Grommet Lock Instructions

CD104 | CD103PAF | CD103PFF | CD104P6 | CD104P6H | CD104PQ | CD104PQH | CD104P10

Fabrication Instructions

Patent No. 6334876

External Prosthetic Components

CE EC REP

MD

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

Weight limit: 99 lbs.

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

Grommet.revA.01292024

Grommet® Lock
CD104

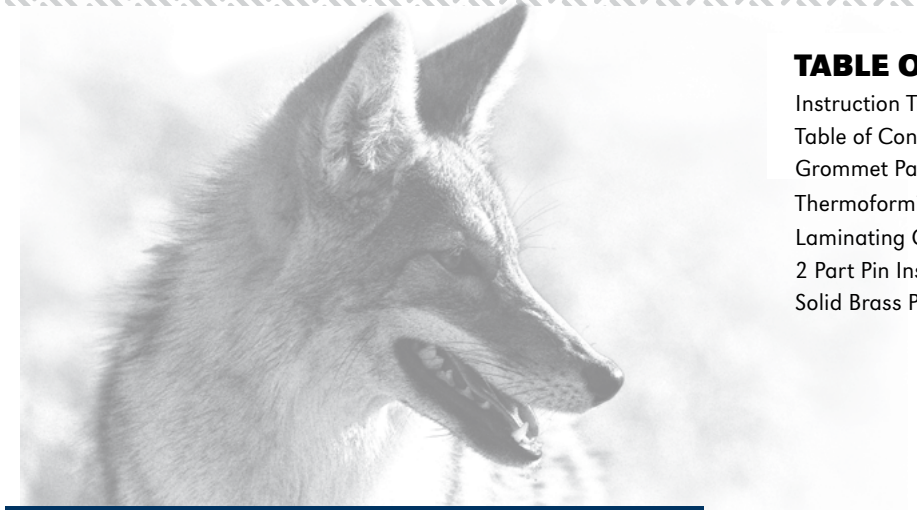
Pediatric Alignable
Four Connector
CD103PAF

Pediatric Fast
Four Connector
CD103PFF

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-grommet

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



Need more product info?

Visit us at www.coyote.us for more information, videos, tips, and instructions.

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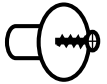
Parts included with Connectors and Accessories

CD103AF Alignable Four Connector Parts


Grommet Housing


Anchor


Silicone Plug


Foam Square


Foam Rectangles (2)


Lock Plate


Lamination Tool

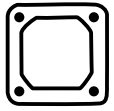

Removal Screw

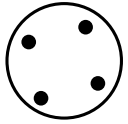

Face Plate Screws


Face Plate


Spring

CD103PAF Pediatric Alignable Four Connector Plate Parts


Pediatric Alignable Four Connector


Pediatric Glue Plate


8 Hole Plate

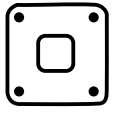

Small Foam Circles (4)

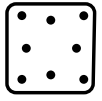

Silicone Caps (4)


5 x 20 mm Screws (4)


5 x 18 mm Screws (4)

CD103PFF Pediatric Fast Four Connector Plate Parts


Pediatric Fast Four Connector


8 Hole Plate

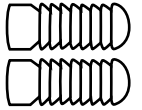

Small Foam Circles (4)

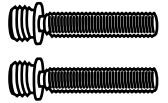

Silicone Caps (4)

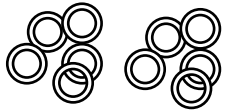

5 x 20 mm Screws (4)


5 x 18 mm Screws (4)

Standard two part pins

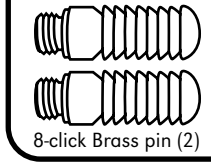

8-click pin (2)

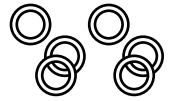

Pin adapter screw (2)


Pin spacers (10)

Grommet two part pins contain 10 pin spacers CD104P6, CD104P10, CD104PQ
Up to 5 pin spacers can be used on the Grommet two part pin at a time.

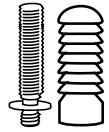
Solid Brass Pins


8-click Brass pin (2)

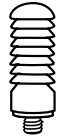

Pin spacers (6)

Grommet Solid Brass Pins contain 6 pin spacers CD104P6H, CD104PQH
A maximum of 3 pin spacers can be used on the Grommet Solid Brass pin at a time.

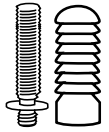
Pins for Grommet Lock - (Come in two packs)



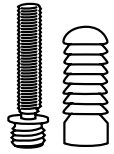
CD104P6
8-Click Pin
Two Part | 1.08" long, includes 5 pin spacers.
6mm thread



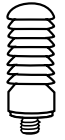
CD104P6H
8-Click Pin
Solid Brass | 1.07" long, includes 3 pin spacers.
6mm thread



CD104PQ
8-Click Pin
Two Part | 1.08" long, includes 5 pin spacers.
¼ x20 thread



CD104P10
8-Click Pin
Two Part | 1.8" long, includes 5 pin spacers.
10mm thread



CD104P6QH
8-Click Pin
Solid Brass | 1.07" long, includes 3 pin spacers.
¼ x20 thread

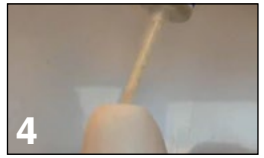
Thermoforming Grommet® Lock with Pediatric Fast Four Connector

The Grommet® Lock works in conjunction with a four hole connector of your choice. Connectors are sold separately. Other lock pin thread options available.
Go to www.coyote.us
Quik Glue is not required for the fabrication of the Grommet®, but works very well in this application. Work quickly when using. Quik Glue is sold separately. CD4150*, 4250* or CD4350 50cc cartridge
*Quik Glue requires dispensing gun and mix tips.

Remove Lock components from housing. Place housing on mold and trace its location.

Flatten mold where outlined to desired depth.

Drill a hole in the center of the flattened area to seat the anchor.



Fill hole with Coyote® Quick Adhesive or epoxy and smear a small amount on flattened area.

Place anchor screw into hole securing anchor to mold. Fill in any gap with plaster and smooth transition.

Install lamination tool using face plate screws.

Fit pediatric connector to Grommet®. Place foam rectangle on lamination tool, foam circles on connector posts, and foam square on bottom of lock.

Place Grommet® on anchor to mark location of release button. Remove Grommet®. Pull nylon over anchor and mold.

Glue lock to anchor with small amount of glue. Place on anchor.
Make sure to align lamination tool with release button location.

Vacuum form as usual. Press plastic into bottom of connector to reinforce it.

Carefully sand socket to expose foam placed on lamination tool, connector posts, and bottom of lock. Remove foam.

Install removal screw into lamination tool. Remove Lamination tool.

Reinstall lock components.

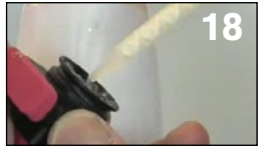
14 If transitioning between a test socket and a definitive lamination remove lock components from test socket. Install silicone plug in lock housing funnel. Place test socket in alignment fixture and fill as usual. Remove mold. Begin lamination process.

Laminating Grommet® Lock with Pediatric Aligned Four Connector

15 As shown in Thermoforming fabrication drill hole large enough for anchor screw.
Flatten mold to receive anchor. Seal cast in preferred manner. Install Lamination tool using face plate screws. Place foam rectangle on lamination tool and foam square on bottom of lock.

Glue anchor to cast. Fill in any gap with plaster and smooth transition. Mark location of release button.

Pull PVA bag over cast. Use heat to help ensure PVA fits under lock funnel.



Apply a bead of glue to housing funnel and glue to anchor with lamination tool aligned with release button location mark.

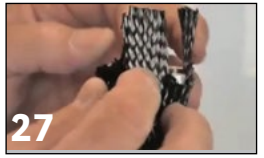
Laminating Grommet® Lock with Pediatric Aligned Four Connector *(continued)*

Ensure PVA bag is under lock funnel

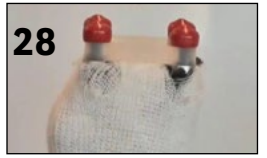
Place glue plate on connector. Install pyramid to connector. Do not over tighten screws.

Attach pyramid to endo components. All components should be at neutral. Return mold and lock to alignment fixture.

Check height measurement to ensure height is identical to test socket. Fill connector with glue.



Fold carbon and other layup materials between connector posts. As layup material is added, ensure the connector posts remain exposed.



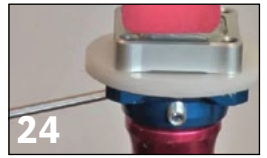
Lube attachment screws. Install Eight Hole Plate. Do not over tighten screws. Install red silicone caps onto screws. Finish Layup.

Pull outer PVA bag over mold.
Laminate in customary fashion.

Carefully sand to expose the red silicone caps. Expose the foam rectangle over the lamination tool.

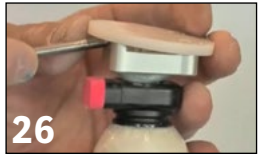
Always, LOCTITE
and torque to manufacturer specifications.

Lower mold and lock onto connector. Allow glue to set.



Remove mold (with lock and connector) from fixture.

Remove screws from connector.



Carefully remove glue plate and begin layup.

Remove foam rectangle and red silicone caps. Install removal screw in lamination tool. Remove lamination tool

Remove Eight Hole Plate. Finish socket as usual.

Slide lock plate into face plate and install spring.

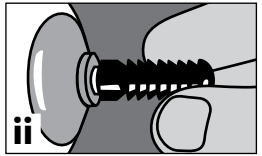
Tighten faceplate screws.

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

Two Part Pin install and proper seating Instructions

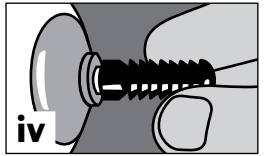
Poor lock pin spacing leads to premature wear. There should be no play between the lock and liner when fully engaged. You may need to add spacers to the pin to ensure this. Check for proper amount of play before putting lock into socket.

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

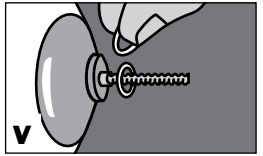


If there is play, loosen pin away from adaptor screw and liner.

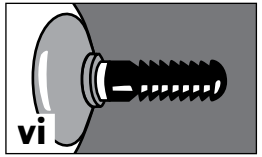
Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



If there is a gap between pin and liner.



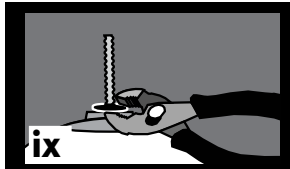
Based on the gap size created by loosening pin, install appropriate number of pin spacers on the adaptor (see Attention A5).



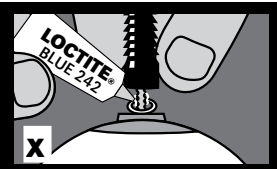
Replace pin on adapter, making sure base fits snugly on pin spacers.

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

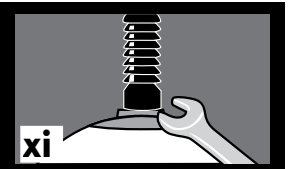
Apply Loctite® Blue 242 to threads of lock pin on adapter screw threads. Screw into liner finger tight.



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



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



Now tighten pin assembly with pliers or vice grips to insure complete thread engagement of brass into liner and pin into brass.
(See Attention A4, A5, A5)

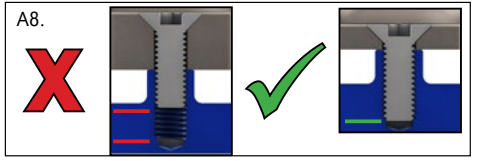
The CD104P6, CD104P6H, CD104PQ, CD104PQH, and CD104P10 pins are for use with the Grommet Lock, these pins are too small and do **NOT** work with the Air-Lock or Easy-Off Lock products. And the Air-Lock and Easy-Off Lock pins are too large and do **NOT** work with the Grommet Lock.

⚠ ATTENTION

We recommend using the CD103S Small Air-Lock vs. the Grommet Lock when space is available for enhanced suspension and higher weight limit.

A1. Do not lubricate inside of lock, this will attract debris. If you have a noice issue, it is typically due to seating. Call for technical assistance.
A2. Do not position lock with release button pointing posterior or anterior. Typically release button is oriented medially.
A3. Use the screws provided with typical components. In atypical setups, longer screws may be needed. Always use screws class 10.9 or better.
A4. Always use screws provided during lamination to ensure proper depth is created for attachment.
A5. 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.
A6. If you have a pin you cannot install, even with a wrench, contact Coyote for a replacement.
A7. Regardless of threading, always use Loctite® Blue 242 on lock pin threads. Follow liner manufacture instructions as they can vary.
A8. Typically use Coyote® provided 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.

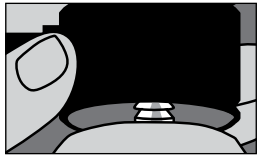
A8.



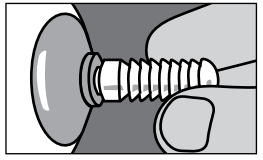
Solid Pin install and proper seating Instructions

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.

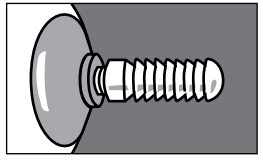


H1 Install pin on liner. Engage lock to check for play between lock and liner.

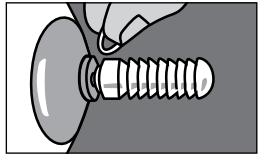


H2 If there is play, loosen pin away from adapter screw and liner.

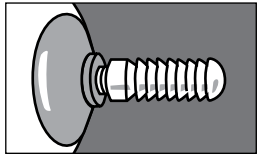
H3 Reengage lock to check for play. Repeat until lock seats completely. Remove lock.



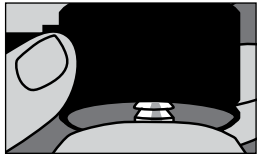
H4 If a Gap is created between the pin and liner.



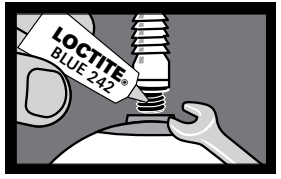
H5 Based on the size of the gap created by loosening pin, install appropriate number of pin spacers on threaded end (see Attention A5).



H6 Replace pin on adapter, 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 pliers or vice grips. (See Attention A5)