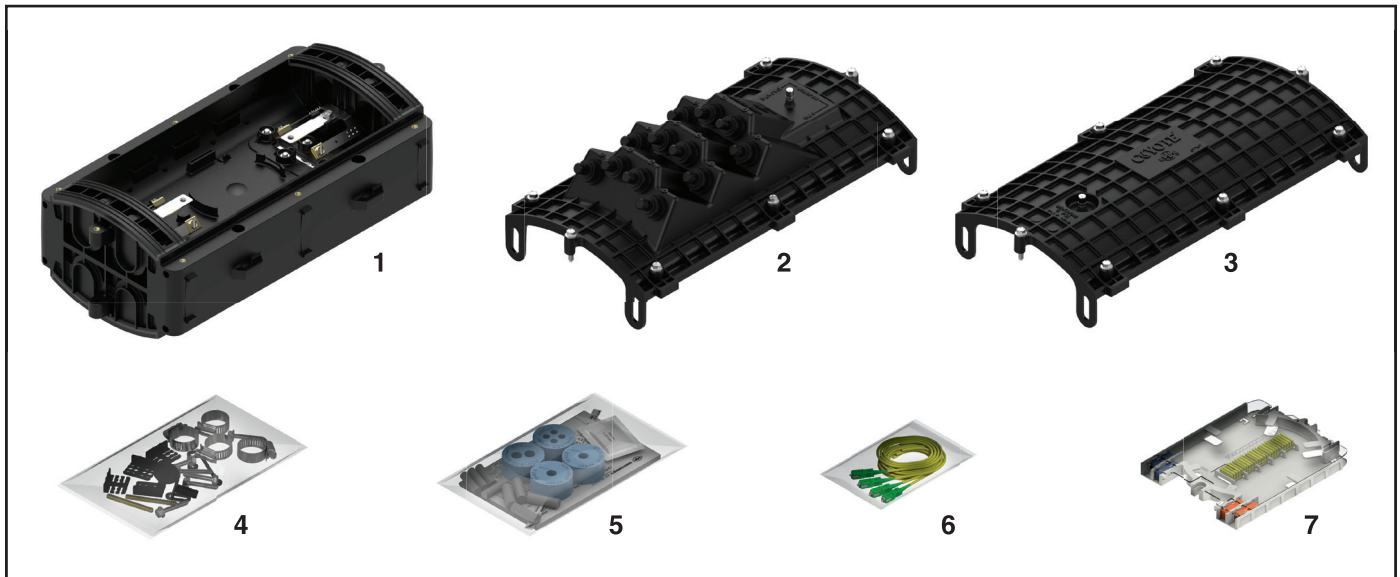# COYOTE® Terminal Closure - Dual Chamber for Terminal Applications

Be sure to read and completely understand this procedure before applying product. Be sure to select the proper PREFORMED™ product before application.

NOMENCLATURE

1. Dual Base with End Caps (1)
2. Terminal Cover - 12 Port Shown (1 or 2)
3. Standard Cover (0 or 1)
4. Small Parts Bag (2)
5. Grommet Kit - Includes 4 Grommets (1)
6. Pigtail Kit (1 - 6)
7. Short Deep Profile LITE-GRIP® Splice Tray (2)

TOOLS REQUIRED

- 3/8" & 7/16" Can wrench or socket wrench
- Side Cutters
- Snips
- Fiber optic cable opening tools
- Utility knife
- Pliers

COYOTE Splice Tray Capacity Chart for COYOTE Dual Chamber Terminal Closures					
PLP Catalog Number	Description	Image	Splice Type	Max Trays per Closure[1]	Closure Max Splice Capacity[1]
80809958	Short Low Profile LITE-GRIP® Splice Tray (24ct)		Single Fusion	8	192
80813152	Short Low Profile LITE-GRIP Splice Tray (36ct)		Single Fusion	8	288
80808945	Short Deep Profile LITE-GRIP Splice Tray (40ct)		Single Fusion	4	160
LGSTR144	Short Deep Profile LITE-GRIP Splice Tray (144ct)		Ribbon/Mass Fusion	4	576

[1]To meet the stated splice tray and splice capacities, order a Drop Chamber Conversion Kit (Catalog Number 8003695).

COYOTE® Dual Chamber Terminal Closure Kits							
Catalog No.	Cover 1 Port Qty.	Adapter Qty.	Plug Qty.	Cover 2 Port Qty.	Adapter Qty.	Plug Qty.	Description
80061029	6	6	0	Standard	N/A	N/A	COYOTE Dual Chamber Terminal Closure Kit - Inlcudes 6 OptiTap™ Adapters
800011830		6	0	6	6	0	COYOTE Dual Chamber Terminal Closure Kit - Inlcudes 12 OptiTap Adapters
8006991	9	8	1	Standard	N/A	N/A	COYOTE Dual Chamber Terminal Closure Kit - Inlcudes 8 OptiTap Adapters
800012140		9	0		N/A	N/A	COYOTE Dual Chamber Terminal Closure Kit - Inlcudes 9 OptiTap Adapters
800012605	12	12	0	12	12	0	COYOTE Dual Chamber Terminal Closure Kit - Inlcudes 24 OptiTap Adapters
800011839	Standard	N/A	N/A	Standard	N/A	N/A	COYOTE Dual Chamber Terminal Closure Kit for Direct Splice Applications
8006956		N/A	N/A		N/A	N/A	COYOTE Dual Chamber Terminal Closure Kit with Internal Bulkhead with 6 SC/APC Adapters

PLP Catalog Number	Description
Accessory Kits for COYOTE Dual Chamber Terminal Closures	
8003733	End Plate Kit - Includes (1) End Plate, (3) Bolts, & (1) Silicone Packet
80807794	Hardware Bag Kit
8003713	Express Bracket Kit - Includes (4) Express Brackets
8003719	COYOTE In-Line RUNT Cover Kit
8003862	Fiber Organizer Kit for Ribbon Fibers
80805293	.13" (3.4 mm) ID Transport Tube Kit - Includes (6) 34" long Transport Tubes for Single Fibers
80806439	.25" (6.4 mm) ID Transport Tube Kit - Includes (6) 34" long Transport Tubes for Ribbon or Single Fibers
80807989	100 ft. Roll of .17" (4.3 mm) ID Transport Tubing for Ribbon or Single Fibers
80807991	100 ft. Roll of .25" (6.4 mm) ID Transport Tubing for Ribbon or Single Fibers
Mounting Brackets for COYOTE Dual Chamber Terminal Closures	
8003705	Adjustable Offset Aerial Mounting Bracket Kit for Strand Applications
8003703	Pole/Wall Mounting Bracket Kit
8003706	Swing Arm for Handhole Applications

| COYOTE Grommet Chart for COYOTE Terminal Closures				
PLP Catalog Number	Cable Range Inches (mm)	Description	Image	Slitting Location
8003691	.40" - .60" (10.2 - 15.2 mm)	1-entry grommet		
8003692	.60" - .85" (15.2 - 21.6 mm)	1-entry grommet		
8003693	.85" - 1.0" (21.6 - 25.4 mm)	1-entry grommet		
*8003694	1.0" - 1.25" (25.4 - 31.8 mm)	1-entry grommet		
8003663	.42" - .60" (10.7 - 15.2mm)	2-entry grommet		
8004065	.250" - .312" (6.4 - 7.9 mm)	4-entry grommet		
8003664	.30" - .43" (7.6 - 10.9 mm)	4-entry grommet		
8003990	.50" - .60" (12.7 - 15.2 mm) .125" - .25" (3.2 - 6.4 mm) and flat drop	4-entry grommet		N/A
8003665	.125" - .25" (3.2 - 6.4 mm) and flat drop	6-entry grommet		
8003676	.42" - .60" (10.7 - 15.2 mm) .125" - .25" (3.2 - 6.4 mm) and flat drop	7-entry grommet		
8004094	.093" - .125" (2.4 - 3.2 mm)	8-entry grommet		
8003677	.125" - .25" (3.2 - 6.4 mm) and flat drop	8-entry grommet		N/A

*8003694: COYOTE In-Line RUNT Closure and COYOTE Terminal Closures' maximum cable diameter range is 1.20".
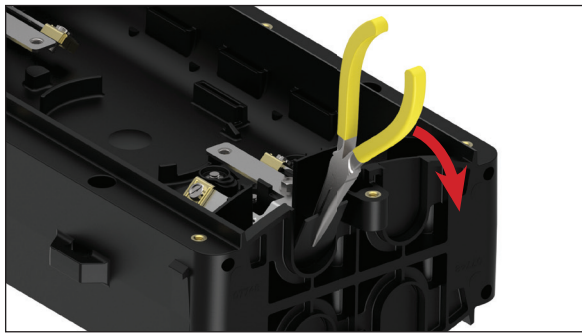
Base Preparation

Step #1   Remove the end plate caps from the base.

Step #2   Determine which cable port tabs will need to be removed from the base and score the edges of each tab several times with a utility knife.
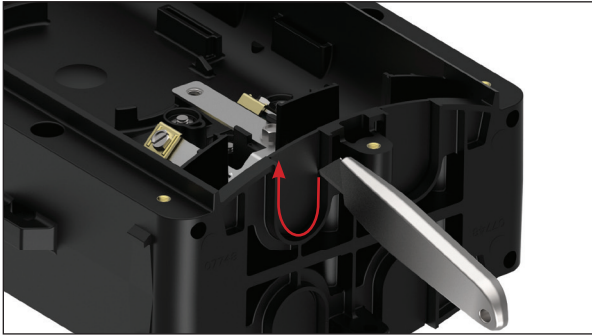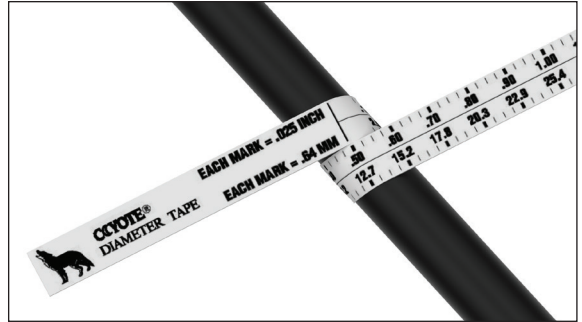

Step #3   Remove each tab by pulling the tab outwards from the base with pliers.
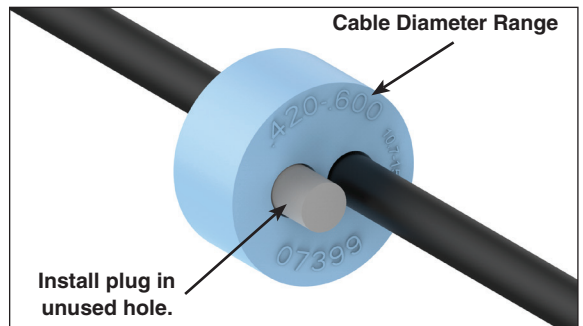

Feed & Branch Cable Preparation

Step #4   Measure the cable to determine the diameter and hole location to use in the grommet.
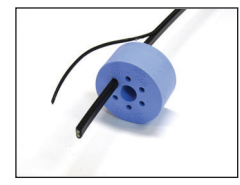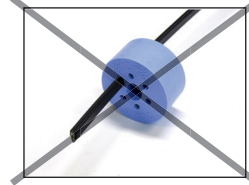

Step #5   If using cut cable, insert the cable through the grommet. If your application requires express/balloon/ring cut cables, **see Step 7 for the grommet slitting procedure.**

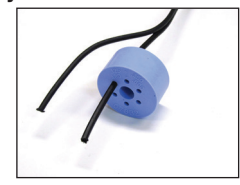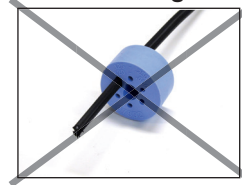Cable Diameter Range

Install plug in unused hole.

Step #6   **Installing Figure 8 Style Cables and Cables with Tracer Wires**

Remove the tracer wire or ground wire from the portion of the cable that will be positioned in the grommet and insert the cable into the grommet. Remove any burrs left from removing the tracer wire of the ground wire from the cable.

Cable with Tracer Wire

Not Correct Installation   Correct Installation

Figure 8 Style Cable

Not Correct Installation   Correct Installation

3

Step #7 **Grommet Slitting** – If slitting is required, lay the grommet on a stable flat surface. Position the utility knife with the cutting edge against the top surface and cut through the grommet. **Consult the grommet chart on page 2 for slitting locations of all grommets.**
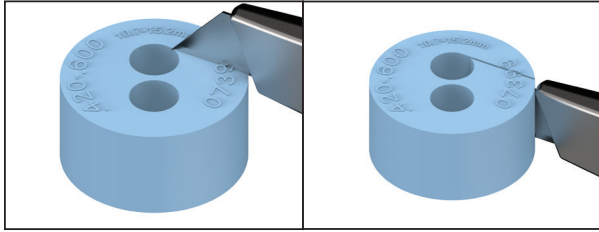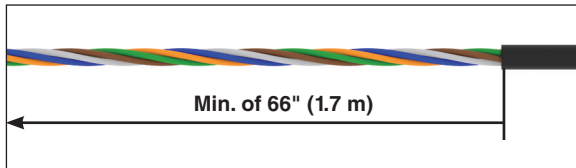

PLP Tip: Use a pen to sketch slitting lines on top surface of grommet prior to cutting.
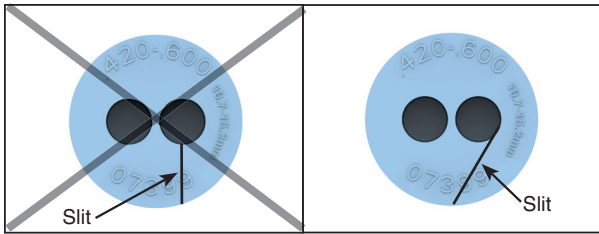
| **Not Correct Slitting Angle** | **Correct Slitting Angle** |

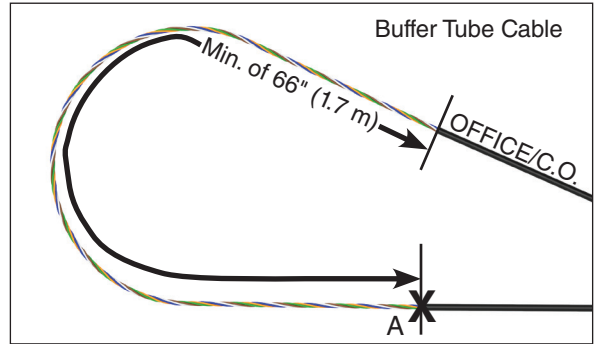**Step #8** Prepare the feed, branch, and/or drop cable(s) for cut applications.

Min. of 66" (1.7 m)

Minimum Sheath Opening for Cut Cable Applications	
66"	1.7 m

NOTE: Leave about 8" (203 mm) of the cable strength member.

Step #9a Prepare the feed cable for mid sheath applications (Express/Balloon/Ring Cut).

Buffer Tube Cable

Min. of 66" (1.7 m)

OFFICE/C.O.

A

For Applications Where Fiber is Dedicated to the Splice Point		
Configuration	Cut Location	Sheath Opening
Unitube/Ribbon Expressed (Mid-Sheath)	A	Min of 66" (1.7 m)

NOTE: Leave about 8" (203 mm) of the cable strength member.

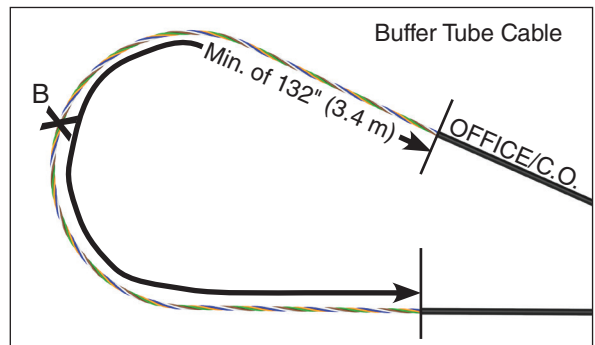**Step #9b** Prepare the feed cable for mid sheath applications (Express/Balloon/Ring Cut).

Buffer Tube Cable

Min. of 132" (3.4 m)

OFFICE/C.O.

B

| For Applications Where Fiber is NOT Dedicated to the Splice Point		
Configuration	Cut Location	Sheath Opening
Unitube/Ribbon Expressed (Mid-Sheath)	B	Min of 132" (3.4 m)

NOTE: Leave about 8" (203 mm) of the cable strength member.

Step #10   Trim the cable strength members 1.5"
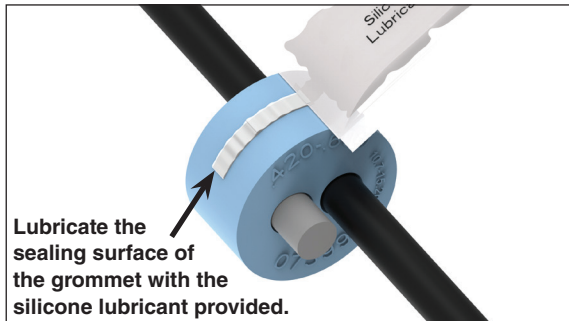(38mm) from the cable sheath opening.

1.5" (38mm)
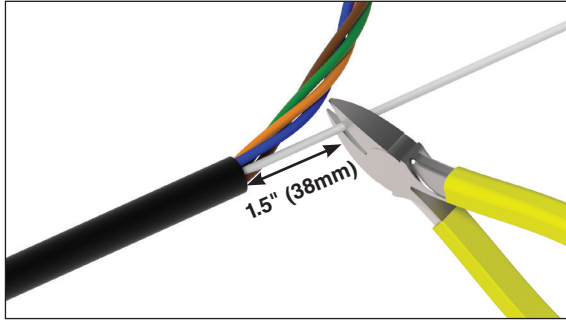
Step #11   Braid roughly 3" (76 mm) of the aramid
yarn and knot the end of it.

3" (76 mm)
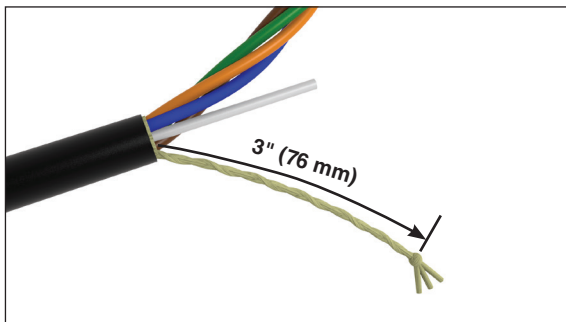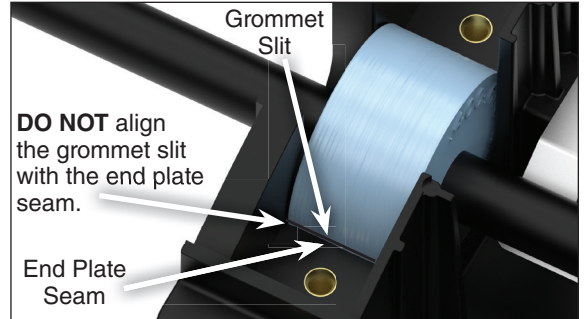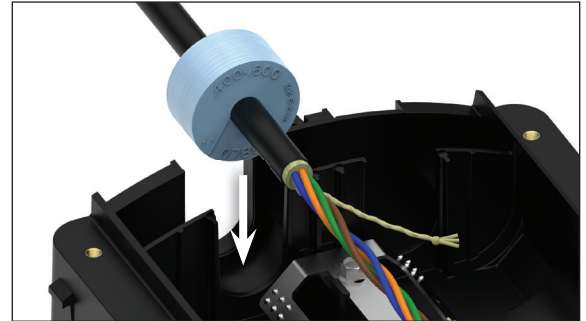
Cable Grommet Installation

Step #12   Lubricate the outer surface of each
grommet. Spread the lubricant evenly
around the outer surface.

**Lubricate the
sealing surface of
the grommet with the
silicone lubricant provided.**

Step #13a   Position the grommets in the slots of the
base.

Grommet
Slit

DO NOT align
the grommet slit
with the end plate
seam.

End Plate
Seam

Step #13b   **FOR IN-LINE APPLICATIONS**

When only one cable port is being
used at an end of the closure, **install
a grommet with plugs inserted in it,
in the unused cable port**. This will
balance the load of the end plate cap.

**NOTE: It is not necessary to break
out the tab of the unused port**.

DO NOT
break out tab

Make sure
the plugs are
inserted in
the grommet

5
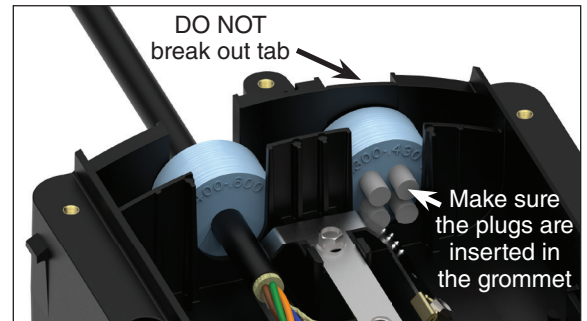
Step #14 Bend each leg of the cable restraint brackets upward until they contact the cable(s)

Step #15 Position the cable strength member under the cap of the cable restraint bracket. Wrap the braided aramid yarn around the screw, under the cap and tighten the cap down.

Cap
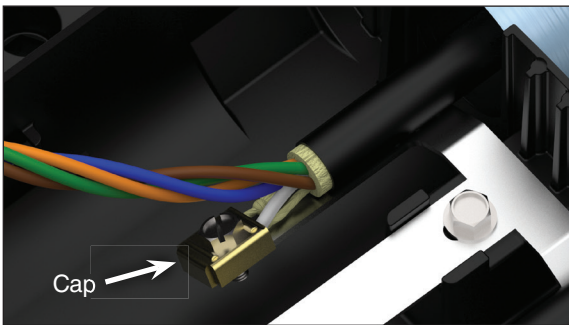
Step #16 Secure the cables to the cable restraint brackets with the hose clamps provided.
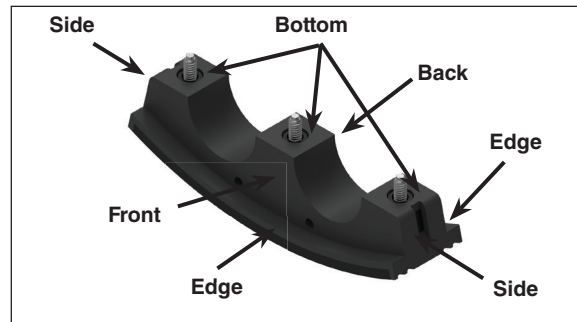

Hose Clamp

Hose Clamp
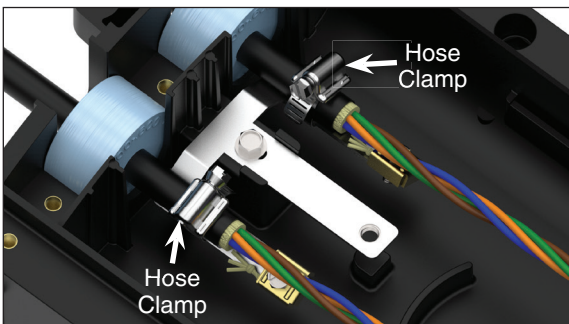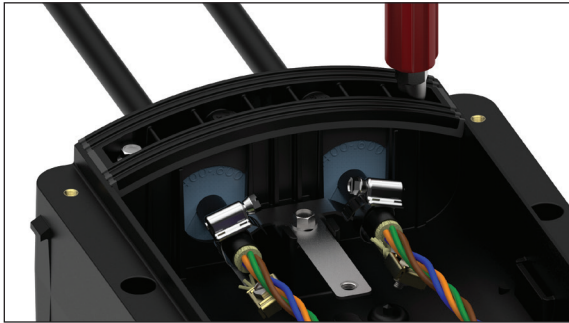
End Plate Cap Installation

Step #17 Screw the hex head cap bolts into each end plate cap.

Step #18 Lubricate the end plate caps with the silicone lubricant that is provided on the areas indicated below.

Side

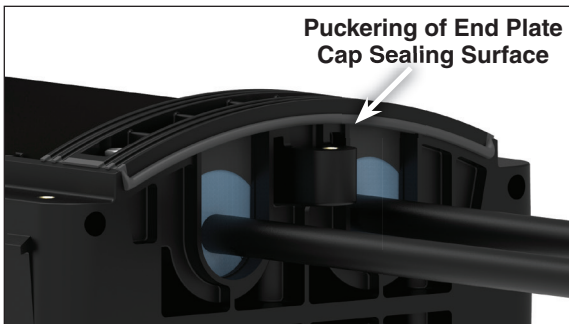Bottom

Back

Edge

Front

Edge

Side

6

Step #19a Install the end plate caps in the pockets of the base. Tighten the bolts of each end plate cap evenly until the end plate cap is fully sealed. **NOTE: DO NOT USE POWER TOOLS TO TIGHTEN THE BOLTS.**


NOTE: When both cable ports are not being used at an end of the closure, it is not necessary to install grommets under the blank end plate cap.

Step #19b Check to see if the end plate caps are fully seated. The caps will be fully seated when puckering of the sealing surface occurs.

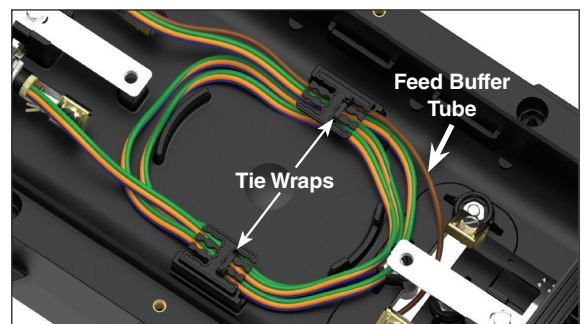Puckering of End Plate Cap Sealing Surface

Buffer Tube Routing

Step #20 Install the tie down clips in the bottom of the base and route the expressed buffer tubes of the feed cable under the clips as shown below.
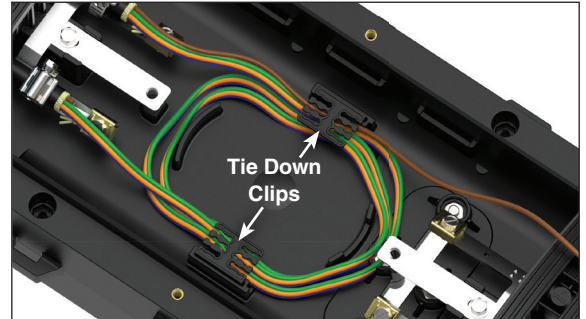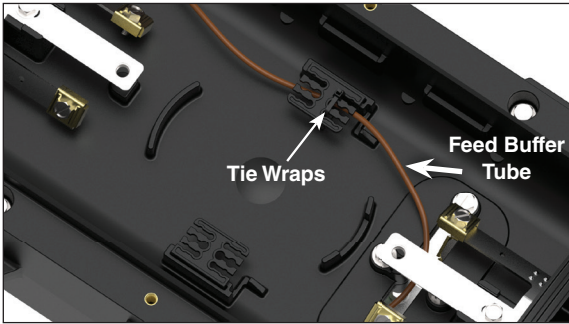

Tie Down Clips

Step #21a If splicing is to occur in the same chamber as the express loop, route the feed buffer tube(s) under the tie down clips as shown below. Secure all the buffer tubes to the tie down clips with tie wraps.
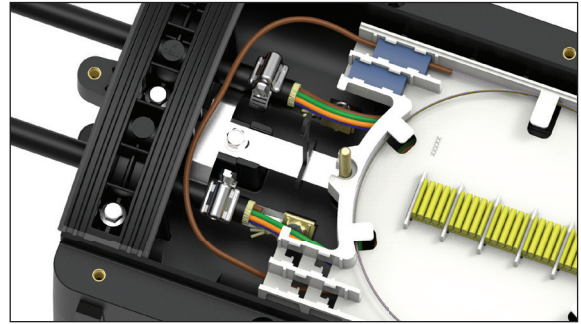

Tie Wraps
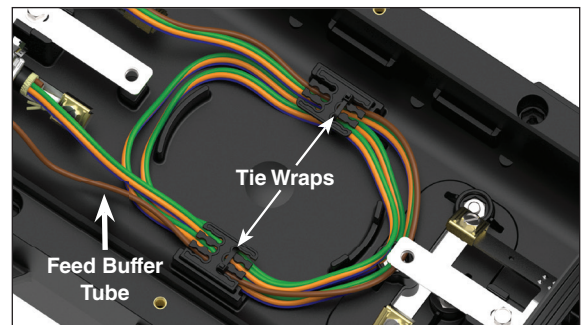
Feed Buffer Tube

Step #21b If splicing is to occur in the opposite chamber as the express loop, route the feed buffer tube(s) through the window of the base and under the tie down clip in the other chamber. Secure all the buffer tubes to the tie down clips with tie wraps.


Feed Buffer Tube

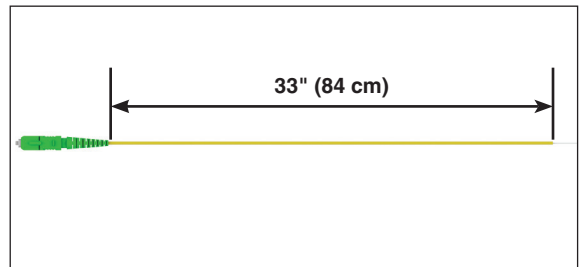Tie Wraps

Step #21b Continued

Tie Wraps

Feed Buffer Tube

Step #22   Install the splice tray restraint straps onto the cable restraint brackets.

Splice Tray Restraint Straps

Step #23   Install the organizer studs into the cable restraint brackets.

Organizer Studs

Step #24   Place the splice tray onto the organizer studs and route the buffer tube(s) to the splice tray.
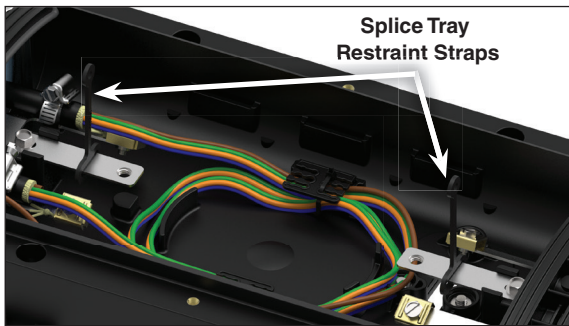
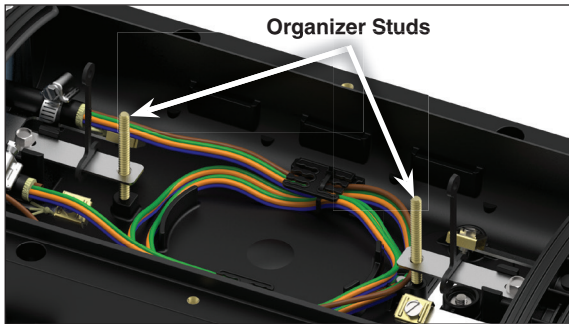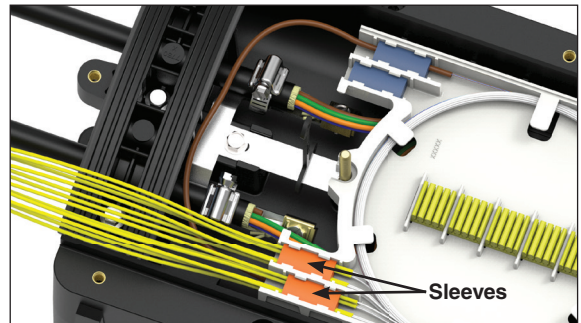**Step #25**   Measure and mark each pigtail as shown below. Remove the jacket of each pigtail beyond the marked location.

33" (84 cm)

Step #26   Install the pigtails into the LITE-GRIP® sleeves and install the sleeves into the channels of the splice tray.
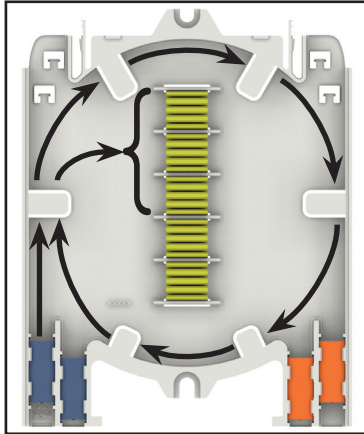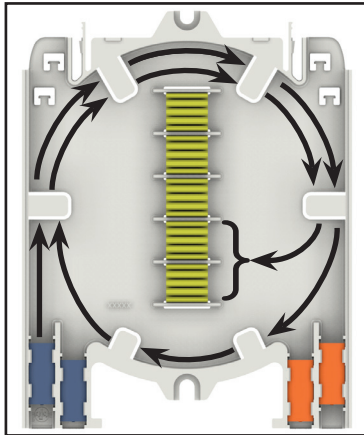

Sleeves

Splice Tray Management

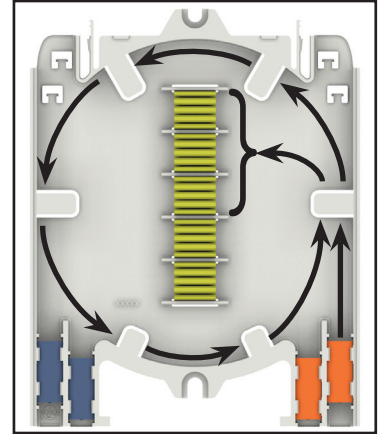**Step #27**   Route **INCOMING** fibers in the splice tray.

Fibers
1 - 12
21 - 32

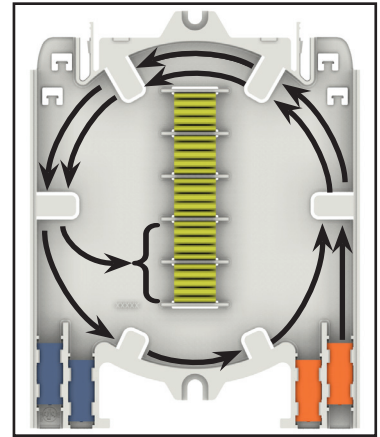**Fibers**
13 - 20
33 - 40

Step #28   Route **OUTGOING** fibers in the splice tray.

Fibers
1 - 12
21 - 32

Fibers
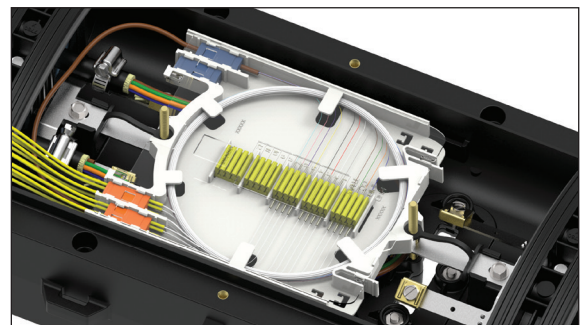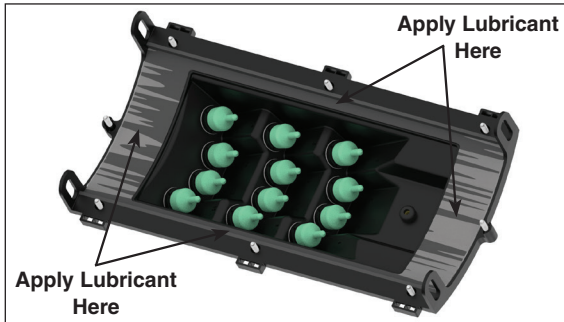**13 - 20**
33 - 40

Step #29 Splice the **INCOMING** fibers to the outgoing fibers per your accepted company practice.

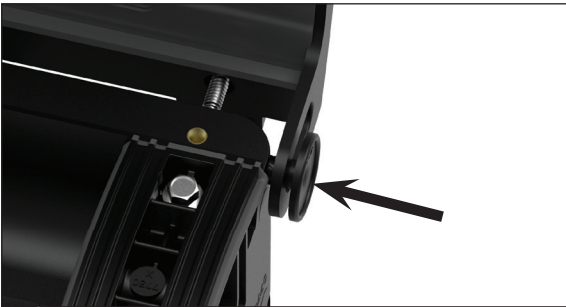**Step #30**   Secure the splice tray with the splice tray restraint straps.

9

Cover Installation

**Step #31** Lubricate the cover gasket with the silicone lubricant provided.

Apply Lubricant Here

Apply Lubricant Here

Step #32 Attach the cover to the base with the hinge posts.

Hinge Post

Hinge Post

NOTE: Make sure that the hinge posts are installed on the opposite side from where the pigtails are exiting the splice tray.

Step #33 Remove the covers from the hardened adapters that will be used.
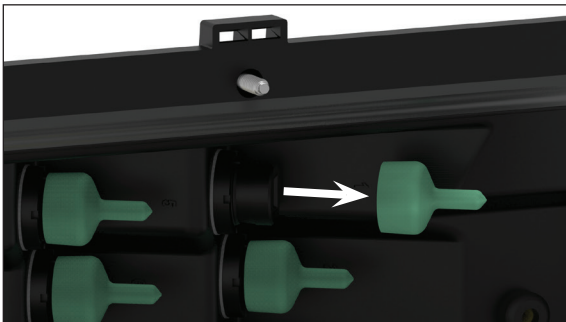
Step #34 Route the pigtails to the hardened adapters of the cover as shown below and insert the connectors into the adapters.

NOTE: Make sure to align the tab of the connector with the slot of the adapter when inserting the connector into the adapter.

Connector Tab

Adapter Slot
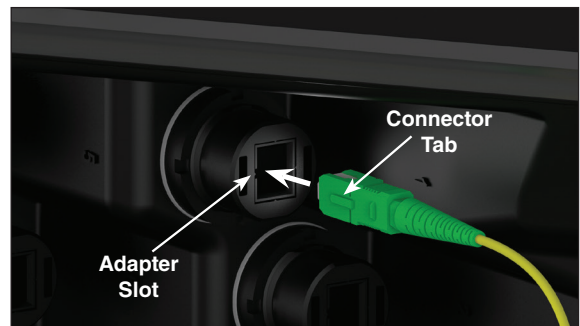
Step #35 Secure the cover to the base by hand tightening the hex head bolts.
NOTE: DO NOT USE POWER TOOLS TO TIGHTEN THE BOLTS.

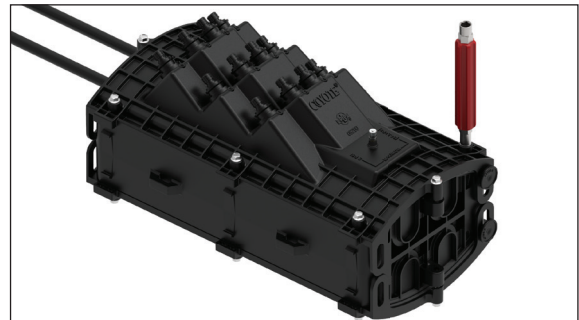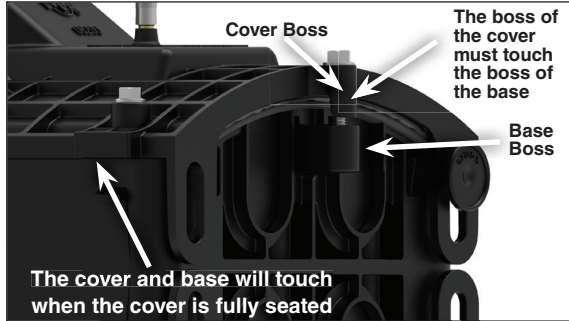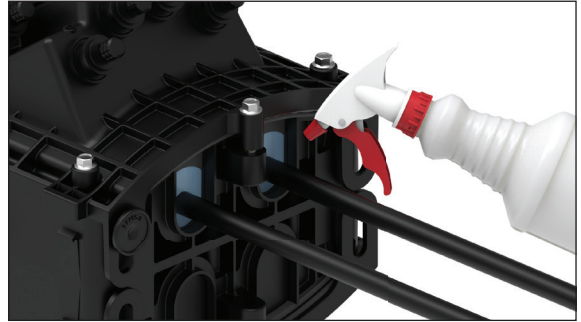**Step #36**   Retighten all of the bolts to ensure the cover is fully seated on the base.

Cover Boss

The boss of the cover must touch the boss of the base

Base Boss

The cover and base will touch when the cover is fully seated

Flash Test Procedure

Step #37   Remove the cap from the air valve of the cover.

Step #38   Pressurize the closure up to a maximum of 5 psi.

Step #39   Spray all of the sealing surfaces of the closure with soapy water to determine if there are any leaks.

Step #40   Release the pressure in the closure using the bump on the top of the air valve cap.

Bump of Air Valve Cap

Step #41   Install the cap back onto the air valve.

Drop Cable Installation	Aerial Mounting Bracket Installation

Step #42   Align the arrow of the connector with the notch of the adapter and insert the connector into the adapter.
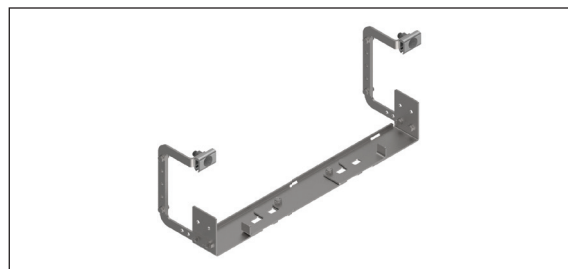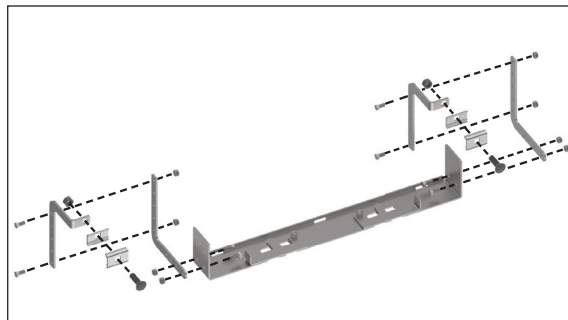
Connector Arrow

Adapter Notch
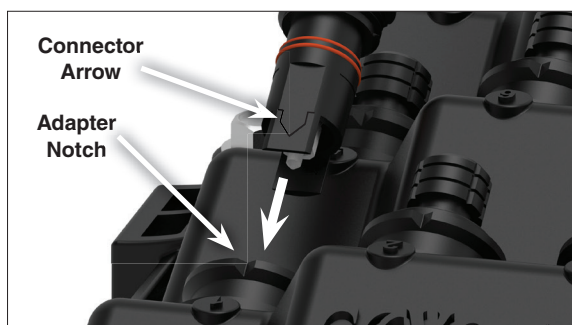
Step #43   Rotate the threaded sleeve of the connector until it is secured into the adapter.

Step #44   **COYOTE® Terminal Closure (Dual Chamber) Adjustable Offset Aerial Mounting Bracket Kit for Strand Applications (PLP Cat.#: 8003705)**

Assemble the aerial brackets to the mounting bracket as shown below.

Step #45   **COYOTE Terminal Closure (Dual Chamber) Adjustable Offset Aerial Mounting Bracket Kit for Strand Applications (PLP Cat.#: 8003705)**

Open up the swivel brackets of the mounting bracket and slide the tabs of the mounting bracket through the side mounting tabs of the closure base as shown in the first image below. Close the swivel brackets to secure the mounting bracket to the closure as shown in the second image below.

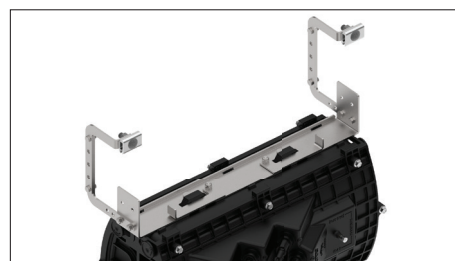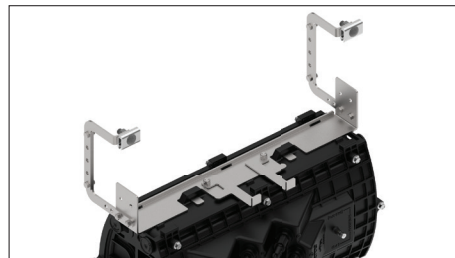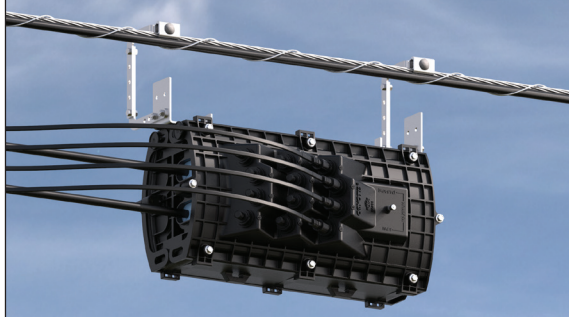**Step #46**   **COYOTE® Terminal Closure (Dual Chamber) Adjustable Offset Aerial Mounting Bracket Kit for Strand Applications (PLP Cat.#: 8003705)**
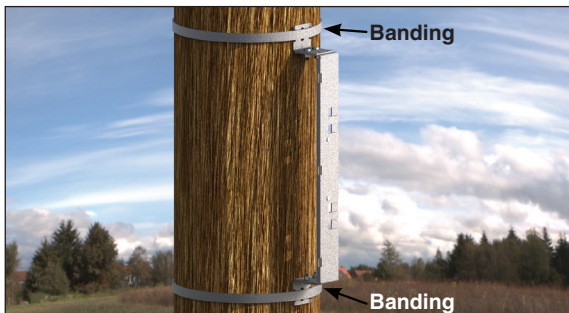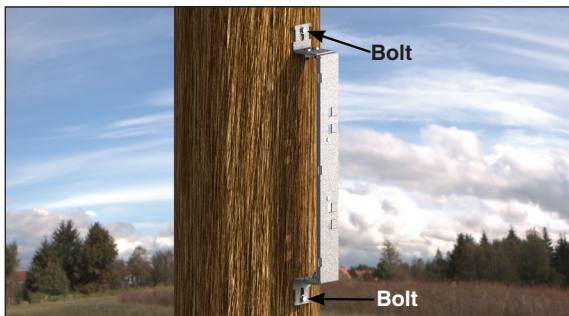
Mount the closure to the strand with the bug nuts of the aerial mounting bracket.

Pole/Wall Mounting Bracket Installation

Step #47   **COYOTE® Terminal Pole/Wall Mounting Bracket Kit (PLP Cat.#: 8003703)**

Secure the mounting bracket to the pole/wall with either bolts or banding per your company practice.

Step #48   **COYOTE Terminal Pole/Wall Mounting Bracket Kit (PLP Cat.#: 8003703)**

Open up the swivel brackets of the mounting bracket and slide the side mounting tabs of the closure base over the tabs of the mounting bracket as shown in the first image below. Close the swivel brackets to secure the closure to the mounting bracket as shown in the second image below.

Step #49   **COYOTE® Terminal Pole/Wall Mounting Bracket Kit (PLP Cat.#: 8003703)**
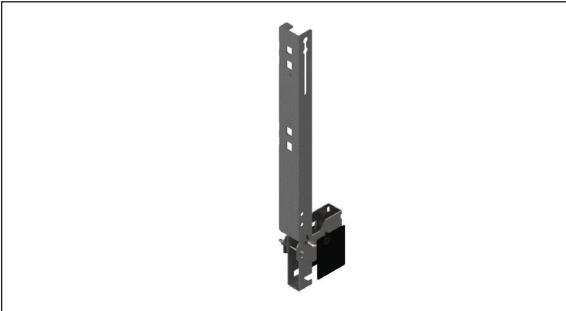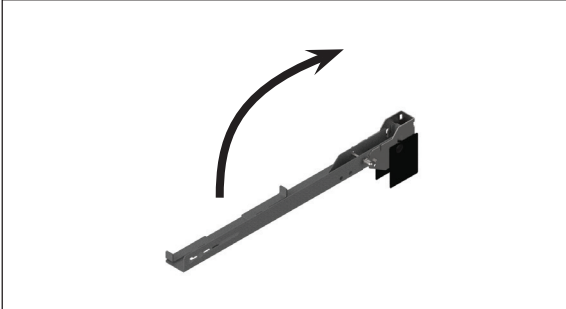
Completed installation of pole/wall mounting bracket as shown below.
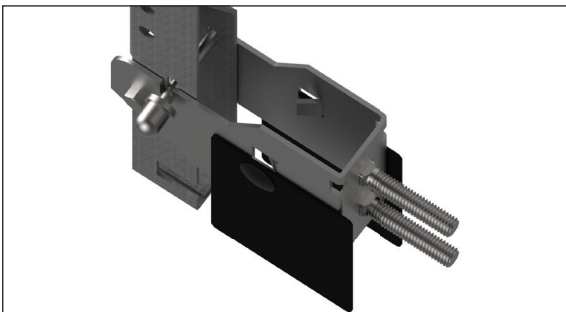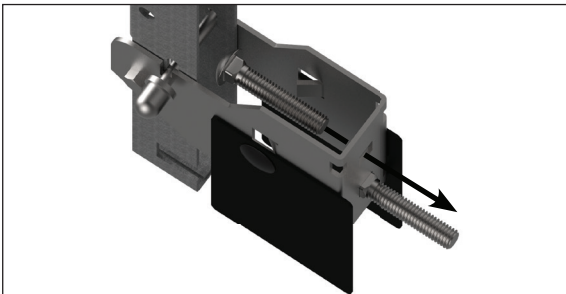
Swing Arm Installation

Step #50 **COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)**

Raise the arm of the swing arm to the upright position as shown below.

Step #51 **COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)**

Insert the carriage bolts through the mounting bracket of the swing arm as shown below.
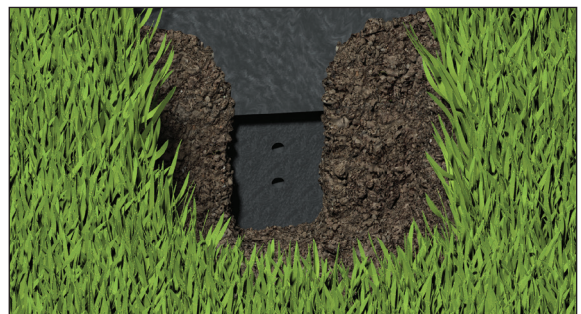

Step #52 **COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)**

Dig a small hole on the outside of the installed handhole to locate a flat area on both the inner and outer surfaces of the handhole. Make sure that area is near the top of the handhole and has a wall thickness no larger than 1.5" (38 mm)

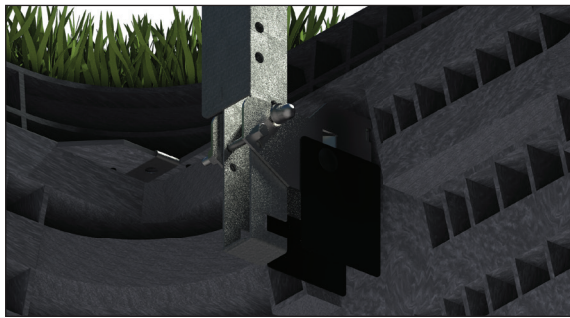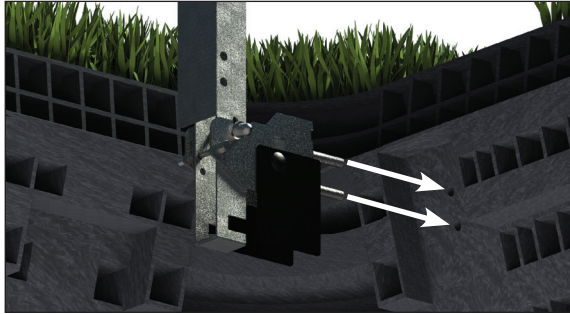**Step #53** **COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)**

Use the outer bolt support plate as a guide to drill two 3/8" holes through the flat area of the handhole as shown below.

Outer Bolt Support Plate

Step #54   **COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)**

Insert the carriage bolts of the swing arm through the drilled out holes of the handhole.

Step #55   **COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)**

Insert the outer bolt support plate over the carriage bolts on the outside surface of the handhole and secure the swing arm with the lock nuts provided.
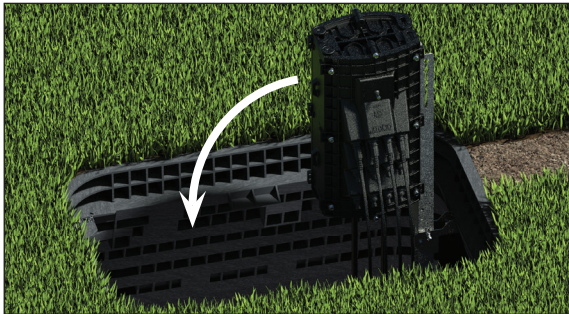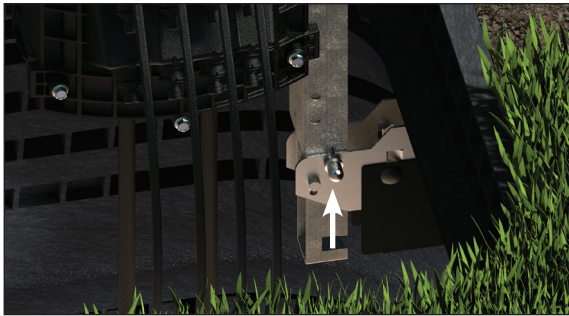

Step #56   **COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)**

Open up the swivel brackets of the swing arm and slide the side mounting tabs of the closure base over the tabs of the swing arm as shown in the first image below. Close the swivel brackets to secure the closure to the swing arm as shown in the second image below.
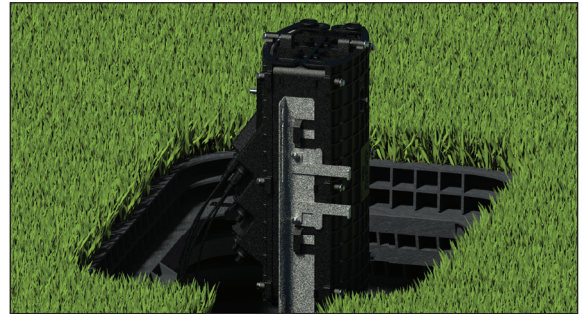
Step #57   COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)

Push up on the locking lever to release the arm and pivot it downward into the handhole.

Step #58   COYOTE® Terminal Closure Swing Arm for Handhole Applications (PLP Cat.#: 8003706)

Completed installation of swing arm.

SAFETY CONSIDERATIONS

This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual.
FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN PERSONAL INJURY OR DEATH.

Do not modify this product under any circumstances.

This product is intended for use by trained technicians only. **This product should not be used by anyone who is not familiar with, and not trained to use it.**

When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact. Be sure to wear proper safety equipment per your company protocol.

For proper performance and personal safety, be sure to select the proper size PREFORMED™ product before application.

PREFORMED products are precision devices. To ensure proper performance, they should be stored in cartons under-cover and handled carefully.

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