

# suspenders®

assembly instructions 1-Tier Tri-Bar Configuration (S1C)





## LED Product Information and Warnings

#### **Important**

- Always disconnect the power before installing or replacing parts and before cleaning or other maintenance.
- Consult a qualified, licensed electrician to ensure correct branch circuit conductor.
- Please read all included assembly instructions and warnings carefully before installation. Contact Customer Service if you have any questions or concerns. Before installation, please confirm that the fixture is compatible with your supply voltage and dimming system, if present.
- LEDs are highly sensitive electronic devices, and must be treated with care. Do not open any factory sealed compartments, and avoid touching the LEDs with your hands or any object.
- Although all our fixtures are equipped with protective devices, LED electronic systems are vulnerable to power surges and supply variations. Do not install LED fixtures on the same circuit as any motors, appliances, or HVAC systems.
- Do not remove or bypass any LED Driver or Transformer that is provided with the fixture, and do not replace or substitute with another power supply.
- Remote Transformer installation must be done by a licensed electrician and in accordance with local building and electrical codes. Remote installations should be in an accessible location, as close to the fixture as possible. The appropriate wire gauge must be used to limit the voltage drop to no more than 5%.
- Fixtures must be wired in parallel on independent leads; do not "daisy chain" multiple fixtures together or wire them in series.
- All factory-made splices and connections must remain intact. LED circuits are carefully designed and built, and improper connections may damage the fixture.
- Any mounting hardware is provided for your convenience and should be used with discretion. Always use the appropriate hardware for the mounting surface.
- To avoid excessive voltage drop, the longest electrical path from the Power Feed to the furthest Luminaire should not exceed 30 feet.
- Suspenders® transformers can be loaded up to 80% of their rated wattage.
- Suspenders® transformers feature short-circuit protection with automatic recovery, and will resume operation once the short-circuit condition is removed.
- Suspenders® transformers have 24V output, and are dimmable with Electronic Low Voltage dimmers ONLY.
- Suspenders® must be installed in dry locations ONLY.

# Suspenders®

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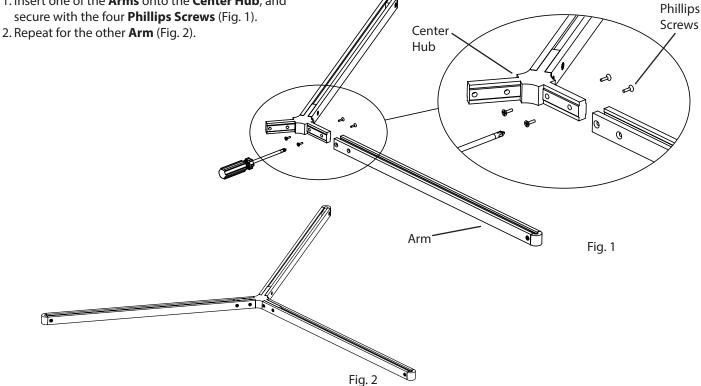


### **Power Bars**

# Assembly Instructions INSTRUCTIONS D'INSTALLATION

**Applies to Components:** 1XC02XX12x 1XC02XX24x

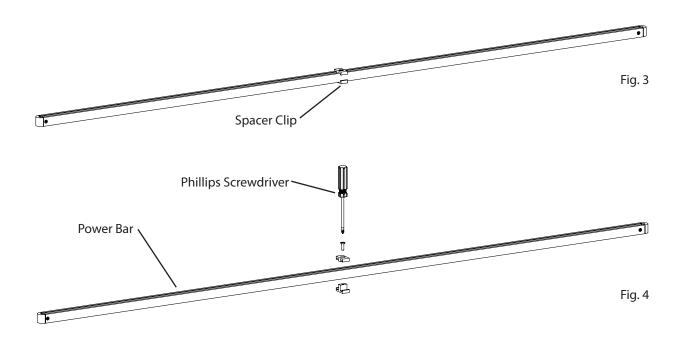
### **Tri-Bar Power Bar Assembly:** 1. Insert one of the Arms onto the Center Hub, and



#### **Linear Power Bar Assembly:**

- 1. The Linear **Power Bar** comes with a spacer clip pre-installed at the center of the Power Bar (Fig. 2).
- 2. If desired, the **Spacer Clip** can be removed using a **Phillips Screwdriver** (Fig. 4).
- **3. Power Bar** must be supported at least every 4 feet.

**Applies to Components:** 1XC01XX12x 1XC01XX48x 1XC01XX72x 1XC01XX24x 1XC01XX36x 1XC01XX96x





### **Power Feed Hangers**

### **Assembly Instructions**

INSTRUCTIONS D'INSTALLATION

**Single Cord Power Feed Hanger:** 

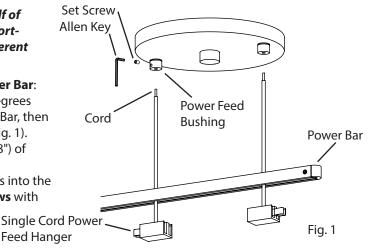
NOTE: Each Single Cord Power Feed Hanger only carries half of the electrical circuit, and must be used in pairs. To avoid shortcircuiting the system, the spring contacts must point in different directions.

- 1. Install the **Single Cord Power Feed Hanger** onto the **Power Bar**: pass the **Cord** through the Power Bar, tip the Hanger 45 degrees and insert the copper springs into the center of the Power Bar, then push the Hanger up while tipping it back up 45 degrees (Fig. 1).
- 2. Cut the **Cord** to the desired length, and remove 10mm (3/8") of insulation from the end of each Cord.
- 3. Twist the wire strands tightly, then insert the exposed wires into the **Power Feed Bushings**. Secure by tightening the **Set Screws** with the included **Allen key**.

 Applies to Components:

 1XB01SC06x
 1XB01RC06x

 1XB01SC20x
 1XB01RC20x



#### **Double Cord/Rod Power Feed Hanger:**

1. Install the **Double Cord (or Rod) Power Feed Hanger** onto the **Power Bar**: press down firmly on the top of the Power Bar, while pressing up on the bottom of the Hanger, until the Power Bar clicks into place (Fig. 2).

#### 2. For Cords:

- a. Cut the **Cords** to the desired length, and remove 10mm (3/8") of insulation from the end of each Cord.
- b. Twist the wire strands tightly, then insert the exposed wires into the **Power Feed Bushings**. Secure by tightening the **Set Screws** with the included **Allen key**.

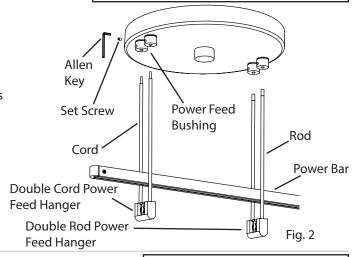
#### 3. For Rods:

- a. Cut the **Rods** to the desired length, and remove 10mm (3/8") paint from the end of each Rod using sand paper.
- b. Insert the exposed Rod into the **Power Feed Bushings**.
  Secure by tightening the **Set Screws** with the included **Allen key**.

Applies to Components:

1XB01DC06x 1XB01DR06x 1XB01DR18x

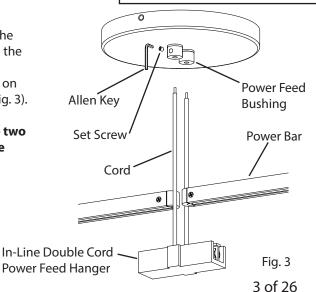
1XB01DC20x 1XB01DR12x



#### **In-Line Double Cord Power Feed Hanger:**

- 1. Cut the **Cords** to the desired length, and remove 10mm (3/8") of insulation from the end of each cord.
- Twist the wire strands tightly, then insert the exposed wires into the Power Feed Bushings. Secure by tightening the Set Screws with the included Allen key.
- 3. Press down firmly on the top of the **Power Bar**, while pressing up on the bottom of the **Hanger**, until the Power Bar clicks into place (Fig. 3). Repeat for the second Power Bar.

Note: The In-Line Double Cord Power Feed Hanger connects the two Power Bars to the same electrical circuit. It does not increase the wattage capacity of the Power Feed.



**Applies to Components:** 

1XB01IC20x

1XB01IC06x



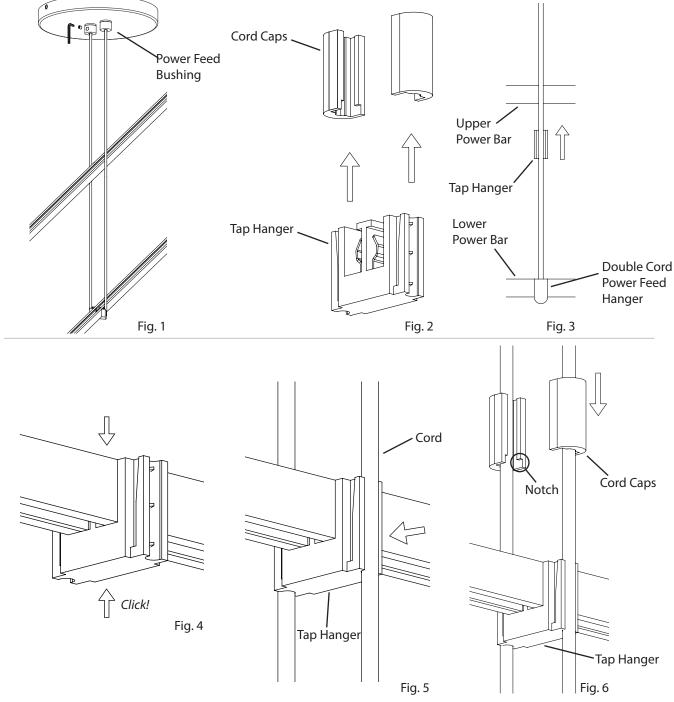
### **Power Feed Hangers**

# Assembly Instructions INSTRUCTIONS D'INSTALLATION

**Applies to Components:** 1XB01PT00x

#### **In-Line Power Tap Hanger:**

- 1. Install Double Cord Power Feed Hanger to Lower Power Bar and connect to the Power Feed by inserting the exposed wires into the **Power Feed Bushings**. Secure by tightening the **Set Screws** with the included **Allen Key** (Fig. 1).
- 2. Install the **Upper Power Bar** between the two cords of the **Double Cord Power Feed Hanger** using appropriate hangers.
- 3. Remove Cord Caps from Tap Hanger by sliding them up and off the sides of the Tap Hanger (Fig. 2).
- 4. Position Tap Hanger under Upper Power Bar at junction with Double Cord Power Feed Hanger (Fig. 3). Press down firmly on top of the Upper Power Bar, while pressing up on the bottom of Tap Hanger, until Tap Hanger clicks into place (Fig. 4).
- 5. Press each cord into the slot on each side of the **Tap Hanger** (Fig. 5).
- 6. To secure cord electrical connection, align **Cord Cap** over slot on each side of the **Tap Hanger**, and position the notches on bottom of the Cord Cap to face toward Tap Hanger (Fig. 6), then firmly slide down into position (Fig. 6). Repeat on opposite



Bracket (Fig. 1).



1XB02SR18x

1XB02RB06x

1XB02RB20x

# **Ceiling Hangers**

### Assembly Instructions

#### INSTRUCTIONS D'INSTALLATION

#### 1XB02SB06x 1XB02SB20x

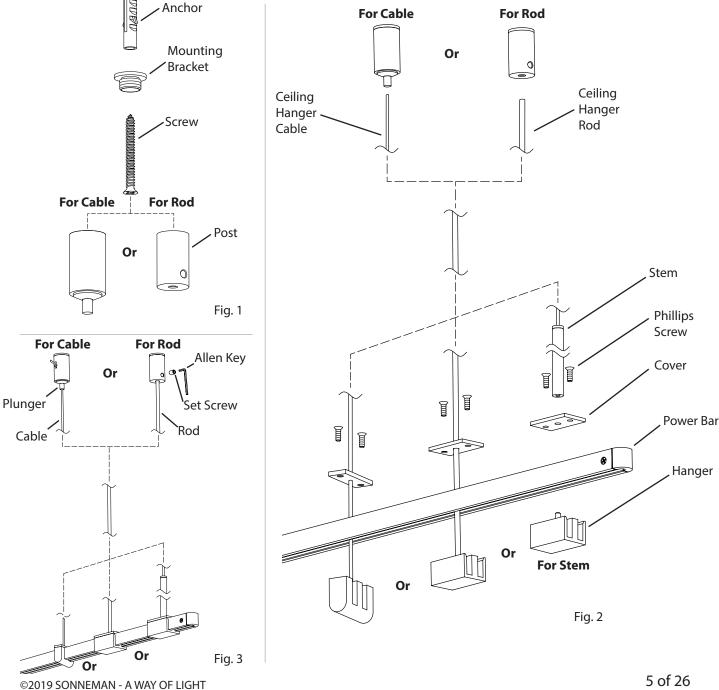
#### **Ceiling Hanger Assembly:** 1. Install the Mounting Bracket to the ceiling with Anchor (if appropriate) and Screw, then screw the Post onto the Mounting

**Applies to Component:** 

1XB02SB06x-ST

1XB02SB20x-ST

- 2. Pass the Ceiling Hanger Rod/Cable through the Power Bar, then through the center hole of the Cover, making sure the countersunk holes on the Cover are facing up. Attach the Cover to the Hanger using the two small Phillips Screws (Fig. 2).
- 3. For Hanger with **Stem**: Hand screw the Stem onto the Ceiling Hanger. (Fig. 2)
- 4. Attaching the Ceiling Hanger Rod/Cable into the Post:
  - a. For Rod Hangers: Cut the **Rod** to the desired length, then insert the **Rod** into the **Post** and tighten the **Set Screw** with the Allen Key (Fig. 3).
  - b. For Cable Hanger: Insert Cable into Post, then adjust to the desired length: to shorten, push the Cable up; to lengthen, push in the **Plunger** while pulling down on the cable, release the Plunger to lock. Cut off the excess cable where it exits the Post (Fig. 2).



1XB02IR18x



## **Ceiling Hangers**

# Assembly Instructions INSTRUCTIONS D'INSTALLATION

#### 1XB02IB06x 1XB02IB20x

#### **In-Line Ceiling Hanger Assembly:**

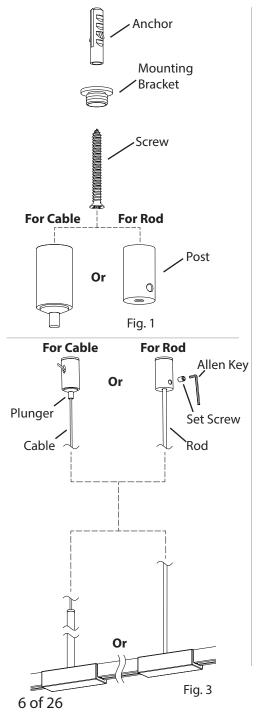
1. Install the **Mounting Bracket** to the ceiling with **Anchor** (if applicable) and **Screw**, then screw the **Post** onto the Mounting

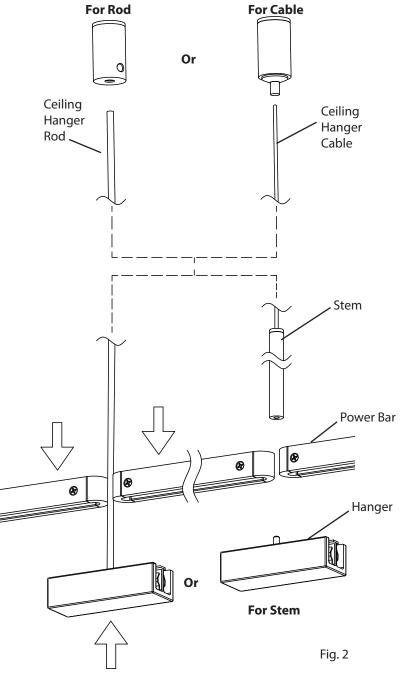
**Applies to Components:** 

1XB02IB06x-ST

1XB02IB20x-ST

- 2. For Hanger with **Stem**: Hand screw the Stem onto the Ceiling Hanger (Fig. 2).
- 3. Attaching the Ceiling Hanger Rod/Cable into the Post:
  - a. For Rod Hangers: Cut the Rod to the desired length, then insert the Rod into the Post and tighten the Set Screw with the Allen Key (Fig. 3).
  - b. For Cord Hanger: Insert Cable into Post, then adjust to the desired length: to shorten, push the Cable up; to lengthen, push in the Plunger while pulling down on the cable, release the Plunger to lock. Cut off the excess cable where it exits the Post (Fig. 3).
- 4. Press down firmly on the top of the Power Bar, while pressing up on the bottom of the Hanger, until the Power Bar clicks into place. Repeat for adjacent power bar (Fig. 2).







1XB02WL01x

Applies to Components: 1XB02WL00x 1

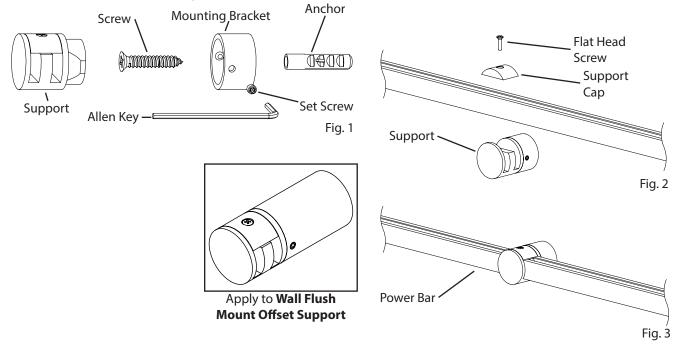
### **Wall Mount System**

### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

#### **Wall Flush Mount Support:**

- 1. Install the **Mounting Bracket** to the wall with **Anchor** (if applicable) and **Screw**, align set screw holes with the direction of **Power Bar**, then attach the **Support** onto the Mounting Bracket and tighten the two **Set Screws** with the **Allen Key** (Fig. 1).
- 2. Remove Flat Head Screw and Support Cap and align Power Bar with Support (Fig. 2).
- 3. Insert **Power Bar** into **Support**. Reattach **Support Cap** with **Flat Head Screw** (Fig. 3). **Note:** Wall Mount Support (1XB02WL00x) is to be used in conjunction with Wall Mount Standard Power Feed (1XA08WL01x) or Remote (1XA08WL02x).

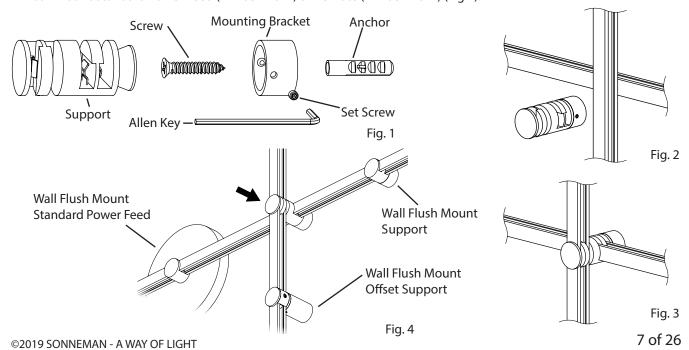


#### **Wall Mount Perpendicular Power Bar Hanger:**

1. Install the **Mounting Bracket** to the wall with **Anchor** (if applicable) and **Screw**, align set screw holes with the direction of **Power Bar**, then attach the **Support** onto the Mounting Bracket and tighten the two **Set Screws** with the **Allen Key** (Fig. 1).

Applies to Components: 1XB03WP00x

2. Insert **Power Bars** into **Support**. **Note:** Wall Mount Perpendicular Power Bar Hanger (1XB03WP00x) is to be used in conjunction with Wall Flush Mount Support (1XB02WL00x), Wall Flush Mount Offset Support (1XB02WL01x) (Fig 4), and Wall Flush Mount Standard Power Feed (1XA08WL01x) or Remote (1XA08WL02x) (Fig 4).





### **Ceiling Mount System**

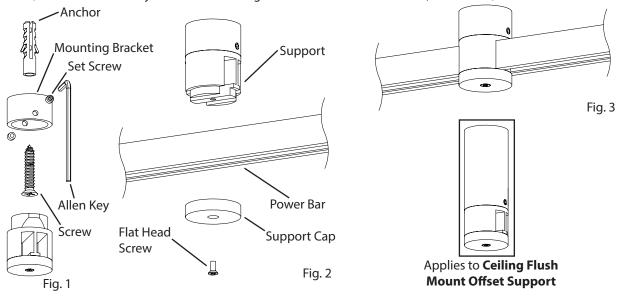
### Assembly Instructions

#### INSTRUCTIONS D'INSTALLATION

#### **Ceiling Flush Mount Support:**

**Applies to Components:** 1XB02CE01x 1XB02CE00x

- 1. Install the **Mounting Bracket** to the ceiling with **Anchor** (if applicable) and **Screw**, align set screw holes with the direction of Power Bar, then attach the Support onto the Mounting Bracket and tighten two Set Screws with the Allen Key (Fig. 1).
- 2. Remove Flat Head Screw and Support Cap and align Power Bar with Support (Fig. 2).
- 3. Insert Power Bar into Support. Reattach Support Cap with Flat Head Screw (Fig. 3). Note: Ceiling Flush Mount Support (1XB02CE00x) is to be used in conjunction with Ceiling Mount Standard Power Feed (1XA08CE01x).

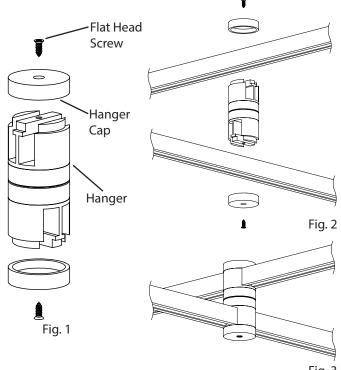


#### Flush Rotational Power Bar Hanger:

1. Remove Flat Head Screw and both Hanger Caps (Fig. 1).

**Applies to Components:** 1XB03RD00x

- 2. Align Power Bars with Hanger (Fig. 2). Press down firmly on the top of the Top Power Bar and bottom of Bottom Power Bar until the Power Bars clicks into place. Reattach Hanger Cap with Flat Head Screw (Fig. 3).
- 3. Insert Power Bar, into Support. Reattach Support Cap with Flat Head Screw (Fig. 3).





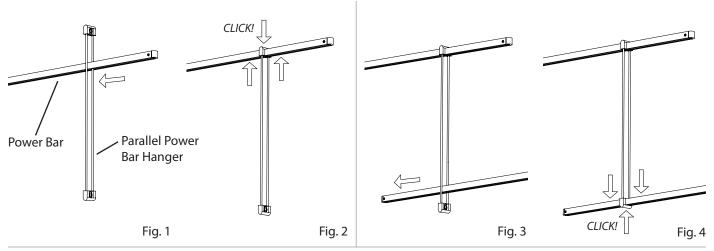
### **Power Bar Hangers**

# Assembly Instructions INSTRUCTIONS D'INSTALLATION

Applies to Components: 1XB03ARxxx

#### **Parallel Power Bar Hanger:**

- 1. Pass one end of the **Parallel Power Bar Hanger** over the end of a **Power Bar** (Fig. 1).
- 2. Press down firmly on the top of the Power Bar Hanger, while pressing up on the bottom of the Power Bar, until the Power Bar Hanger clicks into place (Fig. 2).
- 3. Pass a second **Power Bar** between the rods of the **Power Bar Hanger** (Fig. 3).
- 4. Press down firmly on the top of the Power Bar, while pressing up on the bottom of the Power Bar Hanger, until the Power Bar clicks into place (Fig. 4).

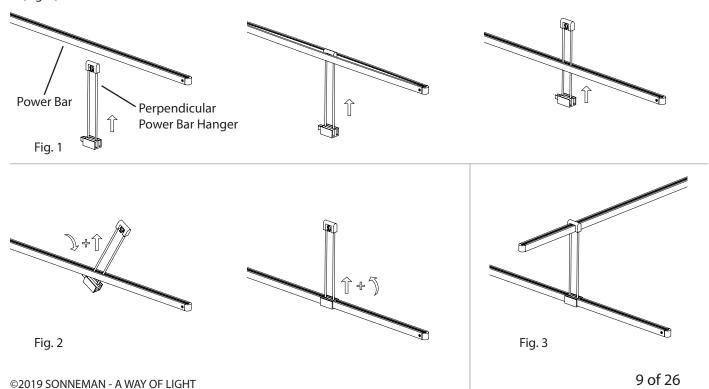


#### **Perpendicular Power Bar Hanger:**

1. Gently spread apart the **Power Bar** and insert the **Rods** of the **Perpendicular Power Bar Hanger** through the Power Bar (Fig. 1).

**Applies to Components:** 1XB03ER18x

- 2. Tip the Perpendicular Power Bar Hanger 45 degrees and insert the copper springs into the center of the Power Bar (Fig.
- 3. Push the Perpendicular Power Bar Hanger up while tipping it back up 45 degrees (Fig. 2).
- 4. Pass top portion of the **Perpendicular Power Bar Hanger** over the end of the **Power Bar** and press down firmly on the top of the **Power Bar Hanger** while pressing up on the bottom of the Power Bar, until the Power Bar Hanger clicks into place (Fig. 3).



Applies to Components: 1XB03PRxxx



### **Power Bar Hangers**

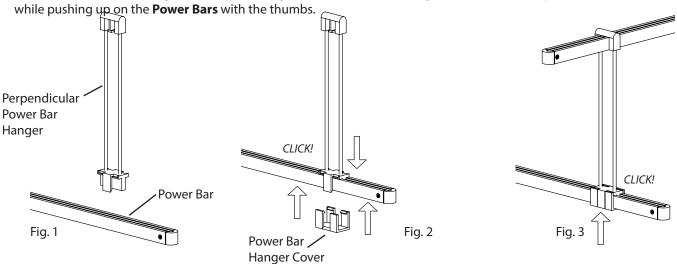
### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

#### Perpendicular Power Bar Hanger v2:

- 1. Press down firmly on the top of the **Power Bar Hanger**, while pressing up on the bottom of the **Power Bar**, until the Power Bar Hanger clicks into place (Fig. 2).
- 2. Push up on the bottom of the **Power Bar Hanger Cover**, while pressing down on the bottom of the **Power Bar**, until the Power Bar Hanger Cover clicks into place (Fig. 3).
- 3. Pass top portion of the **Perpendicular Power Bar Hanger** over the end of the **Power Bar** and press down firmly on the top of the **Power Bar Hanger** while pressing up on the bottom of the Power Bar, until the Power Bar Hanger clicks into place (Fig. 3).
- 4. To remove the **Power Bar Hanger Cover**:

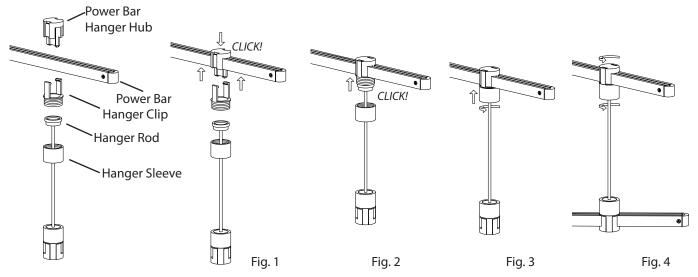
Spread the **Power Bar Hanger Cover** apart using the index and middle finger of each hand and pull down on the cover while pushing up on the **Power Bars** with the thumbs.



Applies to Components: 1XB03RDxxx 1XB03RSxxx

#### Single and Double Rotational Power Bar Hanger:

- 1. Press down firmly on the top of the **Power Bar Hanger Hub** while pressing up on the bottom of the **Power Bar**, until the Power Bar Hanger Hub clicks into place (Fig. 1).
- 2. Insert the **Hanger Clip** through the **Hanger Hub** and press up on the Hanger Clip until Hanger Clip clicks into place (Fig. 2).
- 3. Press the **Hanger Rod** up against the Hanger Hub and screw in the **Hanger Sleeve**. Be sure that the brass contacts on the Power Bar Hanger Hub are touching those on the Hanger Rod (Fig. 3). NOTE: Do not fully tighten.
- 4. Rotate **Power Bar** to the desired position and secure by fully tightening the **Hanger Sleeve** (Fig. 4).
- 5. Repeat steps 1-4 for the second **Power Bar**.





### **Power Bar Hangers**

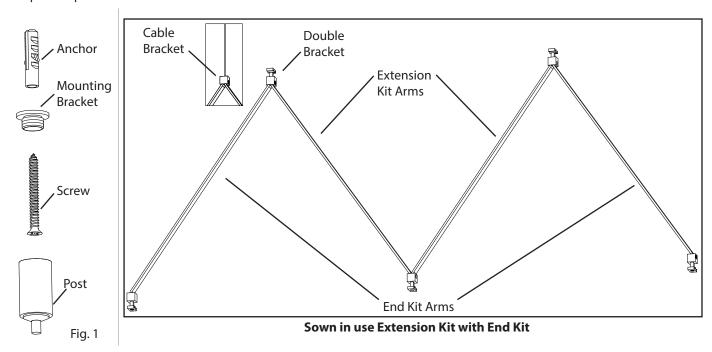
### **Assembly Instructions**

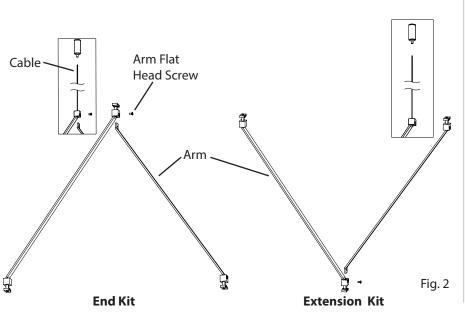
#### INSTRUCTIONS D'INSTALLATION

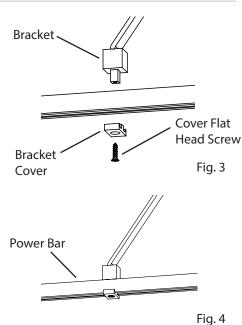
#### **Truss Hanger System:**

**Applies to Components:** 1XB02TR06x-EN 1XB03TR16x-EX 1XZ05000xx 1XB02TR06x-EX 1XB02TR20x-EN 1XB03TR16x-EN 1XB02TR20x-EX

- 1. Where applicable: Install the **Mounting Bracket** to the ceiling with **Anchor** (if applicable) and **Screw**, then screw the **Post** onto the Mounting Bracket (Fig. 1).
- 2. Insert Extension or End Arm into the remaining slot of the Bracket and secure it with the provided Arm Flat Head Screw
- 3. Where applicable: Insert the Cable into the Post and adjust to the desired length: to shorten, push the Cable up; to lengthen, push in the Plunger while pulling down on the Cable, release the Plunger to lock. Cut off the excess Cable where it exits the Post (Fig. 2).
- 4. Remove Cover Flat Head Screw and Bracket Cover and align Power Bar with the Bracket (Fig. 3).
- 5. Insert **Power Bar** onto the **Bracket** and reattach the **Bracket Cover** with **Flat Head Screw** (Fig. 4).
- 6. Repeat step 3 and 4 for each **Bracket**.









### **Power Bar Hangers**

# Assembly Instructions INSTRUCTIONS D'INSTALLATION

Flush Perpendicular Power Bar Hanger:

**Applies to Components:** 1XB03PR00x

**Applies to Components** 1XB03IB00x

1. Remove Flat Head Screws and both Hanger Caps (Fig. 1).

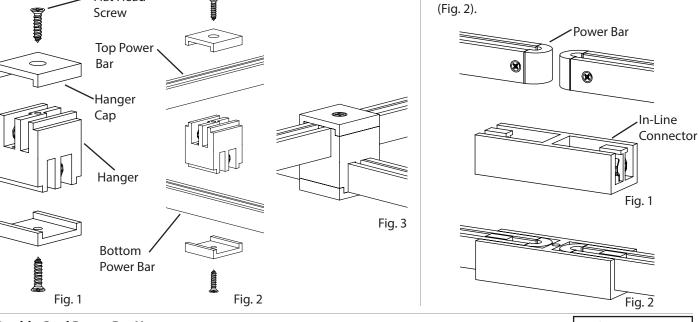
2. Align Power Bars with Hanger (Fig. 2). Press down firmly on the top of the **Top Power Bar** and bottom of **Bottom Power Bar** until the Power



1. Align In-Line Connector with Power Bar (Fig. 1) and press down firmly on the top of the Power Bars, while pressing up on the bottom of the Connector until the Power Bars clicks into place

In-Line Power Bar

**Connector:** 

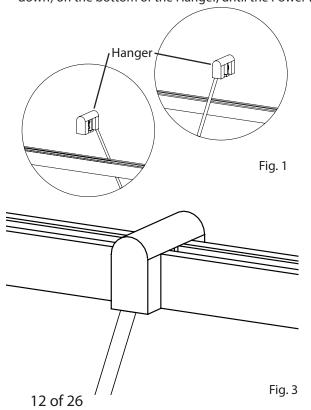


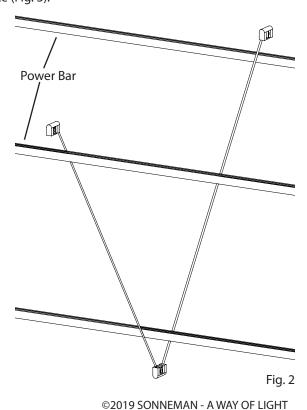
**Double Cord Power Bar Hanger:** 

**Applies to Components:** 1XB03DC16x

NOTE: Each Single Cord Power Feed Hanger only carries half of the electrical circuit, and must be used in pairs. To avoid short-circuiting the system, the spring contacts must point in different directions (Fig 1).

1. Align Hanger with Power Bars (Fig. 2) and press down firmly on the top (or bottom) of the Power Bar, while pressing up (or down) on the bottom of the Hanger, until the Power Bar clicks into place (Fig. 3).







### **Assembly Instructions**

INSTRUCTIONS D'INSTALLATION

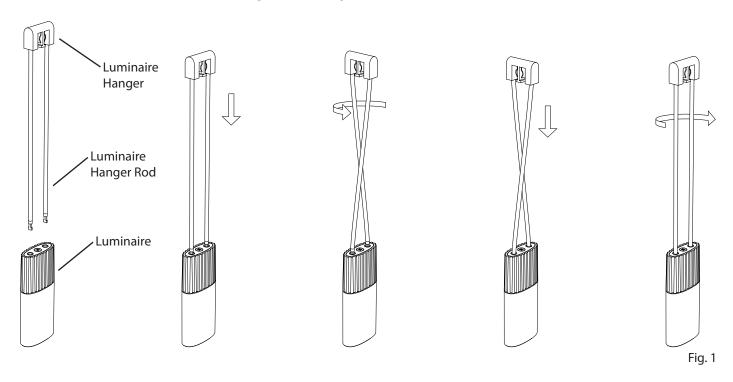
**Applies to Components:** 

1XDXXRPxxx 1XB04DRxxx 1XB04RDxxx

1XB04ARxxx 1XB04DR16x-RG

Connecting an RPxx Luminaire to an ARxx, RPxx, and DRxx Double Luminaire Hanger (Fig. 1):

- 1. Gently insert the two Luminaire Hanger Rods into the holes on the top of the Luminaire.
- 2. Rotate the **Luminaire** or **Luminaire Hanger** 90 degrees.
- 3. Push the **Luminaire Hanger** rods into the **Luminaire** until the copper on the ends of the rods is no longer visible.
- 4. Rotate the Luminaire or Luminaire Hanger back 90 degrees to lock.



#### Connecting a Double Rod Luminaire Hanger to a Power Bar:

- 1. Place the **Luminaire Hanger** over the **Power Bar** (Fig. 2).
- 2. Press down firmly on the top of the **Luminaire Hanger**, while pressing up on the bottom of the **Power Bar**, until the Luminaire Hanger clicks into place (Fig 3).
- 3. To remove, tip the Luminaire Hanger in the direction of the Power Bar, then lift the Luminaire Hanger off the Power Bar.





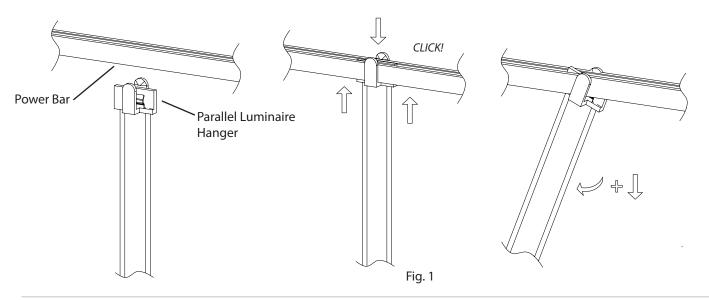
### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

Applies to Components: 1XB04ARxxx

#### **Connecting a Parallel Luminaire Hanger to a Power Bar:**

- 1. Place the Parallel Luminaire Hanger under the Power Bar.
- 2. Press up firmly on the bottom of the **Parallel Luminaire Hanger**, while pressing down on the top of the **Power Bar**, until the Parallel Luminaire Hanger clicks into place (Fig. 1).
- 3. To remove, tip the **Parallel Luminaire Hanger** in the direction of the **Power Bar** to release the **Snap Hooks**, then pull the Parallel Luminaire Hanger off the Power Bar (Fig. 3).

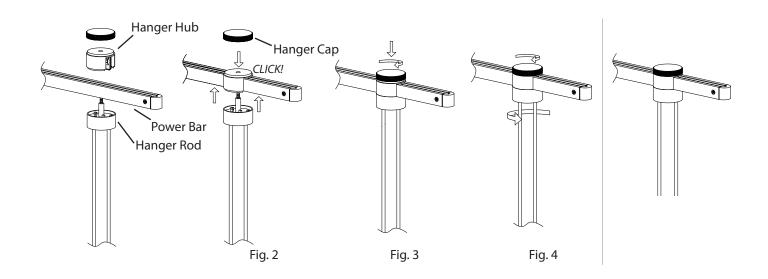


Connecting a Rotational Luminaire Hanger or Light Guide Disk Luminaire to a Power Bar:

Applies to Components:

1XB04RDxxx 1XDXXRH07x

- 1. Place the **Rotational Luminaire Hanger Hub** over the **Power Bar**.
- 2. Press down firmly on top of **Hub**, while pressing up on the bottom of the **Power Bar**, until the Hub clicks into place (Fig. 2).
- 3. Press the **Hanger Rod** up against the Hanger Hub and screw in the **Hanger Cap.** Be sure the brass contacts on the Hanger Hub are touching those on the Hanger Rod (Fig. 3). **NOTE:** Do not fully tighten.
- 4. Rotate the Luminaire to the desired position and secure by fully tightening the Hanger Cap (Fig. 4).





### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

#### Calla:

- 1. Curl the **Petal** into a conical shape and align the two outer holes with each other (1).
- 2. Align **Petal** with the fixture **Branches** (2).
- 3. Secure Petals to Branches by hand screwing the two **Pins** onto the fixture for each Branch (3)

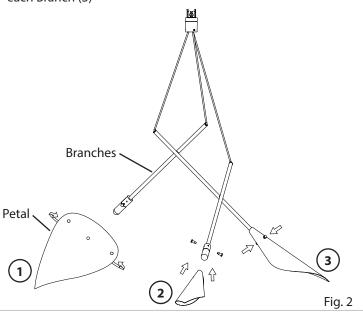
**Applies to Components:** 1XDXXCL14x-XX 1XDXXCL16x-XX 1XZ990007x 1XZ990010x

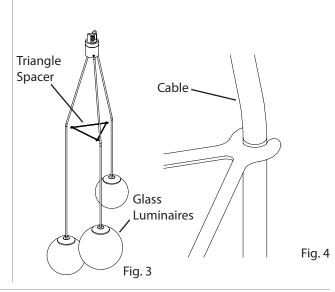
#### **Glass Cluster Luminaires:**

1. Place the **Triangle Spacer** in between the Cables of the

**Applies to Components:** 1XDXXCL13x

fixture (Fig. 3). Snap the pendent Cables into the Spacer at three locations (Fig. 4). **Note:** Make sure Glass Luminaires are screwed on tightly.





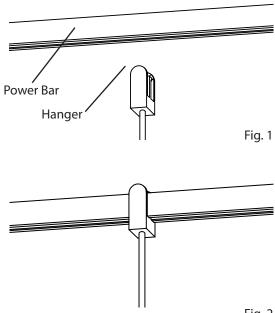
Leaf, Calla, Branches, Glass Cluster, V-Cord, and Monoline Luminaires:

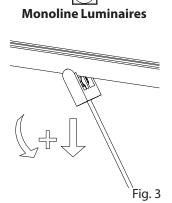
1. Align Hanger with Power Bar (Fig. 1) and press down firmly on the top of the Power Bar, while pressing up on the bottom of the Hanger, until the Power Bar clicks into place. (Fig. 2)

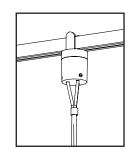
**Applies to Components:** 1XDXXCLxxx-xx 1XDXXVCxxx-xx

- 2. To remove, tilt hanger then pull down from Power Bar (Fig. 3).
- 3. Smooth cord by gently pulling it between thumb and forefinger. Alternatively, place a rigid rod between thumb and cord, such as the barrel of a pen or the shank of a screwdriver.

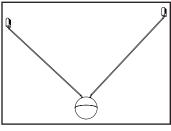
Note: Use opposite hand to grasp cord above the region being smoothed. Do not apply excessive force, or damage to cord and hanger may result.







Applies to three cord hangers: Leaf, Calla, Branches, and **Glass Cluster** 



**V-Cord Luminaires** 15 of 26

Fig. 2



### **Assembly Instructions**

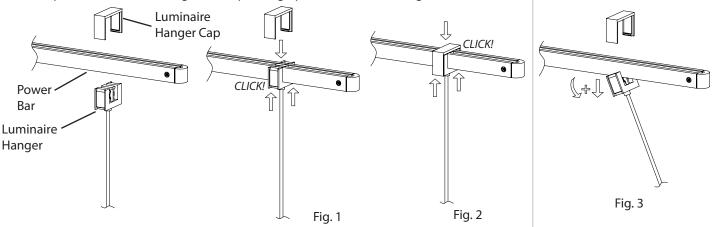
#### INSTRUCTIONS D'INSTALLATION

Applies to Components: 1XB04CL09x 1XB04CL18x

Connecting a Monoline™ Luminaire Hanger to a Power Bar:

- 1. Place the **Monoline™ Luminaire Hanger** under the **Power Bar**.
- 2. Press up firmly on both sides the bottom of the **Monoline™ Luminaire Hanger**, while pressing down on the top of the **Power Bar**, until the Luminaire Hanger clicks into place (Fig. 1).
- 3. Press down firmly on top of the **Luminaire Hanger Cap**, while pressing up on the **Luminaire Hanger**, until the Luminaire Hanger Cap clicks into place (Fig. 2).
- 4. To remove the **Monoline™ Luminaire Hanger Cover**:

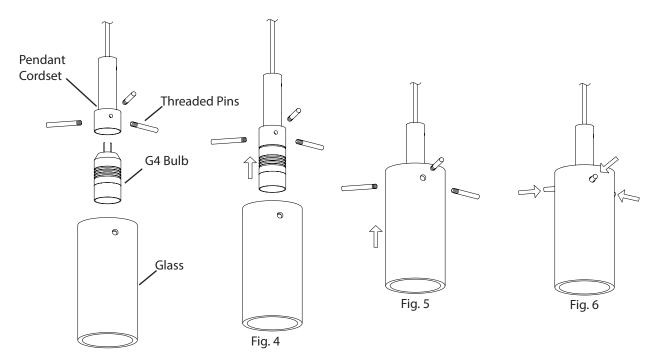
Spread the Monoline<sup>TM</sup> Luminaire Hanger Cover apart using the thumbs and press up on the cover, while pressing down on the **Power Bar** with the index and middle fingers. Tip the **Monoline<sup>TM</sup> Luminaire Hanger** in the direction of the Power Bar and press down on the Hanger, while pressing up on the Power Bar (Fig. 3).



#### Connecting a Monoline™ Luminaire to a Monoline™ Pendant Cordset:

Applies to Components: 1XDXXCL01x 1XDXXCL03x 1XDXXCL02x

- 1. Install the included **G4 Bulb**. (Fig. 4)
- 2. Raise the **Glass** and align the holes in the glass to the holes in the **Pendant Cordset** (Fig. 5). Secure the glass by inserting the **Threaded Pins** through the holes in the glass and screwing the pins into the **Pendant Cordset** (Fig. 6).





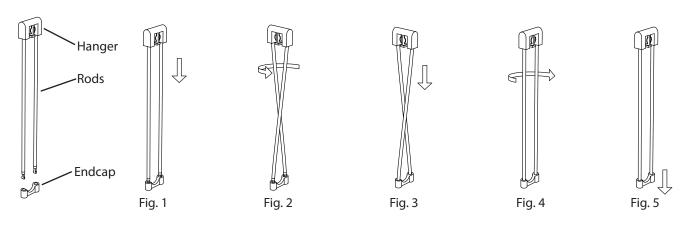
### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

Applies to Component: **1XZ990001***x* 

#### Connecting a Luminaire Hanger Endcap to a Luminaire Hanger:

- 1. Gently insert the two Luminaire Hanger **Rods** into the holes on the top of the Luminaire Hanger **Endcap** (Fig. 1).
- 2. Rotate the **Endcap** or Luminaire **Hanger** 90 degrees (Fig. 2).
- 3. Push the Luminaire Hanger Rods into the Endcap until the copper on the ends of the Rods is no longer visible (Fig. 3).
- 4. Rotate the **Endcap** or Luminaire **Hanger** back 90 degrees (Fig. 4).
- 5. Pull the **Endcap** down to lock the Endcap (Fig. 5).

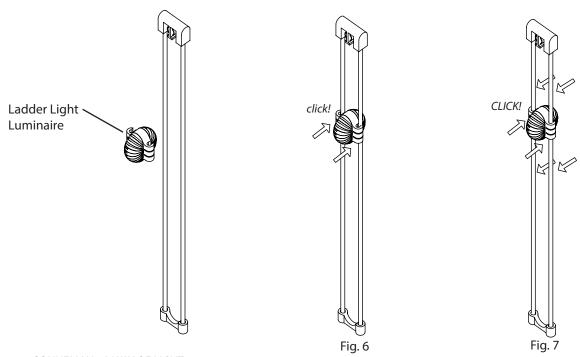


#### **Connecting a Ladder Light onto a Luminaire Hanger:**

Applies to Component: 1XDXXLL01x

NOTE: The Luminaire Hanger **Endcap** or a **Luminaire** must be installed before connecting a **Ladder Light** onto a Luminaire **Hanger**.

- 1. Gently press both sides of the Ladder Light onto the Luminaire Hanger until the Ladder Light softly clicks into place (Fig. 6).
- 2. Confirm the desired position of the **Ladder Light** on the **Hanger**, and adjust the position if necessary. CAUTION! The next step will put a set of small score lines through the paint on the **Hanger Rods**.
- 3. Place the index and middle fingers of each hand on the **Hanger Rods** on either side of the **Ladder Light** and press firmly on both sides of the Ladder Light with the thumbs until the Ladder Light fully clicks into place (Fig. 7).



1XDXXLB36x

1XZ990005x

Applies to Components: 1XDXXLB12x 1XDX

1XDXXLB24x



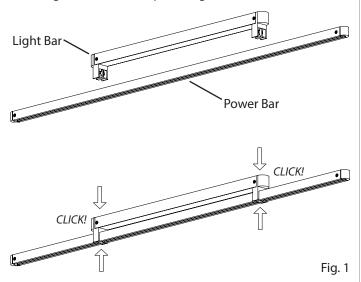
### **Luminaires and Luminaire Hangers**

### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

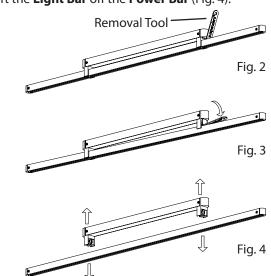
#### **Connecting a Light Bar onto a Power Bar:**

- 1. Place the **Light Bar** on the **Power Bar**.
- 2. Press down firmly on the top of both ends of the **Light Bar**, while pressing up on the bottom of the **Power Bar**, until the Light Bar clicks into place (Fig. 1).



#### Removing a Light Bar from a Power Bar:

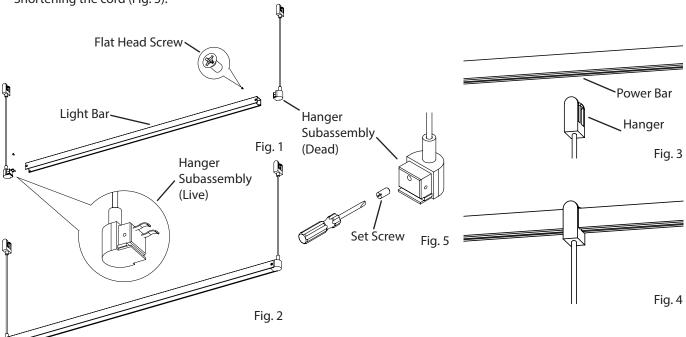
- 1. Place the Light Bar **Removal Tool** underneath the end of the **Light Bar** (Fig. 2).
- 2. Press down firmly on the edge of the **Tool** to separate one side of the **Light Bar** from the **Power Bar** (Fig. 3).
- 3. Repeat steps 1-2 to separate other side of the **Light Bar**.
- 4. Lift the **Light Bar** off the **Power Bar** (Fig. 4).



#### **Suspended Light Bars:**

1. Align Hanger Subassemblies with the Light Bar. Make sure the screw holes of the Hanger Subassembly align with the Light Bar (Fig. 1). Note: One hanger subassembly has conductors (live) that will engage with light bar once attached; the other does not (dead).

- 2. Insert Hanger Subassembly into Light Bar and secure with Flat Head Screws (Fig 2).
- 3. Align **Hanger** with **Power Bar** (Fig. 3) and press down firmly on the top of the Power Bar, while pressing up on the bottom of the Hanger, until the Power Bar clicks into place (Fig. 4).
- 4. Adjust the leveling of the **Luminaire** by loosening the **Set Screw** on the **Dead Hanger Subassembly** and lengthening or Shortening the cord (Fig. 5).





Applies to Components: 1XB04SRxxx

**Applies to Components:** 

1XB04SR16x-RG

1XDXXSR01x-xx

1XDXXSR01x-xx

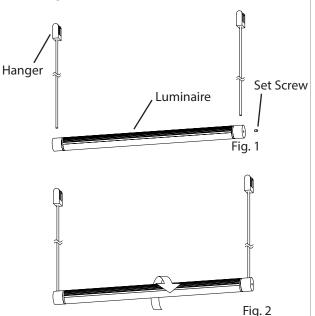
### **Luminaires and Luminaire Hangers**

### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

Connecting Linear Rotational Luminaire to Single Rod Luminaire Hanger:

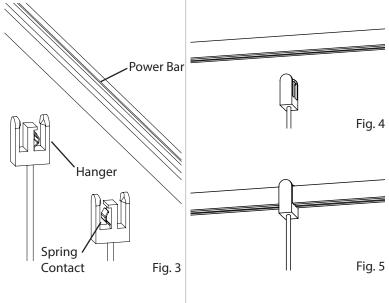
- 1. Align **Linear Rotational Luminaire** with both **Hangers** (Fig. 1).
- 2. Insert **Luminare** onto **Hangers** and secure with **Set Screws** (Fig. 2). **Note:** Luminaire can rotate 360° (Fig. 2).



#### **Single Rod Luminaire Hanger:**

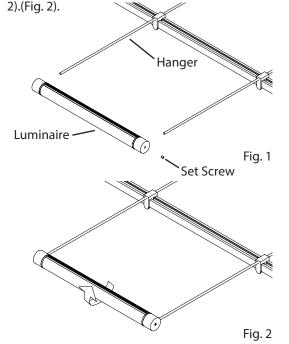
1. Make sure **Spring Contacts** of each **Hanger** face opposite directions (Fig. 3).

2. Align **Hanger** with **Power Bar** (Fig. 4) and press down firmly on the top of the Power Bar, while pressing up on the bottom of the Hanger, until the Power Bar clicks into place. (Fig. 5)



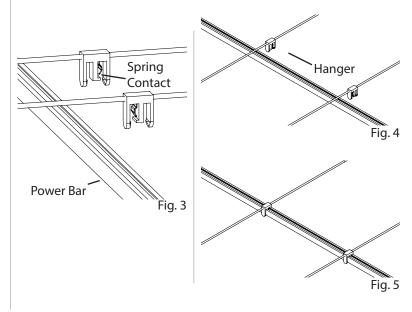
### Connecting Linear Rotational Luminaire to Single Rod Outrigger Luminaire Hanger:

- 1. Align **Linear Rotational Luminaire** with both **Hangers** (Fig. 1).
- Insert Luminare onto Hangers and secure with Set Screws (Fig. 2). Note: Luminaire can rotate 360° (Fig.



#### Single Rod Luminaire Hanger:

- 1. Make sure **Spring Contact** of each **Hanger** opposes each other (Fig. 3).
- 2. Align **Hanger** with **Power Bar** (Fig. 4) and press up firmly on the bottom of the Power Bar, while pressing down on the top of the Hanger, until the Power Bar clicks into place (Fig. 5).



1XDXXRH05x

1XDXXRH06x

1XB04RH00x

1XB04RH01x

**Applies to Components:** 

**Applies to Components:** 1XDXXRH01x

1XDXXRH02x

1XDXXRH03x

1XDXXRH04x

Fig. 3



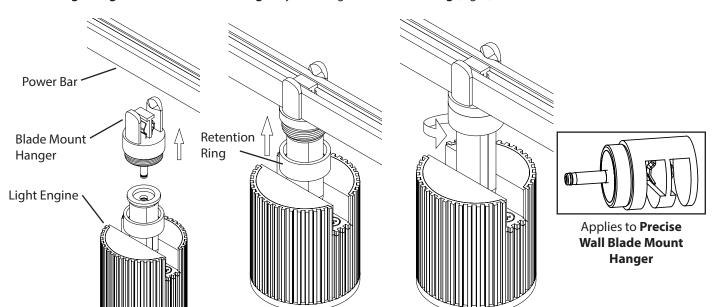
### **Luminaires and Luminaire Hangers**

### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

Precise Blade Mount Hanger and Precise Bar-Mounted Aimable Light Engine:

- 1. Align **Hanger** with **Power Bar** (Fig. 1) and press down firmly on the top of the Power Bar, while pressing up on the bottom of the Plug, until the Power Bar clicks into place (Fig. 2).
- 2. Align Light Engine with Blade Mount Hanger (Fig. 1), connect Light Engine to Blade Mount Hanger (Fig. 2).
- 3. Secure Light Engine to Blade Mount Hanger by screwing on Retention Ring (Fig. 3).



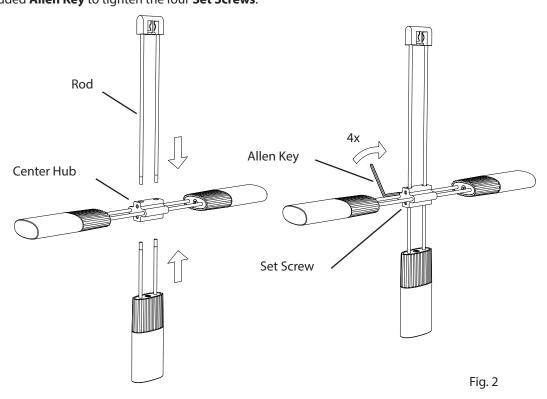
#### Connecting an HCxx Luminaire to a Cluster Luminaire Hanger (Fig. 2):

Fig. 1

1. Insert the two Rods of the Cluster Luminaire Hanger and the bottom Luminaire into the Center

1XDXXHCxxx 1XB04HRxxx 2. Use the included **Allen Key** to tighten the four **Set Screws**.

Fig. 2





### **Assembly Instructions**

#### INSTRUCTIONS D'INSTALLATION

#### **Mezzaluna Luminaire:**

1. Align Luminaire with Power Bar 1XDXXCH06x (Fig.1), press down firmly on the top of the Luminaire, while pressing up on the bottom of the Power Bar, until the Power Bar clicks into place (Fig. 2).

2. Mezzaluna Luminaires can be assembled on top or on the bottom of the **Power Bar**. Two Luminaires can be assembled in the same location of the Power Bar on opposite sides (Fig. 3).

**Applies to Components:** 

**Precise Direct Mount:** 1. Align **Luminaire** with

**Applies to Components:** 1XDXXCH01x-X 1XDXXCH05x-X 1XDXXCH04x-X

> **Applies to Components:** 1XB04CH00x

1XB04CH01x

1XDXXCH01x

1XDXXCH03x

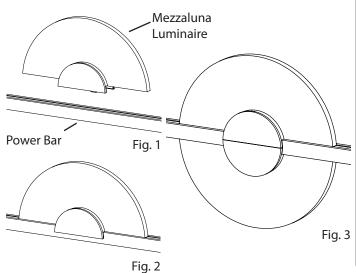
1XDXXCH04x

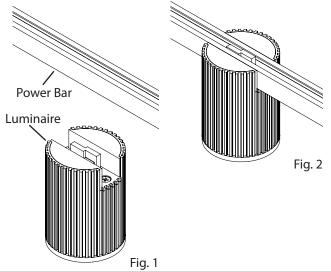
1XDXXCH07x

Power Bar (Fig. 1), press up firmly on the

bottom of the Luminaire, while pressing down on the top of the Power Bar, until the Power Bar clicks into place (Fig.

Note: Precise Direct Mount Luminaires can be assembled on top or on the bottom of the **Power Bar**.



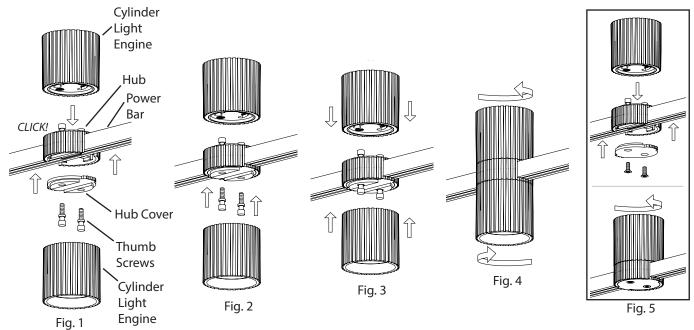


### Connecting a Suspenders Precise Bar-Mounted Hub for Duplex Light Engines to a Power

1. Place the **Hub** over the **Power Bar** then press down firmly on top of **Hub**, while pressing up on the bottom of the Power Bar, until the Hub clicks into place (Fig. 1).

2. Attach the **Hub Cover** to the Hub, making sure the counter-sunk holes on the cover are facing inward. Secure using two small **Thumb Screws** (Fig. 2).

3. Install the Cylinder Light Engine to the Hub by inserting the contacts on the Hub into the slots on the Light Engine (Fig. 3), then twisting the Light Engine to the ends of the slots (Fig. 4). Note: Flip Hub Cover to change to single direction (Fig. 5).





### **Suspenders Precise™ Trim Kits**

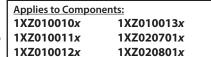
### Assembly Instructions

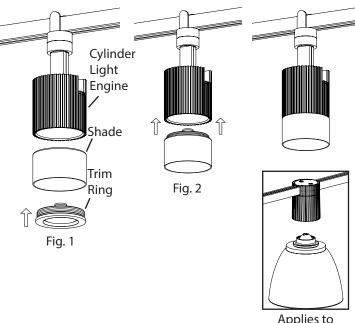
#### INSTRUCTIONS D'INSTALLATION

#### Connecting a Trim to a **Cylinder Light Engine:**

1. Insert the **Trim Ring** into the **Shade**. (Fig. 1)

2. Screw the **Trim Ring** into the Cylinder Light Engine. (Fig. 2)





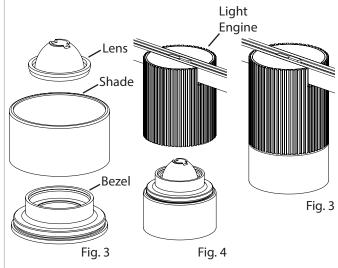
Applies to **Glass Shade Trims** 

#### **Power Precise Round Trims:**

1. Align the Lens, Shade, and Bezel with each other (Fig. 3) then preassemble them together (Fig. 4).

**Applies to Components:** 1XZ0202xxx 1XZ0205xxx 1XZ0203xxx 1XZ0206xxx

- 2. Align the assembly from step 1 with the Light Engine
- 3. Screw the assembly from step 1 to the Light Engine (Fig. 5).



#### Connecting a Trim to a **Cylinder Light Engine:**

1. Screw the **Trim Ring** into the Cylinder Light Engine (Fig. 1).

#### **Applies to Components:**

1XZ010001 <i>x</i>	1XZ010017 <i>x</i>
1XZ010002x	1XZ010018 <i>x</i>
1XZ010003 <i>x</i>	1XZ010019x
1XZ010015 <i>x</i>	1XZ0201 <i>xxx</i>
1XZ010016x	

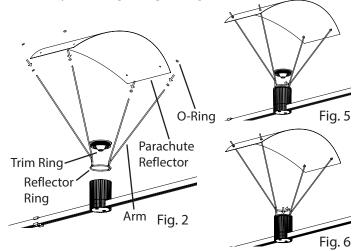
### Trim Ring Cylinder Light **Engine** Fig. 1

#### Connecting a Trim to a Cylinder **Light Engine:**

1XZ010004x 1. Place a rubber **O-Ring** on each

Arm on the Parachute Reflector Rrim (Fig. 2). 2. Bend the Parachute Reflector and pass each hole over an Arm (Fig. 3).

- 3. Place another O-Ring on each **Arm** and adjust the o-rings to set the desired reflector position (Fig. 4).
- 4. Place the Reflector Ring on the Cylinder Light Engine and adjust to the desired angle (Fig. 5).
- 5. While holding the reflector ring in place, screw the **Trim Ring** into the Cylinder Light Engine (Fig. 6).



**Applies to Components:** 

1XZ010005x



1XZ03020xx

**Applies to Components:** 1XZ03010xx

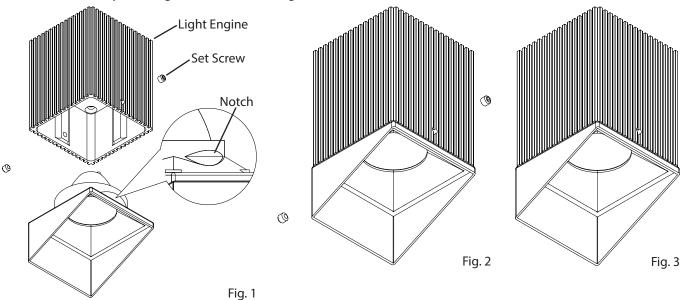
1XZ03030xx

### **Suspenders Precise™ Trim Kits**

# Assembly Instructions INSTRUCTIONS D'INSTALLATION

#### **Power Precise Square Trims:**

- 1. Align **Trim** with **Light Engine**, make sure to align the **Notch** found on the Trim to the **Set Screw** found on the Light Engine
- 2. Insert the **Trim** into the **Light Engine** (Fig. 2).
- 3. Secure the **Trim** by screwing in the **Set Screws** (Fig. 3).



**Applies to Components:** 1XZ04000xx

#### **Precise Cell Luminaire Trims:**

- 1. Align Trim Subassembly with Light Engine. Note: Beam Angle Mark is visible on the Trim Subassembly (Fig. 1).
- 2. Snap **Trim Subassembly** into **Light Engine**, press up firmly on the bottom of the Trim Subassembly, while pressing down on the top of the Light Engine, until the Trim Subassembly clicks into place (Fig. 2). Note: Use the Notch on the enclosure to help detach the trim.

		Light Engine	
Beam Angle Mark	Beam Angle		
D10	10°		
D24	24°		
10X35	10°X35°		
D48	48°		
		Trim Subassembly	
		This subuscernary	
			2
		Notch	
		Beam	
		Angle Mark Fig. 1 Fig.	. 2
			_

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### **Power Feed Installation**

### **Assembly Instructions**

INSTRUCTIONS D'INSTALLATION

#### **Important**

- Always disconnect the power before installing or replacing components and before cleaning or other maintenance.
- Consult a qualified, licensed electrician to ensure correct branch circuit conductor.

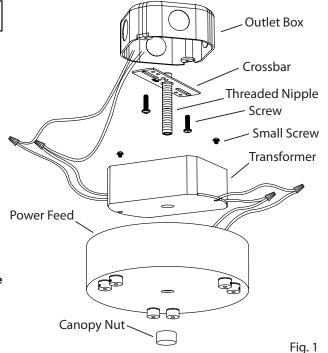
  Consulter un électricien qualifié pour vous assurer que les conducteurs de la dérivation sont adéquats.

**Applies to Components:** 

1XA02DB20x

#### **Deep Power Feed Installation (Fig. 1):**

- 1. Shut off power to the **outlet box**.
- 2. Attach the **Crossbar** to the outlet box using the two (2) long **Screws**.
- 3. Make appropriate electrical connections using wire nuts:
  - a. Connect the **Transformer**'s live wire (black) to the live **Outlet Box** wire.
  - b. Connect the Transformer's neutral wire (white) to the neutral outlet box wire.
  - c. Connect the ground outlet box wire (green or uncoated) to the crossbar using the green screw.
  - d. Connect one of the **Power Feed** wires to one of the transformer output wires. Connect the other Power Feed wire to the second transformer output wire.
  - e. Carefully place connections in outlet box.
- 4. **For 300W Transformers:** Attach the Transformer to the Power Feed using the two (2) **Small Screws**.
  - For 60W and 75W Transformers: Place the Transformer inside the Power Feed.
- 5. Install the **Power Feed** to the **Crossbar** by passing the **Threaded Nipple** through the hole in the **Power Feed** and securing with the **Canopy Nut**.

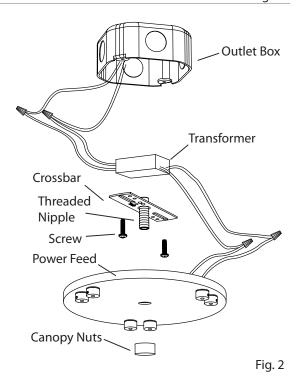


#### **Shallow Power Feed Installation (Fig. 2):**

- 1. Shut off power to the **Outlet Box**.
- 2. For remote transformer use: The Transformer

must be installed in an accessible location in accordance with local electrical codes. You must use the appropriate wire gauge from the transformer to the **Power Feed** to limit the voltage drop to less than 5%.

- 3. Make appropriate electrical connections using wire nuts:
  - a. Connect the Transformer's live wire (black) to the live Outlet Box wire.
  - b. Connect the Transformer's neutral wire (white) to the neutral Outlet Box wire.
  - c. Connect the ground outlet box wire (green or uncoated) to the crossbar using the green screw.
  - d. Connect one of the **Power Feed** wires to one of the Transformer output wires. Connect the other Power Feed wire to the second Transformer output
- e. Carefully place connections and Transformer (if applicable) in Outlet Box.
- 4. Attach the **Crossbar** to the **Outlet Box** using the two (2) long **Screws**.
- 5. Install the **Power Feed** to the **Crossbar** by passing the **Threaded Nipple** through the hole in the Power Feed and securing with the **Canopy Nut**.



#### Note

• This fixture is dimmable with Electronic Low Voltage (i.e., Trailing-Edge/Reverse Phase) type dimmers ONLY.

**Applies to Components:** 

1XA02DB05x

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### Suspenders® - 1-Tier Tri-Bar Configuration

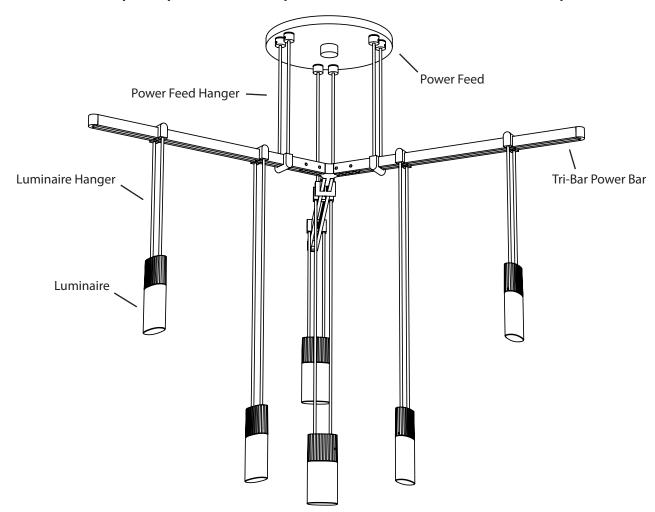
### **Assembly Instructions**

INSTRUCTIONS D'INSTALLATION

#### **Important**

- Always disconnect the power before installing or replacing components and before cleaning or other maintenance.
- Consult a qualified, licensed electrician to ensure correct branch circuit conductor.

  Consulter un électricien qualifié pour vous assurer que les conducteurs de la dérivation sont adéquats.



- 1. Shut off power to the outlet box.
- 2. Assemble the **Power Feed** as shown on page 25.
- 3. Assemble the **Tri-Bar Power Bar** as shown on page 3.
- 4. Connect the **Power Feed Hangers** to the **Tri-Bar Power Bar** so they are aligned with the lines on top of the **Power Bar**.
- 5. Connect the **Power Feed Hangers** to the **Power Feed** as shown on page 3.
- 6. Connect the **Luminaire Hangers** to the **Luminaires** as shown on pages 13-21.
- 7. Connect the **Luminaire Hangers** to the **Tri-Bar Power Bar** as shown on pages 13-21.
- 8. Restore power to the outlet box.

#### Note

• This fixture is dimmable with Electronic Low Voltage (i.e., Trailing-Edge/Reverse Phase) type dimmers ONLY.