

Installation Instructions

A350

Airis Low Voltage Pendants 161020T & 161025T

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CAUTION: FAILURE TO INSTALL THIS FIXTURE PROPERLY MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH AND PROPERTY DAMAGE. We recommend installation by a licensed electrician. This product must be installed in accordance with applicable installation code(s), by a person familiar with the construction and operation of the product and the hazards involved.*

Caution: Do not exceed maximum wattage noted on fixture. Use only recommended bulbs with fixture.

To Install as part of a Track Lighting System (Figure 1)

Component Parts

- A 8-32 Screw (2)
- B Top Assembly
- C Bottom Assembly
- D Track Adapter

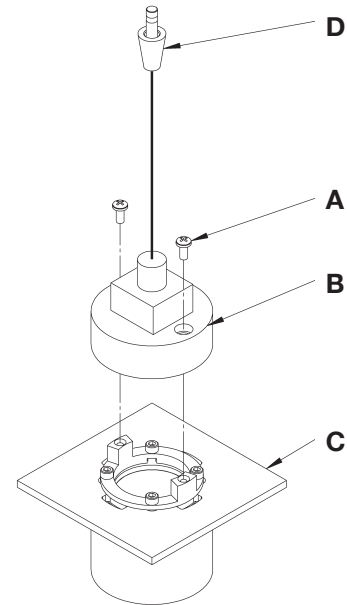
CAUTION: BE SURE POWER IS OFF AT THE MAIN BREAKER BOX PRIOR TO INSTALLATION.

1. Carefully unpack the fixture from the carton.
2. Determine desired finished height of fixture.
3. Using a sharp pair of cutters, cut the end of the coaxial cable off square and clean at the desired length. This will change the profile of the end of the coaxial cable and prepare it for insertion into the track adapter.

Follow the instructions on the included instruction sheet:

Installation Instructions for Edge Lighting Fast Jack Male Coaxial Fixture Connector, document # 904-FJ-MC-04. To be used with Edge Lighting monorail systems MT 300-12 or MT-600-24.

The product (luminaire) is intended to install on NRTL (UL, CSA, ETL, etc.) approved Edge Lighting Monorail System using Edge Lighting Fast Track connector model# FJ-MC-BZ. The product gets power from Edge Lighting Surface Magnetic Transformer model# MT-600-24, or Surface Magnetic Transformer model# MT-300-12, or Tech Lighting Monorail Surface Mount Transformer model# 700MOKTS300S, or 700MOSRT324DC, or WAC LM-K8111 250 Watt Max, or LBL FUSIONKITSC8ST, 300 watt Electronic Transformer or TRANSDIR-SFM600SC/24V, 600 Watt Magnetic Transformer, or similar UL 2108 & CSA C22.2# 9.0 approved transformer, or any NRTL approved (UL, CSA, ETL, etc.) CLASS 2 Transformers.



(Figure 1)

(Continued)

If you need further assistance, or find that you are missing any parts, please contact the dealer from which you purchased this product. We hope you enjoy your fixture!

*Hubbardton Forge will not be liable for injury or damage caused by improper installation, lamping or use of this fixture.

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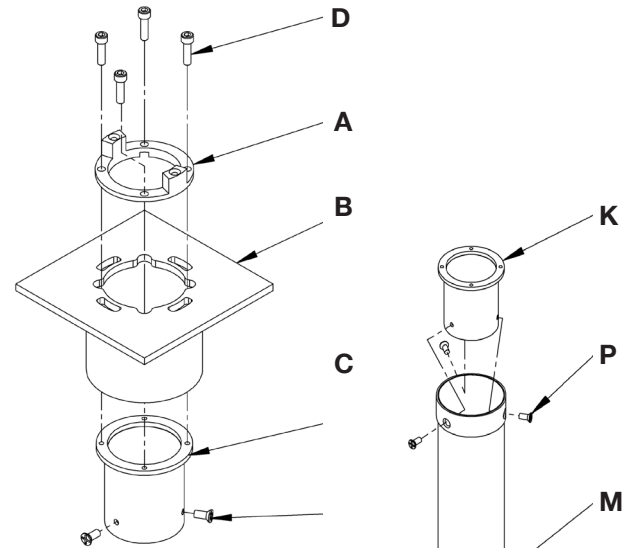
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To Assemble Glass or Screen Option (Figures 2, 3 & 4)

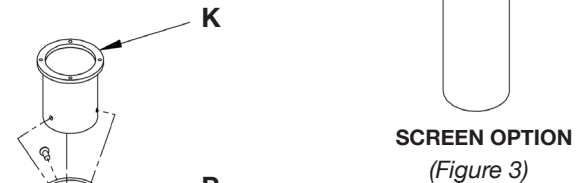
Component Parts

C	Bottom Assembly	N	Glass Tube
K	Tube Assembly	O	Retainer
L	6-32 Screws (4)	P	Flat Head Screws (3)
M	Screen		

1. Remove 2 screws (A) and separate top assembly from bottom assembly. Save them aside, do not discard.
2. Remove tube assembly (K) from bottom assembly (C) by removing four 6-32 screws (L) and separating tube assembly (K) from retainer (O). Set all parts to the side for later use (Figure 6).3. Remove flat head screws (P) from tube assembly (K) and set aside for later use.
3. Thread screws (P) through either screen (M) or glass tube (N) depending on option purchased and into tube assembly (K).
4. Tighten the three screws (P) equally into tube assembly so that screen or glass is centered.



(Figure 2)



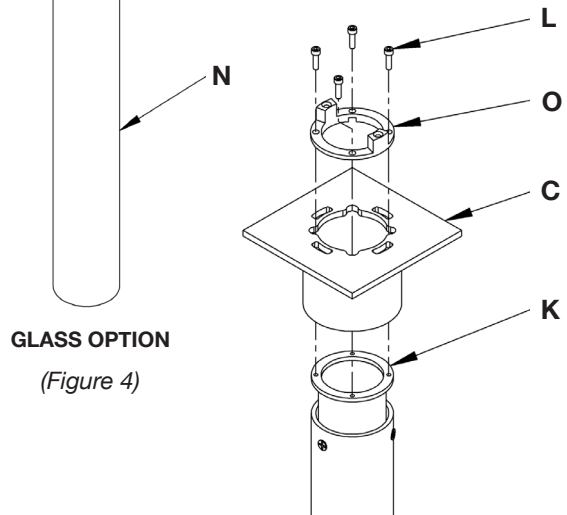
SCREEN OPTION
(Figure 3)

To Re-Assemble Bottom (Figure 5)

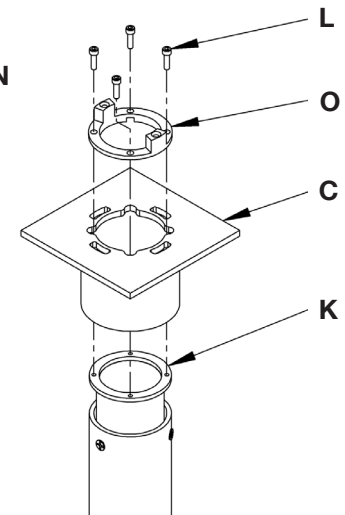
Component Parts

C	Bottom Assembly
K	Tube Assembly
L	6-32 Screws (4)
O	Retainer

1. Slip 6-32 screws (L) through retainer (O) and bottom assembly (C). Thread screws (L) into tube assembly (K) and tighten with supplied Allen wrench.



GLASS OPTION
(Figure 4)



(Figure 5)

(Continued)

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To Install Bulb & Complete Assembly (Figure 6)

Component Parts

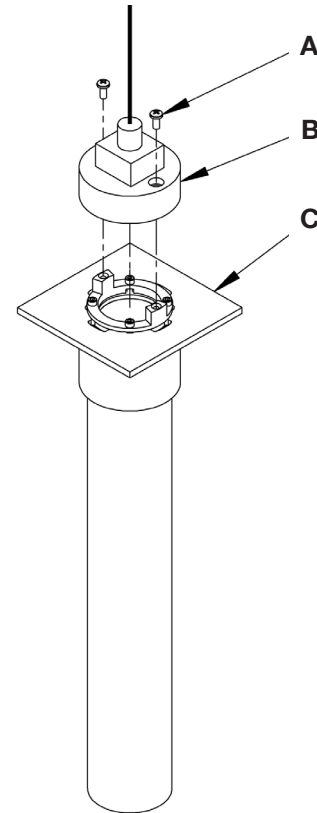
- A 8-32 Screw (2)
- B Top Assembly
- C Bottom Assembly

1. Install light bulb (not included).

CAUTION: TO REDUCE THE RISK OF FIRE DO NOT USE A LAMP IDENTIFIED FOR USE IN ENCLOSED LUMINAIRES.

2. Install 8-32 screws (A) through top assembly (B) and thread into bottom assembly (C). To replace bulb the two 8-32 (A) screws are removed to separate bottom assembly from top assembly.

3. Restore electricity at main breaker.



(Figure 6)

CAUTION: INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY. IMPORTANT SAFETY INSTRUCTIONS. LIGHTED LAMP IS HOT!

WARNING – To reduce the risk of FIRE OR INJURY: Turn off power and allow to cool before replacing lamp. Lamp gets HOT quickly! Contact only switch/plug when turning on. Do not touch the lamp at any time. Do not touch hot lens, guard, or enclosure. Keep lamp away from materials that may burn. Use a soft cloth. Oil from skin may damage lamp. Do not operate the luminaire with a missing or damaged shield.

SAVE THESE INSTRUCTIONS

(Continued)

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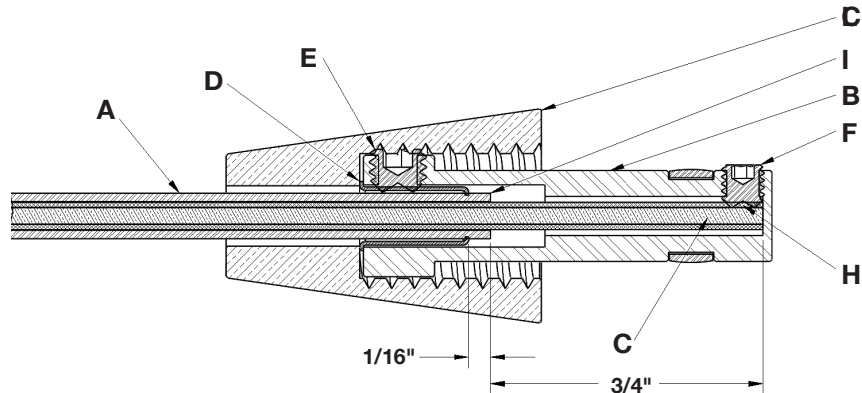
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Troubleshooting Guide: 12 Volt Pendant Lighting

Part 1. For Hubbardton Forge Track Lighting products that use the “Fast Jack Male Coaxial Fixture Connector” from Edge Lighting, an Edge Lighting Installation Instruction “FJ-MC-” is provided to the customer. This Instruction shows one method for installing coaxial cable into the coaxial fixture connector. The method shown omits a trimming step to the Braided Outer Shield, to simplify the installation.

Components:

- A Coaxial Cable
- B Coaxial Fixture Connector
- C Conical Nipple
- D Strain Relief Tube
- E M4 Set Screw
- F M3 Set Screw
- G Inner Conductor
- H Wire Insulation
- I Braided Outer Shield

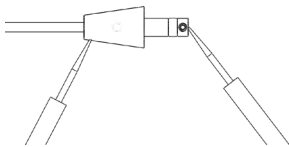


(Figure 1- Coaxial Cable and connector Assembled)

It has been determined that more consistent results can be obtained if:

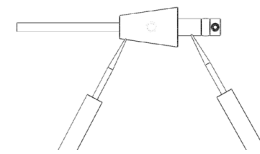
1. The outer braided shield (I) of the coaxial cable (A) is stripped back 3/4" as shown in Figure 1.
2. The M3 Set Screw (F) is tightened until “Tight”, when the 1.5MM Allen Wrench starts to flex.
3. The M4 Set Screw (E) is tightened inward until it no longer causes an interference with the Conical Nipple (C). It will begin to crush the Strain Relief Tube (D).
4. 3 Electrical Continuity tests are performed after assembly with a Digital Multi-Meter or Continuity Tester.
 - Continuity Test #1 – Short Circuit test, tester should not light.
 - Continuity Test #2 – Open Circuit test, tester should light.
 - Continuity Test #3 – Functional Check. Same probe positions as Continuity Test #1, performed with Fixture wired and a working bulb in the socket, tester should light.

Note: The M3 Set Screw (F) must make electrical contact with the Coaxial Cable Inner Conductor (G), yet the instructions do not call for the inner conductor to be stripped back to expose the wire beneath. This is because the metal set screw pierces through the plastic insulation as the set screw is tightened to full torque. However, if the tester will not light during test #3 it is recommended to strip off 1/8" of insulation from the Coaxial Cable Inner Conductor (G). This will ensure that electrical connection is made.



(Figure 2- Continuity Test #1)

(Continued)



(Figure 3- Continuity Test #2)

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Troubleshooting Guide: 12 Volt Pendant Lighting

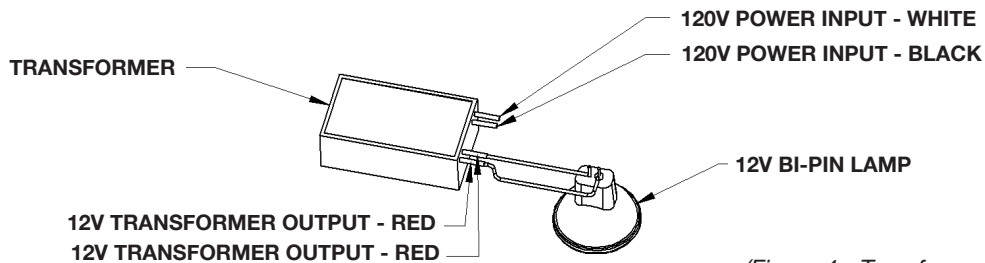
Part 2. If all Open circuit or Short circuit conditions have been checked for and corrected as shown in Part 1, but still the system does not turn on, continue with the following:

Determine if the Transformer is working. The transformer output is high frequency and cannot be detected by most multi-meters. A simple Lamp test can verify the status of the Transformer.

Caution: Have a qualified person perform this operation. Do not hold lamp with bare hands as lamp heats quickly and may cause injury. Hold the lamp carefully using insulated pliers.

Turn off power and remove Bi-Pin Lamp from socket Assembly. Examine Lamp to verify that it does not appear defective. Lamp Glass should not be darkened and the filament should be intact.

Expose Transformer by removing canopy and then turn power back on. These 12 Volt pendants are supplied with a Class 2 (power limited) Low Voltage Transformer, so there is no potential for shock. Carefully touch each one of the Transformer's 12 Volt output wires to each pin of the Lamp as shown in Figure 4. If the Lamp lights, this indicates a good Transformer and the Pendant lead needs to be replaced. If the Lamp does not light, then the Transformer needs to be replaced. Turn off the power.



(Figure 4 - Transformer check)

Part 3. List of Troubleshooting Issues and Solutions for 12 Volt Pendant Lighting

Problem: Lights burn out quickly or burn very brightly:

Diagnosis: Bad Socket Connection.

Corrective action: Inspect Lamp Pins and socket contacts for evidence of discoloration. Replace if discolored.

Diagnosis: Finger Oils on Quartz Lamps

Corrective action: Wipe Glass clean with clean soft cloth on all Lamps after installation.

Problem: System comes on but Lights flicker or are dim:

Diagnosis: Wrong Lamps installed. 24 Volt Lamps operating on 12 Volt Power Supply.

Corrective action: Replace 24 Volt Lamps with 12 Volt Lamps.

Problem: Lamps become dim or flicker after operating normally over a period of time:

Diagnosis: Deteriorating 12 Volt connections due to high current.

Corrective action: Recheck all secondary connections, looking for discoloration, oxidation or hot spots.

Tighten any loose connections. Replace Pendant leads if contacts are discolored.

Problem: Circuit Breaker on main panel trips on initial power up:

Diagnosis: Electrical Short on 120 volt side of the Transformer.

Corrective action: Check all connections and repair if needed, then confirm operation.

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