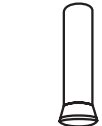


## Parts Included



Housing with attached Connector  
(\*Do not remove Four Hole Connector from lock)



Release button



Lock plate



Valve body



Socket Head Cap Screw (2)  
(Already installed)



6mm x 18mm Screws (4)



Springs (3)

CD122SR Sealing Ring  
(Replacement two pack)



Do not use lock as fabrication dummy. Repeated insertion will degrade the blue sealing ring.

**Coyote**

# CD122A3D

## 3D Air-Lock Drop-In

### Fabrication Instructions for 3D printed Sockets



Weight limit: 350 lbs.

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

Patent No. 6334876 External Prosthetic Components

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](http://www.coyote.us/instructions)

**Coyote**

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



CD122A3D.revA.02202024



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

## Basic 3D Printing Instructions

- 1 Prepare final digital medium for lock attachment with your standard modifications.
- 2 Place anchor dummy on distal end of socket in accordance with standard procedure for mounting anchor. This will help insure proper lock alignment and depth.
- 3 Create cavity for drop-in 49 mm inner height and 61.5 mm diameter. We recommend at least 5 mm socket thickness depending on your printer and materials used. (*.stl file is available from Coyote, call 208-429-0026*)
- 4 Print your socket as required. Printing instructions are helpful hints on how to work with the lock and connector. Actual printing thickness and materials are responsibility of the technician and/or practitioner.

## Install Lock into Socket

- 1 Wipe down O-ring on socket with alcohol before inserting.
- 2 Press lock into place and attach pyramid with supplied 6mm x 18mm screws.
- 3 Attaching pyramid to connector will draw lock into place.
- 4 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)
- 5 Carefully smooth inside of hole to allow for easy assembly of lock.
- 6 Slide lock plate into lock, springs first. It slides easily ONLY one way. Verify orientation first. (See Caution #3)
- 7 Place lock pin in lock to hold lock plate.
- 8 Add third spring. Slide release button into valve body.
- 9 Thread valve body into housing.
- 10 Hand-tighten valve body with Coyote Lock Wrench CD103WH or 13mm deep well socket.
- 1 Use Coyote Alignment Coupler CD106 for alignment during fitting.

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

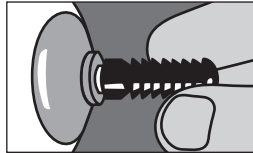
- 1 Air-Lock Housing
- 2 Put two springs into the two side by side circular holes of the Lock Plate and slide it into the housing.
- 3 Press the Lock Plate with a finger forcing the lock plate into its unlocked position.
- 4 Push the pin into the funnel hole. This will hold the two springs and lock plate in place.
- 5 Put the third spring into the singular circular hole on the lock plate.
- 6 Put your Push Button through the hole on the Valve Body and hand tighten it into the housing.
- 7 Hand tighten the Valve Body with a Lock Wrench or 13 mm deep well socket. Tight but not too tight.
- 8 Press the push button to compress the springs and this will release your pin.
- 9 Installing the parts in the lock housing using this method will help ensure the springs don't get bent.

## Practitioner Instructions

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



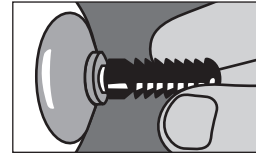
**1** Install pin on liner. Engage lock to check for play between lock and liner.



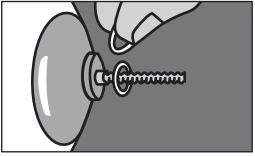
**2** If there is play, loosen pin away from adaptor screw and liner.



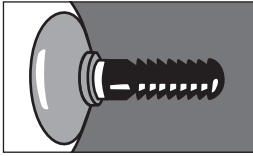
**3** Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



**4** Gap is created between pin and liner.



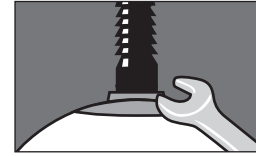
**5** Based on the gap created by loosening pin, install appropriate number of pin spacers on adaptor (see Caution #2).



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



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



**8** Apply Loctite® Blue 242 to threads of lock pin. Pin may need to be tightened with a 7/16" or 11 mm wrench. (See Caution #4, #5, #12)

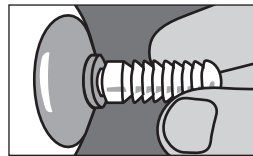
## Solid Pin install and proper seating Instructions

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



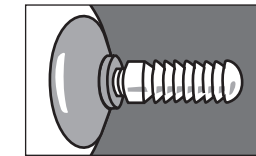
**1** Install pin on liner. Engage lock to check for play between lock and liner.



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

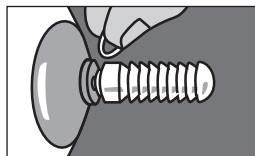


**3** Reengage lock to check for play. Repeat until lock seats completely. Remove lock.

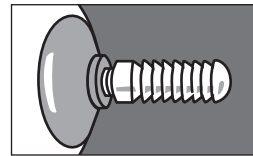


**4** If a Gap is created between the pin and liner.

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



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



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



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



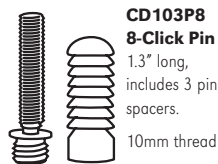
**8** Apply Loctite® Blue 242 to threads of lock pin. Pin may need to be tightened with a 7/16" or 11 mm wrench. (See Caution #5)

## Air-Lock with P8 Pin

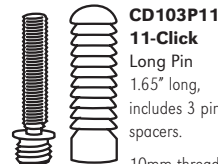
Liner	Size	Spacers used	No. of clicks
Alpha Original	M	1	5
Alpha Select	M	0	5
Ossur	26.5	1	6
Alps	26	1	5

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

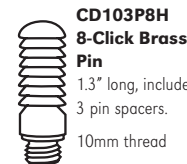
## Additional Pins - (in 2 pack - sold separately from lock)



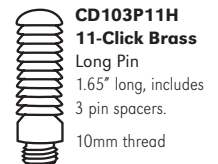
**CD103P8  
8-Click Pin**  
1.3" long,  
includes 3 pin  
spacers.  
10mm thread



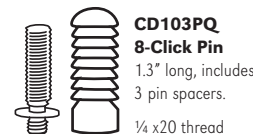
**CD103P11  
11-Click  
Long Pin**  
1.65" long,  
includes 3 pin  
spacers.  
10mm thread



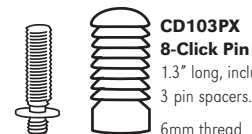
**CD103P8H  
8-Click Brass  
Pin**  
1.3" long, includes  
3 pin spacers.  
10mm thread



**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.  
1/4 x 20 thread

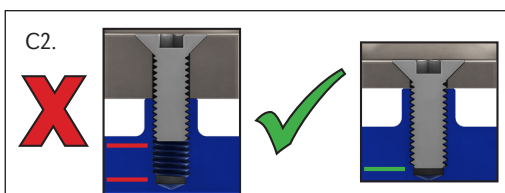


**CD103PX  
8-Click Pin**  
1.3" long, includes  
3 pin spacers.  
6mm thread

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

## ⚠ ATTENTION

- Do not position lock with release button pointing posterior or anterior. Typically release button is oriented medially.
- 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. Torque provided connector screws to 10 Nm.



- 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.
- Always use screws provided during lamination to ensure proper depth is created for attachment.
- Never exceed 3 pin spacers.
- Lay-up and printing instructions are helpful hints on how to work with the lock and connector. Actual lay-ups and printing is the responsibility of the technician and/or practitioner.
- 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.
- Liner threads vary. Begin threading pin into liner by hand whenever possible. A wrench will be needed in cases of tight threads.
- Regardless of threading, always use Loctite® Blue 242 on lock pin threads. Follow liner manufacture instructions as they can vary.
- Do not use the CD103P11 long pin with the Drop-In Easy-Off Lock or the Drop-In Air-Lock. With most liners this longer pin will bottom out in the lock.
- 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](http://www.coyote.us).
- 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.