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Installation Instructions for Cirrus Channel Suspension D1 with 4" Square or Round Canopy

CS__-4S__-__
 CS__-4R__-__

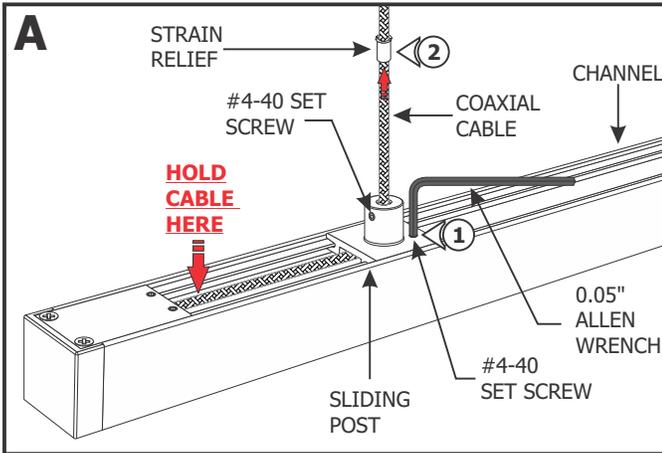
IMPORTANT INFORMATION

- This product is suitable for indoor locations.
- This instruction shows a typical installation.
- It is recommended more than one person to assist in this installation.

SAVE THESE INSTRUCTIONS!

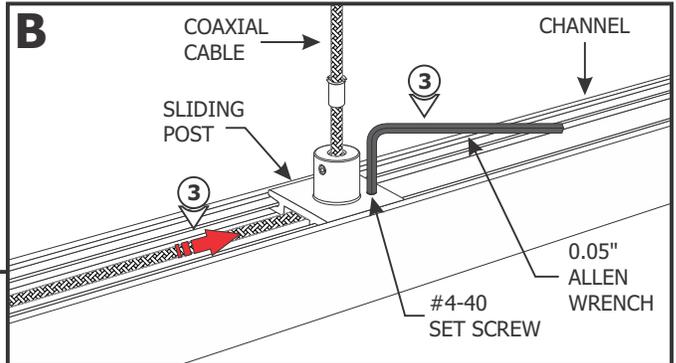


Section One: Adjusting Cable Position

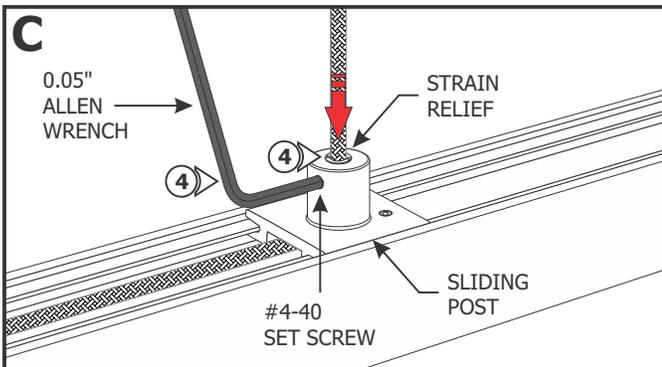


WARNING: To avoid damaging the coaxial cable electrical connection, make sure that the end of the coaxial cable coming out of the fixture is held with thumb before relocating sliding posts.

- 1: Loosen (**DO NOT REMOVE**) the #4-40 set screw on the sliding post bushing and bed with a 0.05" Allen wrench.
- 2: Slide the strain relief tube out of the sliding post using a pair of needle-nose pliers.

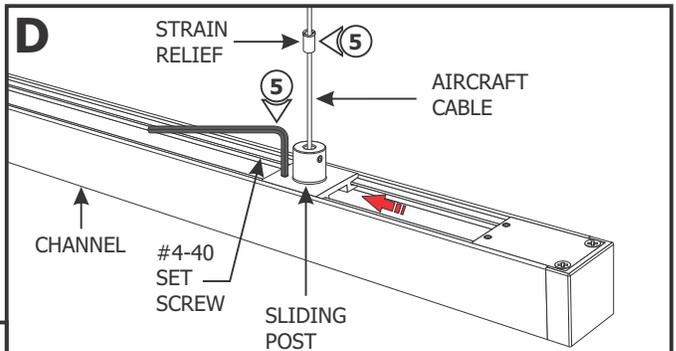


- 3: Carefully move the sliding post to the predetermined location on channel and tighten the #4-40 set screw on the sliding post bed with the 0.05" Allen wrench.



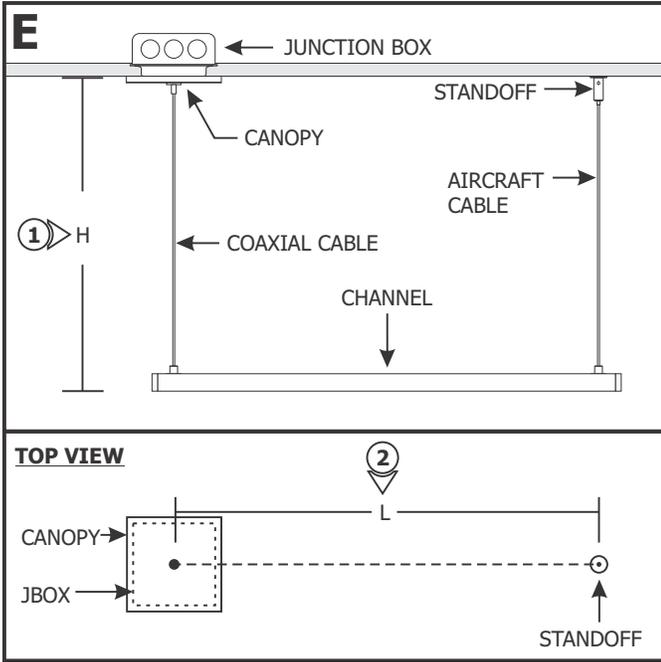
CAUTION! Tightening the strain relief set screw **CANNOT BE REVERSED**. Only tighten the set screw **AFTER** the cable location is set properly.

- 4: Insert the strain relief tube back inside the sliding post bushing and tighten the #4-40 set screw with the 0.05" Allen wrench.



- 5: Repeat Steps 1 through 4 for aircraft cables.

Section Two: Install the Standoff



NOTE: Run the proper size wires between the 24VDC power supply to the electrical box. Refer to the instructions provided with the power supply for additional information.

NOTE: Omit Section Five if the channel is made out of a single piece.

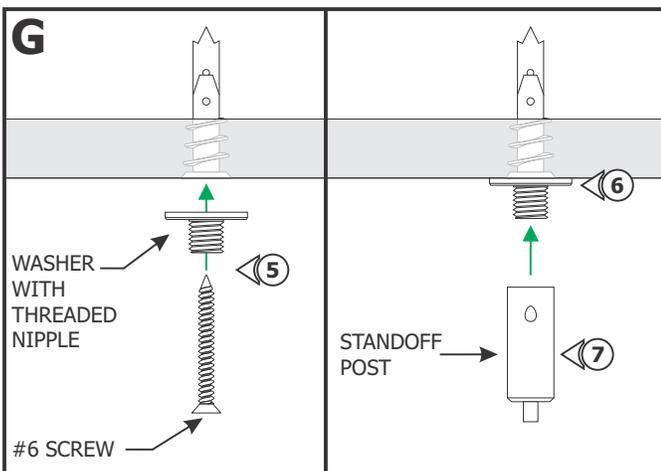
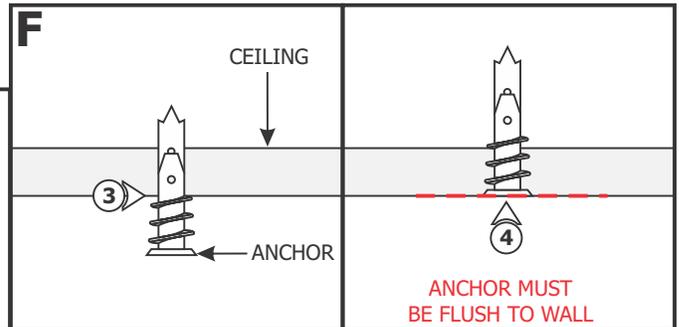
1: Determine the fixture height (H) from the bottom of the channel to the top of the canopy.

2: Determine the fixture length (L). Measure the distance between the coaxial cable and the aircraft cable on the channel. Mark the standoff location on the ceiling from the center of the junction box.

NOTE: Omit steps 3 through 10 if using support canopy. Refer to Section Three: Install the Support Canopy.

3: Tap the anchors onto the marked points up to the threaded portion with a hammer.

4: Screw in the threaded portion of the anchors with a Phillips screwdriver.



5: Feed the #6 screw through the washer with threaded nipple into the anchor.

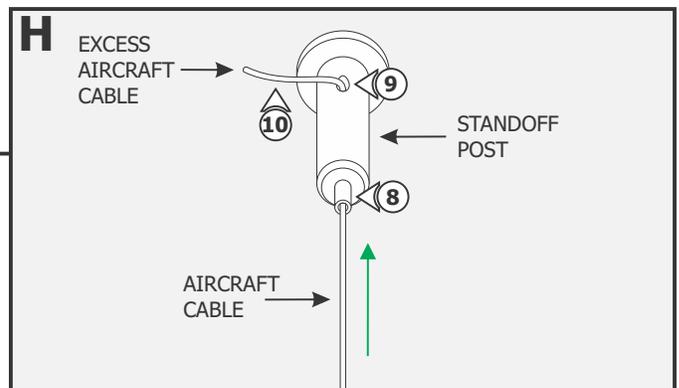
6: Tighten the #6 screw completely into the anchor.

7: Tighten the standoff post completely onto the threaded nipple.

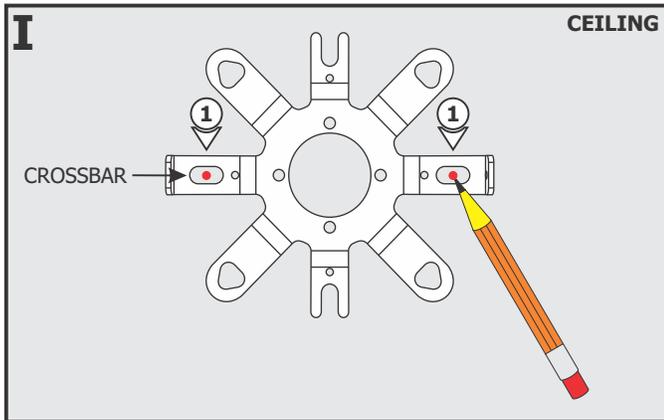
8: Feed the aircraft cable coming from the channel through the standoff post.

9: Adjust the fixture height by pushing the tab and pulling the aircraft cable out of the side of the standoff post. Release the tab to secure the cable in place.

10: If necessary, trim excess aircraft cable using sharp cutters.

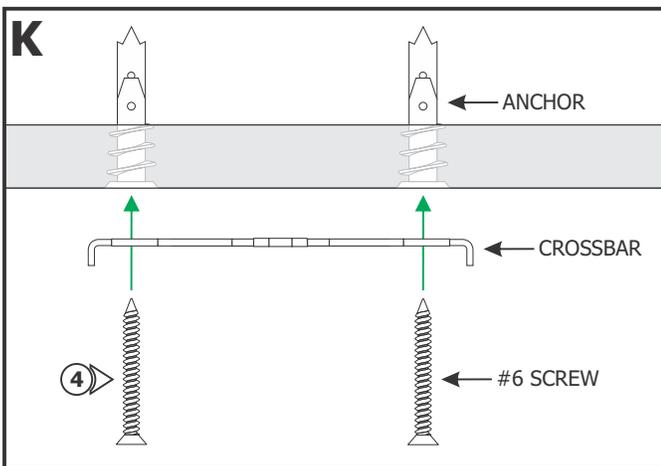
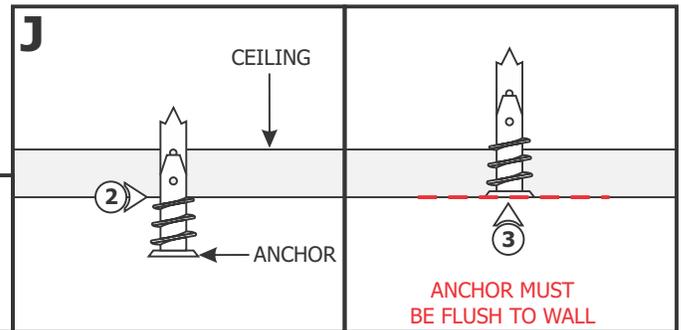


Section Three: Install the Support Canopy



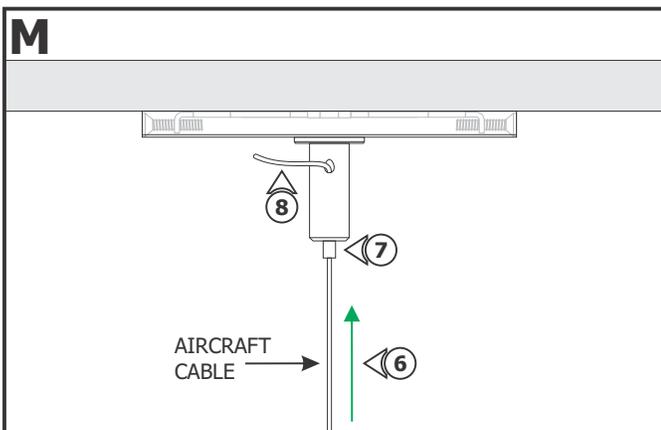
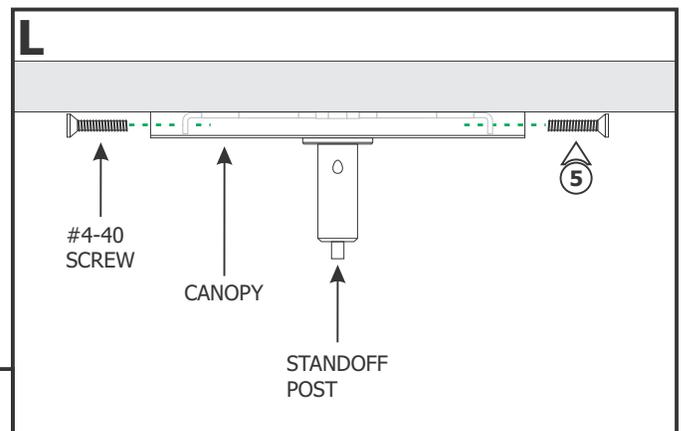
1: Mark the points through the crossbar holes onto the ceiling. These points are used for the anchors.

- 2:** Tap the anchors onto the marked points up to the threaded portion with a hammer.
- 3:** Screw in the threaded portion of the anchors with a Phillips screwdriver.



4: Secure the crossbar to the anchors using the two #6 screws.

5: Align the canopy with the crossbar and secure it using the two #4-40 screws using a 1/16" Allen wrench.

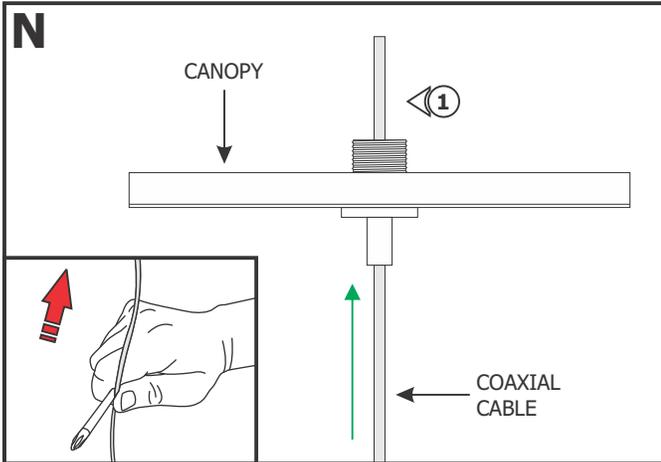


6: Feed the aircraft cable coming from the channel through the standoff post.

7: Adjust the fixture height by pushing the tab and pulling the aircraft cable out of the side of the standoff post. Release the tab to secure the cable in place.

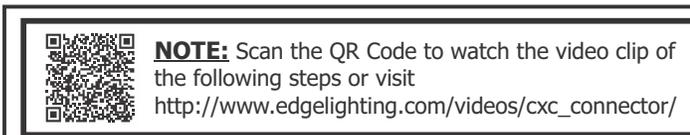
8: If necessary, trim excess aircraft cable using sharp cutters.

Section Four: Power the Fixture



1: Feed the coaxial cable through the canopy.

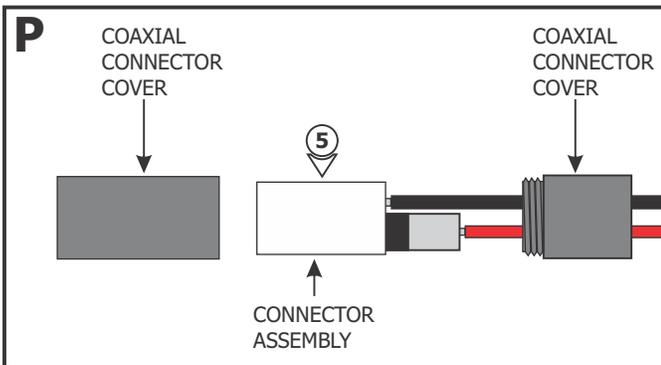
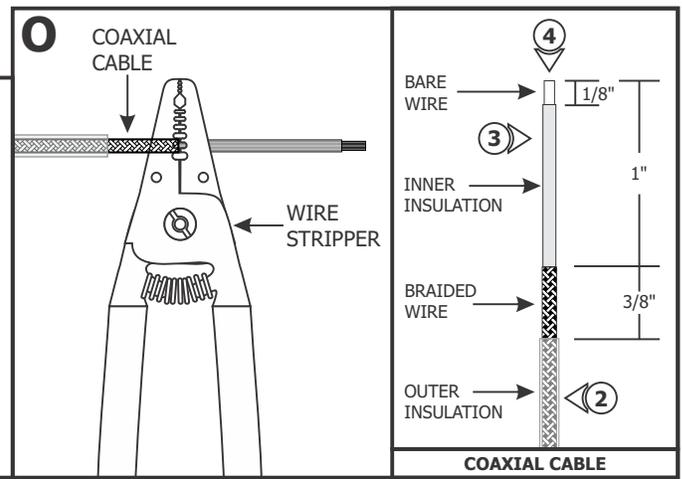
NOTE: If cable is curled or kinked, straighten by holding between the shaft of a screwdriver and thumb and pulling the cable through (see inset).



2: Use the 18AWG hole of the wire stripper to remove 1-3/8" of the outer insulation to expose the braided wire.

3: Use the 18AWG hole of the wire stripper to remove 1" of the braided wire making sure not to nick the inner wire insulation.

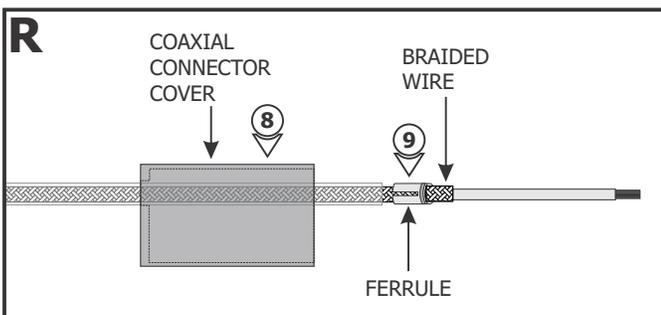
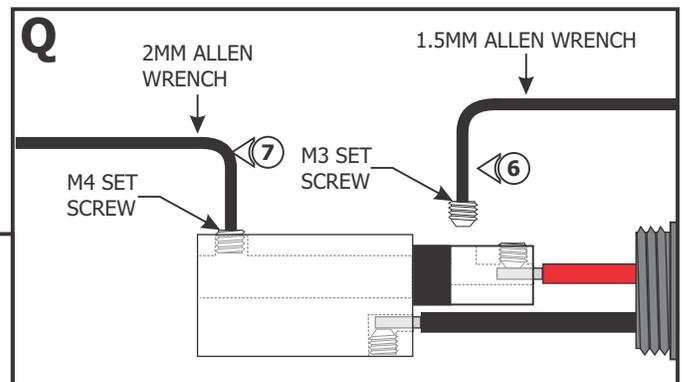
4: Use the 20AWG hole of the wire stripper to remove 1/8" of the inner insulated wire.



5: Unscrew the coaxial connector covers and remove from the connector assembly.

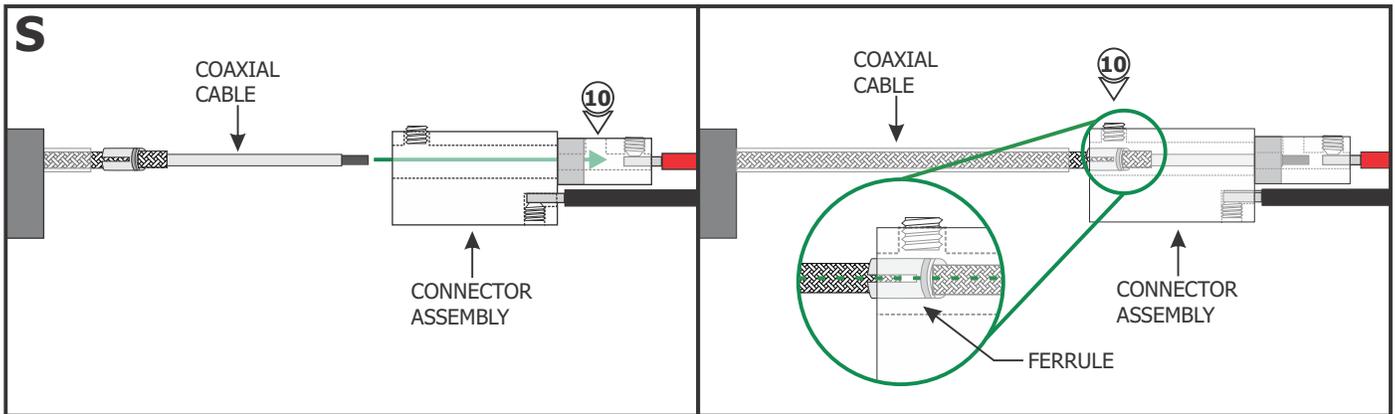
6: Using the provided 1.5mm Allen wrench, remove the M3 set screw from the coaxial connector assembly.

7: Using the provided 2mm Allen wrench to loosen (**Do Not Remove**) the M4 set screw.



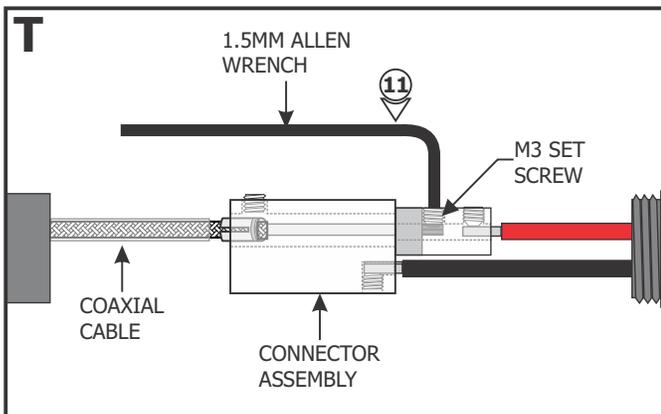
8: Slide the connector cover over the coaxial cable.

9: Place the ferrule over the 3/8" braided wire of the coaxial cable.

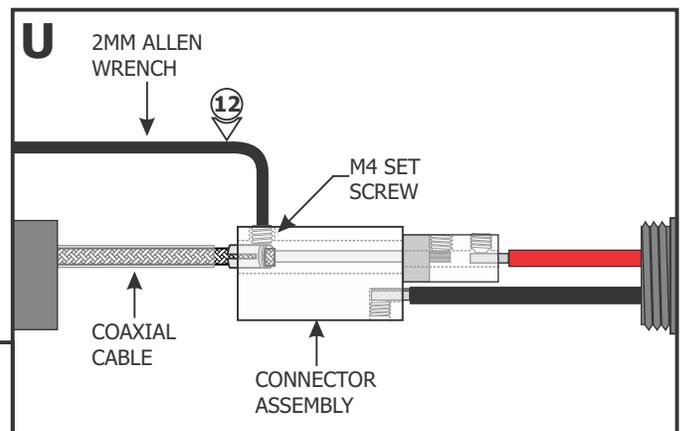


10: Insert the coaxial cable into the coaxial connector until the wires of the center conductor are visible through the M3 set screw hole.

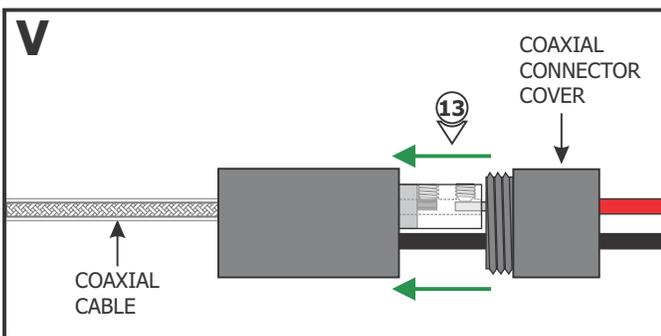
NOTE: Ensure that the split in the ferrule is aligned 90° from the M4 set screw (see inset).



11: Use the provided 1.5mm Allen wrench to replace and securely tighten the M3 set screw.



12: Use the provided 2mm Allen wrench to securely tighten the M4 set screw until it squeezes the wire ferrule tightly to the coaxial cable.

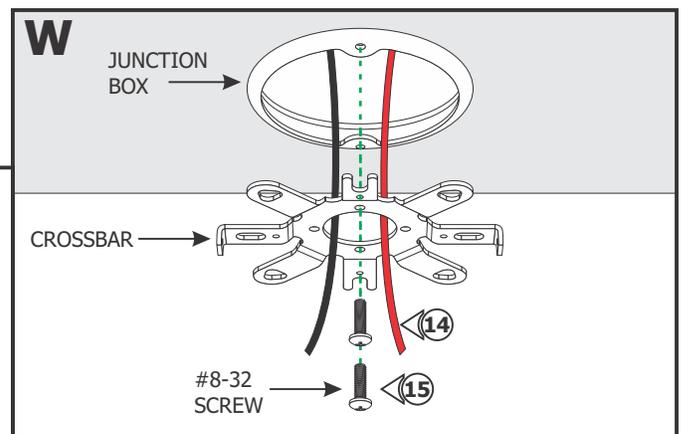


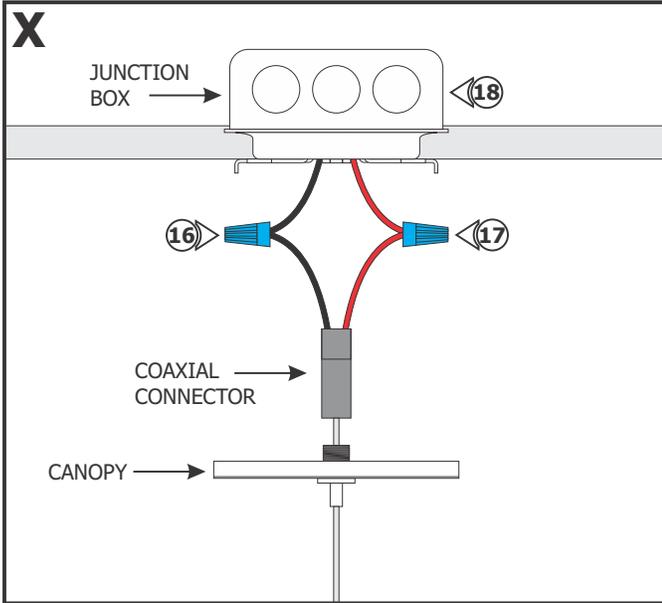
13: Replace the coaxial connector cover and tighten into place.

NOTE: Ensure remote power supply wires are present in the junction box. Refer to instructions provided with the power supply.

14: Feed the low voltage wires from the power supply through the crossbar center hole.

15: Mount the crossbar to the junction box holes with two #8-32 screws.





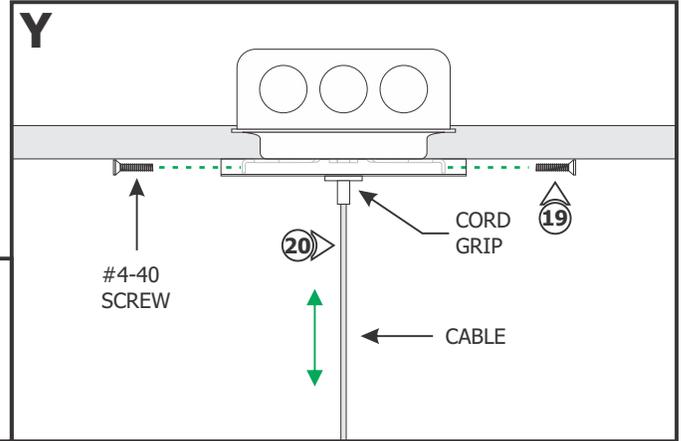
16: Connect the black wire of the coaxial connector to the -24VDC power supply wire with a wire nut.

17: Connect the red wire of the coaxial connector to the +24VDC power supply wire with a wire nut.

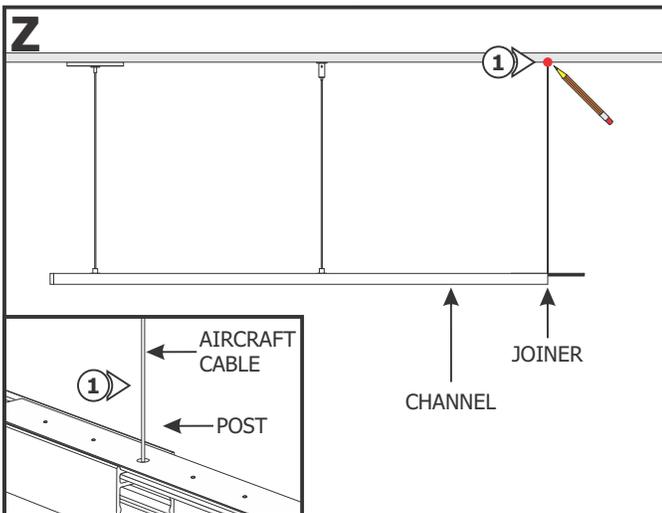
18: Place all connections inside the junction box.

19: Align the canopy with the crossbar and secure it using the two #4-40 screws using a 1/16" Allen wrench.

20: Adjust the fixture height by pushing the cord grip to slide the fixture up and down until the desired height is achieved. Release the tab to lock the coaxial cable in place.



Section Five: Multiple Channel Sections



NOTE: If applicable, multiple channels must be installed one by one.

NOTE: Omit this section if the joiner did not come with the fixture depending on the overall fixture length.

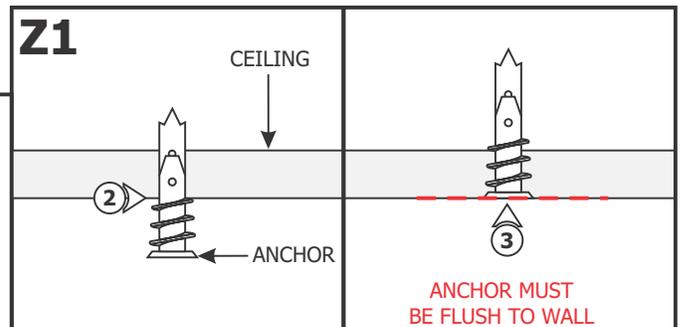
NOTE: Omit steps 1 through 9 if the joiner did not come with aircraft cable depending on the overall fixture length.

1: Lift the other end of the aircraft cable against the ceiling to mark the location of the standoff.

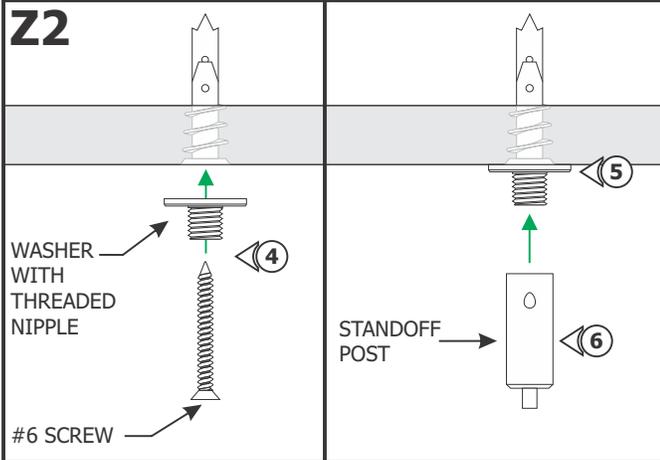
NOTE: Omit steps 2 through 9 if using support canopy. Refer to Section Three: Install the Support Canopy.

2: Tap the anchors onto the marked points up to the threaded portion with a hammer.

3: Screw in the threaded portion of the anchors with a Phillips screwdriver.



Z2



4: Feed the #6 screw through the washer with threaded nipple into the anchor.

5: Tighten the #6 screw completely into the anchor.

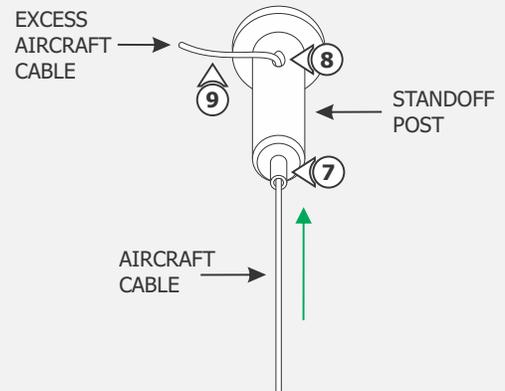
6: Tighten the standoff post completely onto the threaded nipple.

7: Feed the aircraft cable coming from the channel through the standoff post.

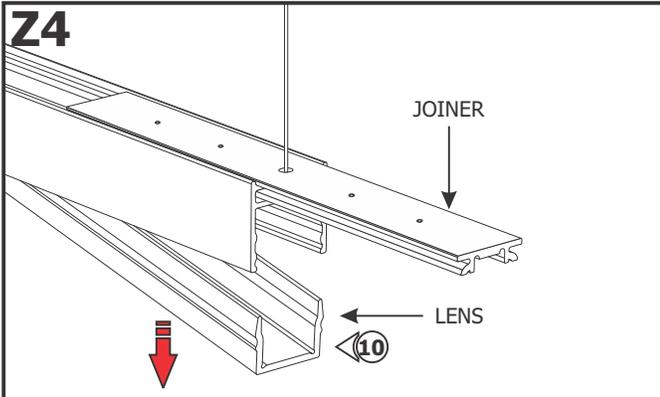
8: Adjust the fixture height by pushing the tab and pulling the aircraft cable out of the side of the standoff post. Release the tab to secure the cable in place.

9: If necessary, trim excess aircraft cable using sharp cutters.

Z3



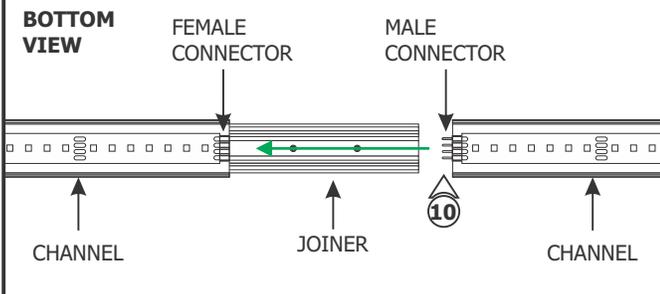
Z4



10: Lift a section of the lens at the end of the channels where the connectors are visible. Slide the channel over the joiner and ensure the male & female connectors mate properly.

11: Push the lens back into the channel.

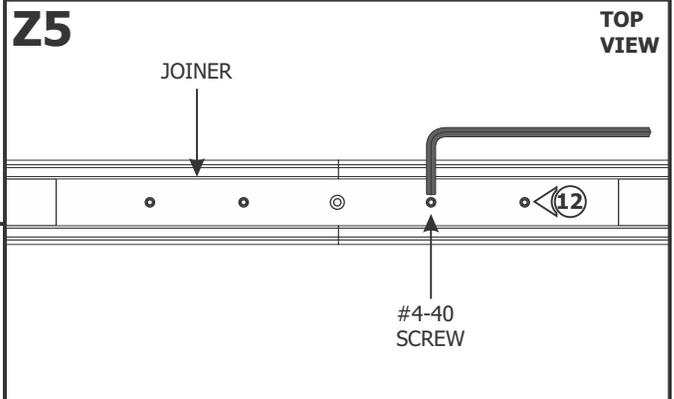
BOTTOM VIEW



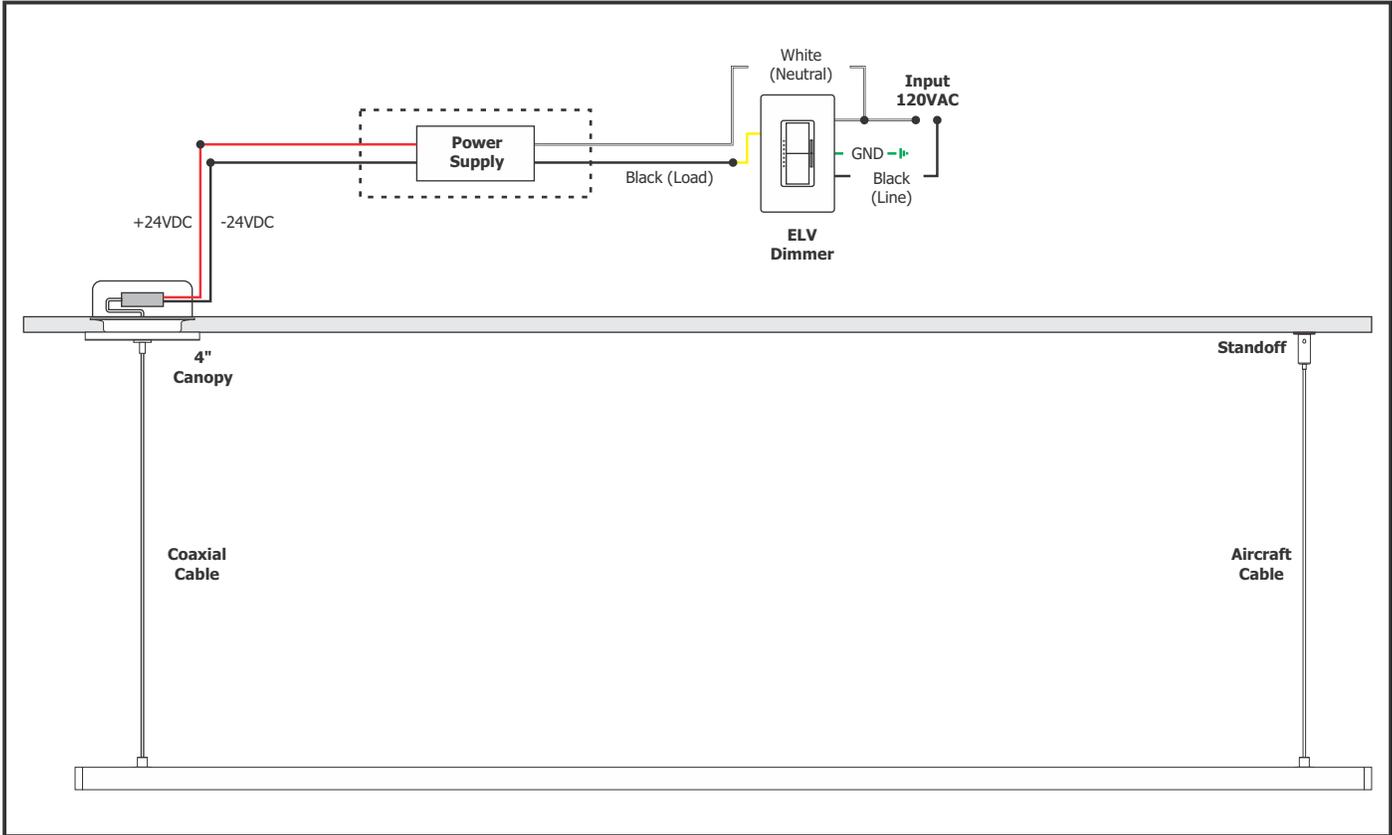
12: Tighten the remaining #4-40 set screws using the 0.05" Allen wrench.

13: Refer to Sections Two or Three to install remaining standoffs and continue to connect additional channels one at a time until the fixture is complete.

Z5



General ELV Wiring Diagram



General 0-10V Wiring Diagram

