

**Coyote<sup>®</sup>  
Design**

4th Edition



# Summit™ Lock

## LowPro Summit™ Lock

### Do not be fooled by imitations.

The original **Summit™ Lock** was the first proximal lock designed to control rotation and the only lock with ZERO clearance required.

We have improved the original and created the **LowPro Summit™ Lock** for easier donning.

Both locks are designed specifically for long limbs. There is no need to purchase a locking liner and you can use the socket adaptor of your choice.

**Summit™ Locks** can be used for any activity level, above or below the knee, for anyone up to 265 lbs.

### For the bottom line:

The **Summit™** and **LowPro Summit™** offer the highest profit margin of any lock mechanism because you are converting a cushion liner into a locking liner.

#### TECH TIP

Some liners work better than others with the Summit™ Lock and LowPro Summit™ Lock. For best results, give us a call or visit our website before ordering.

#### FITTING TIP

Some patients may experience the sensation that they are not completely in the socket. This is typically due to air being trapped under the limb. Instead of trying to pull the tab to get into the socket (this will cause liner damage) an expulsion valve can help get the limb seated completely in the socket.

**New** liner attachment shape for the original and LowPro Summit™ Locks making the liner easier to roll-on

**New** LowPro Summit™ Lock is easier to don and cover cosmetically

**New** tab design feeds into either lock easier

(Shown here with Ossur® Seal-In™ Liner, Integrator™ and Fast Four Connector)



Patent # 6666894. Other patents pending.



**CD101**

**CD101: Summit™ Lock**  
Ideal for retrofitting to existing sockets



**CD102**

**CD102: LowPro Summit™ Lock**  
Easier to don than original. Must be fabricated into socket



**CD101M**

**CD101M: Summit™ Lock with Manta Attachment**  
Ideal for retrofitting to existing socket



**CD102M**

**CD102M: LowPro Summit™ Lock with Manta Attachment**  
Easier to don than original. Must be fabricated into socket



**CD101XT**

**CD101XT: Extra Tab Kit**  
Parts needed for patients with multiple liners.  
Bowtie attachment is easier to roll-on than manta shape.



**CD101XTM**

**CD101XTM: Extra Tab Kit with Manta Attachment**  
Parts needed for patients with multiple liners. Comes with original shaped liner attachment. Manta shaped liner attachment may offer more stability than bowtie attachment, but is more difficult to roll-on.

Glue Form (CD101GF) is now included with every Lock and Extra Tab Kit

*Adhesive is not included with any of the above listed items*

**CD4120: Quick Adhesive**  
20cc cartridge with 3 mix tips and plunger. Larger sizes also available (see page 14). Quick Adhesive is **required** for fabrication of the Summit™ Lock and LowPro Summit™ Lock.

**TECH TIP**

Quick Adhesive sets extremely fast. If not glued fast enough it may not properly adhere to the liner. The glue can be refrigerated to slow down its work time. Work quickly when using adhesive with the Summit™ Lock.



**CD4120**

# Air-Lock

## Not all locks are created equal.

Is it possible that there's a better lock than one designed 20 years ago? Are the cheapest locks going to work as well, as long, or as smoothly as newer innovations?

The **Air-Lock** is a dual suspension pin system designed to combine suction suspension comfort with pin suspension safety and security. The airtight seal of the **Air-Lock** prevents air from coming into the bottom of the socket, creating a negative pressure inside the socket (suction), which reduces pistoning regardless of the location

of the pin. This also allows for less traction on the limb for increased comfort and decreased liner wear.

Sometimes the only thing that can be saved is time. Vacuum form over the mold, lock and **Fast Four Connector** to create a fast, inexpensive, airtight test socket. Use for an extended test period or as a shower leg.

Shown below: Air-Lock in test socket with Fast Four Connector and Alignment Coupler (CD106)

## For the bottom line:

The ability to offset the alignment in the socket saves a lot of money by eliminating the need for expensive offset endo components.

In many cases there is no need for a suspension sleeve to maintain the suction feature of the lock.

### TECH TIP

All liners seat differently in the Air-Lock. There are a number of options to make sure the pin seats completely in the lock regardless of your liner choice. There's even a longer pin. Give us a call or visit our website for more information.

Patent # 6334876





**CD103: Air-Lock**  
2 1/2" diameter

Stop letting the lock dictate prosthetic alignment. The Alignable Four Connector can be offset from the lock in any position you want. This can be done in a single lamination.

On the socket above, you can see the offset of the connector from the lock. Endo components can be placed in a neutral position.

No dummy or extra fabrication tooling (other than your connector of choice) is required with the Air-Lock. Build height will vary with different liners and fabrication set ups but will never exceed these amounts:

**CD103:** Maximum clearance required: 2"

**CD103S:** Maximum clearance required: 1 7/8"

Both locks weigh less than 100 grams

Socket is also shown with an expulsion valve. These are used only to ease donning, or when a suspension sleeve is used. Expelling air doesn't create suction; eliminating incoming air does. There is usually no need for an expulsion valve.



**CD103S: Small Air-Lock**  
1 1/2" diameter



**CD103FF: Fast Four Connector**  
Keys directly onto bottom of Air-Lock



*Quick Adhesive is not required for fabrication of the Air-Lock, but works very well in this application.*



**CD103P6: Standard Lock Pin**  
(1 1/4" long, 6 clicks) Includes 6mm set screw, 10mm adaptor and spacers for length adjustment



**CD103AF: Alignable Four Connector**  
Can be offset from lock in any position

Each connector includes parts needed for fabrication.

# Air-Lock Accessories



## CD103WH: Lock Wrench for Air-Lock and CQL™ Valve

Removes valve body of Air-Lock and CQL™ Valve to access the inside of the lock and the filter of the valve. Wrench is equivalent to 13mm deep well socket.



## CD103RBC: Release Button Cover

Added to end of release button to make it easier for patients to release the lock. Ideal for geriatric or other lower dexterity or limited hand strength patients.



## CD103P9: Long Lock Pin

(1 5/8" long, 9 clicks) Includes 6mm set screw, 10mm adaptor and spacers for length adjustment

**LOCK PIN NOTE:** Because of the airtight feature, the socket is held on by suction, rather than with excessive amounts of traction. This allows for less elongation in the sockets and reduces the need for a long pin.



## CD103PC: Pin Cap

The Pin Cap is used to reseal socket to keep it airtight when lengthening the socket for use of a long pin.

Sold with the Long Pin Tool Kit, or individually.



## CD103GP: Guide Pin

Slides into lock to allow for lengthening of lock for use with a long pin without damaging inside of lock.

Sold with the Long Pin Tool Kit, or individually.



## CD103ELD: Exo Lamination Plug

Used when fabricating Air-Lock in Exo sockets. The extra length of this plug versus the standard makes it easier to access the release button and valve body of the Air-Lock.



## CD103TK: Long Pin Tool Kit

When using a Long Pin, some liners will bottom out in the socket. To prevent this we have created a tool kit which drills through the bottom of the lock and socket. It can then be resealed with a Pin Cap (CD103PC). This allows for use of the long pin, but does not require any more build height. Tool Kit includes a long drill bit, hole saw, pin guide, countersink and one Pin Cap.

# Fitting Tools



## **CD103EDC: Exterior Distal Cushion**

Some liners have a large distal attachment in their umbrella. This silicone donut slides over the pin onto the bottom of the liner, filling in the space between the end of the liner and the funnel of the lock, while cushioning the end of the limb. Use of a long pin is recommended.



## **CD109: Volume Management Socket Pads**

Some areas of a limb can tolerate more pressure or tighter suspension than others. Rather than global reductions, make volume adjustments to your sockets right where you want them with our six different socket pads. Sold pre-cut in a complete set at full thickness for limitless customization. Surface of pads helps increase suspension in the socket without interfering with donning and doffing.



## **CD302E: 1/8" Pylon Spacer** **CD302Q: 1/4" Pylon Spacer**

Easily make incremental height adjustments during the fitting process without leaving the exam room. 1/8" or 1/4" available.

Sold in packs of two

# Grommet™ Lock [for Pediatrics]

When I was a kid, I wore a lot of adult prosthetic components, but not because I was a big kid. There were no pediatric parts. The **Grommet™ Lock** is a pediatric only lock. It is lightweight, durable and easy to engage. Why not fit kids with a liner and a small lock instead of an old clunker lock or a bunch of harnessing?



#### **CD104: Grommet™ Lock with Pin (1" diameter)**

Includes 1 pin, and all necessary tools for fabrication EXCEPT a connector. Upper extremity and below knee. Pediatric Only. Up to 100 lbs. The maximum clearance required is 1 3/8", the lock can be modified to require less. If clearance is not an issue, the Small Air-Lock (CD103S) should be used.



#### **CD104PN: Lock Pin (1 1/16" long)**

Includes 6mm set screw, 10mm adaptor, 1/4" x 20" adaptor and spacers for length adjustment. Replaces both the CD103P6 and CD103PQ which are no longer available.



#### **CD103PAF: Pediatric Alignable Four Connector**

Used in definitive sockets when customer is needing to offset the alignment



#### **CD103PFF: Pediatric Fast Four Connector**

Used in test sockets and definitive sockets when alignment is not an issue



*Quick Adhesive is not required for fabrication of the Grommet™ Lock, but works very well in this application.*

# Connectors



## **CD103FFO: Offset Fast Four Connector**

Connector is used with Air-Lock and Integrator™. Connector will key directly onto the bottom of the lock or allows for small offsets of prosthetic alignment before thermoforming or laminating. Used in test sockets and definitive sockets.



## **CD106: Alignment Coupler**

Coupler is used for dynamic alignment during test socket fitting. Connects to standard four hole and can offset the prosthetic alignment (foot) from the bottom of the socket. Up to 265 lbs. Not for use in definitive sockets.



## **CD106E: 1/8" Spacer Plate** **CD106Q: 1/4" Spacer Plate**

Easily make small height adjustments using these 1/8" or 1/4" aluminum spacer plates. Easily mounts between socket and pyramid.



## **CD103FF: Fast Four Connector**

Connector is used with Air-Lock and Integrator™. Connector will key directly onto the bottom of the lock or Integrator™ and is thermoformed or laminated into socket. Used in test sockets and definitive sockets when alignment is not an issue.

Pediatric versions available



## **CD103FFLP: Low Profile Fast Four Connector**

A thinner version of our Fast Four Connector for tight build heights and smaller limb shapes. Ideal for use with Small Air-Lock, Grommet™ Lock or Small Integrator™.



## **CD103AF: Alignable Four Connector**

Connector is used with Air-Lock and Integrator™. Can be offset from the bottom of the lock and fabricated into the laminated socket. Used in definitive sockets when customer is needing to offset the alignment.

Pediatric versions available

# Coyote<sup>®</sup> Suspension Sleeve

Coyote<sup>®</sup> Design is known for our locks, but we also know that not everyone can be fit with a lock. So we have developed a variety of options to improve your suction sockets, including a quiet valve, a thin sleeve and fast fabrication of the socket.

The thickness of a gel liner combined with the thickness of a knee sleeve doesn't leave much room for bending the knee. The new **Coyote<sup>®</sup> Suspension Sleeve** is extra thin to make flexion easier. It also features antibacterial deodorizing properties, can be washed and even repaired. Haven't we all seen a sleeve that could use a good wash or a patch? This is an ideal sleeve for compliant patients needing more movement in the knee. All this, and it's airtight, too.



## **Coyote<sup>®</sup> Suspension Sleeve**

Airtight, thin, repairable, washable and antibacterial.

## **CQL<sup>™</sup> Auto Expulsion Valve**

The CQL<sup>™</sup> Auto Expulsion Valve can be retrofit or used with new fabrication tooling for easy installation in new sockets. The built-in auto expulsion quietly expels air all day with no fuss. See page 12 for more information.

## **Integrator<sup>™</sup> Socket Adaptor and Alignable Four Connector**

The Integrator<sup>™</sup> Socket Adaptor, when used with one of our connectors, can be built into alignment in one step with a clean inside socket finish. Note how the Alignable Four Connector is offset in the desired prosthetic alignment. No need for offset components. See page 13 for more information.



Size	Level diameter of kneecap	Maximum circumference of thigh 10" above knee center
SS	270-300	430
S	300-350	500
M	345-375	565
ML	350-380	630
L	360-420	630
LL	370-440	680

To order, select size and color, add that to the item number. For example, a medium large black sleeve would be CD107ML-BK

**CD107: Coyote® Suspension Sleeve**

Available in 6 sizes (SS, S, M, ML, L, LL) and 2 colors, Beige (BE), and Black (BK).

Each sleeve comes with one sleeve protector and one piece of repair tape.

Suspension sleeve available in North America only.

**TECH TIP**

The Coyote® Suspension Sleeve can be repaired using the repair tape (included with each sleeve) and a household iron. To repair sleeve, place repair strip in desired location. Place a fabric of your choice over the sleeve and the repair strip to avoid burning sleeve with iron. Lightly iron the repair strip in place.



**TECH TIP**

- Proximal socket trim line should be as low as possible.
- Medial and lateral trim lines should be as close to mtp as possible.
- Anterior trim line should drop approximately 1/2" to 3/4" lower than m-l trim line in a smooth arc.
- Anterior notch needs to be as low and wide as possible to reduce stress on suspension sleeve in flexion.
- Socket edges should be smoothed with a tycro cone before sleeve protector is cemented to proximal edge of socket.



Socket shown here with Sleeve Protector. Coyote® Suspension Sleeve should not be used without Sleeve Protector.

# Suction Valves



Valve height:  
11mm



## CD105: CQL™ Auto Expulsion Valve

Ever wanted to sneak up on someone? This, among other reasons is why our valves are quiet. The CQL™ Auto Expulsion Valve can be retrofit or used with new fabrication tooling for easy installation in new sockets. The built-in auto expulsion quietly expels air all day with no fuss. Patent pending.



Valve height:  
11mm



## CD105H: HandsFree™ Valve

It's hard enough to get in and out of a prosthetic without having to hold the valve at the same time. The new HandsFree™ Valve will stay open with a simple twist. When ready to go, the valve is closed by twisting the other direction. The built-in auto expulsion quietly expels air all day with no fuss. The valve can be retrofit or used with new fabrication tooling for easy installation in new sockets. Patents pending.



Valve height:  
11mm



## CD105H MO: HandsFree™ Valve - Manual Only

Same hands free operation without the auto expulsion valve. Ideal for easing the donning and doffing of the limb in vacuum systems, without compromising the seal of the vacuum during the day.



## CD4120: Quick Adhesive

20cc cartridge with 3 mix tips and plunger. Larger sizes also available (see page 14). Quick Adhesive is **required** for attachment of the CQL™ and HandsFree™ valves.

# Integrator™ Socket Adaptor

We liked our lock fabrication so much we wanted to utilize the same efficiency when creating suction sockets. **The Integrator™ Socket Adaptor**, when used with one of our connectors, can be built into alignment in one step with a clean inside socket finish. Save money by saving time. Two laminations is so ten years ago. Ideal for AK or BK sockets. Weight limit: 265 lbs.

## TECH TIP

The Integrator™ has a new, larger tie-in for laminated sockets and a larger o-ring for thermoformed sockets, to ensure an airtight socket. Quick Adhesive is not required for fabrication of the Integrator™, but works very well in this application.



*Shown here with the Alignable Four Connector*

### **CD108: Integrator™ (2 3/8" diameter)** Standard size, fit most lower extremity limbs



### **CD108S: Small Integrator™ (2" diameter)** Smaller size for smaller limb shapes



### **CD103AF: Alignable Four Connector**

Connector is used with Air-Lock, Grommet™ Lock and Integrator™. Can be offset from the bottom of the lock and fabricated into the laminated socket. Used in definitive sockets when offset alignment is needed.



### **CD103FF: Fast Four Connector**

Connector is used with Air-Lock, Grommet™ Lock, and Integrator™. Connector will key directly onto the bottom of the lock or Integrator™ and is thermoformed or laminated into socket. Used in test sockets and definitive sockets when alignment is not an issue.



Pediatric versions for both connector styles are available.

# Quick Adhesive



**Quick Adhesive** is used to attach the Summit™ Lock to a liner, and to glue the LowPro Summit™ Lock to the socket. It can also be used for fabrication of the Air-Lock, Grommet™ Lock and Integrator™. Also used to reinforce socks used with pin locks, repair sockets, and in place of any other epoxy or gunk. Ships non-hazardous, sets fast, doesn't smell and does not sag for buildups.

**CD4120:** 20cc cartridge with plunger and 3 mix tips (dispenser required)

**CD4180:** 180cc cartridge with 1 mix tip. New larger size is the most economical size available (dispenser required)



**CD401: Mix Tips for 20cc and 50cc cartridges**  
6 pack of additional tips for CD4120

**CD402: Mix Tips for 20cc and 50cc cartridges**  
20 pack of additional tips for CD4120

**CD410: Mix Tip for use with 180cc cartridge**  
12 pack of additional tips for CD4180 and CD5180



**CDDMA180: Dispenser for 180cc Cartridge**  
New dispenser for the CD4180, 180cc quick adhesive cartridge. Easy to use with flow control. Can also be used with new Fast Set Silicone.

# Fast Set Silicone



*Distal pin hole in sock has been reinforced by Fast Set Silicone*



*Gel liner that has been repaired by Fast Set Silicone*

## **CD5180: Fast Set Silicone**

180cc cartridge comes with one mix tip and is loaded in dispenser for easy use. The silicone sets in seconds for multiple purposes including, establishing chamber depth in a test socket, reinforcing distal socks, and extra padding in foot orthotics or shoes.



## **CD410: Mix Tip**

12 pack of additional tips CD4180 and CD5180. For use with 180cc cartridge.



## **CDDMA180: Dispenser for 180cc Cartridge**

New dispenser for the CD5180, 180cc Fast Set Silicone. Easy to use with flow control. Can also be used with new 180cc Quick Adhesive.



*A plastic bag is placed over the liner and patient steps into test socket. Fast Set Silicone is injected into bottom of socket to determine desired chamber depth.*

# Modifying and Fabrication Tools

## **CD304: Plaster Scoop**

An easy way to make modifications to plaster models. It is especially useful during the modification process of our RCR™ socket design.



## **CD307: Plaster Spreader**

Plastic tool used for build-ups during modifications. The tool is easy to clean and plaster does not stick to it during build-ups.



*Modifying a mold with the plaster scoop.*



*Adding a buildup with the spreader.*



## **CD301: Extractor, Socket Removal Tool**

Includes parts for securing socket with standard pipe, and a four hole connector. Easily mounts in a bench vice. Fabrication tool used to extract the mold from the socket. Use on thermoformed or laminated sockets. Pulls approximately 80% of sockets. Adjustable to fit almost any size of limb.

# Casting Tools

## **Fiberglass Casting Tape**

Used during casting of the RCR™ Socket, fiberglass wrap allows for tension to be put on the limb during the wrap, giving the mold a more natural elongation that is ideal for the RCR™ Socket and casting for use with an Air-Lock. It is also easily removed without distorting the cast. Use this wrap anytime fiberglass wrap is needed.

Available in North America only  
Sold in boxes of ten

**CD312:** 2" Fiberglass Wrap

**CD313:** 3" Fiberglass Wrap

**CD314:** 4" Fiberglass Wrap



## **CD306: Casting Bungee**

Adjustable length allows you to keep casting stockinette pulled taut during the casting process on virtually any patient. Use during casting for wrinkle free casts.



## **CD103SFC: Adhesive Back Foam Dots**

Easily mark problem areas during the casting process using these adhesive foam dots. In place of pen or pencil marks these dots are placed on the liner over the top of problem areas, or areas in need of extra relief. The adhesive back will keep them in place during casting. Available in packs of fifty.



# RCR™ Transtibial Socket

Long after becoming a prosthetist, Dale Perkins, CPO, became an amputee himself. He realized he had issues with the socket designs he had been using to fit his own patients. After further examination he discovered no new developments had taken place in transtibial socket designs despite the number of advancements in components, such as gel liners and lock mechanisms.

He began developing a new transtibial socket design, resulting in the **RCR™ Socket**, a more comfortable socket for Dale and his patients.

This socket was designed to increase range of motion, control rotation and improve comfort, all while relieving pressure on the patellar tendon. When used with a suction lock the result is superior suspension, with optimal comfort.

Suspension and socket control is obtained throughout the entire socket, rather than in specific areas, allowing below-knee amputees the sensation that the socket is not even there.

We offer a variety of seminars, hands-on workshops and in-services on the socket. Go online to view scheduled events, or contact us directly to request an in-service at your location.



Patent pending.

# Terms, Warranty, Returns

## **Ordering**

Orders placed by 3pm MST will typically ship same day. All orders will ship via Ground service unless otherwise noted. Customer will incur all shipping costs.

## **Payment**

All customers are on a NET 30 payment schedule unless otherwise negotiated. Payments may be made with check, Visa, MasterCard, or American Express. A finance charge of 1.75% will be applied to past due balances over 30 days. In addition to finance charges, a monthly late fee of up to fifty dollars may be applied to those with repeated on-time payment issues. Customers with repeated payment issues will be placed on a credit card or COD basis. Customers with on-time payment issues that are required to pay via credit card or COD will incur all expenses associated with COD and or credit card charges.

## **Warranty**

All parts, with the exception of Suspension Sleeves, have a 12-month warranty against manufacturing defects and workmanship. Any part found defective under normal and correct use will be replaced at no charge with the same item. If an item is replaced under warranty, the replacement part is shipped as soon as possible and will be invoiced for full retail value. Upon receipt of the warranty item, a credit will be issued under the terms that apply. All suspension sleeves have a 30 day warranty against manufacturer defect.

## **Returns**

Within 30 days any part may be returned with no restocking fee. After 30 days a 15% restocking fee is charged for all parts. There are no returns after 6 months. The customer regardless of condition of parts always incurs original shipping costs. A Return Authorization number must be issued prior to returning to ensure proper credit.

Focus, determination, hard work and the desire to be better—these are traits used in sports like triathlon, ski racing and golf, and at Coyote Design, we rely on them for product development. Dale Perkins CPO, a below-the-knee amputee was in need of better products to solve many of the issues he had in his orthotic and prosthetic practice.

With the help of his youngest son Matt, an above-the-knee amputee, they began to develop new products for the practice directly from the napkin drawings they were creating. From these simple napkin drawings a new company was formed.

Dale continues in full-time patient care practice, while Matt runs Coyote Design. Both continue to develop innovative products for the amputee, practitioners, technicians and the bottom-line. This back to basics and customer feedback centric approach helps Coyote develop products for people, rather than trying to find people for products.



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