Aerial Splicing Platform

1. General

1.1 This procedure describes the use of the Corning Cable Systems Aerial Splicing Platform (p/n ASP-001). This unit is used to secure an X75, X77, or miniMASS® fusion splicer to a steel stranded messenger below an aerially-mounted splice closure. This allows for optimal placement of a Corning Cable Systems fusion splicer when minimal fiber slack is present. The ASP adjusts to accommodate most fiber optic splice closures.

1.2 This issue includes updated corporate information.

2. Precautions

2.1 Electrical Hazard Precautions

WARNING: *Do not attach this platform to any energized conductors. Check the messenger strand for electrical charge before attaching the Aerial Splicing Platform.*

Do not attach the platform if any charge is present.

Keep platform away from power lines.

Failure to observe these precautions may result in life-threatening injury.

2.2 Fusion Splicer Precautions

WARNING: *Read and follow all the precautions provided with your fusion splicer. Failure to do so may result in personal injury or damage to the splicer.*

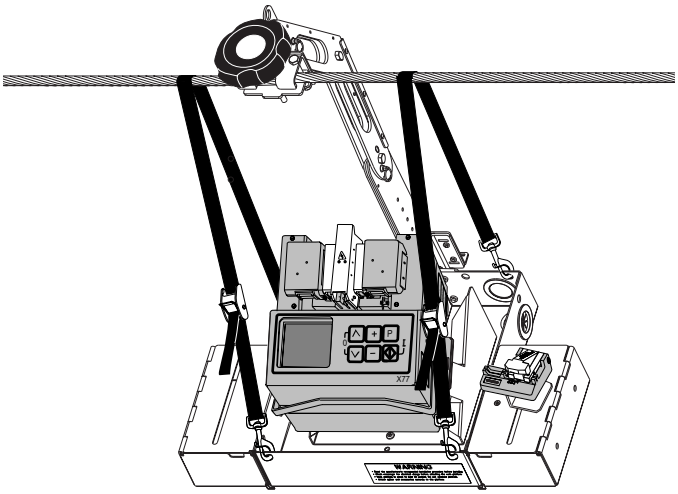

Figure 1

2.3 Aerial Splice Platform Precautions

WARNING:T*he Aerial Splicing Platform is rated to hold up to 20 lbs (9 kg). Do not overload the platform.*

CAUTION: *Never attach the Aerial Spicing Platform to a communications cable. Doing so can cause extensive cable damage. The platform is designed only to be attached to a stranded steel messenger.*

WARNING: *Securely attach the splicer and its accessories to platform.*

Keep the area below platform clear at all times in case of falling objects.

CAUTION: *Do not place the strand clamp arm in its transport position with a splicer installed in platform. This can cause extensive damage to the splicer that will not be covered under warranty.*

3. Tools and Materials

3.1 In addition to the hardware provided with the Aerial Splice Platform, the following tools are required to complete this procedure:

- Slotted screwdriver
- Phillips head screwdriver

4. Platform Components

4.1 Figure 2 designates the components of the Aerial Splicing Platform.

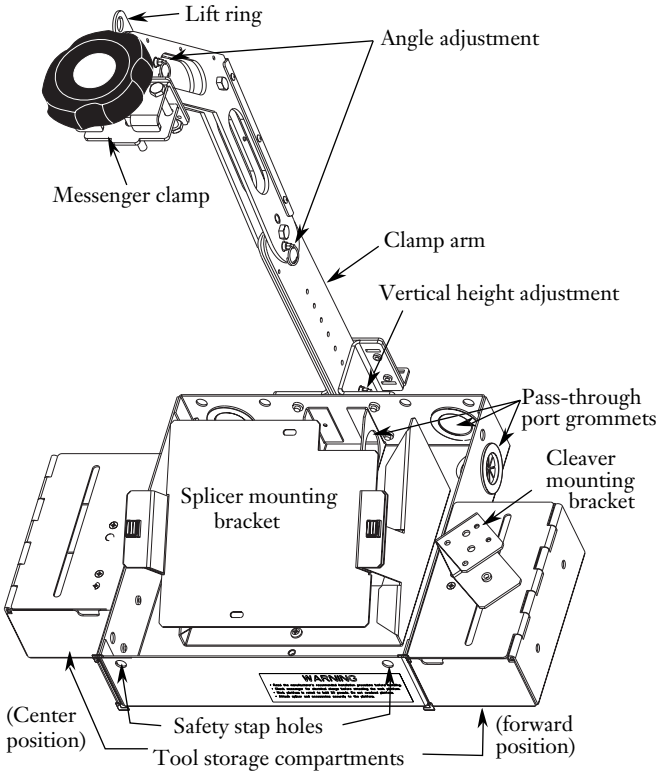

Figure 2

5. Attaching Splicer Mounting Hardware

5.1 There are various powering configurations available on Corning Cable System fusion splicers. Please identify which configuration is present on the splicer that you will be using and follow the appropriate instructions.

Note: *It is not necessary to remove the hardware after each use. The splicer should fit securely in its carrying case with the mounting hardware installed.*

Splicer with an AC/DC 70-Watt Attachment Power Supply

5.2 Remove the eight screws (four per side) securing the side plates which attach the power supply to the base of splicer with a slotted screwdriver (Figure 3).

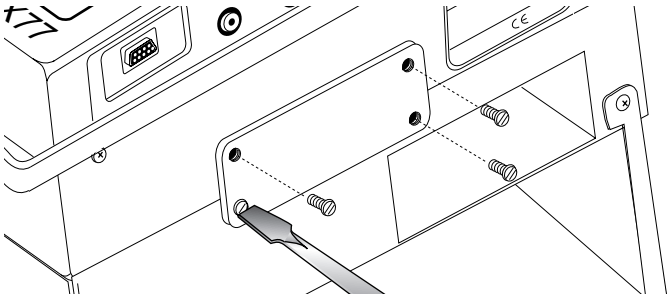

Figure 3

5.3 Replace the side plates with brackets provided with the ASP. Secure the brackets with the eight screws removed in the step 5.2 (Figure 4).

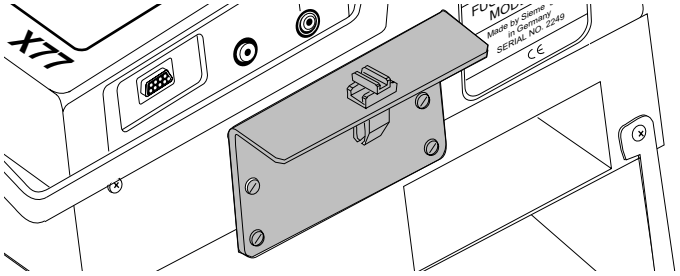

Figure 4

5.4 If you will be changing batteries while the splicer is placed in the platform, remove the tilting stand at this time (Figure 5):

a) Remove the two Phillips head screws which secure the tilting stand.

b) Remove the tilting stand and save it for future use. Reinsert the screws in the power supply to prevent their loss.

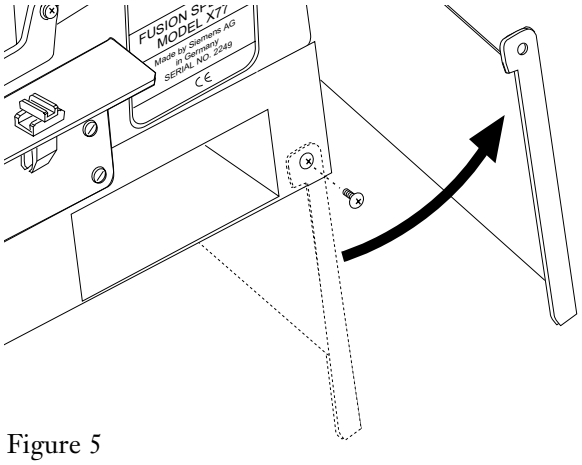

Figure 5

Splicers with an AC/DC Upgrade Kit Installed

5.5 To prepare a splicer which has an AC/DC Upgrade Kit (p/n X7-AC/DC-PWR):

a) Remove the four slotted screws which secure the adapter plate brackets to the power supply (Figure 6).

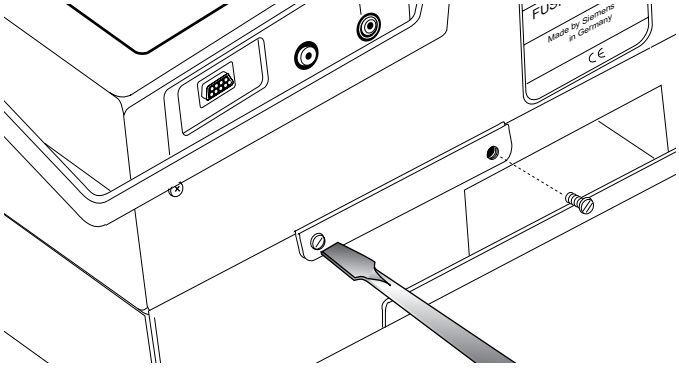

Figure 6

b) Lift the splicer about 5 cm (2 in) above the power supply to expose the power cord.

c) Detach the power supply electrical plug from the receptacle on the bottom of the splicer (Figure 7).

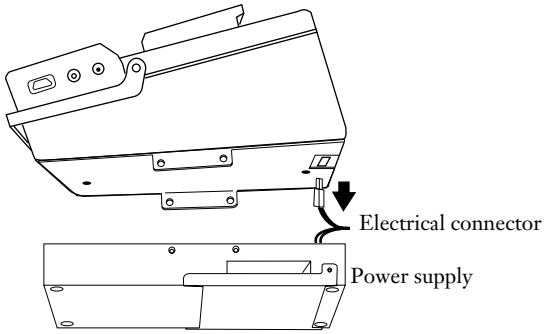

Figure 7

d) Remove the two short slotted screws which secure the adapter plate to the bottom of the splicer (Figure 8).

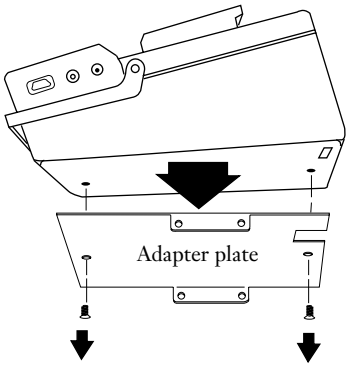

Figure 8

e) Align the bracket plate provided with the ASP with the power supply adapter bracket. Secure the "sandwiched" plates to the bottom of the splicer with the two slotted screws removed in step 5.5 d) (Figures 9 and 10).

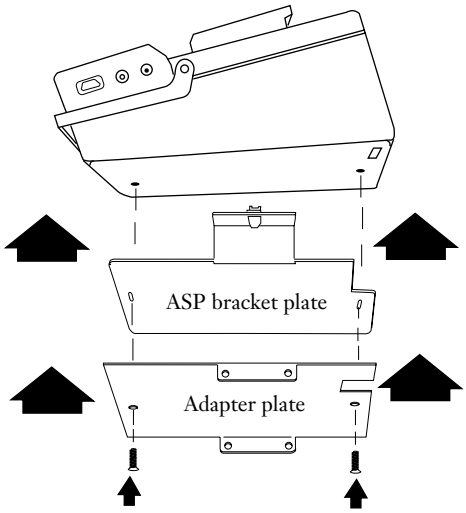

Figure 9

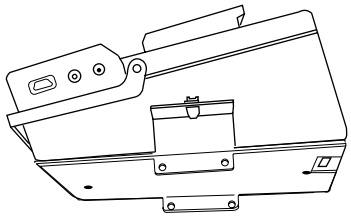

Figure 10

f) Reattach the electrical plug from the power supply into the splicer's receptacle (Figure 11).

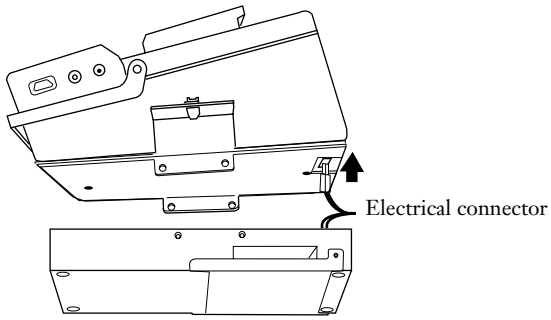

Figure 11

g) Align the holes of the adapter plates with the threaded holes of the power supply and secure the two together with the four screws removed in step 5.5 a) (Figure 12).

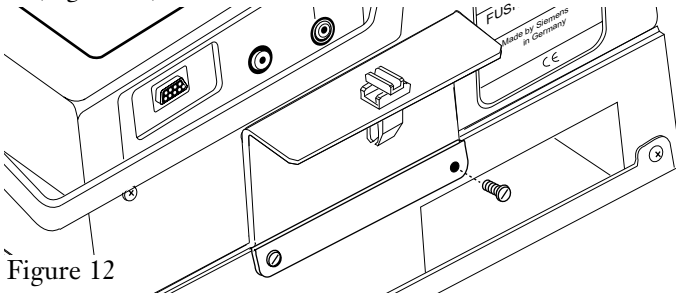

Figure 12

5.6 If you will be changing batteries while the splicer is placed in the platform, remove the tilting stand at this time (Figure 13):

a) Remove the two Phillips head screws which secure the tilting stand.

b) Remove the tilting stand and save it for future use. Reinsert the screws in the power supply to prevent. their loss.

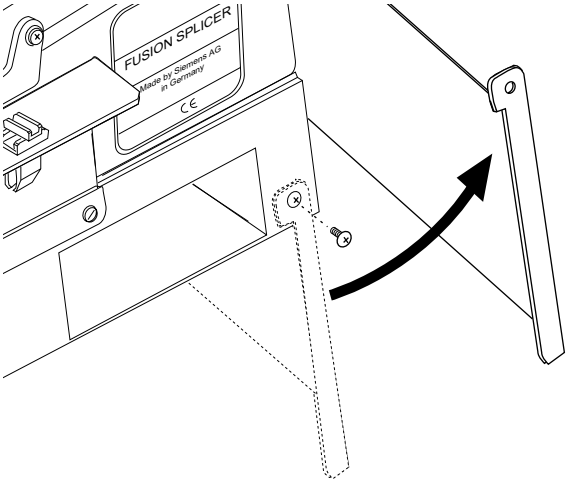

Figure 13

Splicer with DC Battery Pack or Twin Camcorder Battery Pack installed.

5.7 To prepare a splicer which has a solid 12 VDC Battery Pack or Twin Camcorder Battery Pack (p/n15-216-35):

a) Remove the two long slotted screws which secure the battery pack to your splicer.

b) Unplug the connector between the splicer and the battery pack (Figure 14).

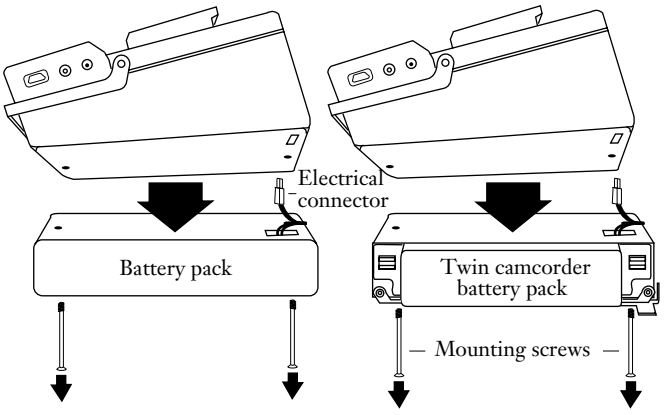

Figure 14

c) Align the bracket adapter plate provided with the ASP with the mounting holes in the power supply.

d) Attach the electrical plug from the power supply into the receptacle on the bottom of the splicer.

e) Secure the the battery pack and adapter plate to the bottom of the splicer with the two long slotted screws (Figures 15 and 16).

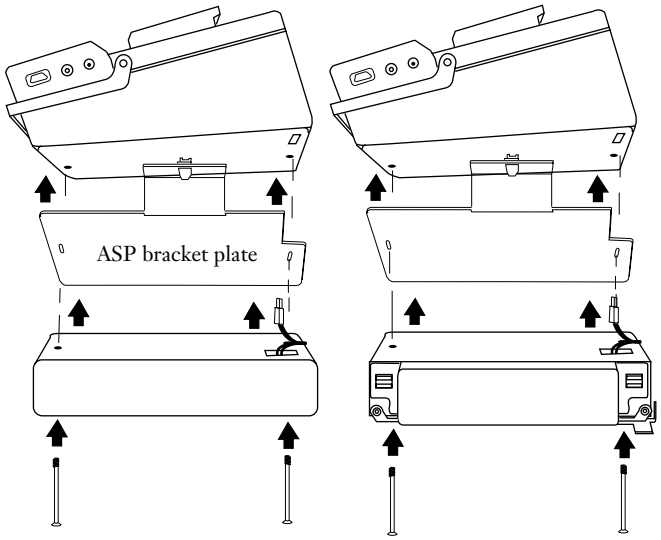

Figure 15

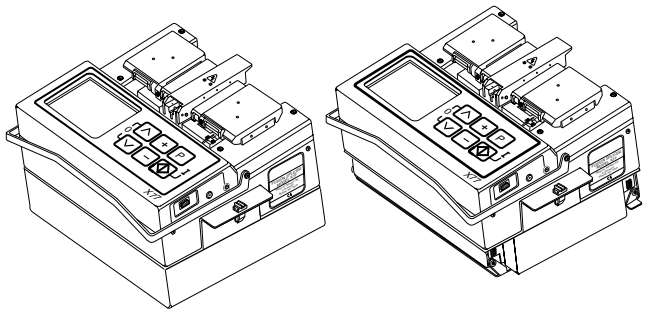

Figure 16

6. Securing the Splicer and Cleaver to the ASP

This section assumes that you have attached all necessary mounting hardware to the splicer as described in section 5.

6.1 Remove the splice tray holder from the rear of the splicer if applicable.

6.2 If necessary, use the spring-loaded adjustment rings to extend the arm to its primary working position (Figure 17). To use the adjustment rings:

a) Pull the ring back and and hold it in its open position to free the arm.

b) Reposition the arm as necessary.

c) Release the ring, making sure that it engages the newly selected position hole in the arm.

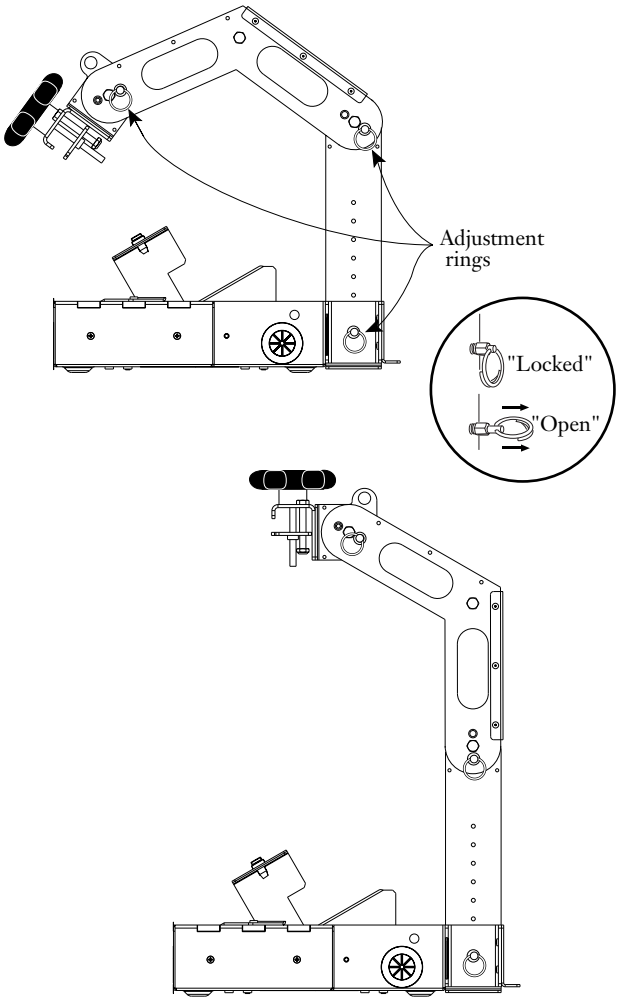

Figure 17

6.3 The platform mounting bracket has two positions. Determine which location is best for your splicer, and if necessary, remove the screws holding the bracket, and reposition it in the platform (Figure 18).

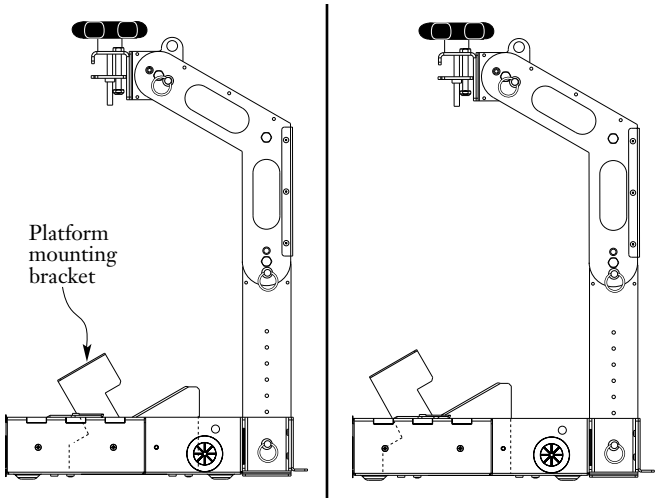

Figure 18

6.4 Place the splicer in the platform. Align the mounting bracket's plastic latches with the square holes in the platform mounting bracket (Figure 19).

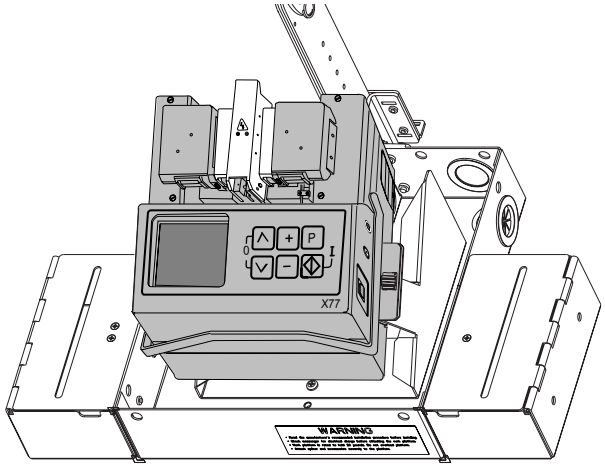

Figure 19

6.5 Rotate the plastic latches with your fingers to lock the splicer in place (Figure 20). *If you experience difficulty, re-seat the splicer or use a coin to rotate the latches.*

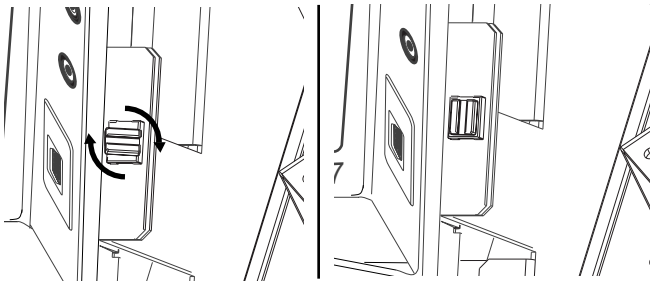

Figure 20

6.6 Cables or wires from the splicer may be routed through the rear or side grommets (see Figure 21).

6.7 The tool compartments may be attached to the platform in two different positions, or removed from the platform for a lighter or more compact unit (Figure 21)

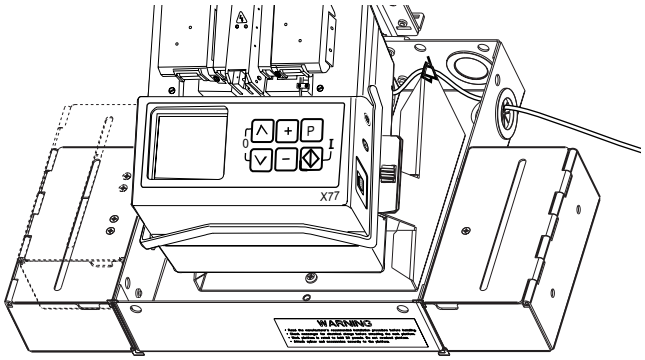

Figure 21

6.8 If desired, secure a cleaver to the ASP's cleaver mounting bracket (Figure 22).

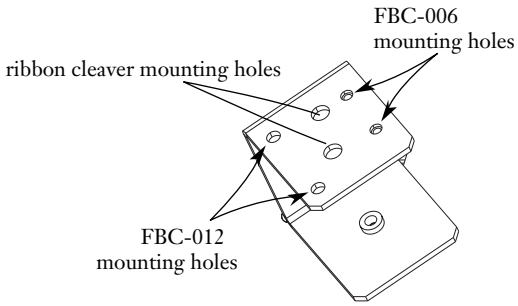

Figure 22

6.9 Use the provided screw and washer to.attach the cleaver mounting bracket to the long slot on one of the tool storage compartment doors (Figure 23).

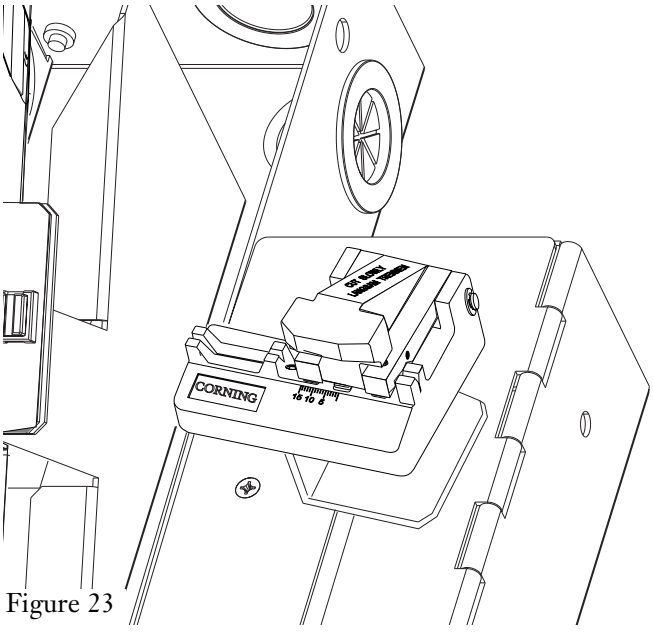

Figure 23

7. Using the ASP

6.1 To prepare the Aerial Splicing Platform for use (Figure 24):

a) Verify that the arm is positioned in its standard working position.

b) If necessary, elevate the arm to its maximum vertical position using the vertical height adjustment ring.

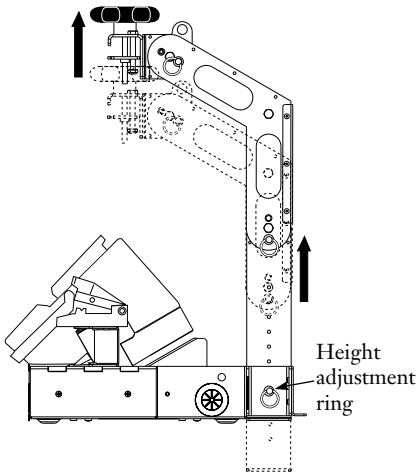

Figure 24

7.2 At the splice point on the stranded steel messenger:

a) Remove the splice closure's cover

b) Attach the clamp on the arm to the messenger. Position the clamp along the strand as close to the shortest fiber as possible.

Tighten the rotating knob to secure the clamp. *Do not over-torque the clamp- hand-tight is sufficient.* (Figure 25).

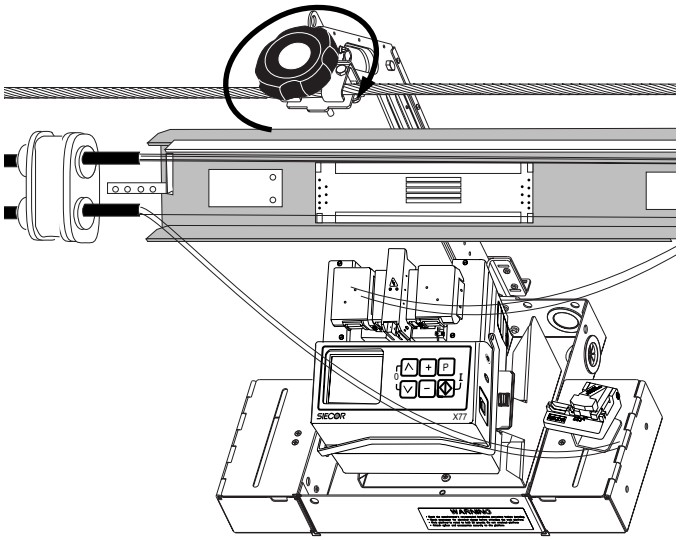

Figure 25

c) Place the safety straps over the messenger and attach them to the ASP. Shorten the length of the straps by using the buckles (Figure 26).

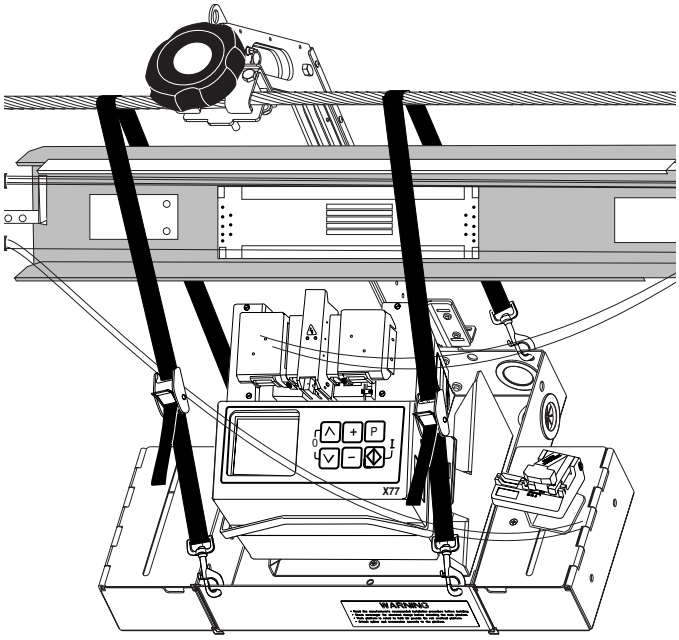

Figure 26

d) To adjust the ASP's position (Figure 27):

1) Place one hand under the platform..
2) Gently pull on the vertical height adjustment ring with the other hand.
3) Raise the platform as close to the closure as possible and release the ring. Move the platform gently until the pin locks in place.
4) Readjust the safety straps.

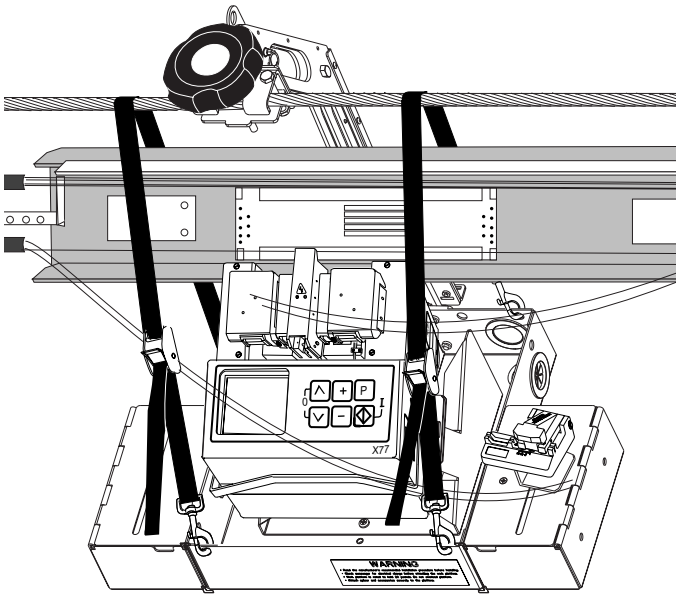

Figure 27

7.3 Splice the optical fiber using recommended procedures. Store the splices inside the closure.

7.4 At the end of the splicing operation:

a) Remove the safety straps.

b) Loosen the clamp by rotating the knob. Carefully remove the ASP from the messenger.

c) Place the cover back on the closure.

d) Back on the ground, return the splicer and cleaver to their transit cases.

e) Rotate the arm into its storage position (Figure 28).

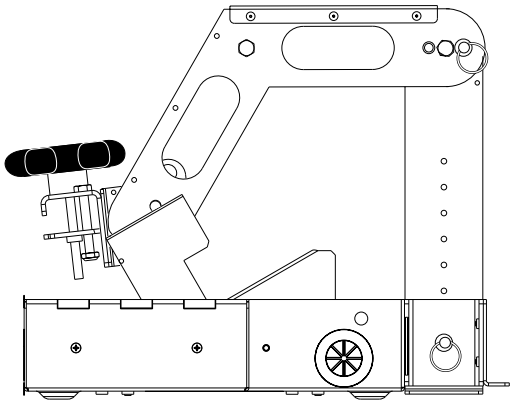

Figure 28

Special Note: Fiber Optic Training Program

Corning Cable Systems offers comprehensive, integrated training programs. Courses are structured for: Telephony, CATV, LAN, Intelligent Transportation Systems and Power Utilities.

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