Installing Lock on Mold

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 now ready for fabrication.
4. Remove internal components from lock with a 2mm allen wrench. Be careful not to lose springs during removal. Coating Handle users skip to Step 12.
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" wide hole. Angle hole to help anchor adhesive.
8. Place anchor in lock.
9. Fill hole with Coyote Quick Adhesive or fast-setting epoxy.
10. Place anchor and lock in mold. When glue sets, remove lock.
11. Apply nylon over mold. Reflect and twist nylon around tie-off ring of the anchor.

Transferring Alignment

NOTES FOR TRANSFERRING ALIGNMENT: We recommend using a new lock/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 also allows you to duplicate the alignment established in the test socket in the definitive.

If using transfer fixture, place anchor inside lock prior to filling in alignment. Remove as normal and proceed from step 23.

NOTES FOR FLEXIBLE INNER SOCKET: If you are using a flexible inner socket, visit our video gallery at coyotedesign.com for tutorials and instructions.

Test Socket Fabrication

12. Install 4-hole fab plug. Snug tighten screws only DO NOT overtorque.
13. Place rectangle foam on fab plug.
14. Place lock on mold. Mark desired location of release lever.
15. Install insert of choice in Coyote alignable connector.
16. Place adhesive foam on connector posts. Place connector offset or centered.
17. Blisterforming: use a piece of flat plastic to compress distal end to reduce grading at finishing.
18. Expose foam rectangle and remove it.
19. Expose yellow foam, using care not to hit posts. Remove socket with socket extractor or traditional methods.
20. Remove 4-hole plug with screw, smooth, and polish area.
21. Flatten distal end and polish.

Preparation for Lamination

22. Use 6x18mm screws provided and Locrite® Blue 242 when attaching pyramid. Torque provided connector screws to 10 Nm. (See Caution #2 and #4)
23. Use Coyote alignment coupler CD106 for alignment during fitting.
24. Lubricate oring in place on lamination dummy inserter.
25. Install lamination dummy and orient in the desired direction of lever.
26. Tighten screws. Do not overtorque.
27. Use Permatex or equivalent on plastic to fit to distal end. Use pyran or another material to leave a small open circle in center of connector.
28. Run bead of Coyote Quick Adhesive or 5-minute epoxy around inner funnel of lock.
29. Place lock on anchor and ensure release lever is in desired location. Smooth out excess adhesive with finger.

Lay-up

30. Place mold and lock back into connector in desired location. Let set.
31. Remove pyramid from tube and remove pyramid and glue plate.
32. Make sure O-ring is in place on alignable connector. Install pyramid on alignable connector. Install pyramid on composite.
33. Expose PVA inner bag to anchor tie-off ring. Do not over-torque.
34. Pull inner PVA bag over distal end. Tie PVA bag to anchor tie-off ring. Remove composite from tie-off ring.
35. Trim excess PVA bag from composite.
36. Pull inner PVA bag over distal end. Tie PVA bag to anchor tie-off ring.
37. Trim excess PVA bag from composite.
38. Run bead of Coyote Quick Adhesive or 5-minute epoxy around inner funnel of lock.
39. Place lock on anchor and ensure release lever is in desired location. Smooth out excess adhesive with finger.
40. Reflect nylon stock-nette or other material over connector, lock and mold.
41. Test and reflect material to leave a small open circle in center of connector.
42. Ensure holes of connector are exposed. A hot nail or awl can be used.
43. Pull first composite layer over mold. Cut top edges to fold around posts.

CD117D
Easy-Off™ Deep Lock
Fabrication Instructions

Weight limit: 265 lbs.
2-year warranty against manufacturer defects, excessive wear or breakage.

Coyote Design
419 N. Curtis Rd., Boise, Idaho 83706
(208) 429-0026 | www.coyotedesign.com

External Prosthetic Components
Manufactured by
Patent No. 633-3876; Other patents pending.
Made in U.S.A.

Fabrication videos can also be viewed at
www.coyotedesign.com/video

Need more help?

If using casting handle, begin with Step 1. If NOT using casting handle, skip to Step 4.

Continued on back
Lay-up continued

44 Reinforce with carbon tape between posts. (See Caution #4) Ask patient to withdraw minimal amount of resin around fabrication plug for easier removal.

45 Lubricate screws and install five-hole plate. (See Caution #4)

46 Be second layer of composite under 5-hole plate, and reflect down over mold.

47 Pull bag and laminate. Initially restrict flow to force laminate through center hole on plate to force out air pockets.

48 Toward end of laminate, place tape over 5-hole plate to squeeze excess resin out of laminate.

49 String can be tied between fabrication plug and top of lock to ensure seal (see Caution #6).

50 Expose edge and remove extra lamination.

51 Remove 5-hole plate.

52 Expose lamination dummy and remove screws.

53 Extract lamination dummy with removal screw.

54 Smooth out edges and bottom of socket.

Installing Lever Assembly

55 Make sure that lock is placed properly, as it may have dislodged during shipping. At right, a properly assembled lever.

56 Line up lever assembly in groove and insert assembly.

57 Line up long side of rectangle with exterior posterior aspect of the socket.

58 Install 4 screws. DO NOT overtighten.

59 Lever is shown open (UNLOCKED). When lever is flush, lock is engaged (CLOSED).

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.
- The suction feature of the lock can be demonstrated and documented very simply.
- Walk the patient normally.
- Amputee may experience a difference in how the socket feels immediately, after some ambulation, or after reinstalling the o-rings. Patient feedback should be documented.

Call for more information on coding of the Easy-Off Lock: (208) 429-0026.

Practitioner Instructions

Poor lock pin spacing leads to premature wear. There should be no play between the lock and liner when fully engaged. To ensure this, spacers may need to be added to the pin. It is best to check this with a lock that has not been put into a socket yet.

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, reengage lock to be sure there is no play.

8. Apply Llrctile® 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)

Parts Sold Separately

Alignable Connector Parts
f Alignable Connector CD103AF
h Five Hole Plate
g Glue Plate
j 6mm x 18mm Screws
i Small foam circles (4)

Multi-Direction Insert CD103MDI
k Single-Direction Insert CD103SDI
l One-Shot Connector CD111

Inserts
m Fitting Lock (for pin spacing) CD103H

Related Parts
l Fabrication dummy CD103FD

Remove lock.

Lock seats completely.

For play. Repeat until

Patient name:__________________________

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

Patient name:__________________________

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

CAUTION

1. Lever and lock do not lock automatically. Ensure lock is in the closed position when lever is flush against socket, it is CLOSED (see Step 58.) Practitioner must give instructions on donning and doffing.

2. Use the 6x18mm screws provided with typical components. In atypical set-ups, longer screws may be needed. Always use screws class 10.9 or better.

3. 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.

4. Always use screws provided during lamination to ensure proper depth is created for attachment.

5. Never exceed 3 pin spacers.

6. 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.

7. 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.

8. Liner threads vary. Begin threading pin into liner with hand whenever possible. A wrench will be needed in cases of tight threads.

9. Regardless of threading, always use Loctite 262 on lock pin threads. If installing into a plastic distal adaptor Loctite® Primer 242 should also be used.

10. The CD103P11 is the longer pin for the Easy-Off 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.

11. 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.