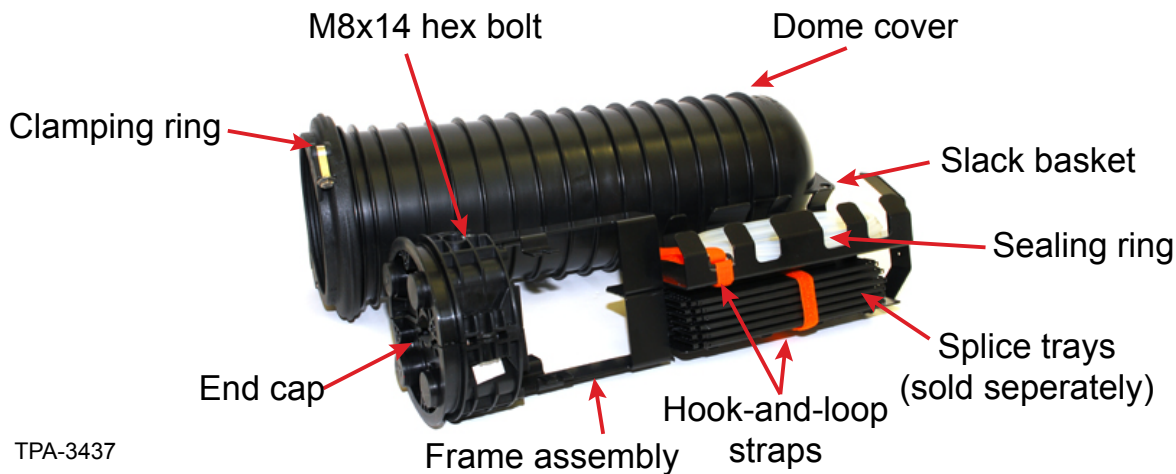


QUICK START GUIDE FOR
SCF-6 AND SCF-8 CANISTER
SPLICE CLOSURES

Corning Optical Communications
Standard Recommended Procedure (SRP) 003-360-QSG
Issue 3, November 2014



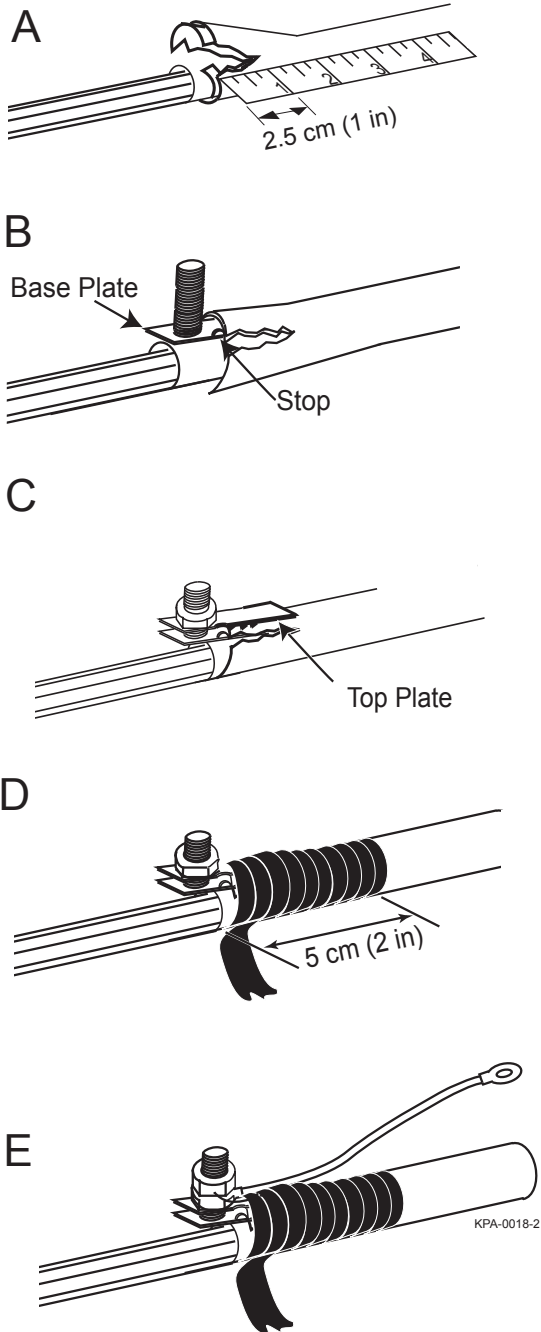
For complete details concerning installation of this product, refer to the basic instruction (P/N 003-360).

CARTON CONTENTS

- (1) Dome cover
 - (1) End cap
 - (2) M8x14 Hex bolts
 - (1) Clamping ring
 - (1) Sealing ring
 - (1) Frame assembly
 - (1) Slack basket (none in -02 and U-bar configurations)
 - (1) Tray stacker (Two in -02 and U-bar configurations)
 - (1) Accessory kit
 - (1) Express port strain-relief kit
 - (1) Drop port strain-relief kit
 - (2) 18-in hook-and-loop straps (U-bar configuration has (1) 24-in strap only)
 - (1) Tray retaining kit (U-bar only)
- Accessory Kit (P/N SCF-6C/8C28-ACCY):
 - (1) Vented grounding screw
 - (1) Solid grounding screw
 - (1) Combination Wrench Tool
 - (1) Alcohol cleaning tissue
 - (1) Sealing paste - labeled "dichtpaste"
 - (1) Sealing tape
 - (5) Small cable ties
 - Express Port Cable Strain-Relief kit (P/N SCF-KT-EXP-SM/8):
 - (2) Express brackets
 - (2) ¾ x 1 ½-in hose clamps
 - (2) 7/16 x 1-in hose clamps
 - Large central member strain-relief kit (SCF-8 only) containing:
 - (2) 10-32 screws
 - Drop Port Cable Strain-Relief kit (P/N SCF-KT-6/8CBL)
 - (1) Drop bracket
 - (2) 7/16 x 1-in hose clamps
 - (2) Central member restraint caps
 - (6) #8 washers
 - (4) 8-32 lock nuts
 - (2) #10-32 Phillips screws
 - (2) Toothed washers
 - (1) Brush
 - (1) UCN lubricant
 - (2) 8-in grounding wires
 - (2) Grounding clamps
 - (4) Flat washers
 - (2) M6x40 Hex screws
 - (2) M6x90 Hex screws
 - (2) Barrels
 - (2) Inside plastic grommets (lock nuts)
 - (2) 17-21 mm sealing grommets
 - (2) 12-16 mm sealing grommets
 - (2) 8-11 mm sealing grommets
 - (2) Outside plastic grommets (compression screw)
 - (2) 21-25 mm sealing grommets (SCF-8 only)

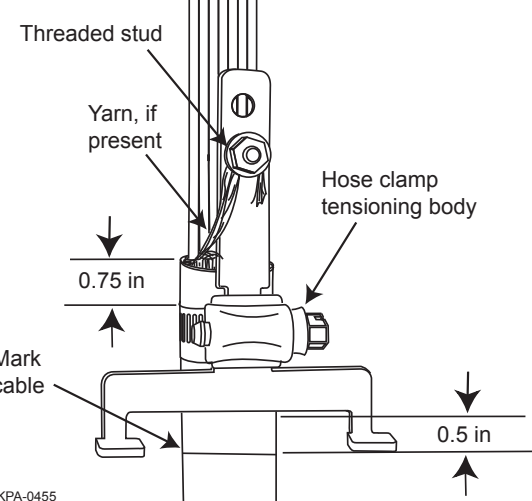
2

INSTALL GROUNDING
HARDWARE
(ARMORED CABLES ONLY)



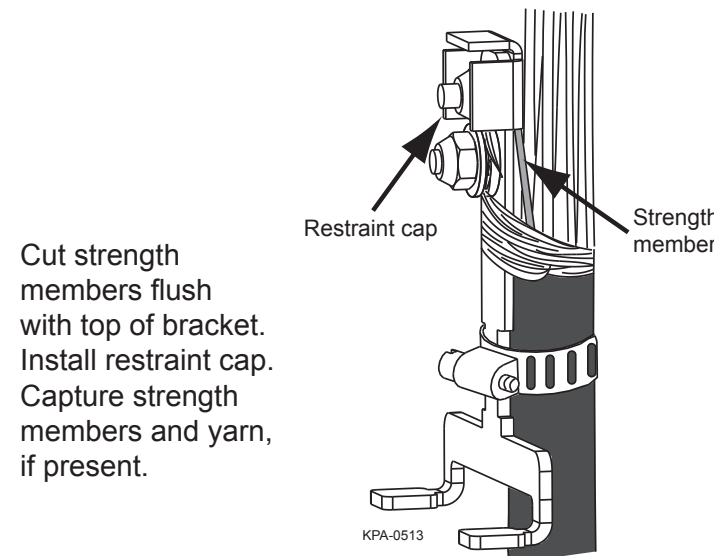
3

INSTALL EXPRESS CABLE
STRAIN-RELIEF HARDWARE



Attach hose clamp around cable and bracket at the notch in the bracket so that the clamp is 0.75 in below the end of the sheath. Torque to 30 in-lb. Wrap with vinyl tape. Mark cable as shown.

NOTE: If cable is armored, ensure that hose clamp does not overlap bonding hardware on the opposite side of the cable.



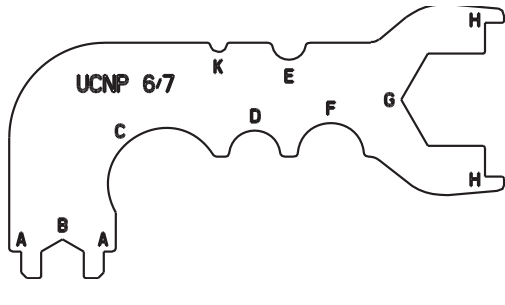
Cut strength members flush with top of bracket. Install restraint cap. Capture strength members and yarn, if present.

TOOLS AND EQUIPMENT REQUIRED

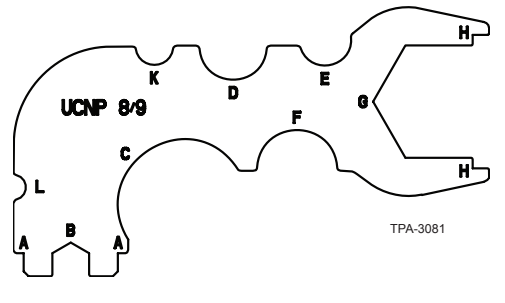
The following tools and materials are required to complete this procedure:

- Tape measure
 - Scissors
 - Side cutters
 - Cable or utility knife
 - Adjustable wrench
 - 11/32-in nut driver
 - 3/8-in nut driver
 - 5/16-in nut driver
 - 7/16-in nut driver
 - 1/2-in deep socket
 - 10 mm socket
 - Ratchet
 - Heat-shrink fusion splice protectors (P/N 2806032-01, package of 50, 40 mm long)
- Optical fiber access tool (P/N OFT-000)
 - Slotted screwdriver
 - Phillips screwdriver
 - Permanent marker
 - Paint marker pen
 - Vinyl tape
 - Hand pump
 - Air pressure gauge
 - Torque wrench
 - Soapy water (to verify leaks)
 - Hacksaw
 - Ideal® coaxial cable stripper (P/N 100107-01)
 - Splice trays

A — Wrench for closing screw
B — Wrench for grounding screw
C — Maximum diameter for tape-wrapped cable in express ports
D — Maximum cable diameter for medium (14 mm) rubber sealing grommet
E — Maximum cable diameter for small (10 mm) rubber sealing grommet
F — Maximum cable diameter for large (25 mm) rubber sealing grommet
G — Wrench for compression screw
H — End cap closing gauge
K — Minimum cable diameter for smallest (5 mm) rubber sealing grommet



A — Wrench for closing screw
B — Wrench for grounding screw
C — Maximum diameter for tape-wrapped cable in express ports
D — Maximum cable diameter for medium (21 mm) rubber sealing grommet
E — Maximum cable diameter for small (16.5 mm) rubber sealing grommet
F — Maximum cable diameter for large (25 mm) rubber sealing grommet
G — Wrench for compression screw
H — End cap closing gauge
K — Minimum cable diameter for small (12 mm) rubber sealing grommet
L — Minimum cable diameter for smallest (8-11 mm) rubber sealing grommet

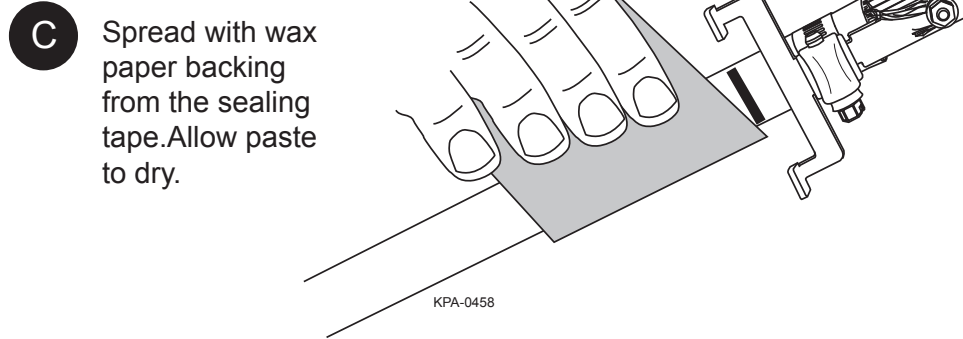
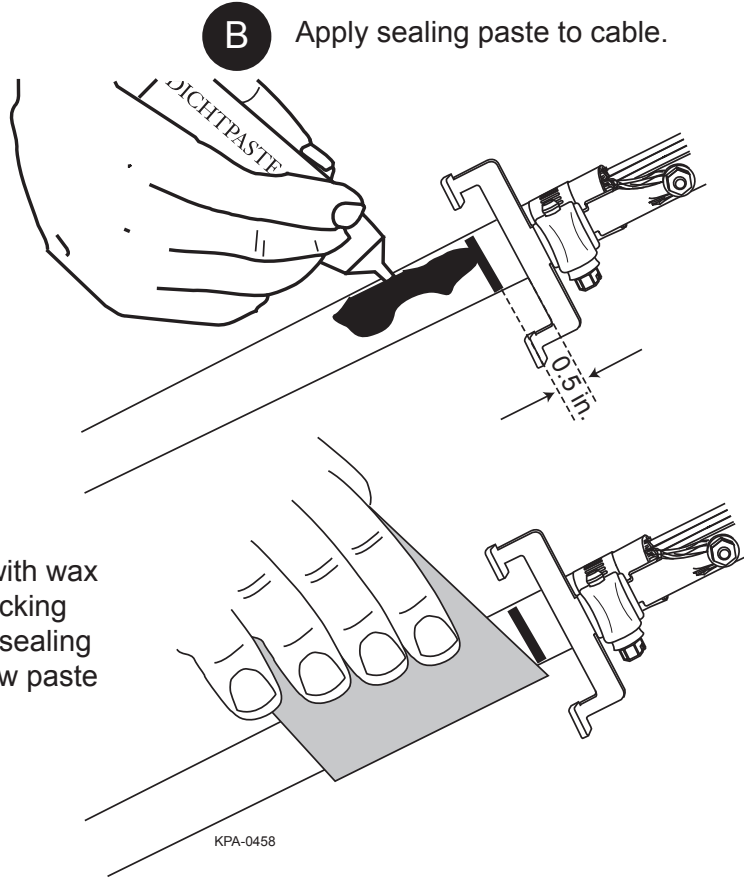
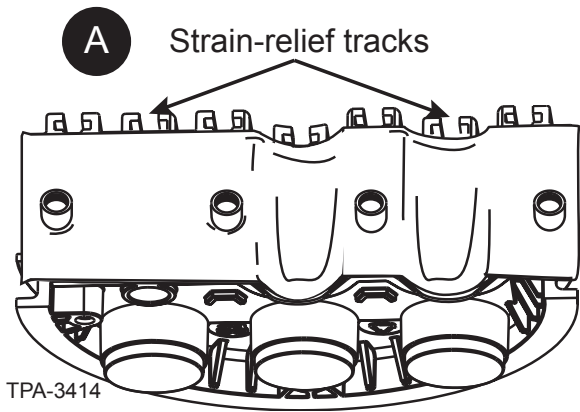


4

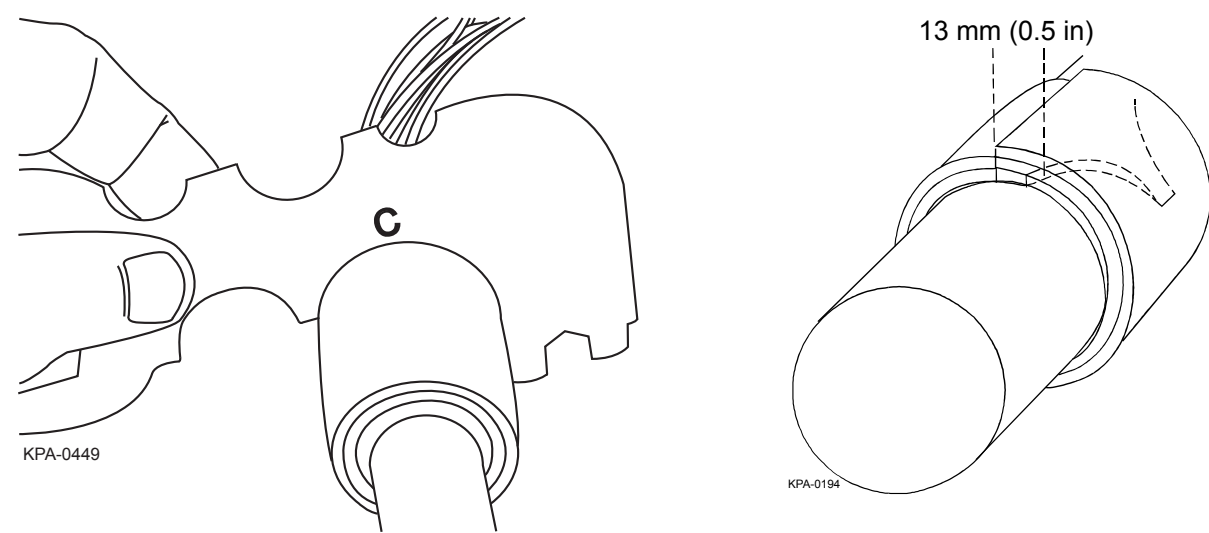
SEAL AROUND THE CABLES

Beginning with the inside of the end cap, apply sealing tape to the end cap half containing the metallic standoffs. Cut holes in the tape to expose the standoffs.

IMPORTANT: It is imperative that the strain-relief bracket have no contact with the tape. Make sure the strain-relief tracks on the inside of the end cap and the screw holes are not obstructed by the sealing tape.



E Wrap tape around cables, overlapping the tape by 0.5 in. Check the diameter all the way around the cable with the gauge.

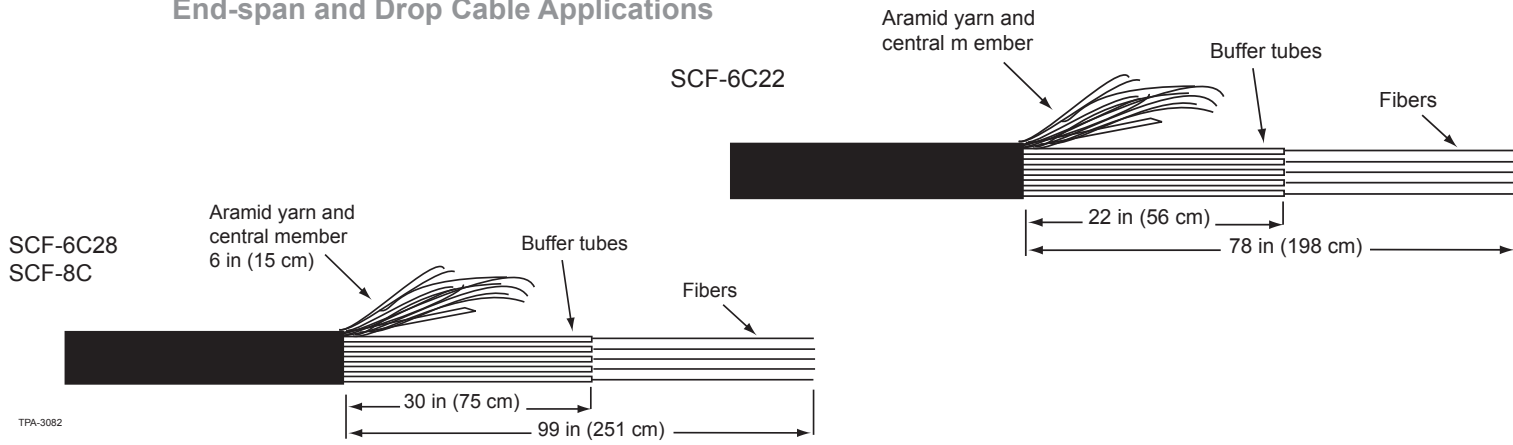


1

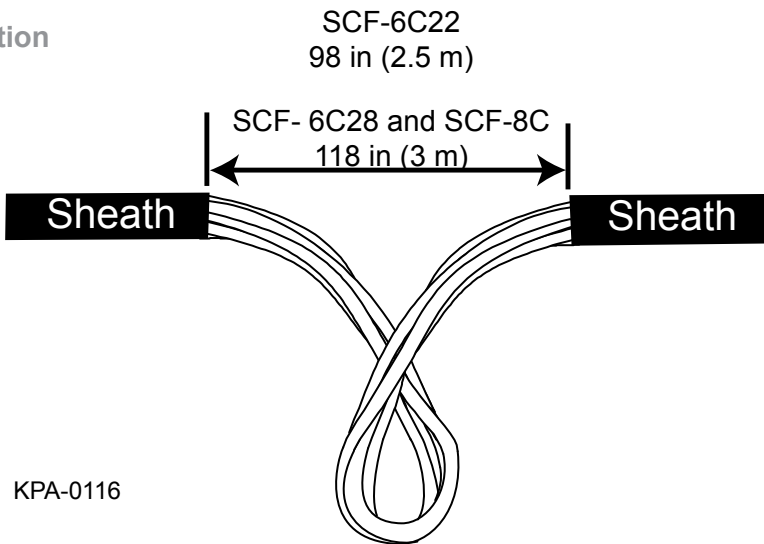
PREPARE THE CABLE

IMPORTANT: Typical lengths when using Corning splice trays are illustrated. Since the actual application may vary, it is recommended to route the buffer tubes as they will lie in the closure to determine actual strip lengths before cutting fibers. Refer to routing illustrations, if necessary. Do not expose the fibers until after the cable has been placed in the closure end cap.

End-span and Drop Cable Applications

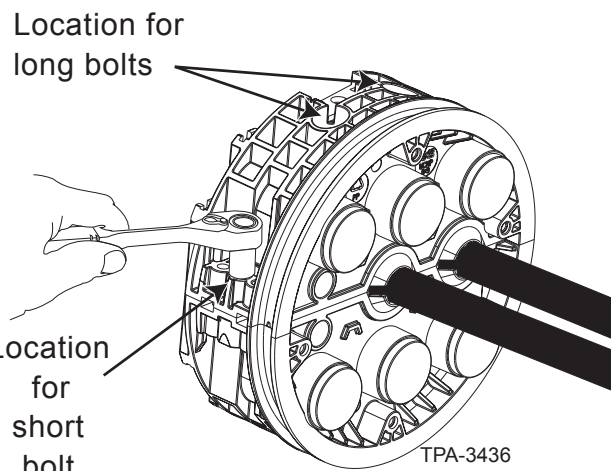
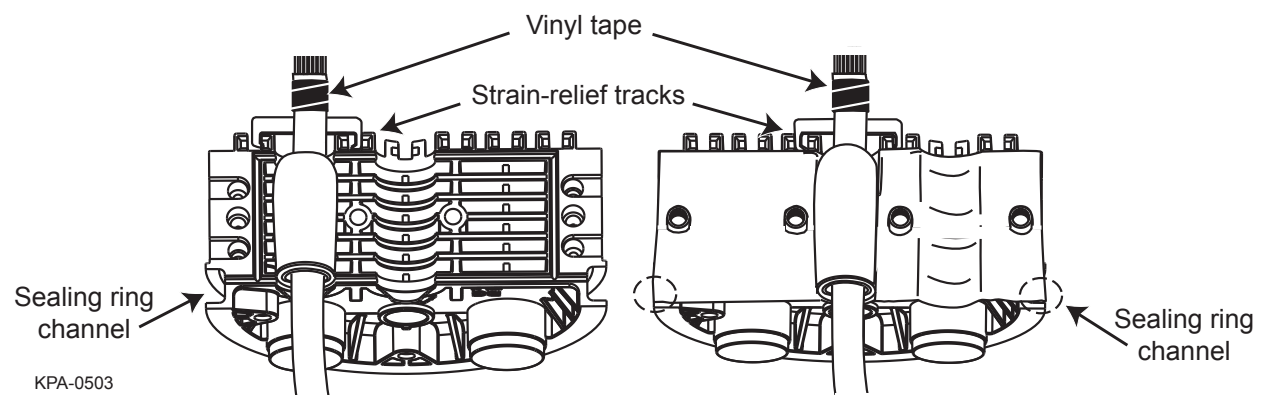


Mid-span Application

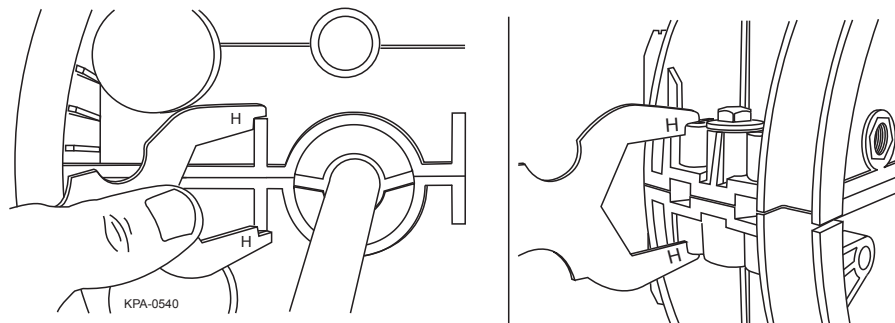


*** To ensure the cables are properly sealed, pressure test the unit to 14 psi after all splicing is completed. See Section 10. ***

F Place cables into end cap halves so strain-relief brackets slide into the tracks.



G Place the end cap halves together and insert long bolt with a washer in center hole and two short bolts with washers in the outer holes. Alternately tighten the bolts WITHOUT POWER TOOLS.



H Tighten the bolts until Section H of the combination wrench tool fits over both the side and center measuring points.

NOTE: If not installing drop cables, reattach the frame assembly with the two bolts removed previously and skip to Section 6.

5

DROP CABLE INSTALLATION

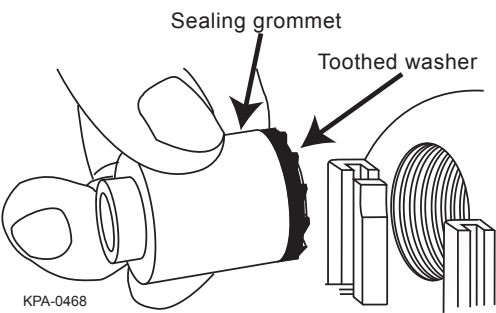
A Prepare Drop Cable Port(s)

Step 1: Choose a cable port to be used and open the port using a hacksaw or a knife. Be careful not to damage the internal threads of the drop port while sawing.

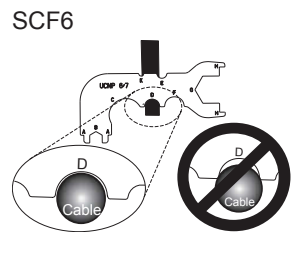
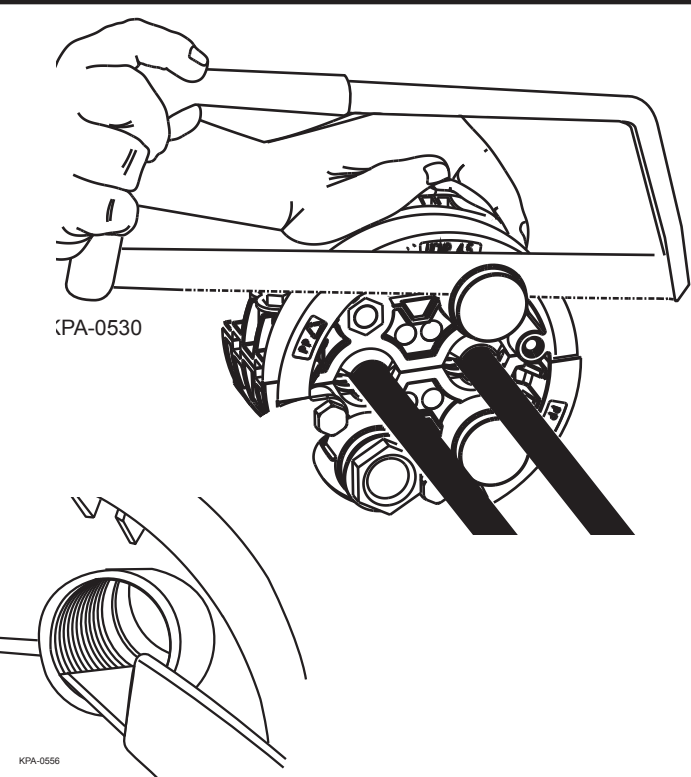
IMPORTANT: Use either or both of the middle ports on the SCF-8 end cap first to make routing easier.

Step 2: Smooth the port opening using a utility or cable knife as shown.

Step 3: Use the combination wrench tool to determine which size sealing grommet is required.

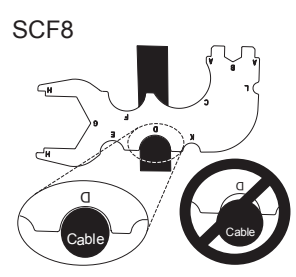


Step 4: Place a toothed washer onto the sealing grommet and insert both into the opened port from the strain-relief side of the end cap. Verify correct placement of toothed washer on grommet.



Cable Diameter Range:	If Cable Diameter Is:		Select Grommet Size
	Greater than or equal to:	Less than:	
18 mm	Wrench Gauge "10"	Wrench Gauge "12"	Large
	Wrench Gauge "11"	Wrench Gauge "13"	
5 mm	Wrench Gauge "9"	Wrench Gauge "10"	Medium
	Wrench Gauge "10"	Wrench Gauge "11"	
Flat	Wrench Gauge "8"	Wrench Gauge "9"	Small
	Wrench Gauge "9"	Wrench Gauge "10"	

NOTE: Dimensions are for reference only.



Cable Diameter Range:	If Cable Diameter Is:		Select Grommet Size
	Greater than or equal to:	Less than:	
25 mm	Wrench Gauge "12"	Wrench Gauge "14"	Large
	Wrench Gauge "13"	Wrench Gauge "15"	
8 mm	Wrench Gauge "10"	Wrench Gauge "12"	Medium
	Wrench Gauge "11"	Wrench Gauge "13"	
Flat	Wrench Gauge "9"	Wrench Gauge "10"	Small
	Wrench Gauge "10"	Wrench Gauge "11"	

NOTE: Dimensions are for reference only.

B Install Drop Port Cable into End Cap

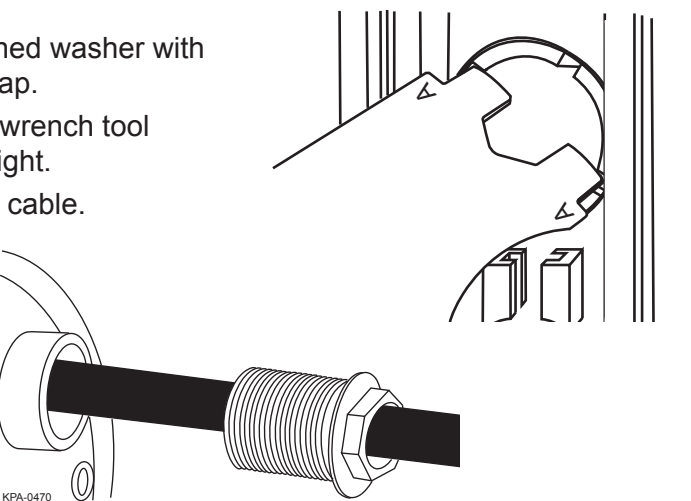
Step 1: Secure the sealing grommet and toothed washer with the lock nut on the inside of the end cap.

Step 2: Use the Section A of the combination wrench tool to tighten the nut until it stops and is tight.

Step 3: Slide the compression screw over the cable.

Step 4: Slide the cable through the port.

Step 5: Prepare cable per Section 1. If the cable is armored, attach grounding hardware as shown in Section 2.



9

SEAL THE CLOSURE

NOTE: Do not use liquid encapsulant in SCF closures.

A Install seal

Step 1: Roll the sealing ring over frame and down to the end cap with arrows as shown.

IMPORTANT: The sealing ring must be installed in the orientation shown.

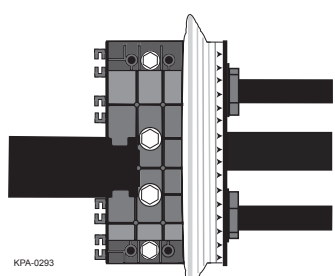
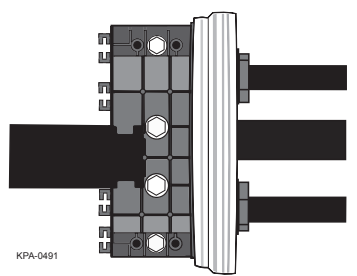
Step 2: Verify there is no sealing tape in the sealing ring channel. Flatten any sealing tape with a slotted screwdriver.

Step 3: Use the supplied brush to apply a third of the UCN lubricant tube to the sealing ring channel on the end cap.

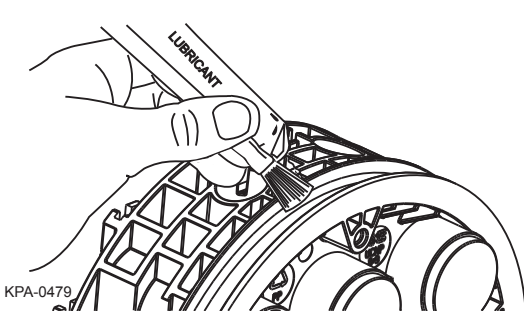
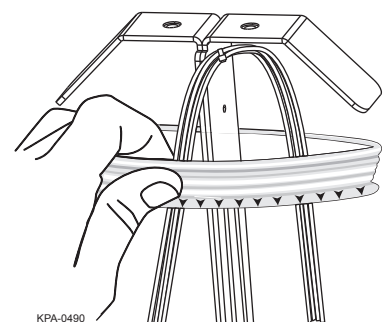
Step 4: Stretch the sealing ring over the channel.

Step 5: Fold the edge of the seal that overlaps the outside of the end cap until the seal seats in the channel as shown.

IMPORTANT: The installed sealing ring must be oriented as shown with the arrows pointing towards the incoming cable.



Step 6: Retain a small amount of UCN lubricant for use later. Apply the remaining lubricant to all sides of the sealing ring.



KPA-0479

KPA-0204

C

Strain-relieve Drop Port Cables

If installing SST-Drop™ cables in drop ports, refer to the instruction provided with the strain-relief kit (P/N SCF-KT-G62/84-F, purchased separately).

Install a drop port strain-relief bracket onto each drop port cable on the opposite side of the cable (180 degrees) from the ground clamp when applicable:

Step 1: Pull the cable approximately 12 in away from the end cap to ease bracket installation.

IMPORTANT: Secure the cable to the side of the bracket opposite the threaded stud.

Step 2: Place a hose clamp over the cable and bracket 0.75 in (19 mm) below the sheath end.

IMPORTANT: If grounding hardware is used, make sure the hose clamp does not overlap the ground clamp.

Step 3: Tighten the hose clamp in the notch on the bracket with the tensioning body on the hose clamp on the same side of the bracket as the threaded stud. Tighten hose clamp to a torque value of 30 in-lb.

Step 4: Trim the strength member flush with the top of the bracket.

Step 5: Insert the restraint cap threaded stud through the hole in the strain-relief bracket, capturing the central strength member between the two.

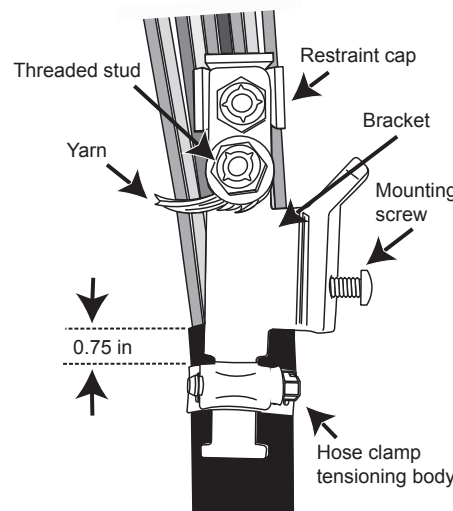
Step 6: Install a washer and lock nut onto the restraint cap stud and tighten securely.

Step 7: Wrap the aramid yarn, if present, twice in a clockwise direction around the threaded stud on the bracket.

Step 8: Install a second washer and nut and tighten securely.

IMPORTANT: Ensure that all buffer tubes are cleared from beneath the strength member prior to tightening the restraint cap.

Step 9: Wrap hose clamp and restraint cap with vinyl tape to prevent the sharp edges from damaging the fiber.



KPA-0471

D

Complete Frame Assembly

Reattach the frame assembly to the end cap.

E

Attach Strain-relief Bracket

Attach the strain-relief bracket to the frame:

Step 1: Pull the cable back to the end cap.

Step 2: Center the cable over the port and slide the attached screw on the strain-relief bracket into the slot on the metal frame.

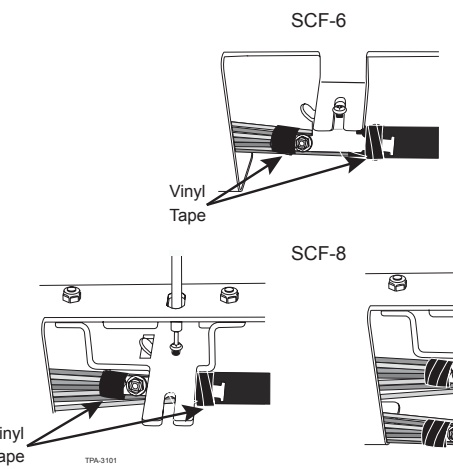
Step 3: Tighten the strain-relief bracket mounting screw.

F

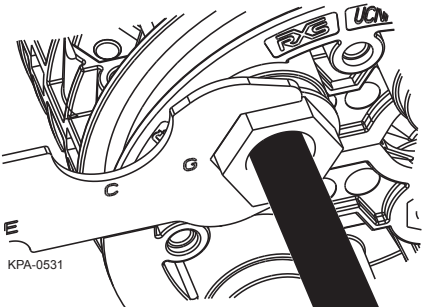
Tighten End Cap Compression Screw

Secure compression screw into end cap. Tighten with the combination wrench tool until the clicking sound stops or the screw is butted against the end cap.

IMPORTANT: DO NOT overtighten the screw.



KPA-0531

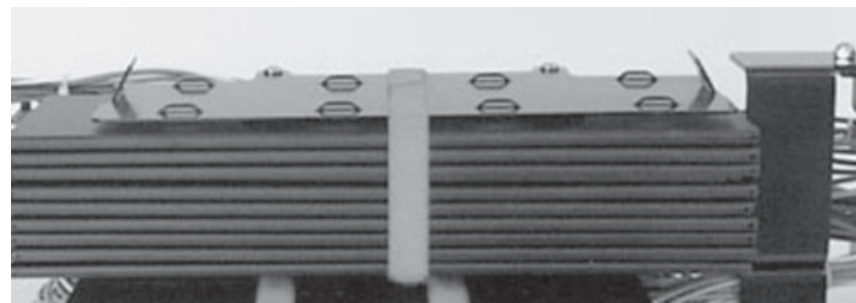


KPA-0531

6

SPlicing

Place an empty splice tray into the tray stacker, making sure the holes in the trays align with the slots in the tray stacker in the U-bar configuration.



KPA-0474

Step 1: Select the buffer tubes to be spliced in this splice tray and route the buffer tube(s) next to the corner of the splice tray.

Step 2: Use a permanent marker to mark the buffer tube 0.75 in (19 mm) from the corner of the splice tray.

Step 3: Remove the buffer tube at the mark made in the previous step.

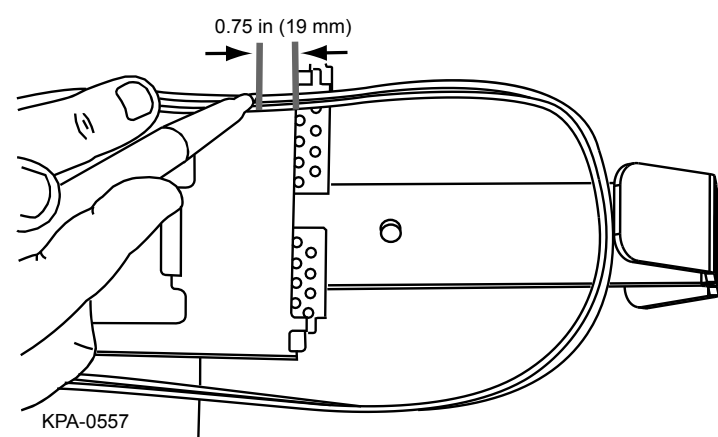
Step 4: Clean fibers according to cable manufacturer's instructions.

Step 5: Remove the splice tray from the tray stacker.

Step 6: Secure the buffer tube to the tray per instructions provided with the splice tray.

Step 7: Prepare any other splice trays the same way.

Step 8: When all trays are prepared, splice per local practice.



KPA-0557

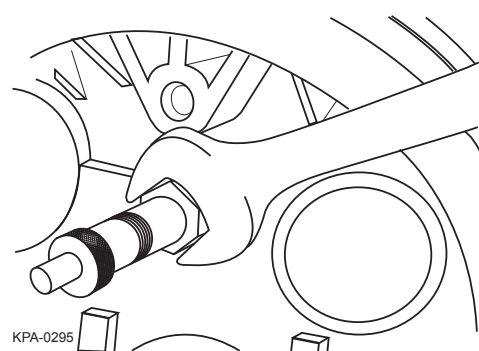
10

PRESSURE TEST THE CLOSURE

Apply a thin coating of lubricant to the valve stem (UCN-KT-FV, package of 5 sold separately) threads and then install finger-tight plus another half turn with a wrench.

Step 1: Attach the hand pump to the stem.

Step 2: Inject 12 to 14 psi of air into the closure.

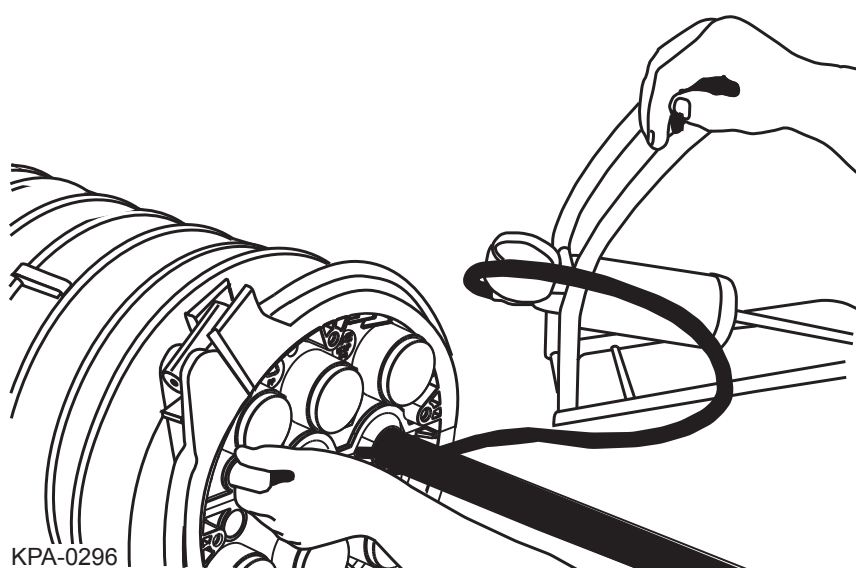


KPA-0295

WARNING: To avoid a potentially hazardous situation that could result in death or serious injury, do not exceed 14 psi (100 kpa) gauge pressure. The terminal could burst.

Step 3: Using soapy water, check closure thoroughly for leaks.

Step 4: After testing and correctly sealing the terminal, release pressure on the closure and replace the valve stem with the solid grounding screw. If grounding is required, attach a grounding cable (not supplied) to the insert on the grounding screw. Terminate this wire per local practices.



KPA-0296

7

SECURE SPLICE TRAYS

Step 1: Place the spliced trays into the studs tray stacker (line up holes with slots for U-bar).

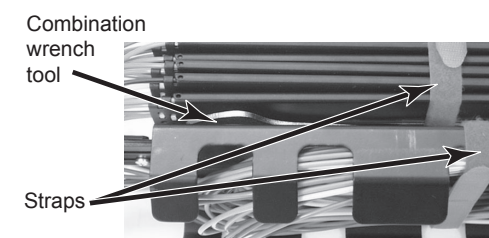
Step 2: Reposition the adjuster bracket to keep the trays from moving, if necessary. For U-bar applications, insert the threaded rod through the frame slots and splice tray holes. Install a wing nut onto the end of the threaded rod.

Step 3: Bundle tubes together using vinyl tape or cable ties, if desired.



KPA-0476

Store the combination wrench tool between the splice tray stacker and the frame.



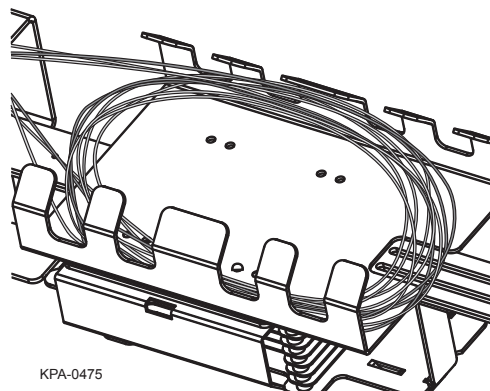
KPA-0478

8

STORE BUFFER TUBE SLACK

Step 1: Store unused buffer tube slack inside the slack basket on the opposite side of the frame.

Step 2: Secure all buffer tubes, splice trays and the combination wrench using the hook-and-loop straps.



KPA-0475

11

REENTER THE CLOSURE AND REOPEN THE END CAP

Reenter the Closure

Step 1: If it is necessary to reenter the closure, verify there is no pressure by removing the external ground screw and allowing air to escape.

Step 2: Remove clamping ring by untightening the two bolts.

Step 3: Perform any tests, modifications, or examinations of the closure that are necessary.

Step 4: Reseal the closure per Section 10.

Step 5: Pressure test closure per Section 11 on every entry.

Step 6: Retermine the grounding cable, if applicable, per Section 11.

Reopen the End Cap

Step 1: Reenter the closure as described above.

Step 2: Separate the frame from the end caps by removing the two bolts.

Step 3: Remove the end cap sealing ring.

Step 4: Remove the two short bolts and one long bolt holding the end cap segments together.

Step 5: Insert a slotted screwdriver in the square opening on either side of the end cap to help pry open the end cap segments.

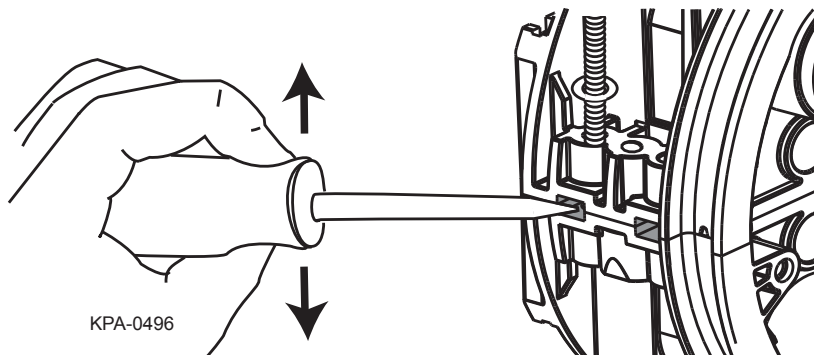
Step 6: Remove any sealing tape from inside the square opening on either side of the end cap where the bolt will be inserted to prevent the threads of the bolt from becoming clogged.

Step 7: Insert one of the short bolts into either hole that has a threaded insert (next to the outer closing holes) as shown.

Step 8: Tighten the short bolts on either side of the end cap while holding the screwdriver in place.

Step 9: Alternate tightening the bolts until the end cap halves are fully separated.

IMPORTANT: Do not use power tools to separate the end caps.



KPA-0496