Coyote® Connect

Prosthetist Technical Guide

Puck Fabrication Guide

for Internal Elevated Vacuum Systems

No Full Carbon Lamination

See instructions for details

More information is available online at - www.coyote.us/vacuum-technology

Digital and Video Instructions are available online at - www.coyote.us/instructions-vacuumsystems

Coyote® O&P Inc. | 1-208-429-0026
www.coyote.us

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Coyote® Connect

Prosthetist Technical Guide

C55

WARNING:
Must be used with a SLEEVE SUSPENSION or a SEAL-IN LINER

USING AND SETTING UP THE COYOTE® CONNECT APP REQUIRES:
WIFI CONNECTION IN FACILITY OFFICE
SETTING UP THE PATIENTS APPLE ID, OR GMAIL ACCOUNT

COYOTE® CONNECT REQUIRES DEVICES WITH BLUETOOTH 4.0
(5TH GENERATION IPOD TOUCH, iPHONE 5 AND NEWER,
ANDROID OS 4.4 AND NEWER

PATIENT WILL NEED A VALID EMAIL ADDRESS
TO SIGN UP FOR AN APPLE ID OR GMAIL ACCOUNT

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Symbol Definitions

Symbol	Description
	Consult the Operating Instructions
	Caution, Consult Instructions

Warnings And Safety Notices

READ THESE INSTRUCTIONS FOR USE CAREFULLY AND PAY SPECIAL ATTENTION TO ALL SAFETY CONSIDERATIONS AND WARNINGS.

THIS MANUAL PROVIDES STEP-BY-STEP INSTRUCTIONS FOR SETUP AND OPERATIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY.

The Coyote Connect™ and its accompanying accessories do not contain any serviceable parts and should under no circumstances be opened.

If the Coyote Connect™ or any of its accompanying accessories show any signs of damage, they must not be used.

Do not immerse the Coyote® Connect or any of its accompanying accessories in water or any other liquid deeper than 10 feet (3 meters) for longer than 4 hours.

Avoid all explosive/combustible materials while using the Coyote Connect™ System.

Battery Level of the Coyote® Connect should be checked periodically to guarantee proper pressure levels.

Introduction

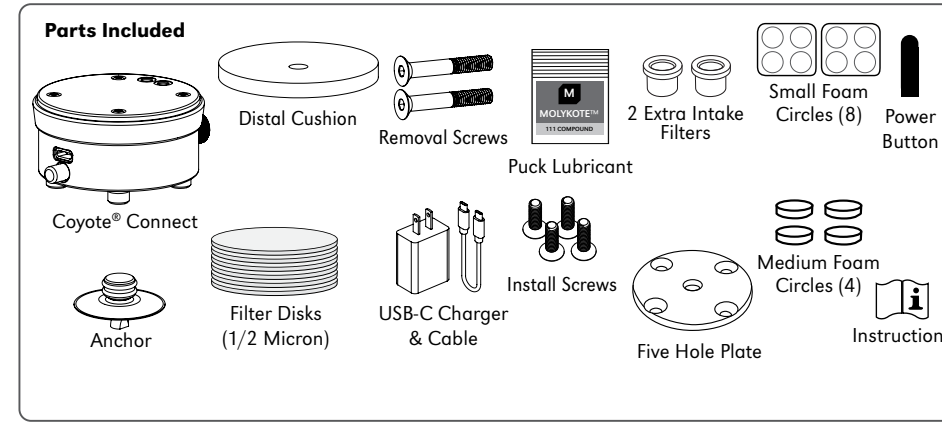
The Coyote Connect™ is an elevated vacuum system that utilizes an electronic vacuum pump to create negative pressure inside the prosthetic socket. The Coyote Connect™ improves the linkage between the residual limb and the prosthesis. The Coyote Connect™ can be controlled via an easy to use iOS or Android smartphone app. This allows the user to quickly and easily set and adjust vacuum pressure settings of their prosthesis.

Coyote Connect™ System advantages include:

- Reduction in daily volume differences
- Improved proprioception
- Improved adhesion / suspension
- Reduction in the forces that are applied to the residual limb

What's Included:

1) Coyote Connect™ Vacuum system
2) Distal Cushion
3) Removal Screws
4) Puck Lubricant
5) Install screws
6) Filter Disks (1/2) Micron)
7) USB-C Charger & Cable
8) Five Hole Plate
9) Small Foam Circles (8)
10) Medium Foam Circles (4)
11) Power Button
12) 2 Extra Intake Filters
13) Instructions



Unit Overview

The Coyote® Connect System consists of the following key components:

- Coyote Connect™
- Socket (in which the Coyote Connect™ is installed)
- Prosthetic Liner
- Sealing Sleeve and/or Seal-in Liner
- Distal Pad or Flexible inner liner

NOTE: THE COYOTE CONNECT™ SYSTEM CAN ONLY BE USED WITH SLEEVE SUSPENSION and/or SEAL IN LINERS AND SIMILAR SYSTEMS.

The Coyote® Connect creates an elevated vacuum in the space between the socket and the liner when the Coyote® Connect is activated. The user can configure and activate the Coyote Connect™ through the use of an easy to use Coyote APP or manually using the on/off switch. User configured settings in the Coyote APP are wirelessly transmitted to the Coyote Connect™ through a Bluetooth Low Energy (BCE) connection without the inconvenience of cables and connectors.

ATTENTION: The socket MUST be fabricated following the Coyote Connect™ socket fabrication technique. The use of other techniques may cause health risks for the patient. Do not fabricate into a carbon fiber socket.

ATTENTION: Attempting to modify or use the Coyote Connect™ System in any other configuration other than its intended use may cause health risks for the patient.

Accessories

Coyote Connect™ Charger

The Coyote® Connect includes a USB-C charger. Any quality 5V USB-C charger may also be used. Once the prosthesis has been removed from the patient's residual limb, the charger should be inserted into the Coyote® Connect through a pre-fabricated hole in the socket.

ATTENTION: The Connect™ comes with a USB-C Charger - Input 100-240V-50/60Hz 0.4A Max Output: 1000mA

Coyote Connect™ Smart Device Application

An application is available for the Coyote Connect™ System and can be downloaded from the Apple App™ Store or Google Play™ Store. The Coyote Connect™ application provides an intuitive interface giving the user control over the various Coyote Connect™ settings and controls as well as sensor readings. The application allows the user to preset settings which the Coyote Connect™ will retain even in the absence of the Smart Device. Details of the Smart Device application are provided in the System Operation section of this manual.

On Off Button

If the user does not intend on using the Coyote Connect™ Smart Device Application, the Coyote Connect™ internal pump can still be activated using the on off button. The button allows the user to turn the Coyote Connect™ pump on and off by pushing the button along the side of the Socket. Pushing the button while the pump is enabled will disable the pump. Performing the same task while the pump is disabled will activate the pump. Holding the button down for 5 seconds will cause the puck to vibrate 3 times and then completely shut down the puck and its Bluetooth. This mode should be used for long term storage of the device, to maintain battery health. Details of the on/off button are provided in the System Operation section of this manual.

Quick Start Kit

The Quick Start Kit includes a USB-C Charger, Molykote lubricant, vacuum sealant for installing the Coyote Connect™, 20mm screw set to attach external components, 40mm screw set to remove the Connect™ and or Connect™ Dummy, a distal cushion and Filter Disks to be used as a secondary filter for the Connect™.

Installation

ATTENTION: The user must be trained by the prosthetist or practitioner who will be performing the product fitting.

ATTENTION: Installation of the Coyote Connect™ into the socket must be done by a certified prosthetic technician or practitioner who is fitting the user.

For clinical or technical assistance, please contact **Coyote® O&P Inc.**

Information : Coyote® O&P Inc., 525 N. Steelhead Way Boise, ID 83704
1-208-429-0026 | ww.coyote.us

BEFORE STARTING:

Ensure the bottom external surface of the socket is parallel to the interior surface on the distal end of the socket. Proper socket fabrication ensures that there are no shear forces on the installation screws.

INSTALLATION

1) Lubricate the soft seal on the Coyote Connect™ with Dow Corning 111 Vacuum sealant. Also be sure to lubricate the proximal aspect of the socket void (The area the gasket will seat).

2) ONLY USE THE INCLUDED CONNECT™ LUBE (DOW CORNING 111) - NEVER USE ANY OTHER LUBRICANT!

3) Orientate the Coyote Connect™ such that the ON/OFF button is located either lateral/medial. Orientation is discretionary.

4) Before inserting the Coyote Connect™ unscrew and remove the valve from the side of the puck, and pull the On/Off button off the Connect.
DO NOT ALLOW DIRT OR DEBRIS IN THE CHAMBER BEHIND THE RELEASE VALVE. Never run the Connect without the release valve installed, as this can clog the system.

5) Gently insert the Coyote Connect™ into the void at the bottom of the socket. Make sure the soft seal does not roll up as the Connect™ is inserted. Align the four posts and side holes as the Connect™ is pushed into place. There should be resistance as the Puck is pushed into place. This is the compression of the soft seal as it slides into the void. Ensure there is good, even compression on the seal. The seal should appear to be a 1/2" solid wet looking band (when using clear socket material).

6) Use a 4mm wrench to rotate the puck such that the four hole pattern is aligned with the four hole pattern in the bottom of the socket.

7) Secure the Coyote Connect™ into the bottom of the socket by connecting external hardware to the four hole pattern of the Coyote Connect™. Use install screws and tighten opposite screws to pull the puck down into the void evenly.

8) Apply Blue Loctite™ 242 to screws and Torque to10Nm.

9) CAREFULLY wipe out excess lube around the puck lid.

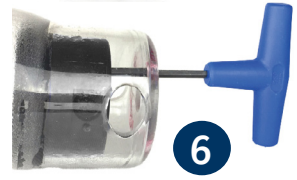
10) DO NOT GET LUBE ON THE RED AND WHITE INTAKE FILTERS... THIS WILL CLOG THE SYSTEM!

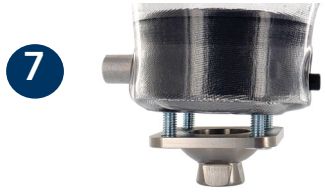


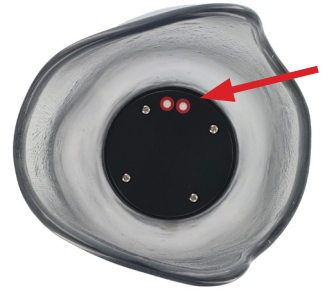












NOTE: For best results: Use circular attachment components to reduce stress and better distribute forces to the bottom of the socket.



11) CRITICAL: Ensure the air exhaust hole is open to the ambient air. This is where the Coyote Connect™ reads the differential air pressure. The hole is at the bottom of the Connect with channels coming out under the release valve.



12) Screw the valve back into the side of the Connect™ housing and press the On/Off Push button cover back onto the button.

13) Place the filter disk over the Coyote Connect™ lid. This 1/2 micron disk will protect the primary intake of the the Coyote® Connect. The Filter disk should be placed felt side down (facing puck lid).



14) Place distal pad or flexible inner liner on top of the puck and filter disk.
Socket not shown for clarity.

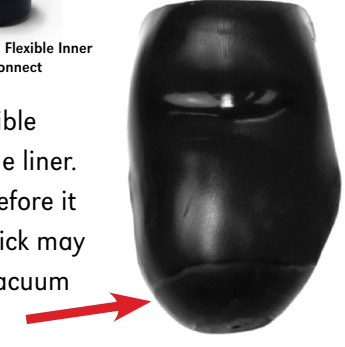


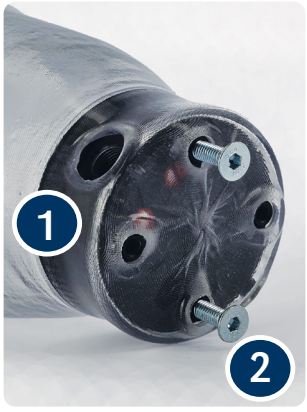
Filter between Distal Cushion and Connect

Filter between Custom Distal Cushion and Connect

Filter between Flexible Inner and Connect

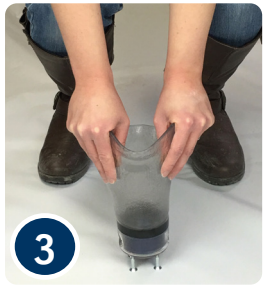
NOTE: When drilling the air through hole in the flexible liner, drill the hole off center up the side of the flexible liner. This will act as a third filter system to catch debris before it can reach the filter located on the Puck lid. (An air wick may be necessary between the two sockets to facilitate vacuum flow).



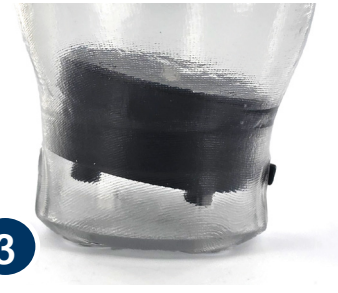


REMOVAL OF THE COYOTE CONNECT™

1) Unscrew valve and remove it.
2) Grab button extension with pliers and pull to remove it.
3) Remove all other external hardware including connection pyramid.
4) Thread in 2-40mm removal screws (included) into the bottom of the Coyote Connect™ through the four hole pattern in the bottom of the socket
5) Place the socket on the floor and apply needed body weight to the top of the socket. Slowly push the Coyote Connect™ out of the void (this can take up to 20 seconds). Gently remove the Connect,™ never bang or pry the puck out of place. ANY DAMAGE ON THE BOTTOM OF THE PUCK VOIDS WARRANTY. When pushing the Connect out of the socket be careful with the Push Button. You may need to remove the button by pulling it with pliers but may be able angle the puck once you break the seal.







Donning Instructions

1) Charge the Coyote Connect™ and Smart Device every night to make sure you have a full charge through out the day.

2) Place the filter disk on top of the Coyote Connect™. This 1/2 micron disk will help prevent the pump inside the Connect™ from getting clogged and reduce the number of times the primary filter has to be replaced.

3) Before donning the prosthesis make sure the distal cushion or flexible inner liner has been placed on top of the Connect™. This ensures that you have total contact on your residual limb which is very important for comfort and limb health. (Socket not shown for clarity.)







Distal Cushion



Custom Distal Cushion



Flexible Inner

4) Don a urethane or silicone Liner. If the liner has a fabric exterior it will be necessary to reflect the top portion of the liner down your leg 3-4 inches to create a sealing surface. The sleeve can NOT seal to bare skin.

Note: Thermo-elastomer gel liners are not to be used with the Coyote Connect™ System. The oil in these liners will clog your Connect™ Vacuum Pump.



5) Apply an air wick or sheath over the liner so vacuum will flow over your entire residual limb. Leave the top portion of the liner uncovered, this will be the area to which your sealing sleeve is applied.
Note: Vacuum will flow over the area where the fabric or sheath is.



6) Insert residual limb into the socket system. The socket fit should fit comfortably and provide total contact everywhere (especially at the bottom of the socket).

7) Apply the sealing sleeve. Make sure your sleeve is free of holes and has equal contact on both the socket and the upper portion of the liner. These are the only areas leaks can occur. We recommend 3"-4" of direct sleeve to socket contact and 3"-4" of direct sleeve to liner contact. The air wick should not be on or in between either of these sealing areas.



8) Placing a elastic Velcro™ band around the end of the sealing sleeve (on the socket) will minimize any leaks on the bottom portion of the sleeve/ socket seal.



9) You are now ready to begin using your new Coyote Connect™ System.





Removing the Prosthesis

1) Turn off the COYOTE CONNECT™ before removing the prosthesis!
2) Twist the release valve counter clockwise a half turn to release vacuum. (Twisting the release valve more than a half turn does not increase airflow and can subject the pump to contaminates). Be sure to tighten the release valve finger tight before turning on for next use. **This is imperative for seal in liner systems.**
3) Patient can now doff prosthetis.

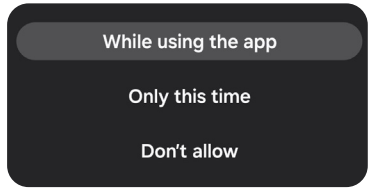
Installing the Coyote Connect™ App

Scan the appropriate QR code for your device. Alternatively search "Coyote Connect" in either the iOS app store, or the Google play store. Install the app..

Apple Android

App Permissions:

The first time you launch the app, please make sure to allow the proper permissions for the app to function. Choose "While using the app" for the first prompt, and "Allow" for the second prompt. If either permission is not granted, the app will not function properly.





We do not collect any location data or personal information. These permissions are only required for Bluetooth functionality.

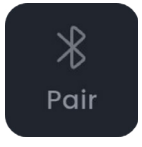
Connecting Bluetooth

1) Ensure your Coyote Connect is charged, and in STANDBY mode.
Standby mode is when vacuum is off but Bluetooth is still working.

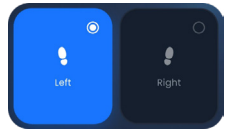
2) Ensure Bluetooth is activated on your Android or iOS smartphone.

3) Open the Coyote Connect™ app on your smartphone.

4) Navigate to the Bluetooth pairing tab on the app



5) Select either "Left" or "Right" at the top of the page.



6) Press "SCAN" to start scanning for devices.

7) Press "CONNECT" next to the radio number corresponding to your device. The radio number can be found engraved on the top of your Coyote Connect.



8) Once completed, the radio number for your device will be displayed under the corresponding side selected, indicating successful pairing. A "DISCONNECT" button will also be displayed.



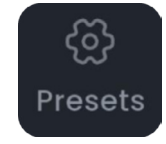
9) If any issues are encountered during connection:

a. Ensure the Coyote connect is charged and in "STANDBY" mode.
b. Ensure the smartphone and Coyote Connect are within 10 ft of each other.
c. Check to make sure Bluetooth is enabled on your smartphone.
d. Turn your Coyote Connect OFF and then ON. (Hold the power button down for 5 seconds)
e. Close the app completely and re-open it.
f. Uninstall and reinstall the app.

If you still have issues with connecting, please contact Coyote for further assistance.

Setting Vacuum Presets

1) Navigate to the presets tab in the Coyote Connect app.



2) Use the up and down arrows to adjust the vacuum presets for "**SIT**", "**WALK**", or "**RUN**". Presets are automatically saved.



Vacuum presets should be discussed with your prosthetist to ensure safe and optimal operation of your Coyote Connect.

Using your Coyote Connect App

1. Select left or right, to choose which device you are controlling
2. Target Vacuum is shown in blue text, as well as the blue slider. The blue slider can be moved to adjust the vacuum level manually.
3. Actual Vacuum is shown in white text, as well as the green slider.
4. Vacuum presets can be selected and will be highlighted blue when active.
5. Indicated Bluetooth connection status.
6. Indicates battery level, as well as charging status.
7. Main button to switch between “STANDBY” mode and “ON” mode.
8. Home page, used to control the device.
9. Pair page, used to connect devices.
10. Preset page, used to adjust presets and change language.
11. About page, used to view tutorial videos.



General functions

There are three power states that can be changed with the power button (small black button near the USB C port:



Short press changes the device from ON/STANDBY mode. A short press will buzz twice, indicating the mode change.

- **ON** – Bluetooth is activated, vacuum level will be read, and pump will be activated if the vacuum level falls 1-2 inHg below set value.
- **STANDBY** – Bluetooth is activated, vacuum will be read (but at a slower interval), and pump will not activate.
- The device can be turned from **ON** to **STANDBY** mode within the app as well. By pressing the Apps On/Off toggle switch.
- In **STANDBY** mode, battery will last 2-3 weeks.
- In **ON** mode, battery will last 1-2 days depending on patient usage. We recommend charging the device every night.

5-second-long press turns the device off. The device will buzz three times, indicating it is in the OFF mode.

- Bluetooth will be turned off, as well as the pump and all sensors.
- Used for long term storage of the device. Battery will last 2-3 months.
- From the factory, the device will be in "OFF" mode. Please short press the button once to turn to ON/STANDBY mode.

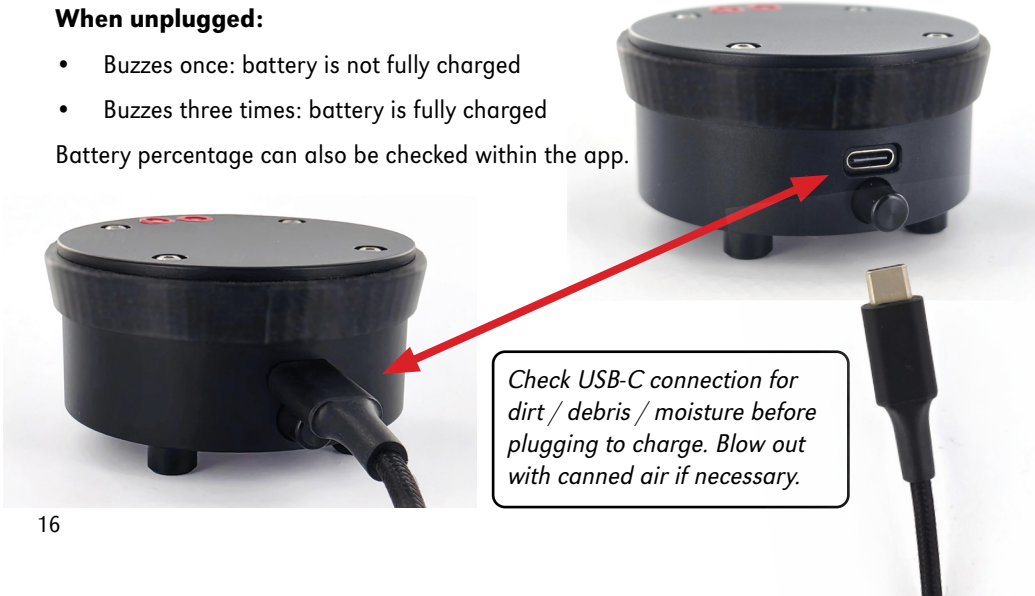
Charging

When plugged in, the device will buzz once, indicating it is charging.

When unplugged:

- Buzzes once: battery is not fully charged
- Buzzes three times: battery is fully charged

Battery percentage can also be checked within the app.



Check USB-C connection for dirt / debris / moisture before plugging to charge. Blow out with canned air if necessary.

Release valve



On the opposite side of the USB-C and power button is a release valve. This can be used to release vacuum from the socket.

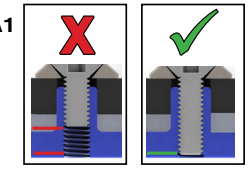
To release the valve turn it a half turn, counter clockwise. After doffing be sure to re-tighten the release valve clock wise, hand tight. Never completely remove the release valve except when removing or installing the Connect™ from the socket.

One way valve

There is an internal check valve within the device. In the unlikely event of power failure, the device will still provide one way suction for the patient.

⚠ ATTENTION

A1



Always, LOCTITE
and torque to manufacturer specifications.

A1 Use the 6x20mm screws provided with typical components. In atypical setups, longer screws may be needed. Always use screws class 10.9 or better.
Make sure screw length fully seats into Connects base not just post, longer screws may be needed depending on pyramid thickness.
Torque provided Connect™ screws to 10Nm.

A2 Always use screws provided during lamination to ensure proper depth is created for attachment.

A3 Lay-up instructions are helpful hints on how to work with the Coyote Connect™. Actual lay-ups are responsibility of the technician and/or practitioner.

Maintenance / Cleaning Instructions





- Replace the secondary filter disk on a regular basis or as needed.
- If pump function decreases the pump should be sent back to Coyote® O&P Inc. for evaluation and repair. Pump repairs and debris removal are NOT a warranty item.
- The filter on the Coyote Connect™ can be replaced as needed. IT IS CRITICAL THAT NO DEBRIS GETS INTO THE INTAKE
- There is no sterilization required for any components of the Coyote Connect™ System.

Coyote Connect™ Waterproof Use and Care Instructions

The Coyote Connect™ is rated for fresh water immersion only.

If water and/or debris get through the patients liner sleeve and into your socket while in water, please do the following. Only needs done for dirty water or salt water or chlorinated water.

(IP28 rated products only)

1. Turn off your vacuum device.
2. Remove socket from limb.
3. Remove silicone distal pad. Rinse off pad, and dry with a clean towel.
4. Remove the white filter pad.
5. Rinse inside of socket with a shower or hose. Pour out water.
6. If you suspect contaminated water (dirt, salt, etc.) has entered the puck:
    a. Pour distilled water into the socket.
    b. Turn the puck on for 30 seconds, allowing clean water to run through the pump.
    c. Dump out any excess water. Allow the pump to run dry for another 30 seconds.
    d. Turn the puck off.
7. Dry the inside of the socket with a clean towel. Allow the socket to fully dry.
8. Place a new filter pad (shiny side up, felt side down) in the bottom of the socket and replace the silicone distal pad.

IMPORTANT SAFETY NOTICE: CHARGER IS NOT WATERPROOF

- Never use or charge your Coyote Connect™ near water.
- The Charger is not waterproof.
- Do not submerge the charger or expose it to moisture.
- Water exposure can lead to serious injury, electric shock, or death, and will void the charger's warranty.

Coyote Connect™ Water Resistance Information

Your Coyote Connect™ is waterproof according to the IP28 standard when used in fresh water only:

- Water depth limit: Up to 10 feet (3 meters)
- Time limit: Up to 12 continuous hours
- The Coyote Connect™ is not designed for use in salt water, murky water, swimming pools, hot tubs, or other corrosive liquids.
- If exposed to rain, splashes, or humidity, dry the Coyote Connect™ thoroughly.

After Water or Outdoor Activity

1. Check the Charge Port for water or debris.
    - Wipe with a clean, dry cloth, or
    - Use compressed air to remove any particles.
2. Always ensure a white filter disc is in place.
    - If the Coyote Connect™ gets wet, replace the filter disc—especially if visibly soiled.
    - Regular replacement: every 30 days or more frequently depending on activity or exposure.

Avoid These Activities

The Coyote Connect™ is not recommended for use during:

- Skydiving, martial arts (karate, judo), or similar high-impact sports
- Any activity that may damage a natural limb
- Activities involving salt water, chemicals, or extreme environments
- These activities are considered "high risk and abusive" and will void the one-year warranty.

Managing Sweat and Moisture

Excessive sweat can lead to internal corrosion of your Coyote Connect™ over time.
To reduce this risk:

- Dry your residual limb regularly throughout the day.
- Use sweat management techniques recommended by your clinician.
- Change filter more frequently.
- Coyote Connect™ refurbishing service by Coyote is recommended yearly for cases of extreme perspiration.

Do Not Open or Disassemble the Coyote Connect™

- The Coyote Connect™ contains no user-serviceable parts.
- Opening or tampering with the Coyote Connect™ will void the warranty.

Need Help?

If you have a concern with your Coyote Connect™—especially after it has been exposed to water or debris—stop use and contact Coyote for further support and instructions.

ENVIRONMENTAL

Ingress Protection Rating - IP28
Operating Temperature - -40C to 85C

Tips and Tricks

1) To minimize the chance for air leaks between the sealing sleeve and the socket—place a elastic Velcro™ strap over the distal aspect of the sleeve to improve the air seal between the sleeve and socket.
2) Reflect fabric covered liners down at least 3" to create a viable sealing area.
3) Never try to seal the sleeve to bare skin



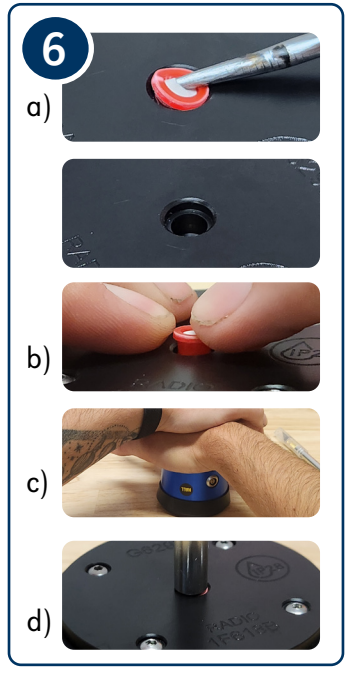
4) Replace the secondary filter disk on a regular basis or as needed.
5) ONLY use lubricant when installing the Connect™. Dow Corning 111 Molykote™. Any other lubricant will dry up and lock the Puck into place permanently.



6) Replace the red intake filter in the puck lid if the Connect™ stops working or if Coyote™ determines it is needed.



a) Use a dental hook to pry the filter and remove it.
b) Press the filter hard with thumb to set in place.
c) Flip the Connect™ over and press against clean flat surfacer, filter should pop in place.
d) Take small round object about the same circumference as filter and press in place until it is flat against the surface of the Connect™.



Characteristics

Pressure Range	20 in HG maximum (dependent on altitude)
Accuracy	1.5 inHg

Electrical Specifications - Coyote Connect™

Operating Voltage	5V DC
Operating Current	0.7mA minimum | 300mA maximum

Battery

Battery Technology	Rechargeable Lithium Polymer Battery
Battery Capacity	800mAh
Battery Model	
Time Between Charges	24 hours max

Liner Configurations / Recommendations

Any liner configuration can be used with the Connect™. This includes:

- Any silicone or urethane liner with an available sealing surface of 3" or more. (Used with a sealing sleeve configuration)
- The Otto Bock™ Anatomic 3D PUR liner is a great polyurethane choice.

Liner reflection method (for use with fabric covered liners): We primarily use Ossur™ Dermo / Activa liners with a sleeve suspension. The liner is left long and the top half of the liner is reflected down such that the silicone faces outward. The suspension sleeve is then rolled onto the reflected liner portion (at least 3"of sealing surface) to solidify the air seal. We **DO NOT** recommend thermo elastomer gel liners or any gel liner for vacuum systems.

Sleeve Recommendations

The general rule for sleeve selection is to choose sleeves that are tight and sticky. Remember we are trying to keep air molecules out of the socket this needs to be an intimate fit! We recommend the following sleeves:

- Ossur™ Iceross Sleeve
- ThermoPly™ Sleeves
- OttoBock™ ProFlex Sleeve (must remove powder)

INITIAL PUMP WIND UP

1) Once the Connect™ is turned ON:
2) The pump will run constant for a about 20-30 seconds and then shift to short bursts as it finds pockets of air trapped in various places in the system.
3) Massage the upper and lower sleeve to the liner to help solidify the exterior seal while the pump runs.
4) After the initial air evacuation the pump will go silent. The actual pressure reading will display a constant number (The selected and actual should read the same). The pump may go into short bursts as the user walks with the system evacuating the last air pockets.
5) Ensure release valve is tightened. Vacuum level should remain constant after a very short period of time. If the pump runs constantly or keeps cycling:
(1) There is a hole in the sleeve
(2) The sleeve is not adhered to the socket properly
(3) The sleeve is not adhered to the liner properly.
Typically the pump will run one to two times every hour for a 1-2 second burst. This indicates that there is a good proximal seal.
The ONLY place the socket can leak is at the proximal seal. The distal aspect of the socket is completely sealed. The sleeve will NOT seal to skin.

FINDING MAX VACUUM LEVEL

1) Find the Max Vacuum level at your altitude. Start the pump at 13 in/hg.
2) Use the slide bar to select a vacuum level of 13. Hit the SET VACUUM button to confirm the level setting. Leave the Pump in the ON position.
3) Gradually bump up the vacuum setting 1 inHg at a time. Allow the pump to run and stop once it has reached the appropriate level.
4) When the max vacuum level has been exceeded the pump will continue to run.
5) Back the pump setting down 1-2 inHg this will be the max vacuum setting. We recommend saving this number as the SPORT mode setting.

Typically max vacuum is:

SEA LEVEL 18-20 inHg

ALTITUDE 16-18 inHg

SHUT DOWN PROCEDURE

To turn off the Connect™ touch the ON / OFF toggle switch at the bottom of the home page of the app. OR Use the physical button to turn off the system.
NOTE: It is NOT necessary to disconnect the BLUETOOTH when turning off the App. We recommend leaving the BLUETOOTH linked all of the time. ALWAYS TURN THE CONNECT™ OFF BEFORE THE PROSTHESIS IS REMOVED.

AUTOMATIC PUMP SHUT OFF

The Connect™ has an automatic pump shut off. If the pump runs constantly for 90 seconds, the system recognizes the leak and turns the system off .

OPERATING PROTOCOL

There are two ways to use the Coyote Connect™ system.

ACTIVE: Set the vacuum level and leave the Coyote™ App in the ON position. This method will maintain the specified vacuum level all day long. The system will drop 1-2 inHg and then restart the pump to reach the selected vacuum level. The primary factor with this method is the residual limb will be under constant STEADY vacuum (no fluctuation in pressure). With this method most patients choose a Medium level of vacuum, typically 8-12 inHg.

SLEEPER: Set the vacuum level to the desired amount of vacuum. After the selected vacuum level has been reached TURN OFF the Coyote™ App (on/off toggle center bottom box of screen). The vacuum level will bleed down naturally over the course of the day, however, the system is very efficient and the vacuum level should hold for long periods of time. The user simply turns on the vacuum pump when more vacuum is needed. This protocol extends battery life and can be more discreet for the user.

Warranty Terms

Coyote® O&P warrants all of its products and services, to the original purchaser, to be free from defects in materials and workmanship. This warranty applies, subject to normal wear and tear, when the products are used as intended, without modifications, and following all of Coyote® O&P instructions and requirements.

The duration of our Limited Warranties is 12 months effective from the date of receipt. Coyote® O&P sole obligation under this Limited Warranty shall be to repair, replace, or refund the cost of the item to the original purchaser, at Coyote's sole discretion.

This limited warranty does not cover : Clogged or obstructed electric pumps /plumbing, damage due to accidents, pump failure due to inadequate filtration/pump maintenance, neglect, misuse, operation beyond capacity, use of internal mechanical seals, parts damaged by improper installation/removal, any alteration or repair by other than Coyote®. Damage to the Connect™ from trying to pound or pry the Connect™ out of the socket (scratches, dents, evidence of tool use) completely void the warranty of the device.

Use of this product is not a guarantee against injury. This Limited Warranty excludes liability for any personal injury, property damage, or special, incidental, or consequential damages arising out of, related, or incident to use the product, even if Coyote® O&P Inc. has been advised of the possibility of such potential loss or damage, unless state law otherwise precludes this exclusion.

Return Policy

Please inspect all orders immediately upon receipt. In the event items were ordered or shipped in error, you must notify Coyote® O&P Inc., for a return authorization number. Coyote® O&P must be contacted within five (5) business days of the receipt of the items.

No returns will be accepted without prior authorization. Due to the computerized nature of the Coyote Connect™ product and agreements with Apple™ Inc and Android™ the Connect™ can not be returned if the packaging has been opened. Please call 208-429-0026 to obtain a Return Authorization number.

When returning a product for credit or replacement, please provide either the original or a copy of the invoice or packing slip.

Credit or replacement of goods is subject to inspection and evaluation. Coyote® O&P Inc. will not issue a credit or replace any products returned to Coyote® O&P that are not in new or salable condition. The determination about whether returned products are new or salable will be made at Coyote® O&P sole discretion. Altered products are not returnable.

Coyote Connect™ Fabrication Guide

for Internal Elevated Vacuum Systems

Detailed Fabrication Videos at www.coyote.us

No Full Carbon Lamination

See instructions for details

Coyote® O&P Inc. | 1-208-429-0026
www.coyote.us

Coyote. Rev.B.06012026

Standard Puck Mods & Model Prep

CRITICAL STEPS FOR SUCCESS:

1) Nothing should contact the molding dummy in the Red Zone (nylons, build ups, foam etc. This is the surface in which the puck will seal against).
2) The plastic pull must be perfect around the dummy side wall. It is important to get excellent vacuum during the socket forming process.
3) The interior of the void must be glass smooth. Nylon imprints in your plastic can cause a vacuum leak.
4) The socket must be fabricated such that the dummy can be removed (and the Puck installed).

Model Preparation

1) Fill the negative model with the pipe in the correct alignment to capture the socket flexion and AB/Adduction and rotation.



NOTE (2): To maximize the amount of vacuum to the dummy (prior to filling the mold) place surgical tubing or a long party straw along your pipe such that it exits out both ends of the negative impression.

TIP(3): If an extra thick distal pad is desired cut the negative cast on the band saw and splint the negative impression back together with a 3/8" block in between the sections to lengthen the socket chamber.



4) Rectify positive model with preferred standard vacuum reductions and modification technique.
OR (Strongly Recommended)
Use the DP pressure casting method / modification for a great fitting socket with minimal reductions to your positive model. See the full video at: www.coyote.us





Total Contact Options (Choose one)



Option 1 (Recommended): Bond the molding dummy directly to the plaster model for a single wall socket. A total contact pad is injected at time of patient fitting. The distal pad creates a soft distal surface improving patient comfort. The Connect™ also comes with a Distal Cushion that can be used.

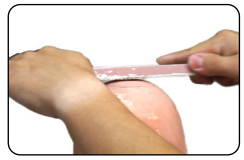


Option 2) Bond the molding dummy to the flexible inner liner.
The flexible inner liner provides total contact and allows for significant offset alignment. Follow the steps below except the Dummy will be bonded to Flexible Inner.

Installing Dummy on Mold



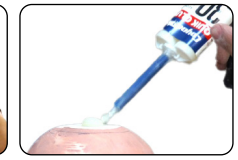
1 Place lock dummy on mold. Trace dummy. Do not use lock as fabrication dummy.



2 Flatten mold to fit the anchor and dummy. Do not flatten beyond the traced lines



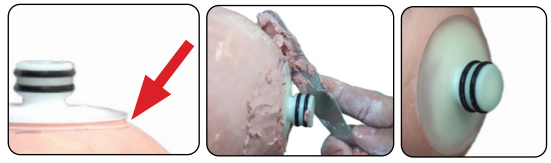
3 Drill 1/2" or 13mm diameter hole. Angle hole to help anchor adhesive.



4 Fill hole in cast with Coyote QUIK GLUE, fast-setting epoxy, or wet plaster mix.



5 Place C55A Anchor in hole and Tooling Dummy until glue sets.



6 If there is a little lip or gap between the anchor and the cast fill it with plaster and smooth it out. If this stage is skipped it will be difficult to remove Tooling Dummy.

Drape Molding Check Socket



7 During blister forming or drape molding, it is recommended to use a vacuum nylon with applicable plastics to improve wicking.

8 Pull Vacuum Nylon over the Anchor, twist and reflect it leaving the Anchor uncovered.



9 Put some Compound 4 or release agent on Anchor O-rings and slide dummy over Anchor.



10 Mark desired positioning. Remove Dummy and glue it on with QUIK GLUE or 5 minute epoxy. Put Dummy back on Anchor in correct position. Orient side screws medial and lateral.



11 Place the adhesive foam dots on the dummy posts and screw posts.





12 Remove any gapping between the dummy and the cast. Shoot a bead of QUIK GLUE into the gap and smooth it out with finger or plaster and smooth it out. Make sure dummy is clean of any glue or plaster.



13 Blister mold socket.



14 Cut out trim lines.



15 Expose and remove small adhesive foam on posts and side screws. Grind distal end of socket flat. Take care not to sand metal posts. Foam can be left in place to act as a guide for flattening.



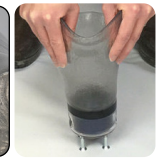
16 Remove socket in traditional fashion or with socket extractor.





17 Shape and finish your edges.



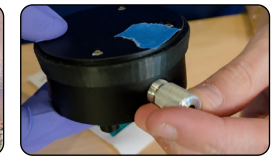


18 Remove the two large tooling side screws.

19 Keep part of the screws unthreaded. Hold on to the socket and force your weight against the screws. This should remove the dummy. Use the removal screws for more length



20 Cover intake filters with tape to avoid getting Molykote™ Lubricant on them while installing.



21 Unscrew and remove release valve, avoid getting an debris in the hole.



22 Detach the push button with pliers



23 Put a small amount of Molykote™ on your finger. Less than a pea size.



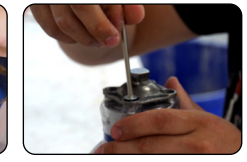
24 Lightly Lubricate the the O-ring ensuring ensuring not to get it on other parts of the Connect.



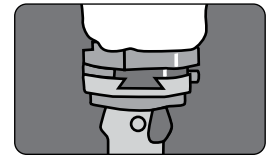
25 Drop into socket and line up 4 hole pattern.



26 Attach pyramid with supplied 6mm x 20mm screws. Then remove them. This should seat the Drop-In.



27 Use a pyramid do with the screws to pull the Connect in place.



28 Use Coyote alignment coupler CD106 for alignment during fitting.

Typical Coyote® components use 6x20mm screws provided and Loctite® Blue 242 when attaching pyramid. Torque provided connector screws to 10 Nm. (See Attention for more information)

Creating a Flexible Inner for your Lamination

For your flexible inner prepare your cast and dummy as you do in steps 1 through 13

29 After blister forming your socket. These steps will depend on what suspension style your patient is using.

29 **Seal in Gasket** - what ever surface is touching the seal must bond with or be touching the seal on the Coyote Connect™ System. If using an inner flexible it must maintain contact with the gasket on the Coyote Connect™ system.

30 Expose distal end of the dummy.









31 After removing the plastic from the distal end if you don't feel you have a good seal you can use cellulose Acetate over the edge between the plastic and exposed dummy or cut the flexible inner a little farther down and pull a first inner PVA bag over, heat shrink it, and tape the area off so no resin seeps through the crack between the flexible inner and the dummy.

32 Make sure to leave at least a 1/4" or 6mm buffer from the seal ring on the dummy. Buff the edge. Make sure the side set screws have a foam dot covering them or putty filling them

Note: When finished you will want to mechanically fasten the inner flexible to the frame so it doesn't move with a Chicago screw or rivet or some other manner.

You can create a socket without an inner flexible as well for a seal in or suspension sleeve. Just make sure you use an epoxy resin like ER Resin.

Creating a Floating Flexible Inner for your Lamination - Suspension Sleeve Only



41 For a Floating Flexible Inner cut the plastic between the dummy and the cast



You can have a floating inner flexible if the patient wears a suspension sleeve, because the suspension sleeve is providing the seal not the gasket.



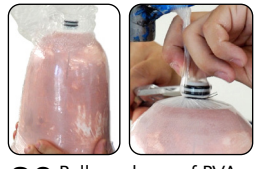
Removing the dummy helps to cut the Floating Inner Flexible down to the anchor to smooth up on the grinder.
Continue forward with instruction on Laminating with Tooling Dummy section.



Laminating with Tooling Dummy



29 Pull one layer of vacuum nylon. Tie it off to the anchor and cut away the excess nylon.



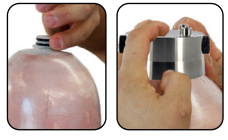
30 Pull one layer of PVA bag. Tie it off to the anchor and cut away the excess PVA bag.



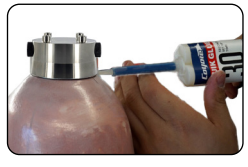
31 Lubricate screw threads with Compound 4 to keep resin from seeping into tooling.



31 Run an even bead of QUIK GLUE around edge of Tooling Dummy to keep resin from seeping in.



32 Put Compound 4 or release agent on O-rings. Put Tooling Dummy on Anchor and adjust for proper positioning.



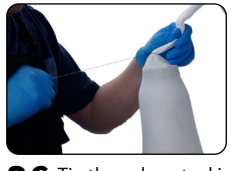
33 Use Quik Glue or plaster to fill any gaps on the edge of tooling and smooth out. This will help with removing the tooling after lamination.



34 Pull and reflect nylon over tooling and cast.



35 Pull the nylon stockinette, or other materials, over the Tooling and mold.



36 Tie the nylon stockinette and reflect it.



37 Ensure holes of Connect are exposed. A hot nail or awl can be used.



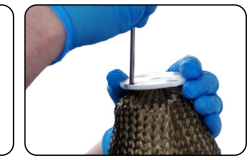
38
Reinforce with carbon tape between posts.



39 Pull composite over the socket. Tie off the composite and reflect it for a second layer of composite over mold.



40 Ensure the Tooling posts are exposed.



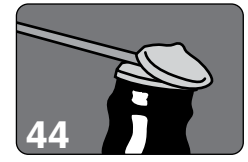
41 Lubricate screws and install five hole plate. (See Attention #4)



42 Pull bag and laminate as usual. Initially restrict flow to force lamination through the center hole on plate, forcing out air pockets.



43 Toward end of lamination, tape can be placed over five hole plate to squeeze excess resin out of lamination.



Expose edge and remove excess lamination.



Remove five hole plate.



Expose side Fab Dots and tooling screws on dummy and remove.

NOTE: The exterior bottom surface of the socket must be parallel to the interior bottom surface of the socket. This will eliminate shear forces to the attachment screws.

47 Break out plaster model & remove molding dummy.

Basic 3D Printing Instructions

1 Prepare final digital medium for lock attachment with your standard modifications.

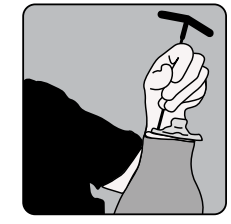
2 Place digital dummy on distal end of the model in accordance with standard procedure. Digital dummy should be flush with end of socket for best fit.

3 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 the responsibility of the technician and/or practitioner.

Finish 3D

5 Wipe down O-ring on Coyote Connect™ Drop-In Housing with Molykote™ before inserting.



6 Press puck into place and attach pyramid with supplied installation screws.

7 Attaching pyramid to connector will draw lock into place.

8 Use 6x20mm screws provided and Loctite® Blue 242 when attaching pyramid. Before torquing screws to specification hand tighten all four screws. Do not torque single screw by itself. Torque provided connector screws to 10 Nm.

Attaching the Molding Dummy - (Part # C55D)

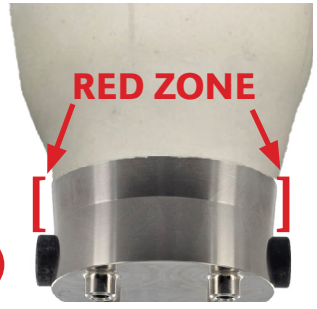


7) Apply Tape to the dummy to keep the sealing surface clean and protect the dummy during the plastering process.



8) Fill the transition between the dummy and model with plaster or similar medium.

Remove tape after plaster application and smoothing.
Note: Ensure transition buildup is smooth and cosmetic. The transition must allow for removal.



9) Ensure there is nothing contacting the molding dummy on the RED ZONE. Especially from the scribed line on the dummy to the proximal end (side opposite the four hole pattern). Any material in this area could affect the seal (nylon, seams, etc.).



10) Model is now ready for fabrication. Proceed to Thermo-FAB or LaminationFAB Sections.
OUTER SOCKET MUST BE PLASTIC OR PETG TO BE AIR TIGHT or use an airtight epoxy resin like PRS™ ER Epoxy Resin or Fabtech™' Restech™

For Detailed Fabrication Videos visit www.coyote.us

Check Sockets & Thermo Plastic Fabrication



1) Install Blue dots on posts and ends of Allen Tooling Screws.



2) Reflect and tie a vacuum nylon (Pace Line Feather Stretch) at the base of the molding Dummy and reflect over model. The nylon should NOT be placed on the dummy. Nylons can create an imprint in the plastic and cause a vacuum leak.

NOTE: Keep the **RED ZONE** free of nylons, plaster and tape. This is the sealing area the plastic must form directly to the dummy to create a SMOOTH sealing surface.



3) Blister Form OR-FIT Trans Stiff Thermoplastic socket by twisting the plastic in the frame as it is pulled down over the dummy and model. Wrap the plastic directly against the molding dummy. No nylons, tape or plaster should be on the side wall of the molding dummy.



4) Use a flat disk to compress the distal end of the pulled plastic. Work the Plastic around the cap screws to ensure there is no gapping around the screws.



5) Examine the plastic pull to ensure it is in perfect contact with the molding dummy body (especially in the sealing area). This is the sealing surface for the Connect™ and must be glass smooth.

NOTE: Repull the socket if this criteria has not been met.

NOTE: ***Check socket*** material MUST be OR-Fit Trans Stiff (Curbell Plastics) or Thermolyn Stiff (OttoBock).
DO NOT USE PETG, Vivak, Durplex for check sockets (THESE MATERIALS CAN CRACK CAUSING A SAFETY HAZARD TO THE PATIENT.)



6) Grind the plastic down to the posts and tooling screws without grinding them and remove the foam dots..
Keep distal surface parallel to the dummy surface.
The Exterior distal surface should be parallel to the interior distal surface to eliminate stress to the attachment screws.



7) Break out Plaster model and remove the molding dummy. NOTE: Use Long Screws to push Dummy out if necessary.



8) Clean up holes without enlarging them.



9) Grind down to side tooling Medium Foam Dots. Smooth and finish the holes without enlarging.



10) Install the distal injection tool to inject a custom distal cushion with patient in socket, review instructions on topic.





11) Or install provided Distal Cushion.

Laminated Socket Fabrication

ATTENTION: DO NOT USE CARBON FIBER with the Coyote Connect™ USE Coyote Composite, Synthex, NSP.

Use Connect Molding Dummy (Part #C55D)

Note: PETG works great if you're using a regular resin. If you use ER Resin or another vacuum tight resin they work well without PETG. If you are using a vacuum tight resin use a very fine knit material on the interior of the socket so it is saturated and creates a perfectly smooth sealing surface rather than the lumps and bumps of a braid.



1) Reflect and tie a vacuum nylon (Pace Line Feather Stretch) at the base of the molding Dummy. The nylon should NOT be placed on the dummy. Nylons can create an imprint in the plastic and cause a vacuum leak.

NOTE: Keep the RED ZONE free of nylons, plaster and tape. This is the sealing area the plastic must form directly to the dummy to create a SMOOTH sealing surface.



2) Begin by pulling a 3/16" PETG inner socket (hot PVA) in a 16"x16" frame. Twist the plastic as the socket is pulled to help wrap the plastic around the dummy.

Plastic must be pulled so there is perfect contact around the molding dummy body. This is the sealing surface. It is critical the plastic conforms tightly to the sidewall of the dummy and is glass smooth on the interior. PETG is required for an airtight socket if not using Epoxy Resin such as ER Resin.

3) Scratch up the outer surface of the PETG liner to facilitate a good resin bond. DO NOT PUNCTURE PETG LINER- This will cause a vacuum leak.

Cut the PETG at 1/4" below the distal end or above the Red Line area and remove the excess plastic





4) Cut the PETG from about 1/4" from the bottom of the of the dummy or cut it up to just below the line for the seal, where the tooling starts sloping out into the Red Zone area.
NOTE: The PETG must maintain contact with the gasket. Remove the plastic that is cut away so the socket resin will have a tight fit against the dummy housing.

5) Fill all holes and voids with Dow Corning electrical insulating compound #4 or machine wax (generously). This will prevent resin from getting under PETG and in the dummy.



23) The socket is now ready for patient fitting.
Install the distal injection tool to inject a custom distal cushion.

OR

Install the Coyote Connect™ Distal Filter and the provided Distal Cushion.

ATTENTION:
Lay-up instructions are helpful hints on how to work with the Coyote Connect™ . Actual lay-ups are the responsibility of the technician and/or practitioner.
Apply Blue Loctite™ 242 to screws and Torque to10Nm.

Methods for Total Contact In the Distal End of Socket

Using the Distal Injection Tool Part# C55DI

Option 1
Injecting a Custom Distal Pad for Coyote Connect™

1) Fabricate socket to completion such that it is ready to be fit on the patient.

NOTE (2): There must be 4 holes drilled in the bottom of the socket 4 hole Euro pattern. The bottom of the socket should be flat and level.





2) 4 Hole Pattern and side holes are required to inject silicone and for proper Puck function.



4) Insert the taller portion of the injection tool into the socket. 9 Hole pattern facing up.



5) Secure the injection port to the bottom of the socket by having the patient don the socket and put weight against the injection tool.

NOTE: The injection port should face one of the side holes.



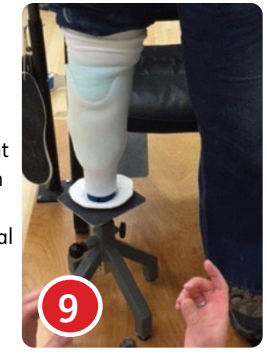
6) Test fit the socket to ensure the correct sock ply is used such that the patients limb is not too deep in the socket and is in the correct orientation. The distal end of the socket is now ready to be injected.



7) Place a Saran Wrap™ barrier over the patient's limb, liner and socks.



8) Apply a vacuum nylon over the covered residual limb. Orientate the seam anterior/posterior.
An orientation mark can also be placed on the nylon (this mark & nylon will become embedded in the silicone pad).



9) In the parallel bars have the patient bear weight (50/50) in the socket with the socket supported by a limb stand with a Pe-lite pad or other soft material as an anti-slip agent.

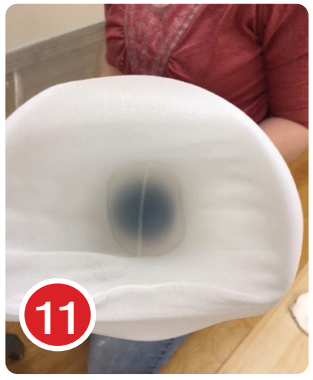


10) Inject Renew Silicone 5 or similar (1 minute set silicone) until the void in the socket is completely filled. Have the patient stand on the socket squarely so the silicone does not drain out of the air escape holes in the bottom of the socket. Allow silicone to cure (4-5 minutes).





Cleaning the Injection Tool
Turn the bottom of the Injection Tool to the unlocked position to open it for cleaning. Remove any residual silicone before reusing the tool.



11) Remove socket after silicone has setup. Mark the anterior alignment of the pad.



12) Disassemble the distal end injection tool with large flathead screwdriver.



13) Remove and trim the distal end pad.



14) Punch a 1/2"CENTER HOLE in the pad to allow vacuum to pass through the silicone.

Option 2 - Flexible Inner Liner



1) Pull inner socket out of desired material.

2) Follow steps 5-10 in the Model Prep Section of this manual (Attaching the molding dummy).

The Molding Dummy setup is identical over a flexible inner liner.

TIP: Consider using a PVA to help separate the socket materials. Ensure the PVA bag & vacuum wicks are not on the molding dummy.

For alternative methods, contact Coyote O&P Inc.



See www.coyote.us for instructional videos on injecting a distal pad.

Transferring Alignment

IMPORTANT: To transfer alignment or to convert a check socket to a laminated socket THE PUCK MUST BE REMOVED from the socket and replaced with the Combo Molding Dummy.

1) Place the Socket with alignable components the in vertical jig. Mark and remove the external hardware connecting the socket (this will be reinstalled once the Puck is replaced with the molding dummy).

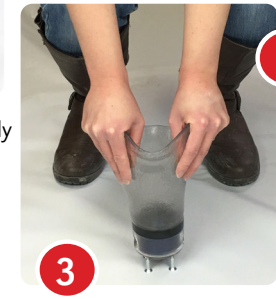


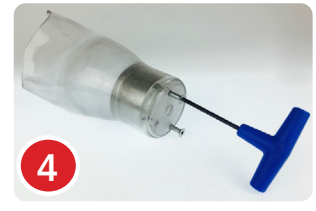
2) Remove the Puck from the socket by installing long screws into the Puck through the socket.



3) Place the socket on the floor and apply full body weight on the socket. The Puck will unseat slowly. This process can take 30 seconds.

DO NOT TRY TO BANG OR BEAT THE PUCK OUT OF SOCKET. This will damage Puck and void warranty.





4) Lubricate the dummy. Use 6x40mm screws to pull the dummy all the way back down into the socket.



5) Reinstall the connecting hardware to the socket place Socket back in vertical jig.

7) Fill the check socket in the vertical jig.

It is not necessary to fill the socket with the Distal end pad in place. Leave the interior of the socket flat to avoid having to redo the plaster transition between the dummy and the model. The same distal pad that was made in check socket can be used in definitive.



NOTE: If the alignment is OFF by a significant margin it maybe advisable to fill the socket with the distal pad in place(on top of the molding dummy). If the alignment position of the Puck is moved significantly it will be necessary to reinject the distal pad.

8) Once the plaster has set remove the model from the jig. Cut off old test socket and place the model back in the vertical jig.



9) Remove the molding Dummy and attach it to the original connector & components in the vertical jig.





10) Place the Dummy back in the vertical jig. Neutral out Molding Dummy & components.



11) Bond Molding Dummy to the plaster model in the vertical jig. (Space Dummy away from model to create a thicker distal end pad).



12) Tape Dummy and fill the transition between the dummy and the model.
(SEE MODEL SETUP GUIDE, Page 34)

Warranty Terms

Coyote® O&P Inc. warrants all of its products and services, to the original purchaser, to be free from defects in materials and workmanship. This warranty applies, subject to normal wear and tear, when the products are used as intended, without modifications, and following all of Coyote® O&P Inc. instructions and requirements.

The duration of our Limited Warranties is 12 months effective from the date of receipt. Coyote® O&P Inc.'s sole obligation under this Limited Warranty shall be to repair, replace, or refund the cost of the item to the original purchaser, at Coyote® O&P Inc.'s sole discretion.

This limited warranty does not cover : Clogged or obstructed electric pumps/plumbing, damage due to accidents, pump failure due to inadequate filtration/pump maintenance, neglect, misuse, operation beyond capacity, use of internal mechanical seals, parts damaged by improper installation/removal, any alteration or repair by other than Coyote® O&P Inc. judgment, materially that adversely affects the product. Damage to the Puck from trying to pound or pry the Puck out of the socket (scratches, dents, evidence of tool use completely void the warranty of the device.

Use of this product is not a guarantee against injury. This Limited Warranty excludes liability for any personal injury, property damage, or special, incidental, or consequential damages arising out of, related, or incident to use the product, even if Coyote® O&P Inc. has been advised of the possibility of such potential loss or damage, unless state law otherwise precludes this exclusion.

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