INSTALLATION INSTRUCTIONS FC000388 Rev. 4
LG350 SEALED FIBER OPTIC SPLICE CLOSURE

1.0 GENERAL

1.01 The LG 350 Sealed Fiber Optic Splice Closure provides a unique, flexible fiber splicing system for Fiber-in-the-Loop or distribution splicing. Typical types of cables that can be used in this closure are: central core shielded, central core dielectric, loose tube shielded, loose tube dielectric, ribbon shielded, ribbon dielectric. Also, the closure incorporated a unique cable clamp design that secures the cable and allows the dome and C-Half sections to be removed with out disturbing previously installed cables. The LG-350 consists of five (5) main components. Refer to ***Figure 1***.

1.02 Dome: Protects all internal components.

1.03 C-Half Section: Creates end sealing surface with center section. Each C-Half section comes with four (4) hex head bolts for securing for securing to center section.

1.04 Center Section: Center section consists of five (5) cable sheath strain relief and central strength member tie-downs and will accommodate twelve (12) LL-2400, eight (8) LL-4848 or eight (8) LL-4800 splice trays. The Express side incorporates a storage tray and clear cover for bare or ribbon fiber. Included and installed in the Center Section are five (5) sealing port grommet sets. The Express side of the closure has two (2) and the Drop/Lateral side has three (3) ports.

1.05 O-Ring: Provides sealing between dome and the center section assembly.

1.06 V-Band: Provides locking and final clamping between the dome and center section assembly.

2.0 SPECIFICATIONS

2.1.1 Maximum Cable Entries …… **5 Ports**

2.1.2 Express/Feeder Side …….. **2 Ports**

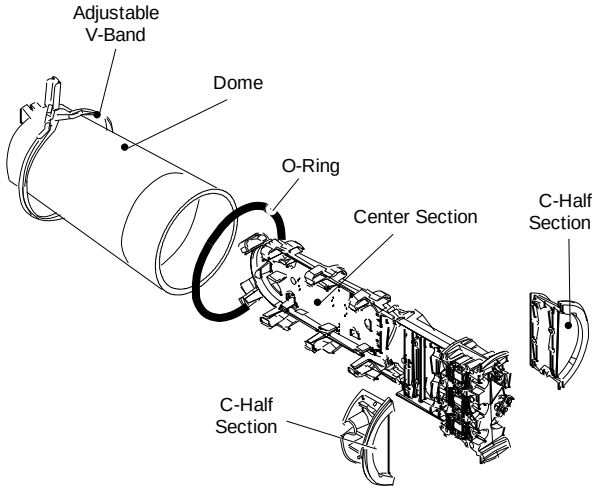

Figure 1 - Components of the LG350 Closure

Parameter	Value
Maximum Cable Diameter	1.00" (25.4mm)
Minimum Cable Diameter	0.40" (10mm)
Maximum Cable Entry	2 ports
Overall Dimensions (ht. x dia.)	28" x 10" (711mm x 254mm)

2.1.3 Drop/Lateral Side …… ….. 3 Ports

Parameter	Value
Maximum Cable Diameter	1.00" (25.4mm)
Minimum Cable Diameter	0.30" (7.62mm)
Maximum Cable Entry	3 ports

2.2 Splice Tray Capacities (see table below)

91710-06	LL-2400	Single Fusion (24SF) Splice Tray
911289-00-02	LL-2448	Universal (24SF or 48 MF) Splice Tray
91711-07	LL-4800	Mass Fusion (48) Splices in 4 Position Chip
FA000042	LL7060	60 SF Splices
FA000043	LL7144	288 Mass Fusion Splices
FA000044	LL7644	Universal Tray holds 60 SF or 288 Mf Splices
911437-00-02	LL-4848	Mass Fusion (144MF) Splice Tray
911676-00-02	LL-4896	Universal HD Splice Tray 96 SF - 360 MF

Note: All '24' series, LL4800 and LL4848 trays are compatible with each other and can be used in combination supporting a variety of breakouts and splicing configurations. The LL-4896 can only be used with another LL-4896 due to the trays increased length and width. It will support 384 SF and 1800 MF splices. A total of (5) LL-4896 trays may be installed. (5) LL7000 series may be used for up to 288 SF or 1440 MF splices.

3.0 GENERAL

3.01 The LG-350 comes with materials to install two (2) Express /Feeder cables and up to three (3) Drop/Lateral cables. Closure includes:

(1) Complete Closure
(1) Peel and Seal Cable Sealing System
One (1) set per entry port
(5) Central Strength Member Tie-Downs
(1) 5/32" Allen Wrench
(2) Lubricant Packets
(1) 3/8" Spiral Wrap
(1) Cleaning pad
(1) Installation Instruction Practice
(1) Labeling Sheet
(1) Cable Diameter Band-Mic for Express Ports
(1) Cable Diameter Band-Mic for Drop Ports
(1) Set of Grommet Supports (1 per cable entry)

3.02 Accessory Materials

S000065	(60mm) Fusion Splice Protection Sleeves
S000206	(40mm) Fusion Splice Protection Sleeves
S003027	(12 fiber) Mass Fusion Protect Sleeves
S013004	(24 fiber) Mass Fusion Protect Sleeves
FC000008	1 X 8 Core Tube Router Kit
FC000070	1 X 6 Fiber Router Kit
FC000592	Wall / Pole Mount Kit - LG150/250/350
FC000208	Aerial Off-Set Strand Hanger Kit
FC000006	Universal Aerial Strand Hanger Kit

3.03 Tools and Supplies Required for Installation:

- Cable Cleaner or Wipes
- ¾" Vinyl Tape (if bonding)
- 216 Style Tool (3/8" – 7/16" Hex Drive)
- Wire Cutters for Strength Member
- Splicer scissors
- Splice Equipment and sleeves
- Cable Stripper
- Cable Splicers Knife
- Needle Nose Pliers
- Fiber Stripping Tools

4.0 CABLE PREPARATION

Note: The closure is designed for flexibility in routing and securing fiber bundles. The following is ONE suggested practice.

CAUTION: When preparing cable, insure that buffer tubes and fibers are NOT cut, nicked or kinked. If this occurs, cut back to eliminate damaged area.

4.01 Express/Feeder and Drop/Lateral Cables Sheath Opening:

4.1.1 Mid-Access (Balloon) Application: Refer to *Figure 2a*.

Remove 144" (365.8cm) of cable sheath and expose buffer tubes, removing shield, Mylar or Kevlar, if present. Leave approx. 3.50" (89mm) of strength member intact to trim later.

Note: Locate the Reverse Oscillating Lay Point on the loose tube cables by opening a small window at the approx. center of the Express (balloon) cable loop and then use the center of the ROL point for the sheath opening. From the ROL measure 72" to each side for the 144" opening. Reorient the cable as required.

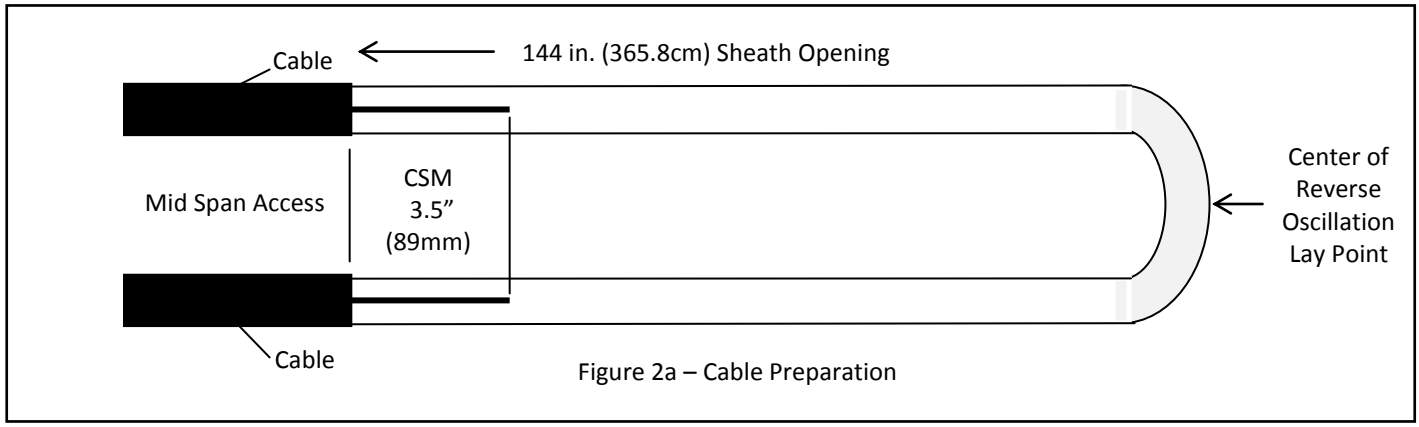

Figure 2a – Cable Preparation

Refer to Figure 2b for next step.

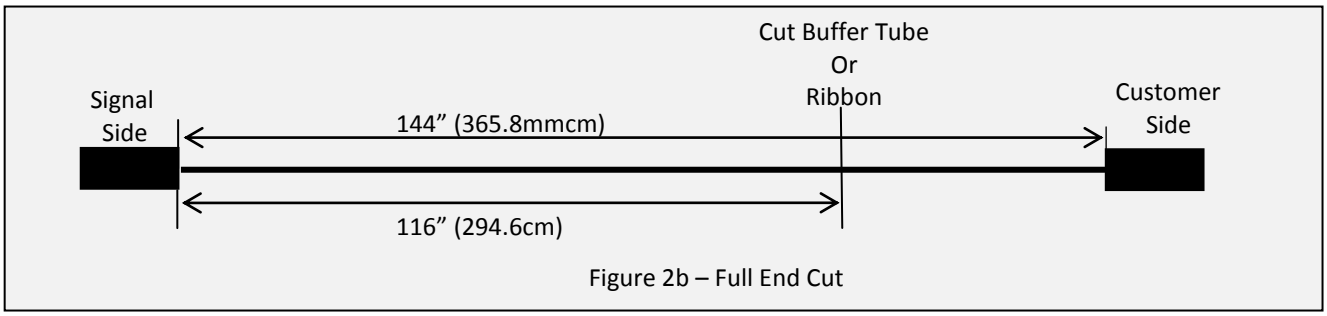

Figure 2b – Full End Cut

4.1.2 Full end cut: Remove 144" (365.8cm) of cable sheath exposing the central or loose tube buffers. Remove all Mylar and Kevlar, if present. Also, leave ~3.5" (89mm) of strength member for later trimming.

4.2 Remove all cable coating compounds. Clean sheath and all primary tubes and dielectric strands with an approved cleaner.

4.3 Clean outer sheath back approx. 6.00" (152mm) from opening using standard fiber optic splicing grade isopropyl alcohol. Allow the alcohol to dry completely.

4.4 Trim any solid filler tubes and discard.

4.5 Installation of Bonding Assembly (if required): The CGK Clamp-On Grounding Kit consists of (5) five 9.5-inch (24cm) #8 AWG flexible wires. The internal and external grounding lugs, shown in ***Figure 3***, are used to terminate the CGK Clamp-On Grounding kit wires. *Steps for installing the grounding wires is in a later section. If 5 grounds are to be isolated from each other than order LG350 FC000009-PS-5G.*

5.0 SELECTION OF CABLE SEAL ENTRY PORTS

5.01 Cable entry should start with the selection of one or both of the Express/Feeder ports first and then with the Drop/Lateral ports.

5.02 The port closest to the center section's hanger attachment is used for the first cable entering either side. Refer to ***Figure 3* – Cable Port Selection Guide.**

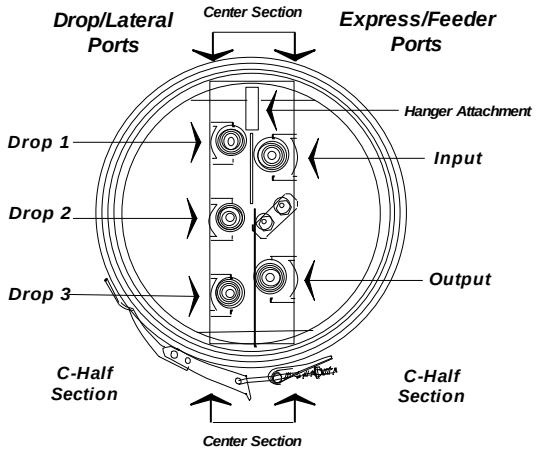

Figure 3 – Cable Port Selection Guide

5.03 Additional cables will be installed working away from the hanger attachments ports.

6.0 CLOSURE PREPARATION

6.01 Locate the pressure valve at the dome's end and remove the protective cap. Then, depress the valve core to ensure that all pressure was relieved at the factory.

6.02 Unlock and remove the V-Band clamp and set aside.

6.03 Remove the dome and the O-ring and set aside. Keep the O-ring as clean as possible.

6.04 Loosen the (6) captive hex head bolts on the C-Half section and gently separate the halves from the center section. Refer to ***Photo 1*** **– C-Half Sections and Center Section Mounting Bolts.**

Note: Make sure that the captive bolts are fully backed off before removing the C-Halves and then set aside.

Photo 1 – C-Half Sections and Center Section Mounting Bolts

6.05 Remove the selected cable clamp from the port by loosening the four (4) hex head bolts. Using a gentle rocking motion, lift the clamp out of the port. Refer to ***Photo 2*** **– Cable clamp Removal from Center Section.**

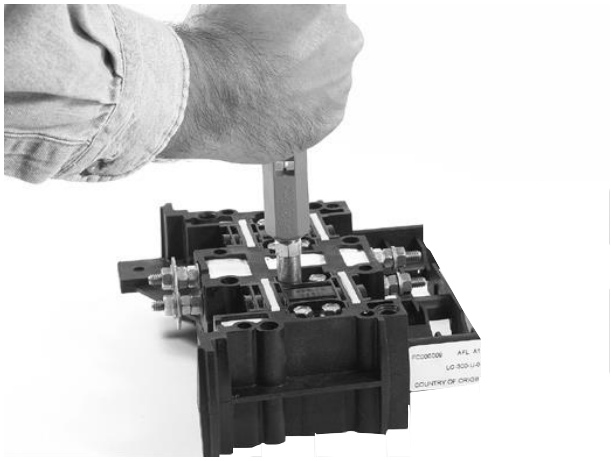

Photo 2 - Cable Clamp Removal from from Center Section

6.06 Cable clamp Removal from Center Section.

6.07 Remove the Central Strength Member (CSM) clamps aligned with the cable ports to be used using the provided Allen wrench and set the clamp plates and screws aside for later installation. See **Photo 3 –** ***CSM Clamp Removal*** and ***Figure 4***.

Photo 3- CSM Clamp Removal

7.0 PEEL AND SEAL (P&S) GROMMETS

7.01 For each Express/Feeder cable port there are a set of P&S grommets, one ½-grommet for cable leveling, and a lubricant blister pack and Diameter Band Mics for these ports. **See *Photo 4 – Grommet Kit Parts in Closure.***

Photo 4 - Grommet Kit Part in Closure

8.0 USING THE BAND MIC AND LAYER REMOVAL

8.01 Wrap the Band Mic around the cable in the sealing area to get a diameter reference and determine how many grommet layers should be removed. The Band Mic should be snug to the cable. The measurements provided will give the approximate diameter of the cable and also the corresponding number of layers to be removed from the grommet. If the cable diameter falls near or on the border of removing an additional layer, use the fewer number of layers initially and fit the grommet around the cable for the final fit. Refer to ***Photo's 5*** **– Measuring the Cable for Sizing Grommets.**

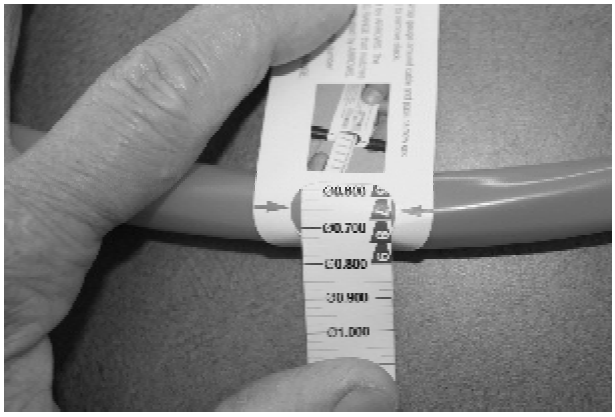

Photo 5 - Measuring the Cable

NOTE: Make sure that you are using the correct set of grommets and applicable Band-Mic for either the Express or Drop ports on the LG350 and that the initial measurements are correct.

8.02 Count the number of layers from the center core of the grommet to be removed. Assure your count does not include the center plug that is to be removed. Carefully tear the layers from the grommet by using a pealing motion on the grommet, Refer to ***Photo 6a – Counting the layers, Photo 6b – Tearing the grommet layers out***, and ***Photo 6c – Grommet with center core plug and layers removed.***

Photo 6a - Counting the Grommet Layers

Photo 6b - Tearing out the Grommet Layers

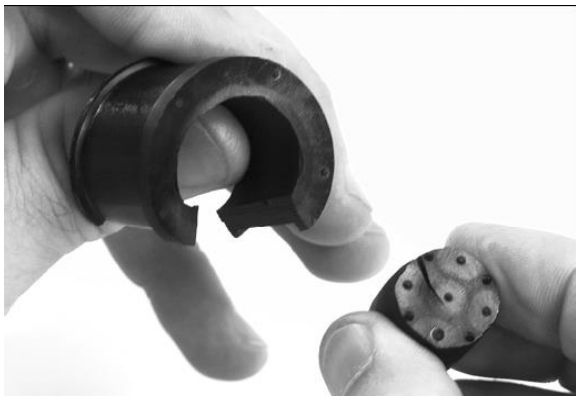

Photo 6c - Grommet with Center Plug and Layers Removed

8.03 Check the sizing of the grommet with the plug and layers removed. Determine if the fit is close to the final requirements. The seam in the grommet should close completely when compressed by hand around the cable. If you can't comfortably close the seam with one hand then another layer should be removed. A small gap will be eliminated when the grommet is compressed during final assembly. Refer to ***Photo 7 – Closing Grommet by Hand'***

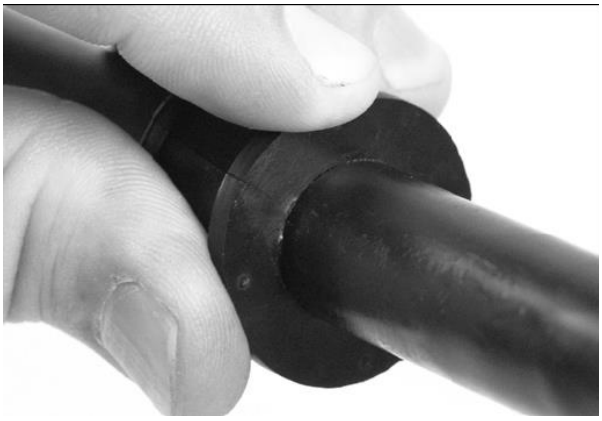

Photo 7 - Closing Grommet by Hand

9.0 GROMMET PLACEMENT AND ORIENTATION

9.01 The grommet must be properly lubricated to get the seal and uniform compression when compressed by the cable clamp. Open the blister pack of lubricant to the large flange of the grommet. Refer to ***Photo 8 – Grommet Lubrication.***

Photo 8 - Grommet Lubrication

9.02 The grommets will be placed on the cable at either the 6 o'clock position or 12 o'clock position. The larger flanges of the grommets' fit in the first and last groves of the cable entry port. The ends of the grommet where the layers are visible should now be facing each other.
Refer to ***Photo 9 – Proper Grommet Orientation.***

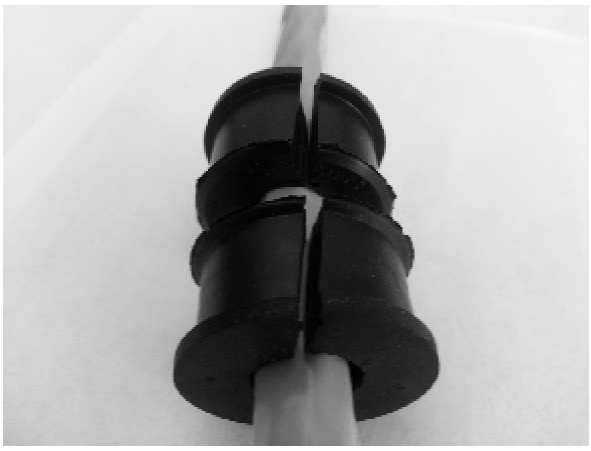

Photo 9 - Proper Grommet Orientation.

Note: For cable ports without cable, place the intact grommets at the same locations and orientation described previously.

9.03 To assure that the cable remains level going through the grommets and seal area of the center-base, a cable retention grommet is used to keep the cable flat and level to assist in the cable retention. The cable retention grommet is similar in design to the sealing grommet. It provides a cradle for the cable to lie in under the cable retention clamp. Remove the layers so that the cable remains horizontal as it exits the sealing grommets and is not deflected up or down by the cable retention clamp. Refer to ***Photo 10 – Cable Retention Grommet Position.***

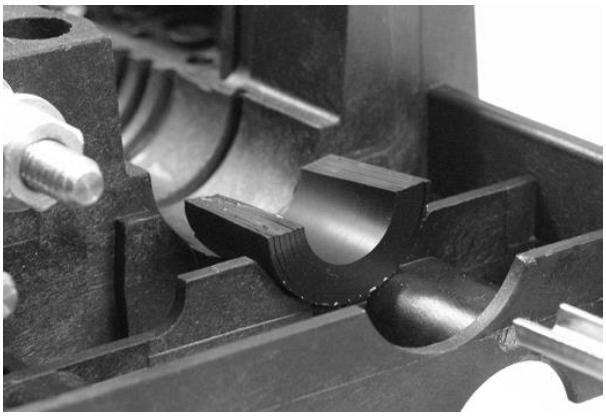

Photo 10 - Cable Retention Grommet Position

9.04 Position the grommets and cable into the cable entry port of the center section being careful to maintain the grommet orientation. Assure that the large grommet flange is positioned to the first groove of the first grommet and the last groove of the second grommet. Refer to ***Photo 11 – Cable Sealing Grommet in Center Section***.

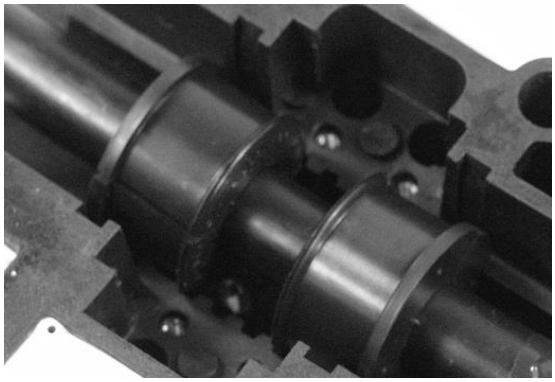

Photo 11 - Cable Sealing Grommet in Center Section

9.05 Move the cable until the sheath opening is even with the or just passed the retention trough.
9.06 Trim the CSM or outer strength members at this time. Be sure to orient the CSM so that no buffer tubes are trapped under the cable.

10.0 CABLE CLAMP INSTALLATION

10.01 Lubricate the cable clamp over the molded gaskets with the lubricant. Lubricate the interior of the cable where there will be contact with the grommets. Refer to ***Photo 12 – Lubrication of Cable Clamp.***

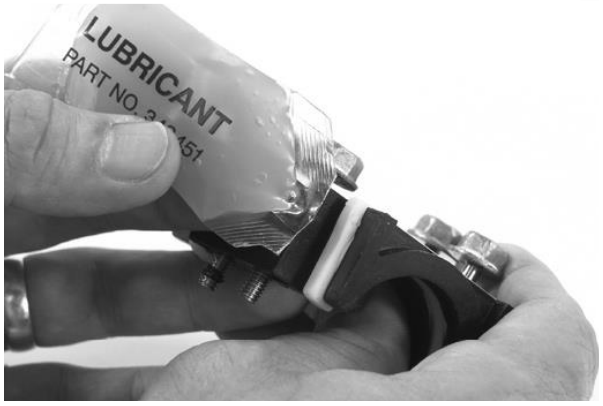

Photo 12 - Lubrication of Cable Clamp

10.02 Position the cable clamp over the cable and grommets that are in the entry ports. Be sure to position the cable clamp so that the grommet flanges are lined up properly to the appropriate grooves. Press the cable clamp in by hand to assure for proper seating. Tighten the cable clamp bolts by alternating in a crossing pattern to lower the cable clamp gradually and evenly for proper grommet compression. Assure that the grommet has compressed around the cable and that there is no apparent seam or gaps between the cable and the grommet surface. Refer to ***Photo 13 – Grommet and Cable Compressed in Cable Clamp.***

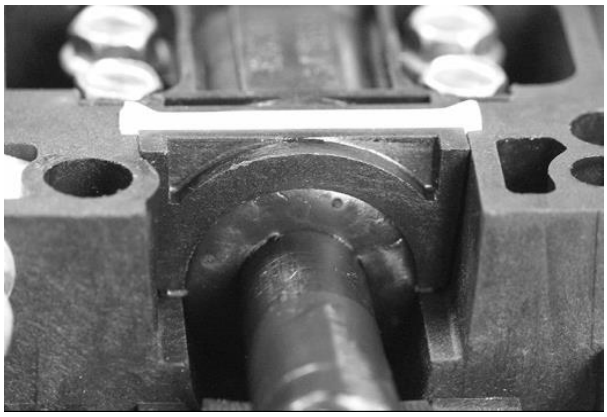

Photo 13 - Grommet and Cable Compressed in Cable Clamp .

11.0 CABLE SHEATH AND CSM RETENTION

11.01 Attach the cable to the closure's center section by installing a hose clamp over and around the cable, sheath retention clamp and cable retention grommet. Sheath retention clamp should be oriented as shown. Do not fully tighten the cable clamp at this time. See ***Figure 4 – Cable Retention Clamp Spur Orientation.***

11.02 Note the orientation of the cable retention clamp. The spurs inside the clamp should grip the cable should the cable be accidentally pulled out of the closure. Refer to ***Photo 14 – Cable Retention Clamp Orientation.***

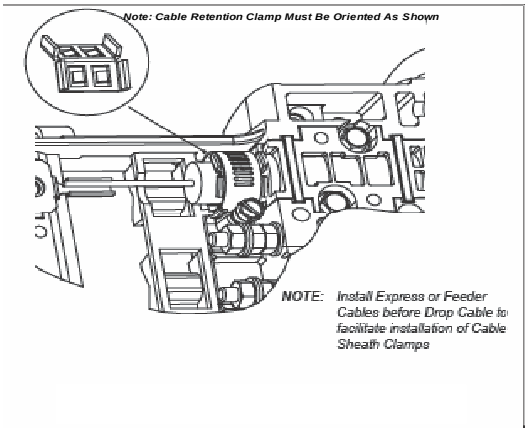

Figure 4

Photo 14 - Cable Retention Clamp Orientation

11.03 Assemble the CSM retention clamp assembly by installing the bottom plate into two alignment holes. Then, align the CSM or outer strength members and hand start the Allen Head screw. Refer to ***Figures 5a and 5b***.

11.04 Tighten the CSM clamp and then tighten the sheath retention clamp.

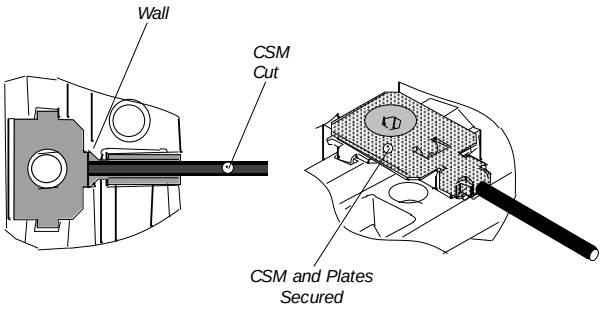

Figure 5a - Single CSM Clamp Installation

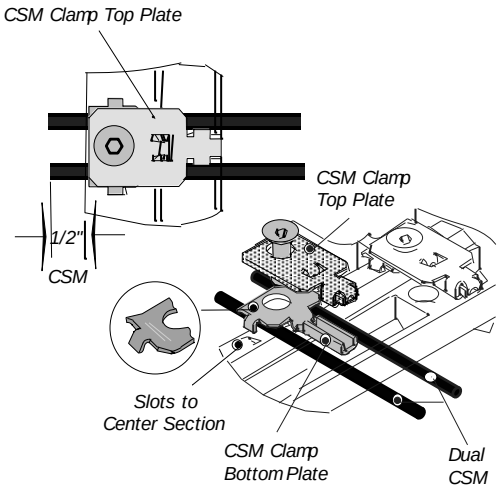

Figure 5b - Dual CSM Clamp Installation

12.0 INSTALLING BONDING ASSEMBLY

12.01 The CGK Clamp-On Grounding Kit consists of (5) five 9.5-inch (24cm) #8 AWG flexible wires. The internal and external grounding lugs, shown in ***Figure 6***, are used to terminate the CGK Clamp-On Grounding kit wires.

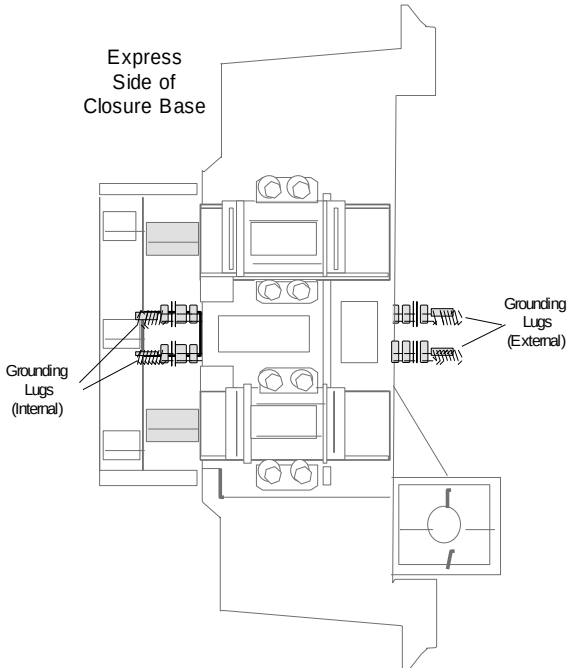

Figure 6 – Internal and External Grounding Lugs

12.02 After the cable has been installed into the closure, use tabbing shears (or similar tool) to cut through the armor and outer jacket. See ***Figure 7***. Cut a slit approximately 1 to 1-1/2-inches (25.4 to 38mm), length-wise, from the cable ring cut.

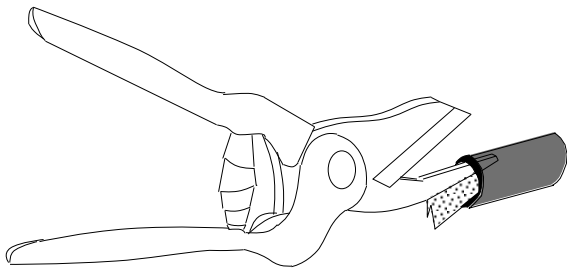

Figure 7 – Using Tabbing Shears to Cut Slit in Cable Jacket

12.03 Terminate the ring terminal(s) of the bond wire(s) on each of the cables to a common ground terminal on the inside of the center section. See ***Figure 8***. Tighten the ground terminal hex nuts securely.

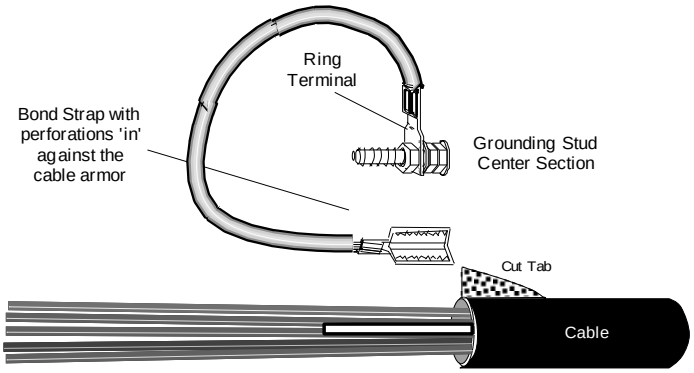

Figure 8 – Grounding Wire Attachment

12.04 Pull up the tab and place the alligator clamp to either side of the slit. Make sure one side of the clamp is under the armor and the other is on top of the cable jacket. Using lineman's pliers grip the clamp-on jaws and compress until the clamp is completely secured. See ***Figure 9***.

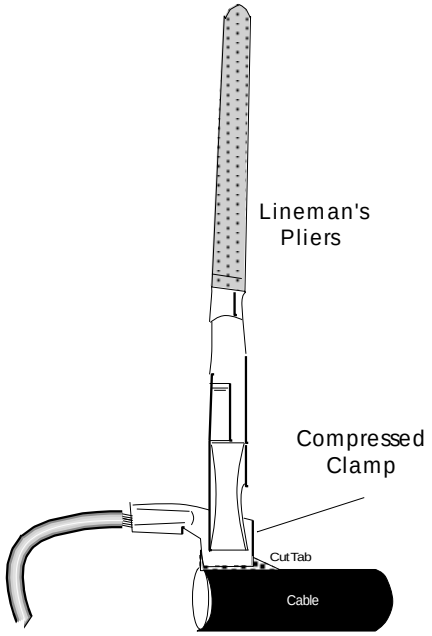

Figure 9 – Crimping the Alligator Clamp to Armor

12.05 Place a hose clamp loosely around the cable and clamp-on wire. Next, place the cable retention bracket with spurs facing towards the splice area away from the tab.

12.06 Tighten the hose clamp completely around the cable and clamp-on wire and cable retention bracket. This will ensure continuity to the armor.

13.0 COMMON AND ISLOLATED BOND WIRE INSTALLATION

Common Ground Installation:

13.01 Terminate the ring terminal of the bond wires (previously installed) on each of the cables to a common ground terminal on the inside of the center section. See ***Figure 10***. Tighten the ground terminal hex nuts securely.

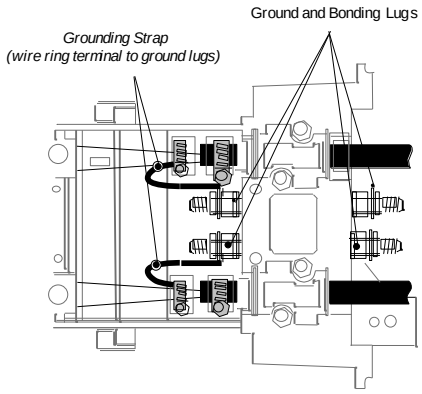

Figure 10 - Grounding and Bonding Terminal Lugs

Isolated Ground Installations:

13.02 Terminate the bond strap ring terminal from the cable to be isolated to an inside ground terminal. Tighten the ground terminal hex nuts securely. See ***Figure 10***.

13.03 When isolating the cables in drop ports D1 and D3, provide two to three layers of insulating tape over the 5/8" back side of the Express/Feeder central strength member tie down nuts. This will insulate them from the Drop/Lateral cables and any subsequently installed conductive strength members.

NOTE: IF installing flat drop cables into the closure you will be required to purchase a 4 port flat-drop grommet kit. These grommets are placed in the Drop / Lateral ports. Use kit part number: FC000422. The kit contains a retention bracket, 1 grommet with 4 flat drop ports and 4 flat plugs. Follow installation steps available with the kit.

14.0 INSTALLING FLAT DROP CABLE, AND FLAT DROP CABLE GROMMET USE *(Kit P/N: FC000422 – Purchased Separately)*

14.01 The Flat Drop Grommets are one-piece and contain 4 entry ports. Both flat and round (up to 0.25"OD) drops may be installed in each grommet.

14.02 Remove the single cable drop grommets from the drop port to be used.

14.03 Remove the retention bracket from the kit and install it in the v-groove adjacent to the entry port. Tightly secure the bracket with tie wraps. See ***Figure 11***.

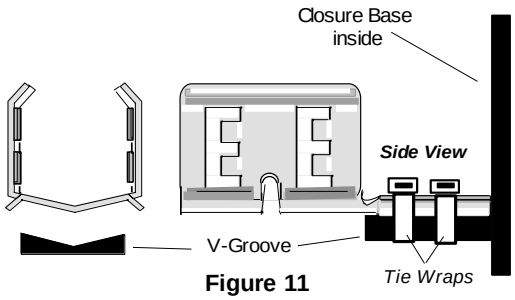

Figure 11

14.04 Cut the flat drop cable at a 45° angle. Firmly hold the grommet in your hand and push the cable through the grommet. See ***Figure 12***.

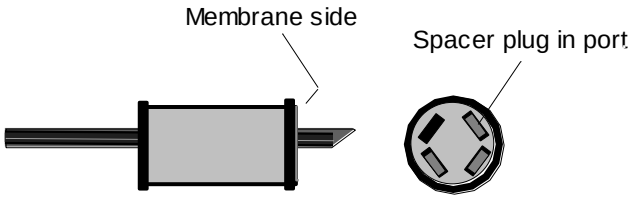

Figure 12 - Flat Drop Grommet

Install plugs into any empty grommet ports in order to maintain a round shape.

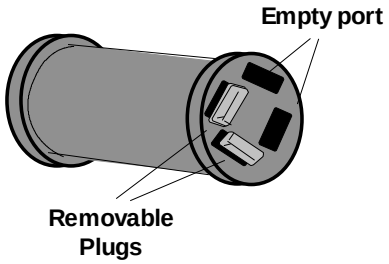

Figure 13

14.05 Pull approx. 15 feet of drop cable through the grommet port. Repeat for all drops to be installed.

14.06 Install the grommet with drops into the closure entry port with configuration as shown in ***Figure 16***, and secure in place by compressing with the cable clamp.

NOTE: If the drop has been spliced prior to installing the grommet, place a plug into the port to be used. Place the grommet inside the cable clamp and place on flat surface. With protective glove on hand not holding the knife, cut through the grommet over the plug from end to end with one firm cut. Then place the drop cable into the cable port. If the cut is jagged it may not seal properly. See ***Photo 15***. *Your snips may also be used as well to cut the slit. The cut must be as even as possible.*

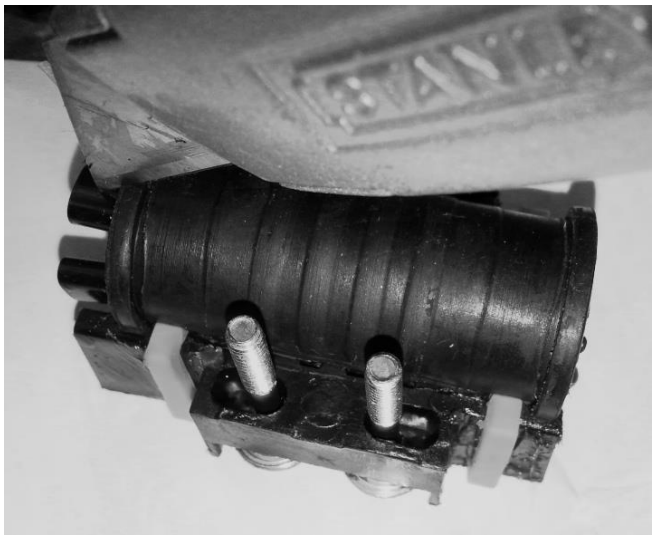

Photo 15

14.07 If pre-connected cables are installed then repeat the cutting steps as written above. If using a razor knife rotate the grommet within the cable clamp and repeat this step as with previous cut. Snips may also be used as well to cut the slit. The cut must be as even as possible. See ***Photo 16***.

14.08 Using locally approved methods, carefully remove approx. 10 ft of the outer drop jacket to expose the buffer tube. Repeat with all drop cables.

14.09 Follow locally approved methods when considering the CSM. Or, remove any strength members from the flat drops at the ring cut.

14.10 Secure the drop cable(s) to the retention bracket with the opening ¼-inch passed the bracket edge. See ***Figure 15***.

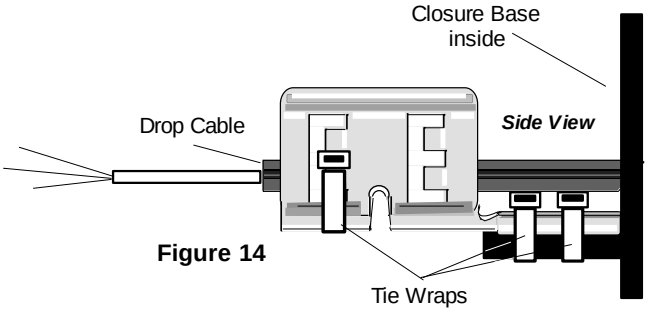

Figure 14

14.11 When securing the drops install the first drop at the bottom following the orientation described in ***Figure 16***. Secure the bottom cable first then the next on top of that. See ***Figure 16***.

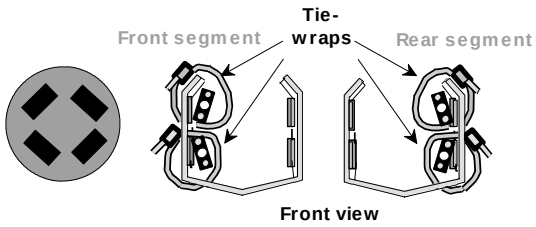

Figure 15

14.12 Be sure to snug up the tie wraps to prevent drops from slipping out.

15.0 STORAGE AND ROUTING OF FIBER BUNDLES

15.01 ***Full Cut Cables (Loose tube and Ribbon)*** Express/Feeder cables or from Drop /Lateral cables can be safely routed into the flexible routing clips attached to the frame center section. It is recommended that the loose buffer tubes be routed directly into the rings while ribbon and bare fibers be transported out of the transition area. (It is not necessary to transport the loose tube bundles into the transition tubing. Refer to ***Figures 16a and 16b.***

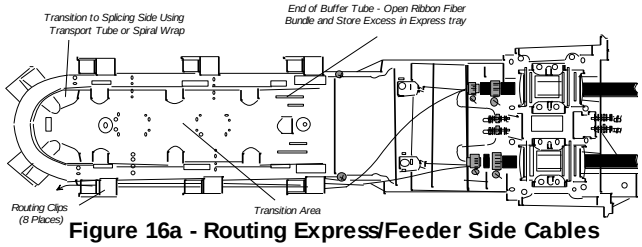

Figure 16a - Routing Express/Feeder Side Cables

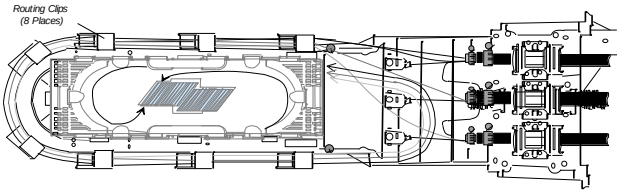

Figure 16b - Routing Drop/Lateral Side Cables and into the splice tray - Note the fiber direction is counterclockwise to prevent micro bends

Note: Use cut sections of spiral wrap for providing additional mechanical protection for fiber bundles as required.

15.02 ***Loose Tube Bundles*** Starting with the Express/Feeder cables, provide a method of identifying and separation for the input versus output of the bundles. Then, route the input and output into the flexible routing clips that are aligned outside of the center section of the frame.

15.03 Turn the center section over onto the Drop/Lateral side and route the Drop/Lateral loose tube bundles into the same routing clips with the Express/Feeder bundles. Again, provide a method of identifying the bundles.

Note: If all fibers in the Drop/Lateral cable bundles are not assigned for splicing, the AFL 1x6 Router Kit (P/N: FC000070) is recommended for use to route those fibers into the tray at this time.

15.04 Route all bundles around the inside center section of the frame and direct them towards the top of the tray. Refer to ***Figure 17***.

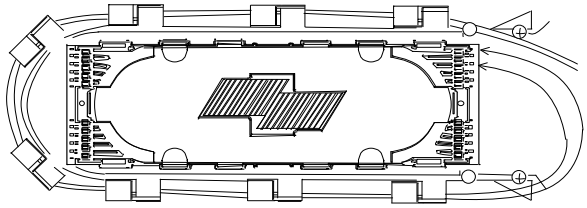

Figure 17 - Routing/Marking Bundles for Tray Entry

15.05 Temporarily install a splice tray onto the tray support. While maintaining minimum bending radii, route a bundle up and into the tray. Place a mark on the bundle for the desired opening (this routing will provide sufficient working slack and bare fiber for splicing). Refer to ***Figure 16b***.

15.06 ***Ribbon Bundles*** Starting with the Express/Feeder cables, provide a method of identifying and separation for the input versus output bundles in and out of the transition area.

15.07 Using either solid transition tubing or flexible spiral wrap, route the two bundles around then through the routing rings and back towards the top of the trays.

15.08 Rotate the closure over to the Drop / Lateral side and then route the drop cable bundles into the flexible routing rings to join up with the Express/Feeder bundles.

15.09 Determine the amount of slack required and mark all bundles. Dress slack back towards the storage area.

Note: If all fibers in the Drop/Lateral cable bundles are not assigned for splicing, the AFL Ribbon-Link Fan-out Kit C189834 is recommended for use to route those fibers into the storage tray at this time

15.10 ***Express cable (Loose Tube and Ribbon)*** **Installation –** Refer to ***Figures 18a and 18b.***

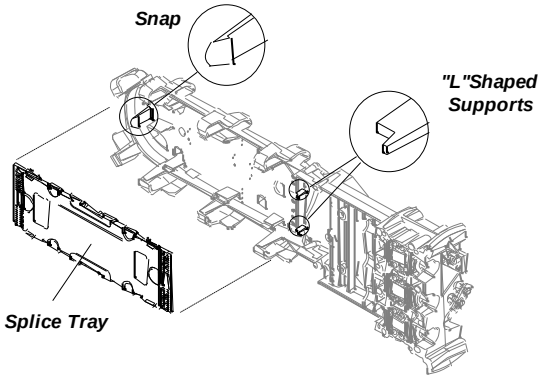

Figure 18a - Storing Fiber Trays

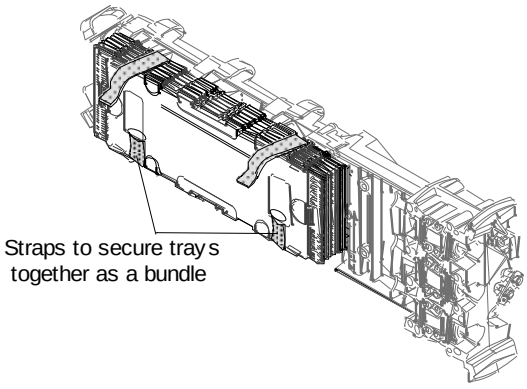

Figure 18b - Securing Splice Trays

Note: The area opposite side of trays is designed to store unused fiber slack from drop cable bundles or express cables.

Express Feeder Bundles can be safely stored on the express side of the closure until requires for splicing. Ribbon bundles can be stored in either the routing rings or in the slack basket. If storing in the slack basket, use ¼" hook and loop strips and not tie wraps for tying the bundles. Loose tube bundles may be stored in the routing rings.

15.11 ***Loose Tube Bundles –*** Separate the loose tubes required for mid-access splicing and then store the remaining tubes in the routing rings.

15.12 Route the tubes into the routing rings and rotate the closure to the drop side.

15.13 Route the Drop/Lateral bundle with Express/Feeder bundles and route all up to the splice tray. Mark the bundle entry.

Note: If all fibers in the Drop/Lateral cable bundles are not assigned for splicing, the AFL 1x6 Router Splitter Kit (P/N: FC000070) is recommended for use to route those fibers into the tray at this time.

15.14 ***Ribbon Bundles*** - Express or mid-accessed Ribbon Bundles are stored in the basket area of the closure. Remove the bundles required for splicing and store all unused bundles into the basket area.

15.15 Route the required bundles around to the Drop/Lateral side using the routing rings.

15.16 Route the drop and express bundles to the tray and prepare as required.

16.0 SPLICE TRAY STORAGE (Refer to Figures 19a and 19b)

16.01 The center section is provided with notched supports, a hook and loop strap, and a snap to retain the bottom standard splice tray. Additional trays are secured by a hook and loop strap provided with the closure.

16.02 The closure capacity is determined by the type of tray selected for 384 single fusion (LL4896 – 96 single fusion splices) or 1152 ribbon mass fusion (LL4848 – 144 fibers) .

16.03 Fiber bundles o the LL-2450 and LL-4850 trays should be routed and secured through the top end of the tray to maximize working fiber lengths in express applications.

16.04 After splicing is complete and the trays are stored, secure them by using the hook and loop strap provided. See ***Figure 18a and 18b.***

17.0 SECURING C-HALF SECTIONS

17.01 Prior to securing the C-Half section to the Center Section, recheck the torque of each cable entry clamp. Confirm that the bolts are torqued down and the top of the cable(s) clamp(s) are flush with the top of the Center Section. (Cable clamp torque is 23 in/lbs.) Check each cable retention clamp and CSM clamp to assure these are tight.

17.02 Apply ample lubricant to the gasket surfaces of the C-Half and the gaskets at the top of each cable clamp. See ***Photo 16***. Place the C-Half over the center section and tighten the bolts by using the sequence in ***Figure 19 and Photo 17***. This will assure a secure installation.

Photo 16 - Lubrication of C-Halves

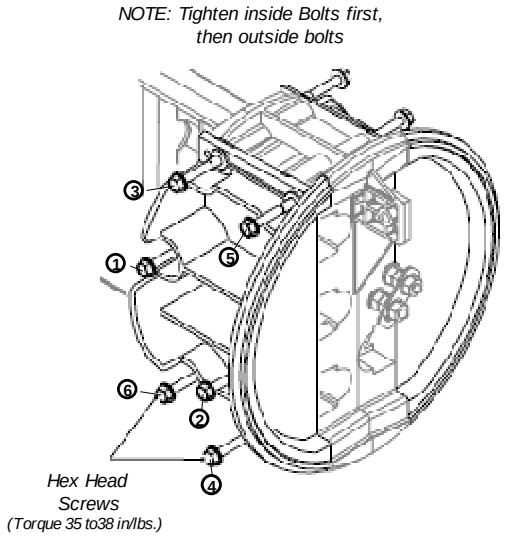

Figure 19 - Tightening Sequence for C-Halves

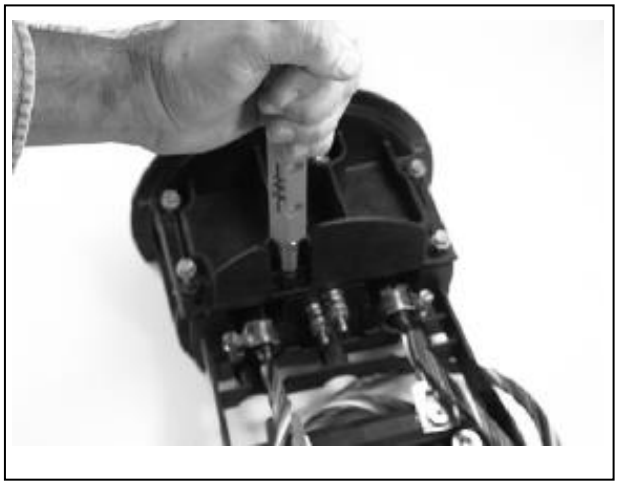

Photo 17

17.03 Apply lubricant on both sides of the O-ring and place over the frame to properly seat it at the base inside the closure. ***Photo 18.***

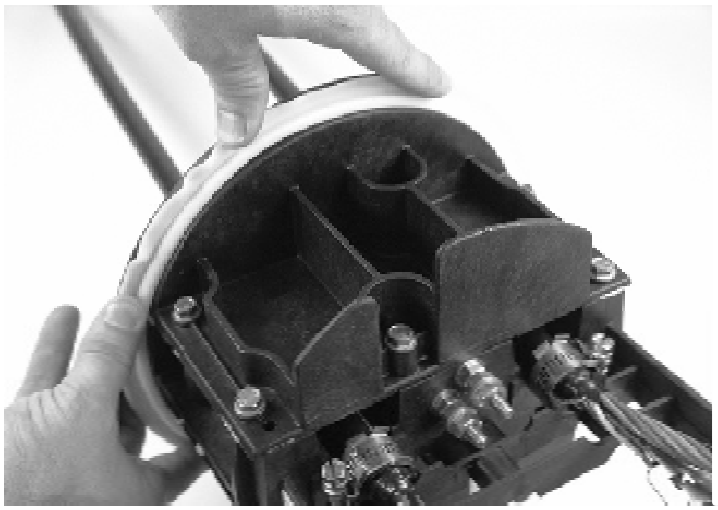

Photo 18 - O-Ring Placement on Base

17.04 Install the dome closure over the assembly. The dome nose and base tab should be aligned for proper installation. See ***Figures 20, 21*** and ***Photo #19***.

Photo 19 - Dome Alignment

17.05 With dome properly aligned, install the v-band over the dome and base flanges. When snapping the assembly together a little force should be required for a seal. If the v-band snaps easily then use a can-wrench, or similar tool, to tighten the nut on the v-band. DO NOT OVER TIGHTEN. See ***Photo #20.***

17.06 The closure may be tested for leaks by applying 3-5 lbs. of air pressure then pouring water over the base with the dome nose sitting on a flat surface. If bubbles are not seen within a few minutes the unit was properly installed. Remove any pressure from the closure before mounting

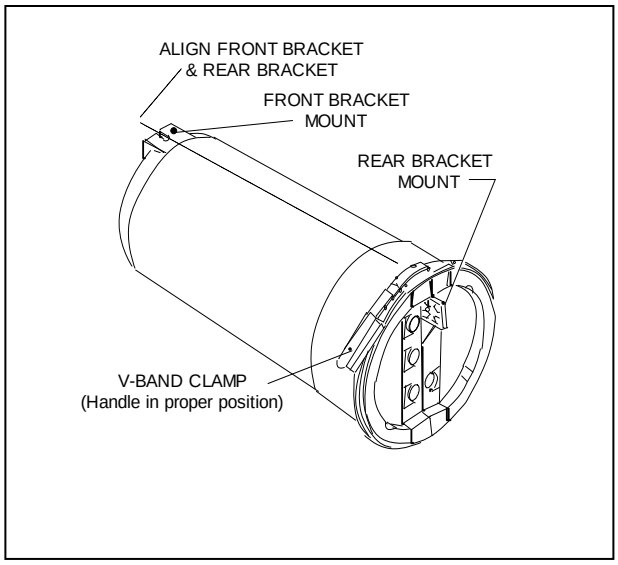

Figure 20 – Aligning of Mounting Brackets

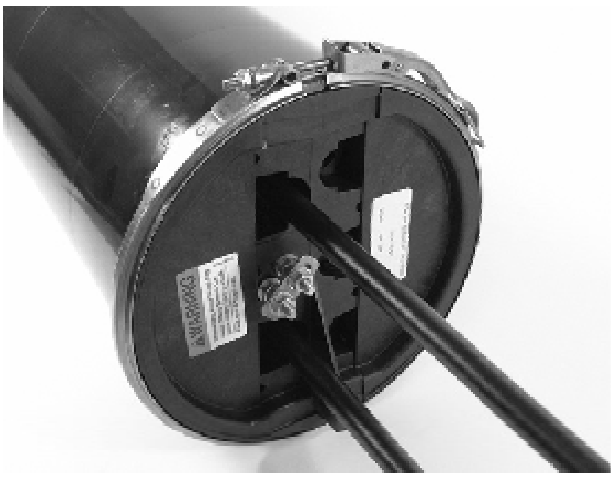

Photo 20 - V-Band Alignment to Base

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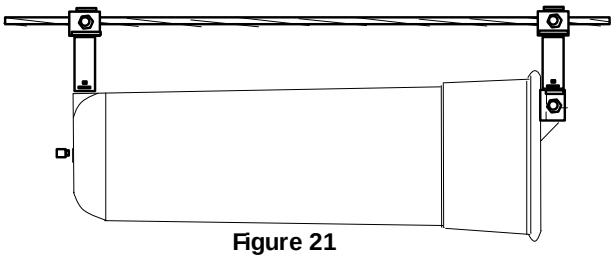

Figure 21

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