



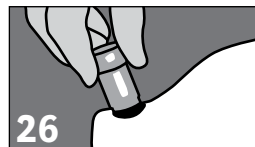
**23** Place lock pin in lock to hold lock plate.



**24** Add third spring. Slide release button into valve body.

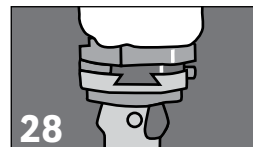


**25** Thread valve body into housing.



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

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



**28** Use Coyote alignment coupler CD106 for alignment during fitting.

**Need assistance?**

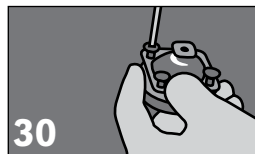
**Call us, we would love to help.**  
**(208) 429-0026**

## Transferring Alignment

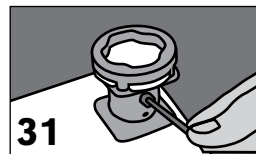
When transferring, it is recommended to use a new lock or lock housing in the definitive socket. The lock in the test socket can be removed when time permits and reused in another test socket. This will also allow you to duplicate the alignment established in the test socket in the definitive.



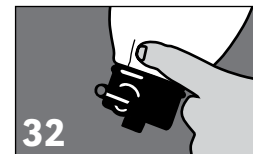
**29** Lube and install glue plate on Coyote Alignable Connector.



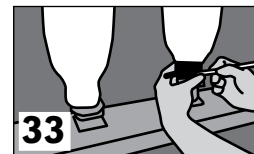
**30** Attach a pyramid to Coyote Alignable Connector.



**31** Install pyramid on adaptor.

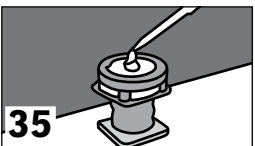


**32** Install lock on mold in desired location, mark release button location. (See Caution #1).

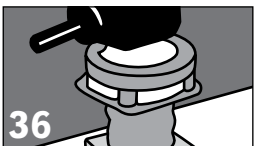


**33** Rest mold and lock on Alignable Connector. Place test socket next to mold and compare alignments.

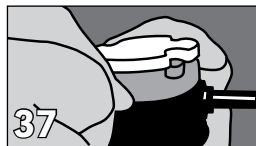
**34** Take measurements for more accurate comparisons. *If using the Deep Air-Lock add the three Spacer Disks to the lock before adding the connector.*



**35** Separate lock from connector. Fill connector with Coyote Quik Glue or fast-setting epoxy.



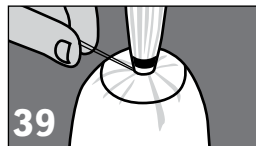
**36** Place mold and lock back into connector in desired location. Let set.



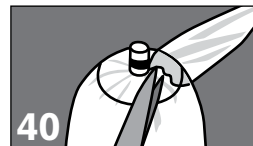
**37** Remove pyramid from tube clamp then remove pyramid and glue plate.



**38** Remove all lock parts before laminating. Put wax or clean clay in fabrication plug hole.



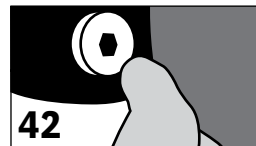
**39** Pull inner PVA bag over mold. Bag may be heated to help conform to distal end. Tie PVA to anchor in the tie-off ring.



**40** Trim excess PVA material between tie-off groove and O-ring. Keep O-rings clear.



**41** Run bead of Coyote Quik Glue or five-minute epoxy around groove of lock.



**42** Place lock on anchor in desired location (see Caution #1). Clean excess glue.

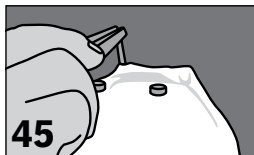
## Lay-up



**43** Pull nylon stockinette or other materials over connector, lock, and mold.



**44** Twist and reflect material to leave a small open circle in center of connector.



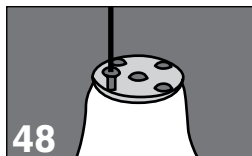
**45** Ensure the four post holes of the connector are exposed. A hot nail or awl can be used.



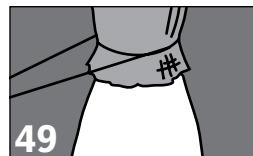
**46** Pull first composite layer over mold. Cut top edges to fold around posts.



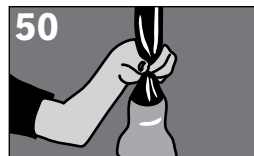
**47** Reinforce with carbon tape between posts. Avoid extra material around fabrication plug for easier removal.



**48** Lubricate screws and install five hole plate. (See Caution #C4)



**49** Tie second layer of composite under five hole plate and reflect down over mold.



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



**51** Toward end of lamination, tape can be placed over five hole plate to squeeze excess resin out of lamination.



**52** String can also be tied between fabrication plug and top of lock to ensure seal. (see Caution #C6)

## Finish



**53** Expose edge and remove excess lamination.



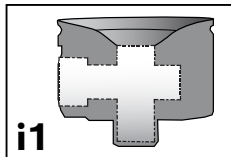
**54** Remove five hole plate.



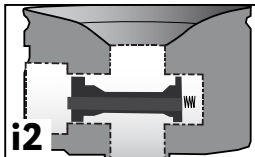
**55** Expose fabrication plug and remove.

**56** Smooth rough edges of distal end. Hole for valve body can be smoothed for easier install.

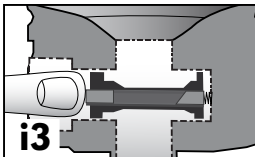
**57** See steps 22-26 for lock assembly instructions. Use 6x18mm screws provided (see Caution #2 and #4) and Loctite® Blue 242 when attaching pyramid. Torque provided connector screws to 10 Nm.



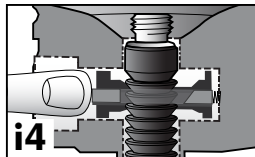
**i1**  
Air-Lock Housing



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



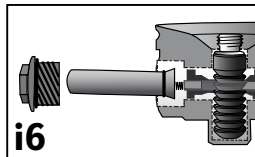
**i3**  
Press the Lock Plate with a finger forcing the lock plate into its unlocked position.



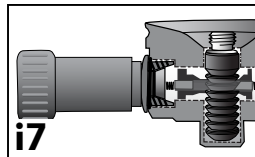
**i4**  
Push the pin into the funnel hole. This will hold the two springs and lock plate in place.



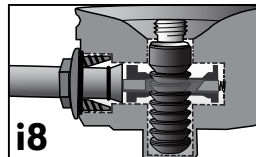
**i5**  
Put the third spring into the singular circular hole on the lock plate.



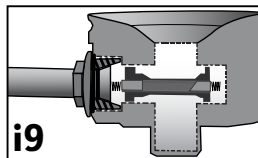
**i6**  
Put your Push Button through the hole on the Valve Body and hand tighten it into the housing.



**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.

#### Air-Lock with CD103P8 or CD103P8H Pin

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

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

### 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.

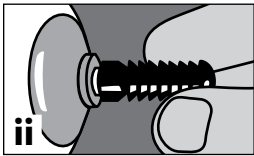
\* It is the practitioner's responsibility to demonstrate, document, and select appropriate codes for insurance billing.

## Two Part Pin install and proper seating 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.



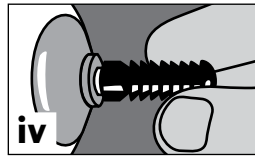
**i** Install pin on liner. Engage lock to check for play between lock and liner.



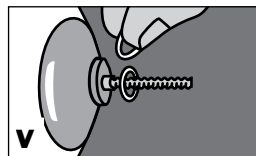
**ii** If there is play, loosen pin away from adaptor screw and liner.



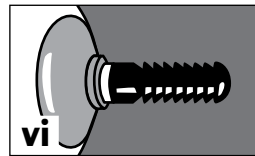
**iii** Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



**iv** If there is a gap between pin and liner.



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



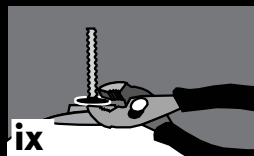
**vi** Replace pin on adaptor, making sure base fits snugly on pin spacers.



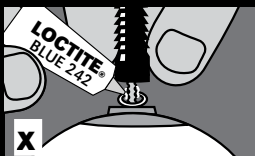
**vii** After installing pin spacers, re-engage lock to be sure there is no play.



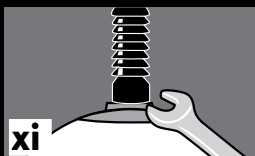
**viii** Apply Loctite® Blue 242 to threads of lock pin on adaptor screw 10 mm threads. Screw into liner finger tight.



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

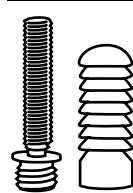


**x** Place needed number of pin spacers on adaptor screw. Apply Loctite® Blue 242 to threads of lock pin adaptor screw. Screw the 8 click pin finger tight.

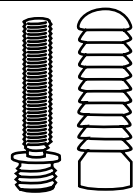


**xi** Now tighten pin assembly with 7/16", 11 mm wrench or vice grips to insure complete thread engagement of brass into liner and pin into brass. (See Caution #4, #5, #12)

## Additional Pins - (in 2 pack - sold separately from lock)



**CD103P8**  
**8-Click Pin**  
1.3" long,  
includes 3 pin  
spacers.  
10mm thread



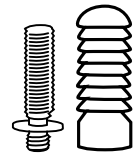
**CD103P11**  
**11-Click**  
Long Pin  
1.65" long,  
includes 3 pin  
spacers.  
10mm thread



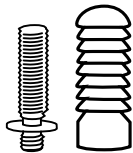
**CD103P8H**  
**8-Click Brass Pin**  
1.3" long, includes  
3 pin spacers.  
10mm thread



**CD103P11H**  
**11-Click Brass**  
Long Pin  
1.65" long, includes  
3 pin spacers.  
10mm thread



**CD103PQ**  
**8-Click Pin**  
1.3" long, includes  
3 pin spacers.  
¼ x20 thread



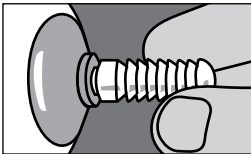
**CD103PX**  
**8-Click Pin**  
1.3" long, includes  
3 pin spacers.  
6mm thread

## Solid Pin install and proper seating Instructions

Poor lock pin spacing leads to premature wear. There should be no play between the lock and liner when fully engaged.



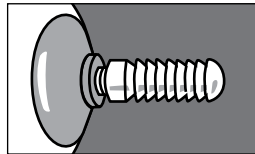
**H1** Install pin on liner. Engage lock to check for play between lock and liner.



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



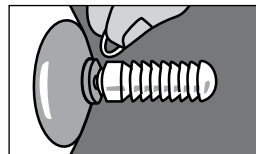
**H3** Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



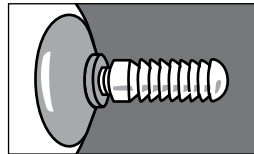
**H4** If a Gap is created between the pin and liner.

See instruction video called "CD103P8H Installing Brass Pin" at [www.coyote.us/airlock](http://www.coyote.us/airlock)

You may need to add spacers to the pin to ensure this. Check for proper amount of play before putting lock into socket.



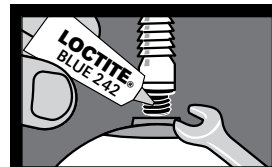
**H5** Based on the size of the gap created by loosening pin, install appropriate number of pin spacers on threaded end (see Caution #5).



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

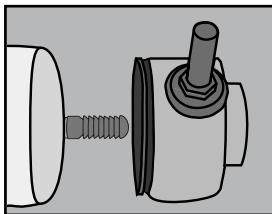


**H7** After installing pin spacers, re-engage lock to be sure there is no play.



**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)

## 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.

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



# Practitioner Instructions

## CD103 Air-Lock

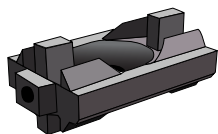


[www.coyote.us/airlock](http://www.coyote.us/airlock)

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

*Please save in patient chart.*

**We suggest inspecting and or replacing the lock plate every 12 to 18 months.**

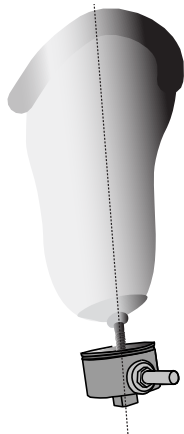


For more lock plate inspection information please refer to the Pin Engagement Instructions, Inspecting Prosthetic, Environmental Conditions, Product knowledge, Service Life, and Safety (Pages. 16,17,18, 21, 22) also Amputee Instructions on the back of this booklet for wear and maintenance information of the pin and lock plate.

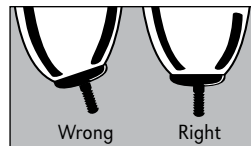
### Preparing of Use

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.



### Pin Engagement



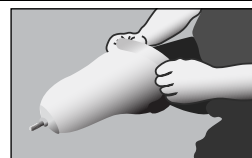
**P1** Make sure the pin is properly aligned when the liner is donned.



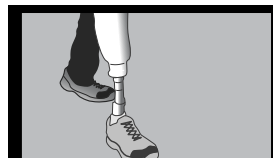
**P2** Performing a CPR motion on the knee can help the pin engage with the lock plate. Get at least two clicks before standing.



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



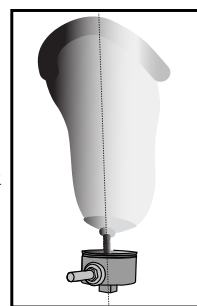
**P4** Clicks should be one at a time, not all at once. If clicks are all at once add socks.



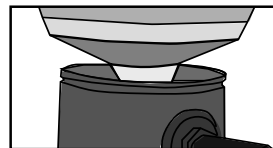
**P5** The patient should get at least 2 clicks before standing, 3-4 when beginning to walk and eventually at least 5 maybe 6 depending on liner and sock usage.



**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.

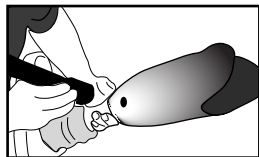


**P7** Lock alignment. If your liner is donned correctly and your still having pin engagement issues check your lock alignment in the socket and make sure it is in proper orientation or line of progression to the limb.

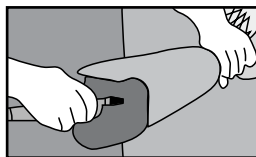


**P8** If a long pin is required for patients ease of donning a **Deep Air-Lock** is available or a conversion kit is available to prevent the pin from bottoming out.

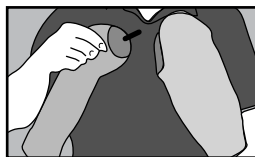
## Inspect Prosthetic - Service and inspect lock at each appointment



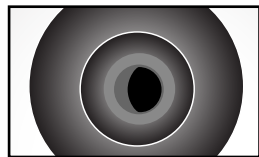
**S1** Inspect prosthetic internally and around button.



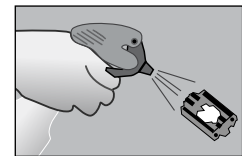
**S2** Blow socket and lock out.



**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.



**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 effect on how soon parts may need to be replaced.

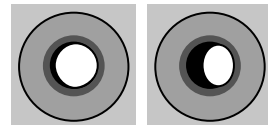


**S11**

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.



OPEN

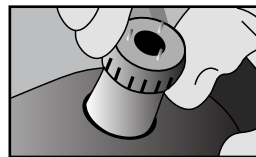
CLOSED

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

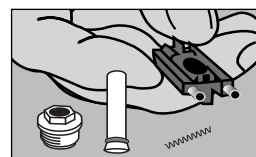


**S18** Do an engagement test with the pin and liner into the lock to make sure everything is working to your satisfaction. 5 to 6 clicks and you cannot pull pin loose.

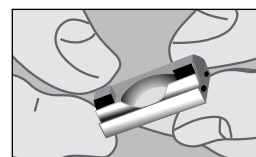
See instruction video called "Servicing Air-Lock" at [www.coyote.us/airlock](http://www.coyote.us/airlock)



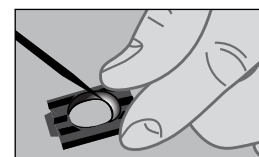
**S5** Use lock wrench to remove valve body (recommended) or 13mm deep well socket.



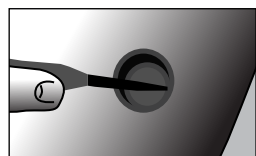
**S6** Take lock apart and inspect internal parts for wear, bad O-rings and bent or rusted springs.



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



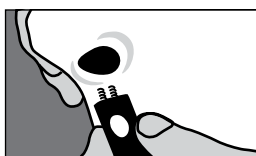
**S8** Check lock plates tapered sloped edge and the teeth on the pin for excessive wear.



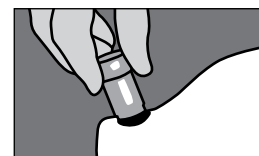
**S13** If the inside of the lock is crusty take a pick and loosen it up and remove the dirt.



**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.

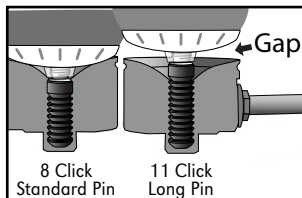
**Need more help?**

Fabrication videos can also be viewed at [www.coyote.us/video](http://www.coyote.us/video)

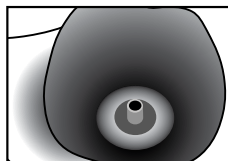
## Instructions for the CD103GPK Guide Pin Kit - See instruction video called "Modifying Air-Lock

for long pin" at [www.coyote.us/airlock](http://www.coyote.us/airlock)

Long pin conversion kits are available you just need enough clearance at your pyramid. If you are not hearing 5 to 6 clicks during engagement you may need to convert to a long pin.



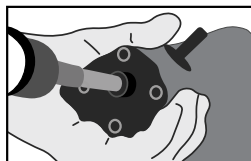
**G1** Do NOT use 11 click long pin on unconverted standard Air-Lock, the long pin will bottom out and create a gap between lock & Liner.



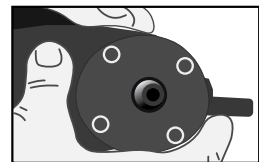
**G2** Insert the CD103GPN Guide Pin into the lock to the first click.



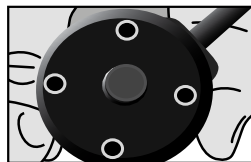
**G3** Using a 1/4" x 6" drill bit drill through the Guide Pin, lock and socket.



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

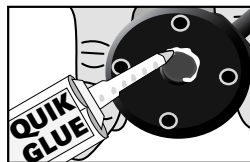


**G5** Advance the Guide Pin to the second Click.



**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. i.e.: 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.

## Billing Information Recommended Codes

L5671 Addition to lower extremity, Below Knee/Above Knee suspension locking mechanism (shuttle, lanyard or equal), excludes socket insert.

L5647\* Addition to lower extremity, Below Knee, suction socket.

L5652\* Addition to lower extremity, suction suspension, Above Knee or Knee Disarticulation Socket.

L6698 Upper extremity addition, Below Elbow / Above Elbow Lock Mechanism, excludes socket insert.

L6686\* Upper extremity addition, suction socket.

\*Not recommended for billing Medicare. Coyote® believes that "suction" in a prosthetic refers to the negative pressure created inside the socket, rather than componentry such as an expulsion valve or sleeve. Because we think of suction as a function, we believe it should be permitted to bill L5671 in conjunction with the L5647 or L5652 in cases when it is medically necessary. As with other situations where multiple suspension methods are used and billed, we feel the combination of a lock and suction helps to increase safety for the patient.

For more information on billing the Air-Lock and on our socket pressure study between airtight and traditional pins contact Coyote.

The listing of codes with our products should not be construed as a guarantee for coverage or payment.

The ultimate responsibility for the coding of services/products rests with the individual practitioner.

## Environmental Conditions

### 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.

**E2 Lock button should be recessed and can be cut as short as 3/8ths inch leave longer if using a cover or 103RBC Release button Cover. The push button is typically placed on medial side with exception to patient specific activities to help avoid being bumped.**

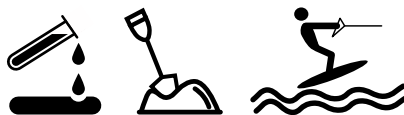
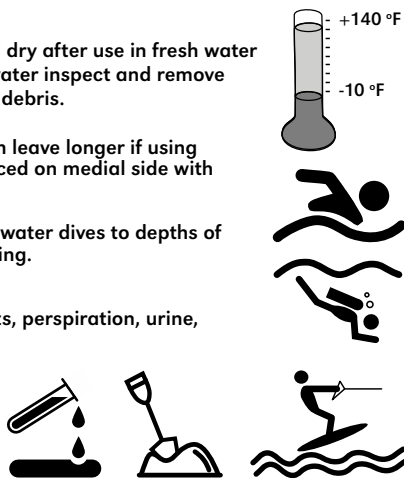
**E3 Allowable immersion depth:** The lock has been used in extensive saltwater dives to depths of 60 ft. and held up very well. It is recommended you use a sleeve while diving.

#### 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.

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



## Product knowledge

### Service Life

**PK1** Depending on the patient's 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 350 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.

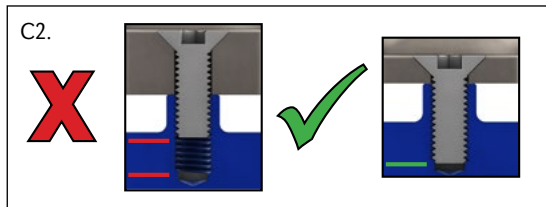
#### PK7 Refer to Fabrication instructions.

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.



## 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. Make sure screw length fully seats into connector base not just post, longer screws may be needed depending on pyramid thickness.



- 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 For 8 click pins** 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.
- For 11 click pins** note number of clicks for engagement. There should be at least 3 to 4 clicks engagement prior to any ambulation and more clicks

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

should occur after a few steps. 8 to 9 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 option for the Air-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.
- 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 [www.coyote.us/video](http://www.coyote.us/video)

- C12** If you have a pin you cannot install, even with a wrench, contact Coyote for a replacement.

### Need assistance?

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

Always, **LOCTITE**  
and torque to manufacturer  
specifications.

## Part Replacement

### CD103PK - Air-Lock Parts Kit (pins sold separately)

Includes all Air-Lock internal components.



Lock plate



Springs (3)



Valve body



Release button

### CD103LP - Air-Lock Lock Plate

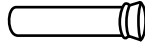


Lock plate



Springs (3)

### CD103RB - Air-Lock Release Button



Release button

### CD103VB - Air-Lock Valve Body



Valve body

### CD103SG - Air-Lock Springs



Springs (3)



CD103HG - Standard Air-Lock Housing

CD103HGD - Standard Deep Air-Lock Housing

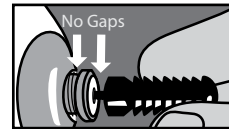
CD103MHG - Medium Air-Lock Housing

CD103SHG - Small Air-Lock Housing

# Amputee Instructions Air-Locks

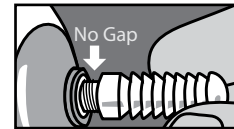


Putting on Liner

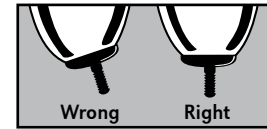


Standard two part pin

Check pin and liner to make sure pin is not gapping, loose, or damaged. See practitioner to fix with Loctite®.



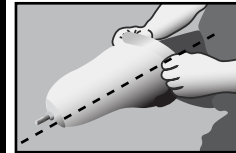
Brass pin



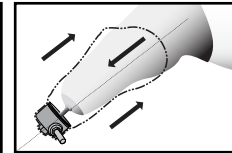
Wrong Right

Try to center the pin on the bottom of your limb so that the pin is straight and an extension of your limb with no tilt in any direction.

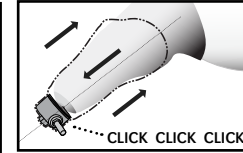
Engaging Lock Tooth and Pin



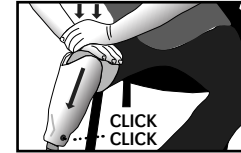
Make sure pin alignment is correct and the liner fits securely.



Make sure the pin slides straight into center hole in socket lock. Clicks should be one at a time.

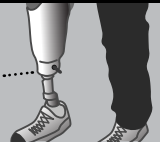


Socket is too loose if clicks are all at once. Socket is too tight if you **CANNOT** get pin to click or do **NOT** get almost all 6 clicks overtime.



Performing a "CPR" motion on the knee can help the pin engage with the lock plate.

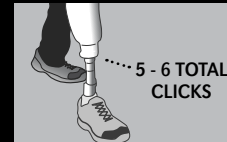
CLICK  
CLICK  
CLICK



Get at least 2 clicks before standing. 3 - 4 clicks before walking.

Additional clicks required for use with long pin (11 tooth pin).

5 - 6 TOTAL  
CLICKS



Eventually get 5 maybe 6 clicks depending on liner and sock usage. 8 to 9 clicks with the long pin (depending on liner)

Detach here and give to patient



**This information should be given to amputee at delivery**



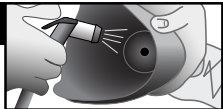
Once completely engaged there should be no play/pistoning.

If there is, see your practitioner to evaluate your fit or adjusting pin spacers.



#### Socks

Push the pin through the hole in your sock.  
If pin is covered by sock, it can jam your lock.

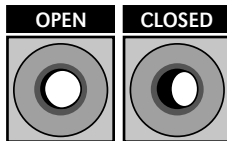


#### Water and Cleaning

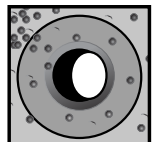
Rinse out and dry socket if you have been in water especially a pool or salt-water. You can also clean the socket with mild soap and water.

Do **NOT** lubricate your lock.

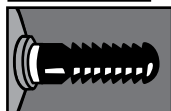
#### Checking Teeth



Check visually to make sure the tooth on the lock plate is showing enough in the bottom of socket with a sharp edge.  
The tooth should be crescent moon shaped with a smooth sharp edge.  
If the tooth looks broken, have it replaced.



If you are having trouble engaging the pin and the lock funnel is scratched and pock marked from the pin this could be a sign of poor pin alignment which can be caused by not aligning the liner and pin correctly or the lock is not aligned correctly in the socket.



Make sure teeth on pin are NOT worn smooth.  
The pin should have well defined teeth, NOT rounded.

#### Maintenance

- The entire prosthesis should be inspected regularly for any unusual changes in wear and noise. Anything of concern should be reported to your clinician.
- Annual inspections should be conducted by your clinician.

Patient Air-Lock  
Maintenance Video



<https://www.youtube.com/@CoyoteDesignMfg>

Detach here and give to patient

