



# CD103FL

## Fitting Air-Lock

for pin spacer adjustment and lock seating evaluation



Pin adjustment only, not for use in prosthetic

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

Patent No. 6334876  
External Prosthetic Components



EC REP

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CD103FL.rev.b.01312024



Manufactured by

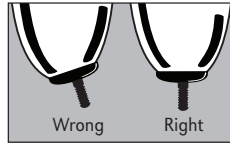


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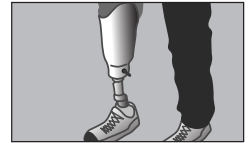
### Pin Engagement



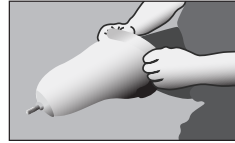
**P1** Make sure the pin is properly aligned when the liner is donned.



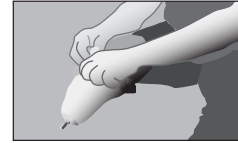
**P2** Performing a CPR motion on the knee can help the pin engage with the lock plate.



**P3** When patient is donning socket make sure they get at least two 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.

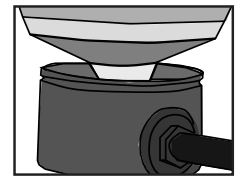
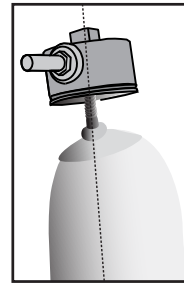


**P5** If you can't get pin to click at all or don't get almost all 6 clicks in, remove socks. It is okay to wear just the liner



**P6** 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.

**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.

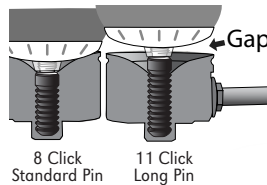


**P8** On a standard lock a long pin will bottom out creating a gap. Conversion kit is available.

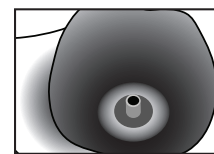
### Not hearing 5 to 6 clicks during engagement?

See instruction video called "Modifying Air-Lock for long pin" at [www.coyote.us/airlock.html](http://www.coyote.us/airlock.html)

Long pin conversion kit is available, enough clearance is needed at pyramid.



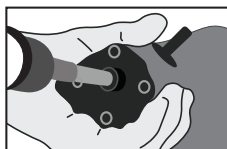
Do NOT use 11 click long pin on unconverted standard Air-Lock, the long pin will bottom out and create a gap between lock & Liner.



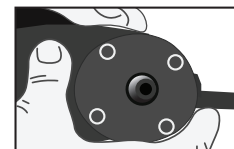
**G1** Insert the CD103GPN Guide Pin into the lock to the first click.



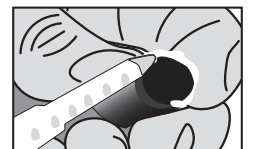
**G2** Using a 1/4" x 6" drill bit drill through the Guide Pin, lock and socket.



**G3** Using 5/8" Hole saw and 5/8" countersink enlarge the drill hole to accept the Pin Cap.

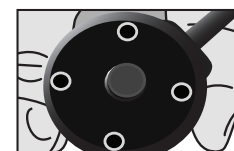


**G4** Advance the Guide Pin to the second Click.



**G5** Apply Quik Glue to rim of the Pin Cap and insert into the hole at the distal end of the socket. Use the guide pin to stop pin cap at correct depth in hole.

**G6** Cap should fit over guide pin nicely with minimal resistance and should be parallel with the base of the socket. ie: NOT crooked.



**G7** Let glue set and remove guide pin.

If pin cap goes on tight the hole may need to be enlarged just a little bit.

**G8** When the lock has been converted you can use the CD103P11 or CD103P11H long pin with it.

**G9** Refer to back page for pin installation instructions.

# PRACTITIONER INSTRUCTIONS

## Fitting Air-Lock

### Installing the CD103P8 Pin

Poor seating leads to premature lock wear. The pin spacers are used to adjust the pin to seat with any liner. There should be no play between the lock and the liner when fully engaged. It is best to check this with a lock that has not been put into a socket. The distal end of the Air-Lock can be very flexible, leading to a “false” reading of the number of spacers needed. The fitting lock is reinforced to make pin evaluation fast and easy.

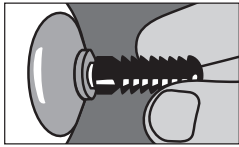
#### Standard Pin install and proper seating Instructions

See instruction video called “CD103P8 Pin Adjustment” at [www.coyote.us/airlock.html](http://www.coyote.us/airlock.html)

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.



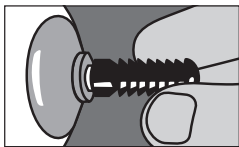
**B1** Install pin on liner. Engage lock to check for play between lock and liner.



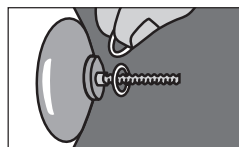
**B2** If there is play, loosen pin away from adaptor screw and liner.



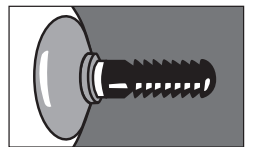
**B3** Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



**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 #2).



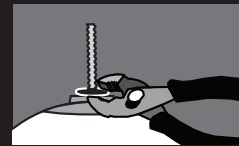
**B6** Replace pin on adaptor, making sure base fits snugly on pin spacers.



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



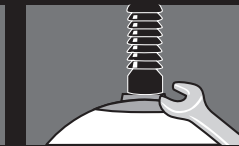
**B8** Apply Loctite® Blue 242 to threads of lock pin on adaptor screw 10 mm threads. Screw into liner finger tight.



**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)

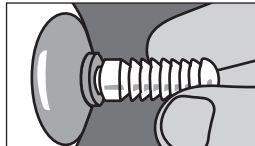
#### Solid Pin install and proper seating Instructions

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

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.



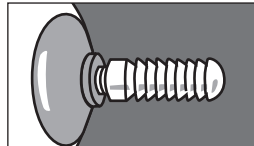
**H1** Install pin on liner. Engage lock to check for play between lock and liner.



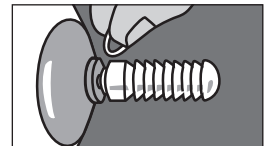
**H2** If there is play, loosen pin away from adaptor screw and liner.



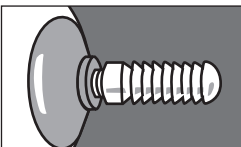
**H3** Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



**H4** Gap is created between pin and liner.



**H5** Based on the gap created by loosening pin, install appropriate number of pin spacers on threaded end (see Caution #2).



**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 #4 and #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 and #4)

Fitting Lock for Pin adjustment only. Not for use in prosthetic.