

A delicately scaled, modular system of interconnected elements and suspended LED luminaires.

suspenders[®]

assembly instructions

2, 3-Bar Offset Ring (S1S, S1T)

SONNEMAN[®]
A WAY OF LIGHT

Multiple U.S. and foreign patents granted and pending.

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[®]

Contents

Power Bars	2
Power Feed Hangers	3
Ceiling Hangers	5
Wall Mount System	7
Ceiling Mount System	8
Power Bar Hanger	9
Luminaires and Luminaire Hangers	14
Suspenders Precise™ Trim Kits	27
Component Index	29
Power Feed Installation	30
Configuration Assembly	31

Power Bars

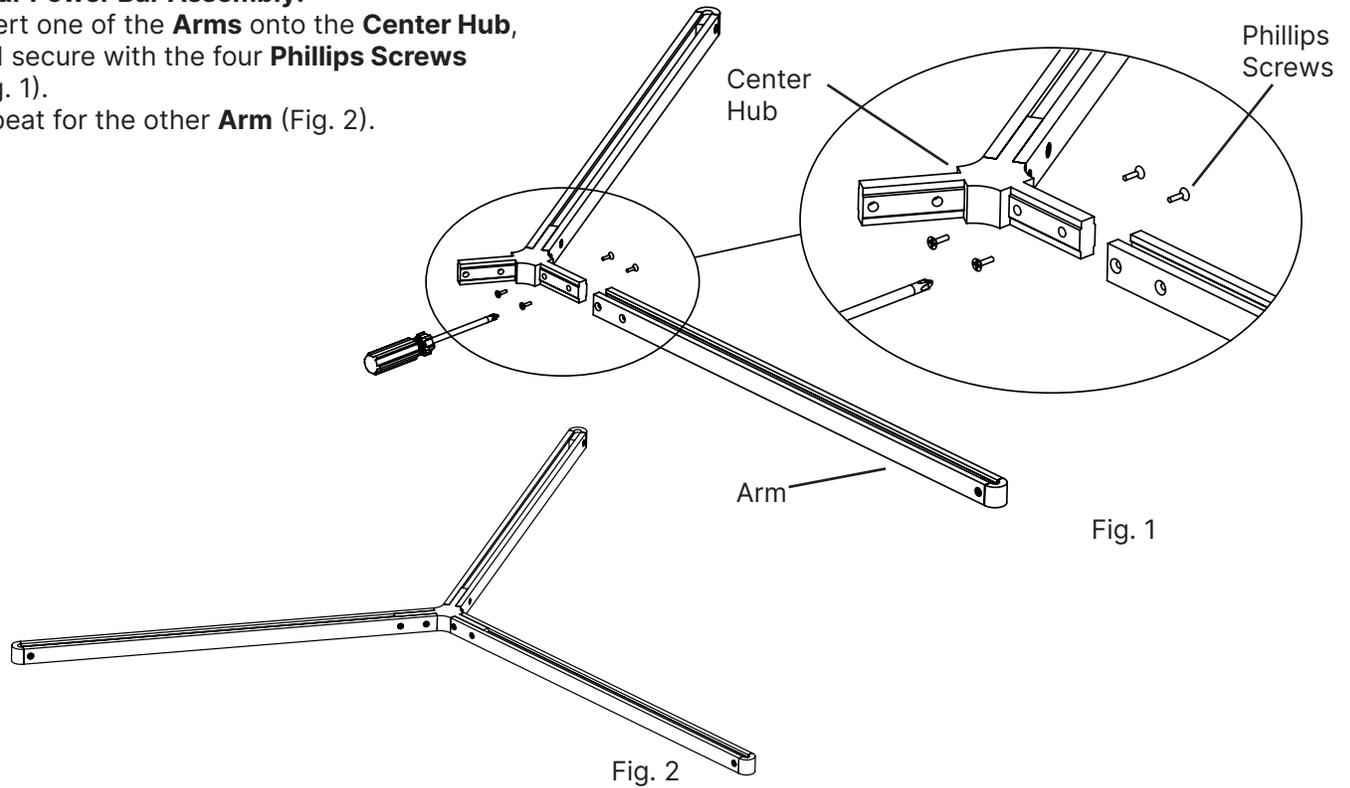
Assembly Instructions

INSTRUCTIONS D'INSTALLATION

Applies to Components:
1XC02XX12x 1XC02XX24x

Tri-Bar Power Bar Assembly:

1. Insert one of the **Arms** onto the **Center Hub**, and secure with the four **Phillips Screws** (Fig. 1).
2. Repeat for the other **Arm** (Fig. 2).

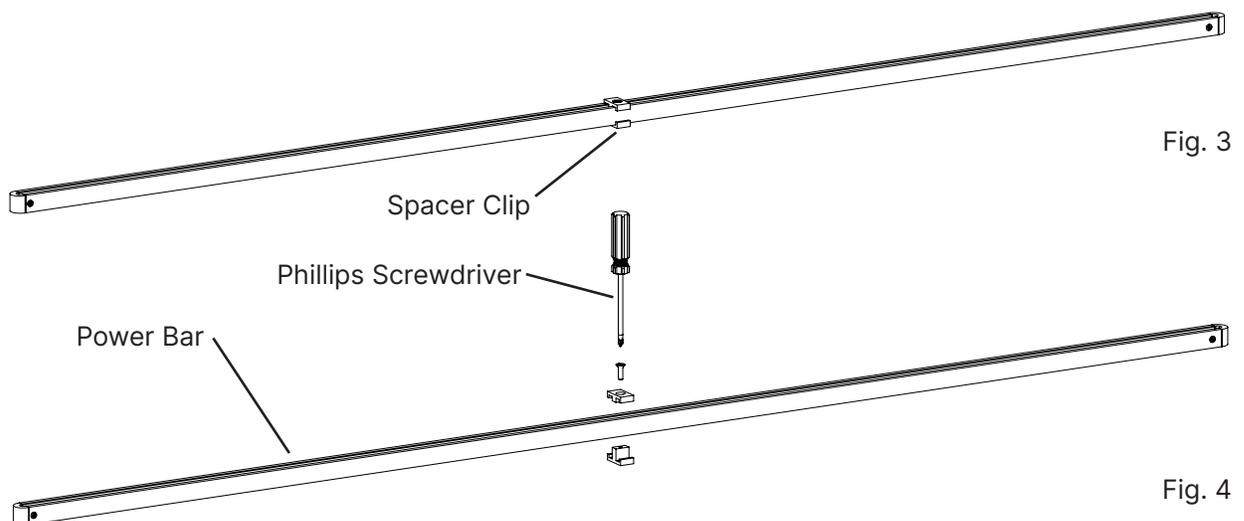


Power Bar Assembly:

1. The **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	1XC03XX32x-X	1XC04XX36x
1XC01XX24x	1XC03XX40x-X	1XC05XX24x
1XC01XX36x	1XC03XX48x-X	1XC05XX32x
1XC01XX48x	1XC04XX12x	1XC05XX40x
1XC01XX72x	1XC04XX16x	1XC05XX48x
1XC01XX96x	1XC04XX20x	
1XC03XX24x-X	1XC04XX24x	



January 27, 2025

Power Feed Hangers

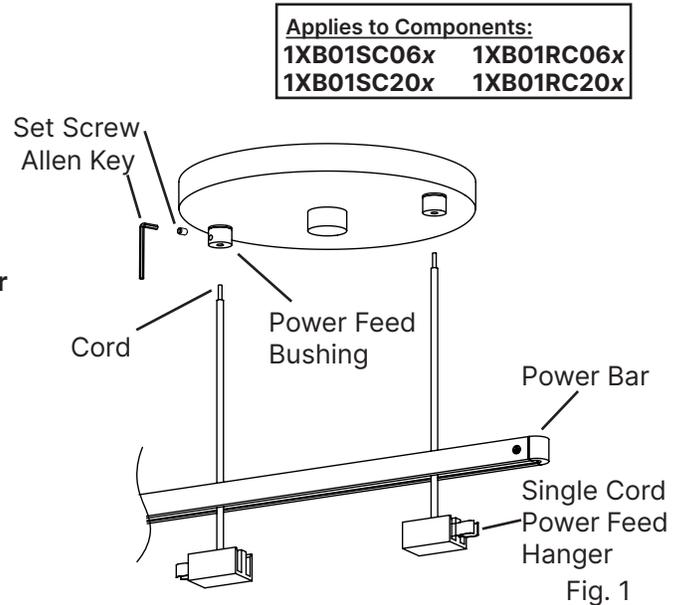
Assembly Instructions

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 short-circuiting the system, the spring contacts must point in different directions.

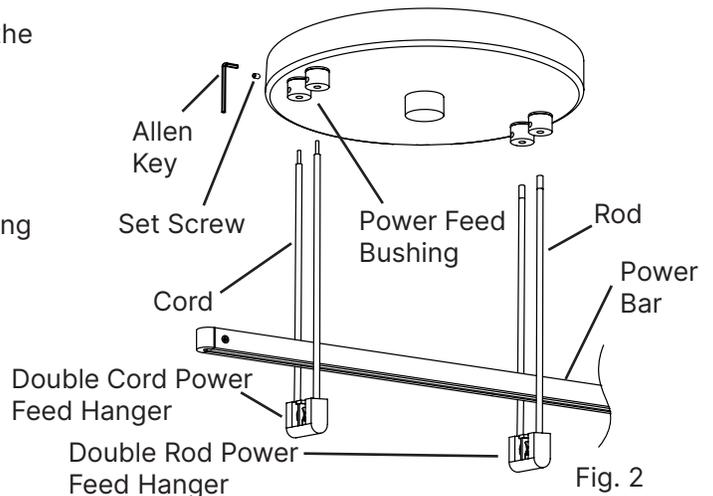
1. Install the **Single Cord Power Feed Hanger** onto the **Power Bar**: pass the **Cord** through the Power Bar, tip the Hanger 45 degrees and insert the copper springs into the center of the Power Bar, then push the Hanger up while tipping it back up 45 degrees (Fig. 1).
2. Cut the **Cord** to the 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**.



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	

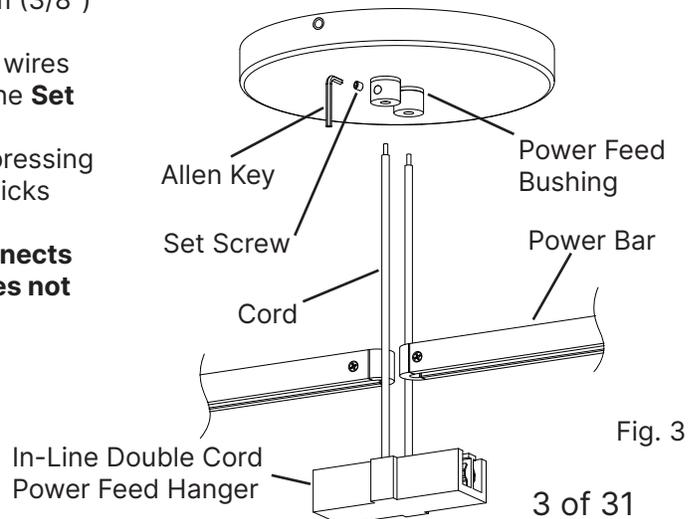


In-Line Double Cord Power Feed Hanger:

1. Cut the **Cords** to the desired length, and remove 10mm (3/8") of insulation from the end of each cord.
2. 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:	
1XB01IC06x	1XB01IC20x



January 27, 2025

Ceiling Hangers Assembly Instructions

INSTRUCTIONS D'INSTALLATION

Ceiling Hanger Assembly:

Applies to Component:

1XB02SB06x	1XB02SB06x-ST	1XB02RB06x	1XB02SR18x
1XB02SB20x	1XB02SB20x-ST	1XB02RB20x	

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

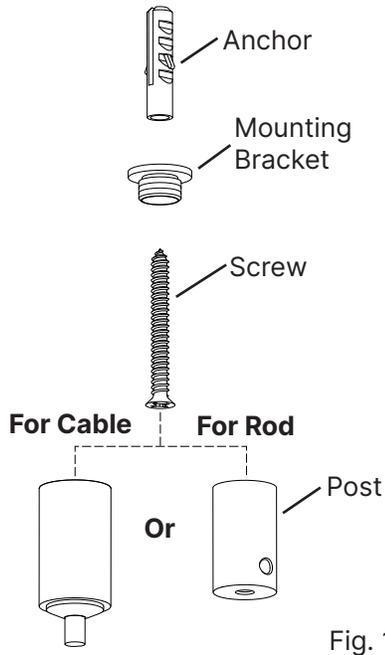


Fig. 1

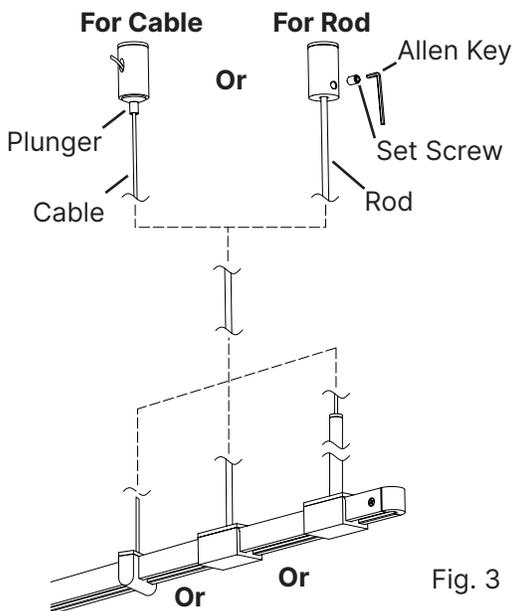


Fig. 3

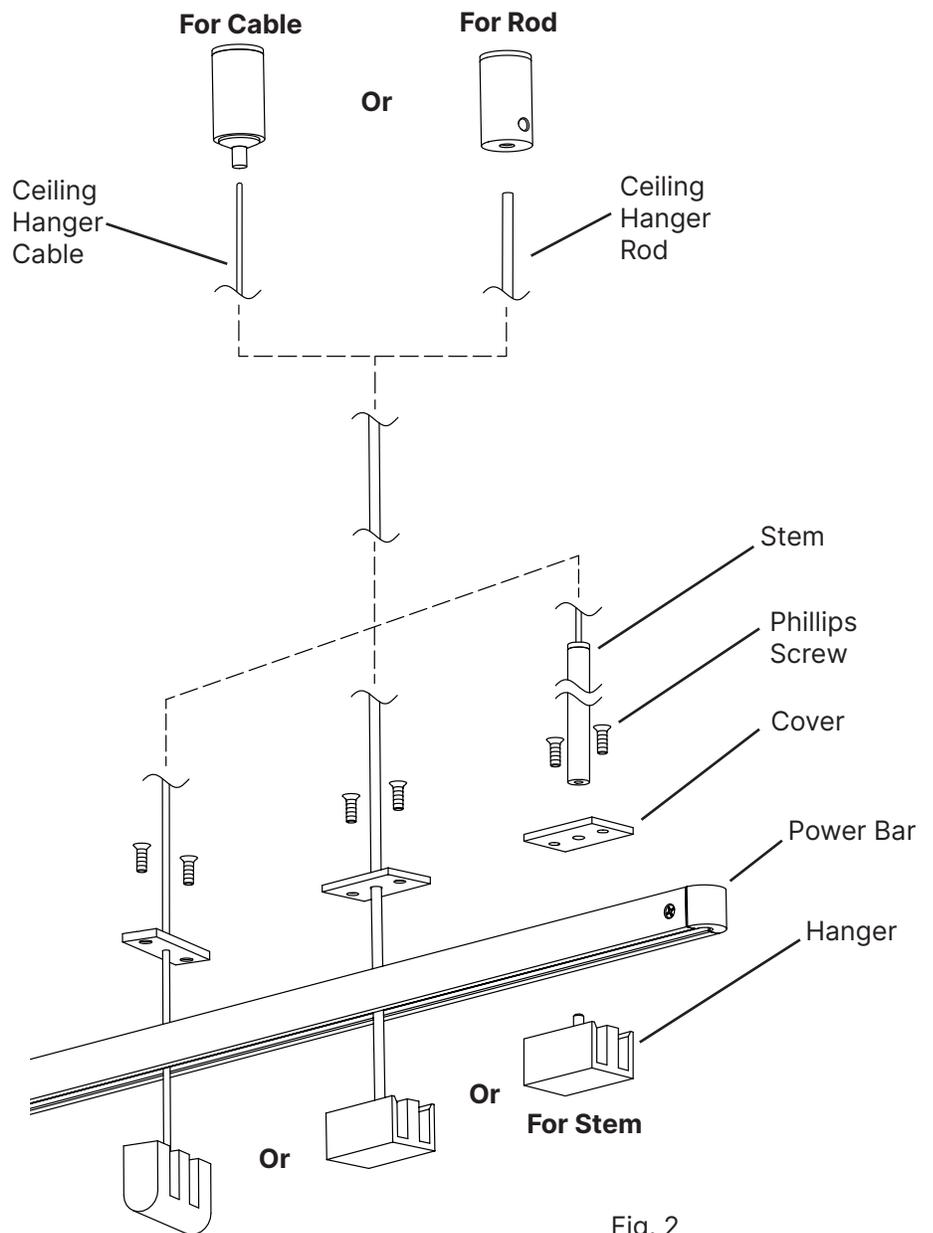


Fig. 2

Ceiling Hangers Assembly Instructions

INSTRUCTIONS D'INSTALLATION

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 Bracket (Fig. 1).
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).

Applies to Components:

1XB02IB06x	1XB02IB06x-ST	1XB02IR18x
1XB02IB20x	1XB02IB20x-ST	

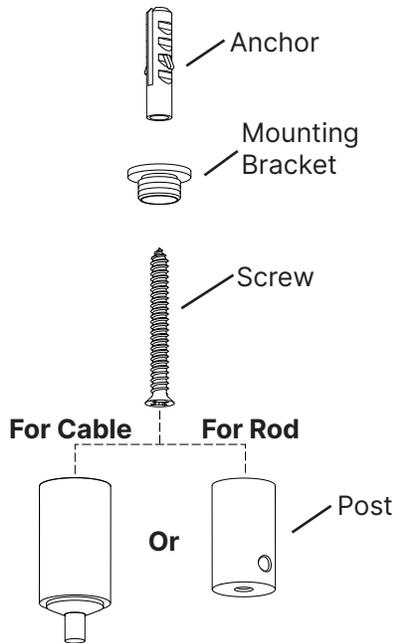


Fig. 1

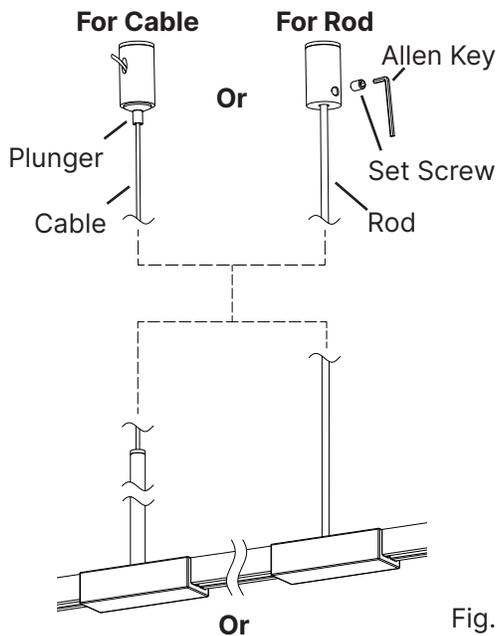


Fig. 3

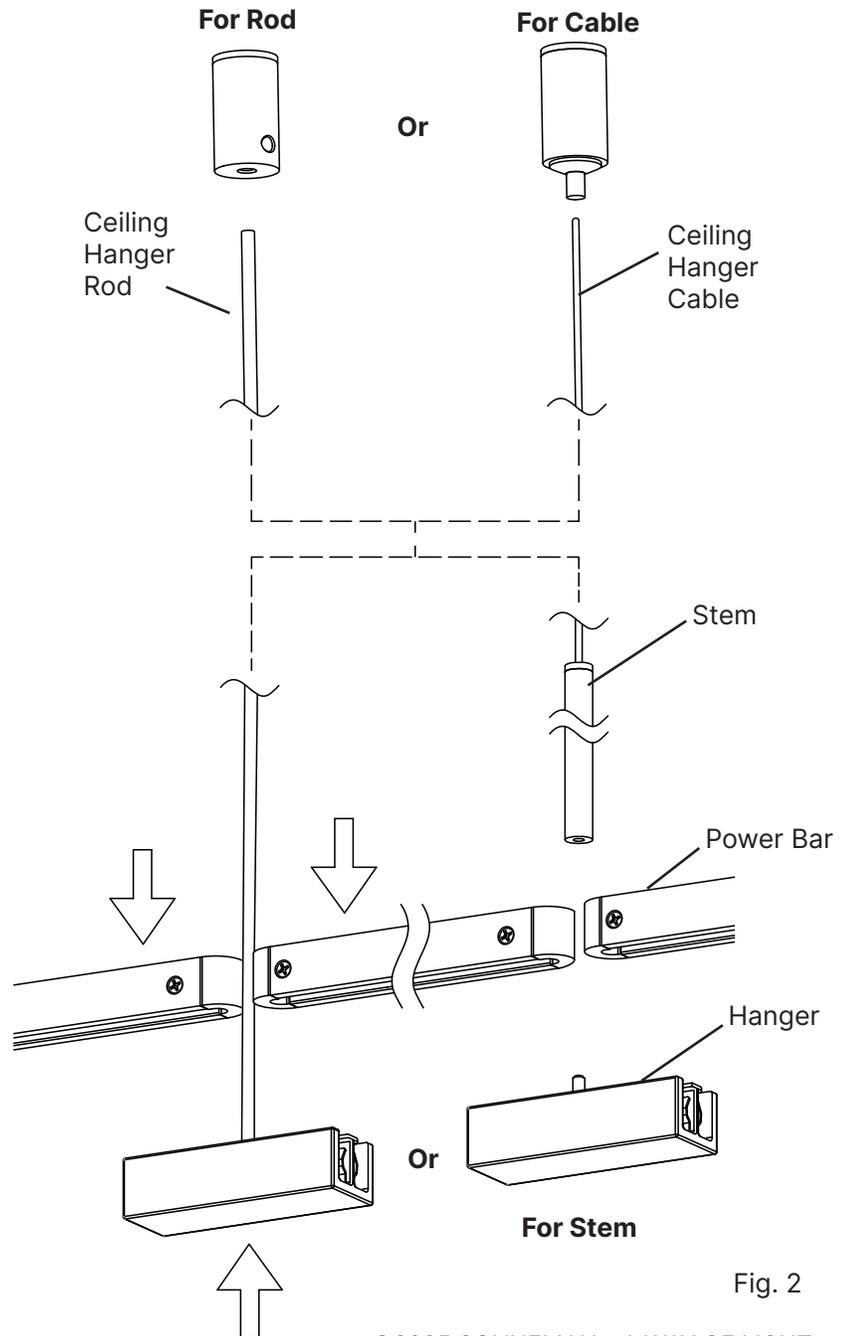


Fig. 2

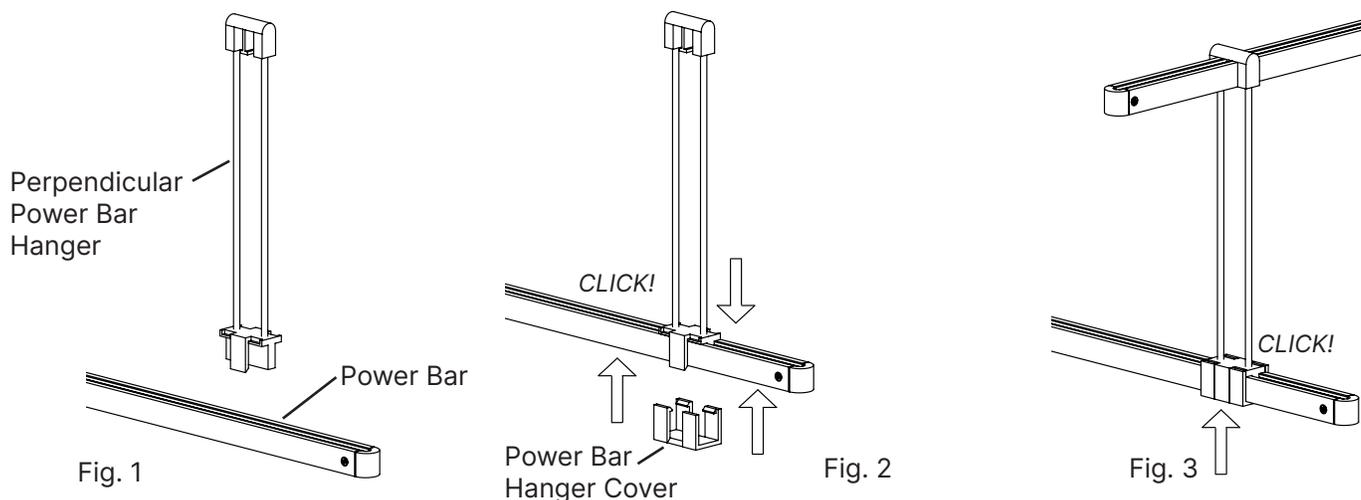
Power Bar Hangers Assembly Instructions

Applies to Components:
1XB03PRxxx

INSTRUCTIONS D'INSTALLATION

Perpendicular Power Bar Hanger v2:

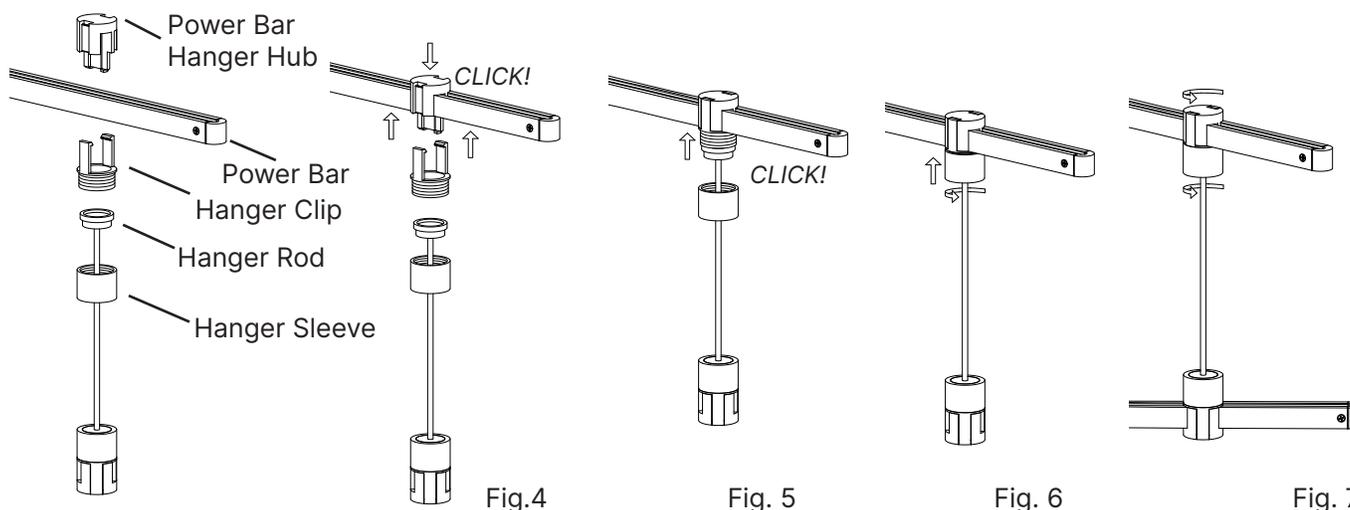
1. Press down firmly on the top of the **Power Bar Hanger**, while pressing up on the bottom of the **Power Bar**, until the Power Bar Hanger clicks into place (Fig. 2).
2. Push up on the bottom of the **Power Bar Hanger Cover**, while pressing down on the bottom of the **Power Bar**, until the Power 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



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. 4).
2. Insert the **Hanger Clip** through the **Hanger Hub** and press up on the Hanger Clip until Hanger Clip clicks into place (Fig. 5).
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. 6). NOTE: Do not fully tighten.
4. Rotate **Power Bar** to the desired position and secure by fully tightening the **Hanger Sleeve** (Fig. 7).
5. Repeat steps 1-4 for the second **Power Bar**.



Luminaires and Luminaire Hangers

Assembly Instructions

INSTRUCTIONS D'INSTALLATION

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

Applies to Components:

1XB04ARxxx

1XB04DR16x-RG

1XDXXRPxxx

1XB04DRxxx

1XB04RDxxx

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.

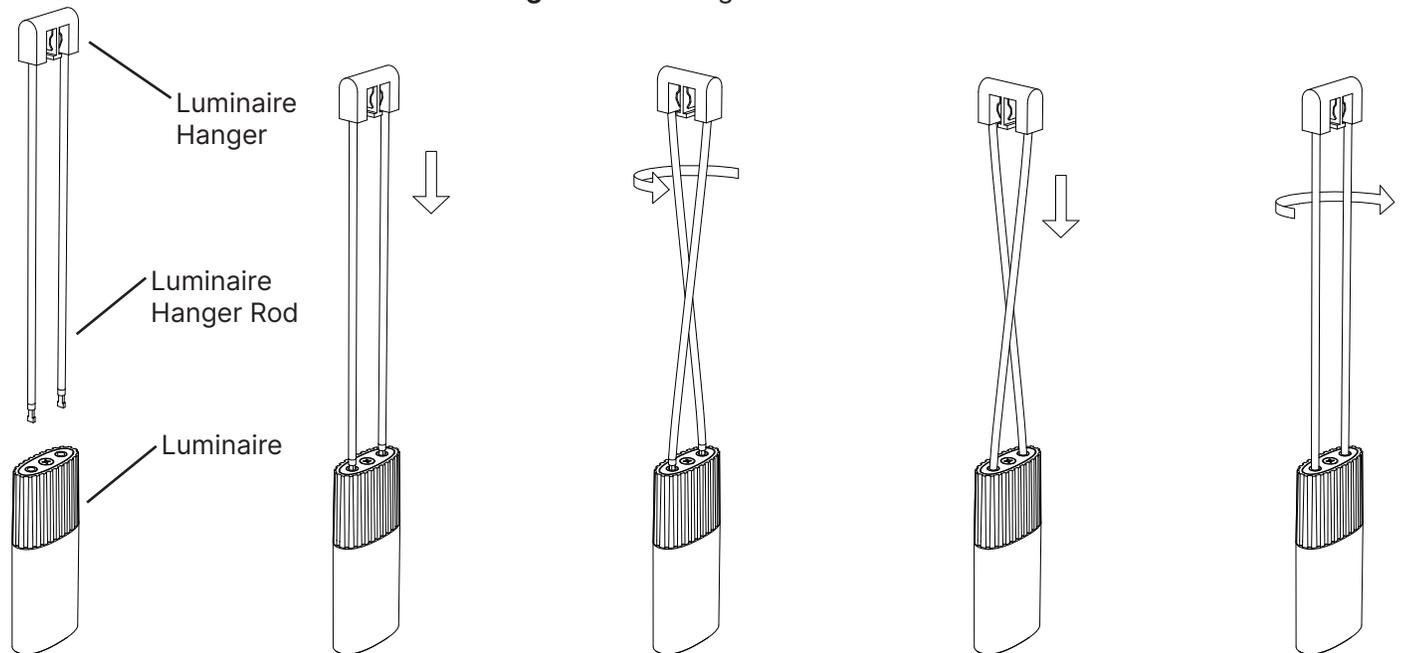


Fig. 1

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.

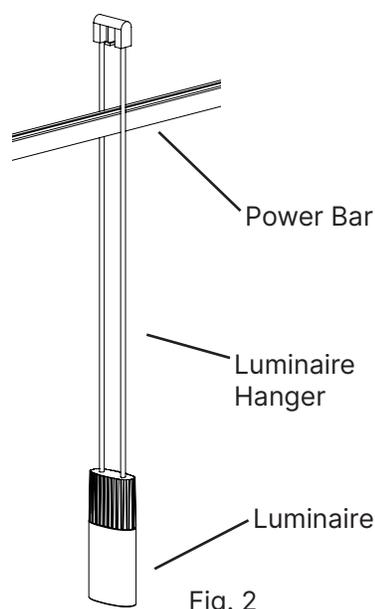


Fig. 2

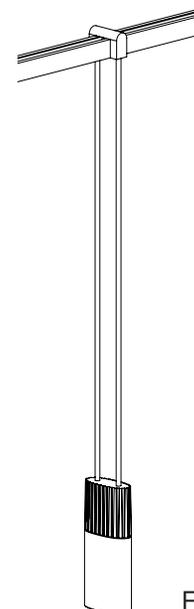


Fig. 3

Luminaires and Luminaire Hangers

Assembly Instructions

Applies to Components:
1XB04ARxxx

INSTRUCTIONS D'INSTALLATION

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. 2).

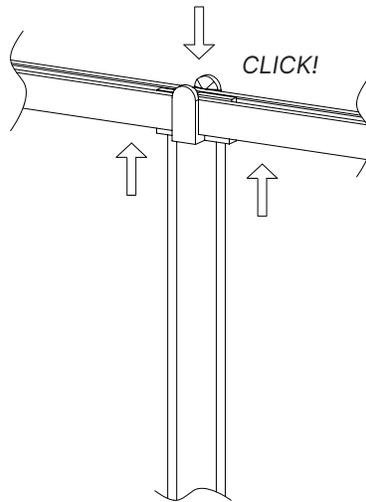
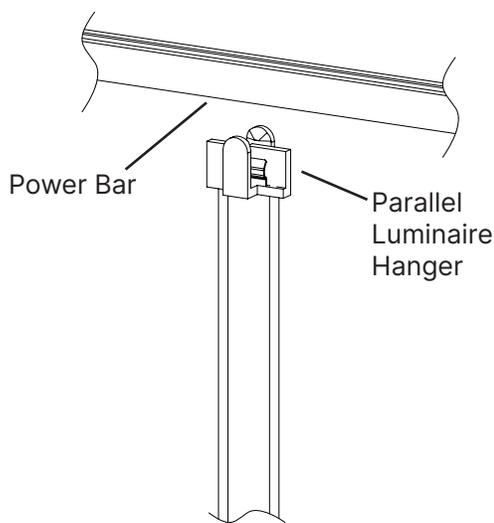


Fig. 1

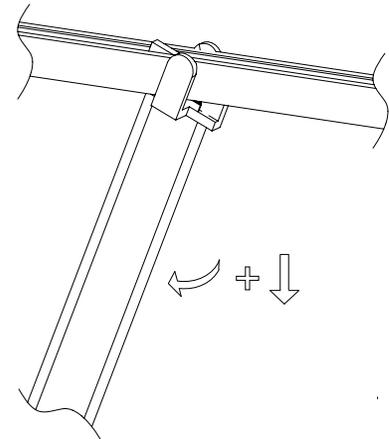


Fig. 2

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. 3).
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. 4). **NOTE:** Do not fully tighten.
4. Rotate the **Luminaire** to the desired position and secure by fully tightening the **Hanger Cap** (Fig. 5).

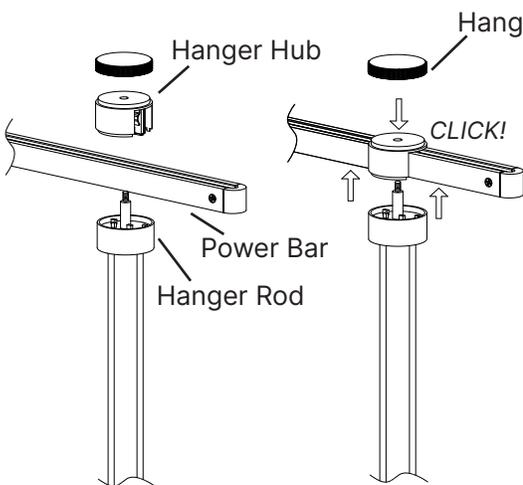


Fig. 3

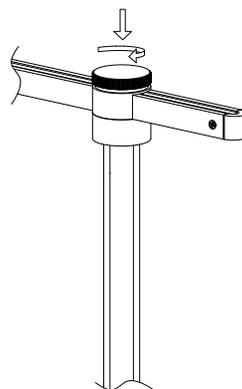


Fig. 4

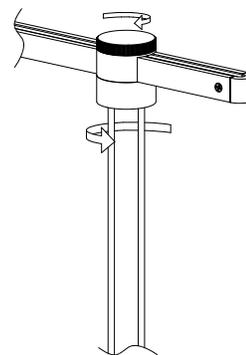
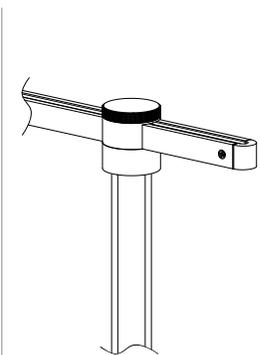


Fig. 5



Luminaires and Luminaire Hangers

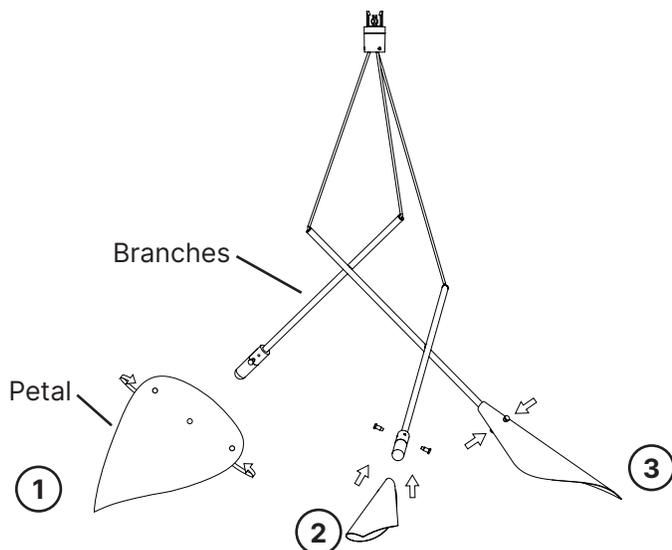
Assembly Instructions

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:
1DXXCL14x-XX
1DXXCL16x-XX
1XZ990007x
1XZ990010x



Glass Cluster Luminaires:

1. Place the **Triangle Spacer** in between the **Cords** of the fixture (Fig. 1). Snap the pendent Cables into the Spacer at three locations (Fig. 2). **Note:** Make sure **Glass Luminaires** are screwed on tightly.

Applies to Components:
1DXXCL13x

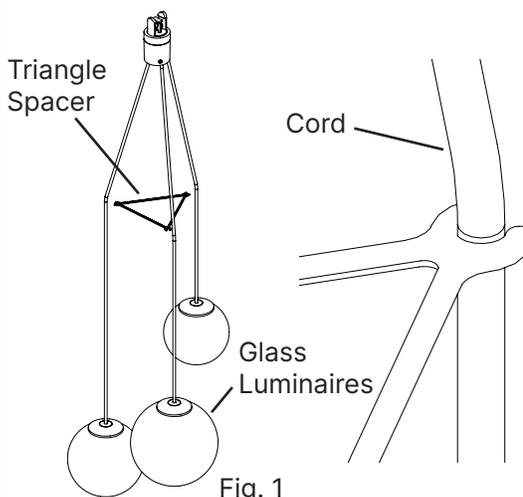


Fig. 2

Leaf, Calla, Branch, Glass Cluster, V-Line, and Monoline™ Luminaires:

1. Align **Hanger** with **Power Bar** (Fig. 3), tilt hanger, 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)
2. To remove, tilt hanger then pull down from **Power Bar** (Fig. 5).
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.

Applies to Components:
1DXXCLxxx-XX
1DXXVCxxx-XX

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.

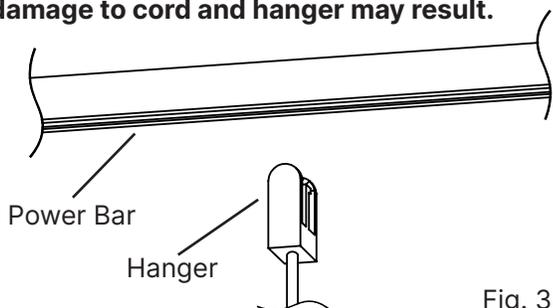


Fig. 3

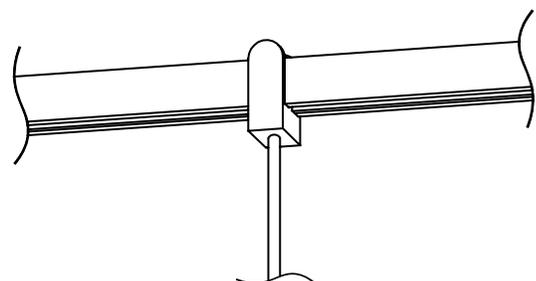


Fig. 4



Monoline Luminaires

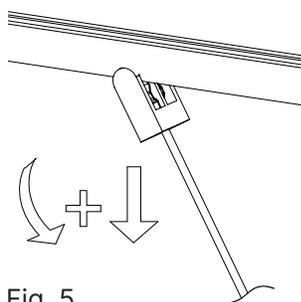
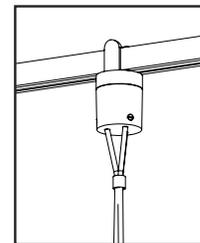
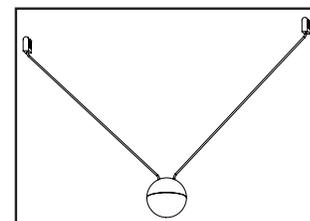


Fig. 5



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



V-Line Luminaires

January 27, 2025

Luminaires and Luminaire Hangers

Assembly Instructions

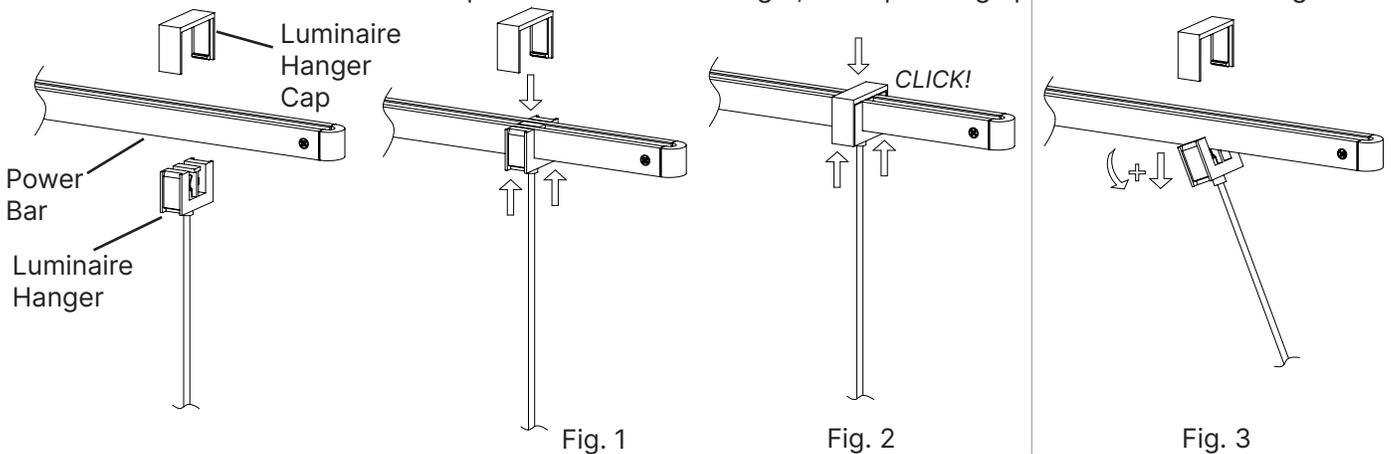
INSTRUCTIONS D'INSTALLATION

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**:

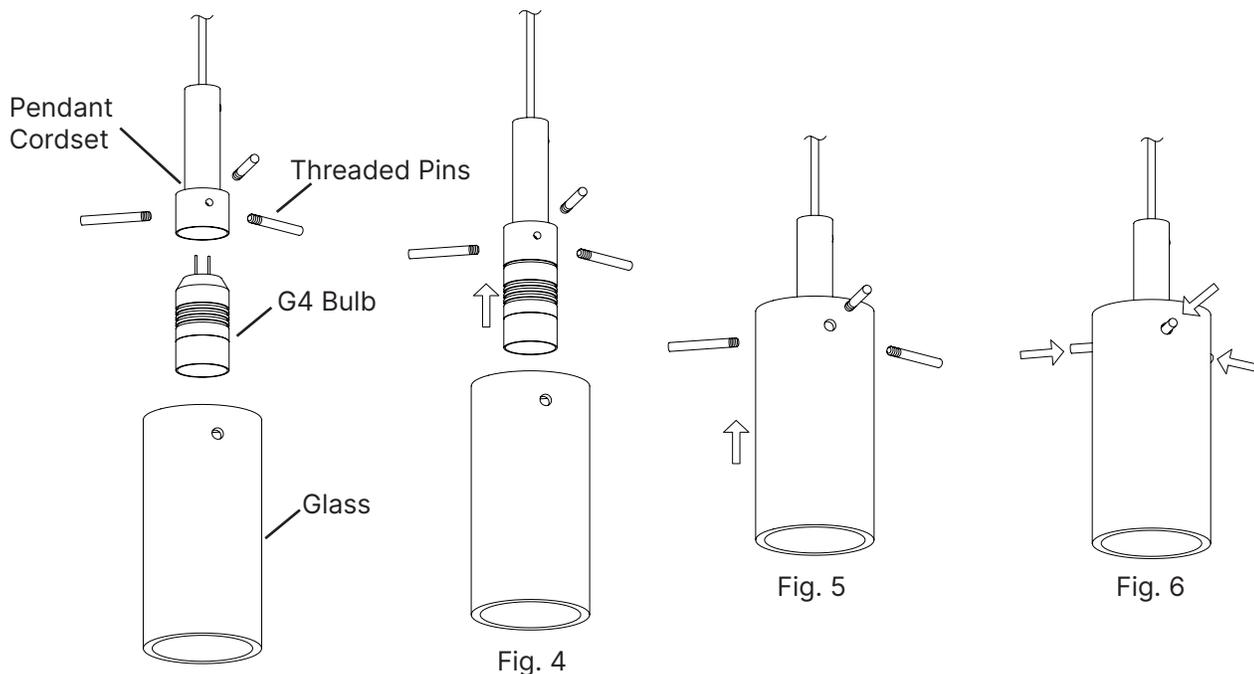
Spread the Monoline Luminaire Hanger Cover apart using the thumbs and press up on the cover, while pressing down on the **Power Bar** with the index and middle fingers. Tip the **Monoline Luminaire Hanger** in the direction of the Power Bar and press down on the Hanger, while pressing up on the Power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



Applies to Components:
1DXXCL01x 1DXXCL03x
1DXXCL02x

Connecting a Monoline Luminaire to a Monoline Pendant Cordset:

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).



Luminaires and Luminaire Hangers

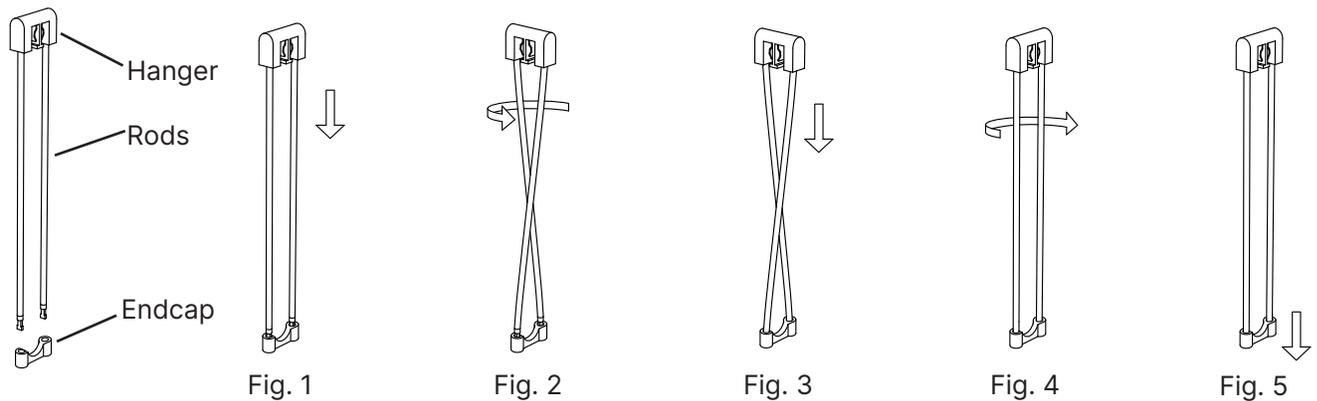
Assembly Instructions

Applies to Component:
1XZ990001x

INSTRUCTIONS D'INSTALLATION

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).

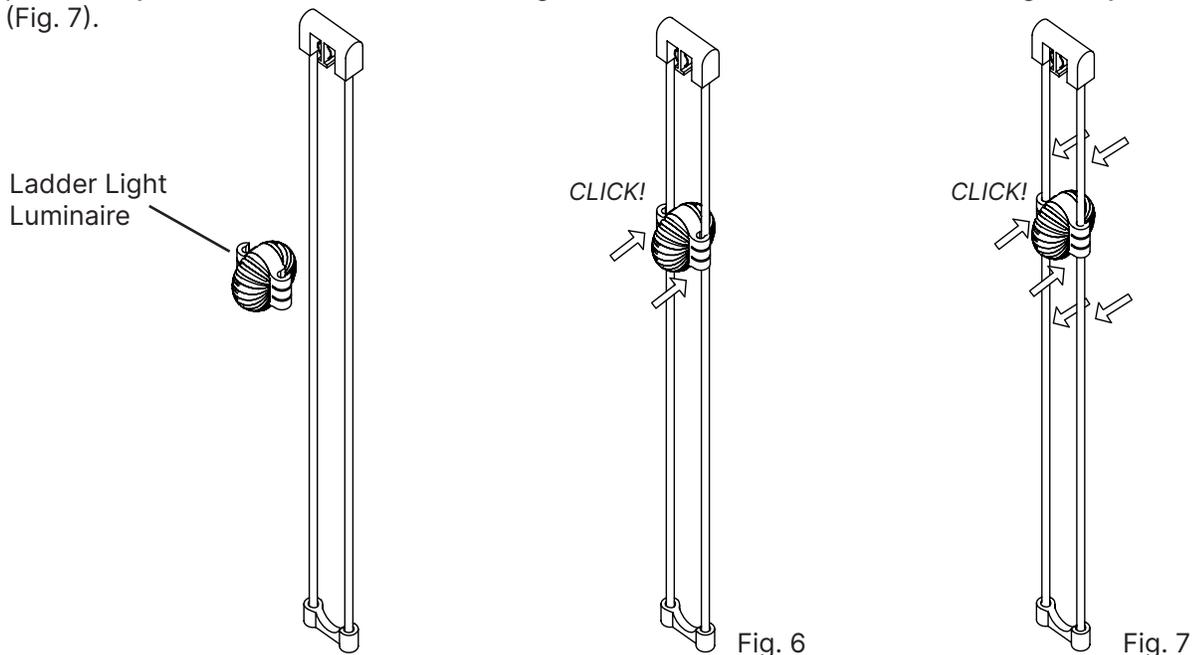


Applies to Component:
1XDXXLL01x

Connecting a Ladder Light onto a Luminaire Hanger:

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).



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).

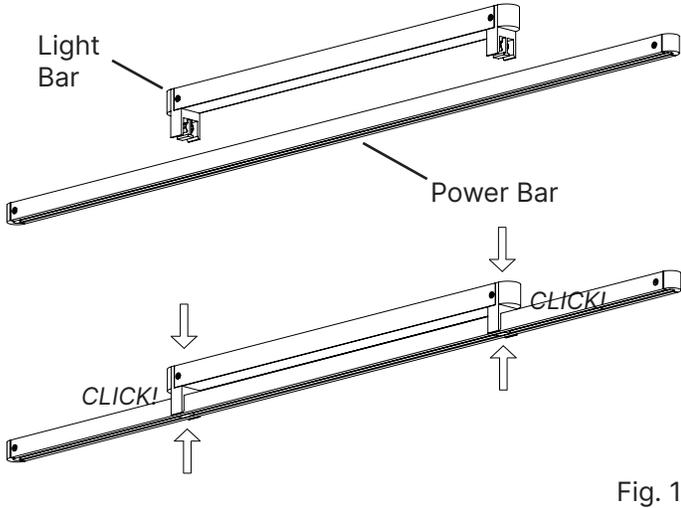


Fig. 1

Applies to Components:

1XDXXLB12x	1XDXXLB36x
1XDXXLB24x	1XZ990005x

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).

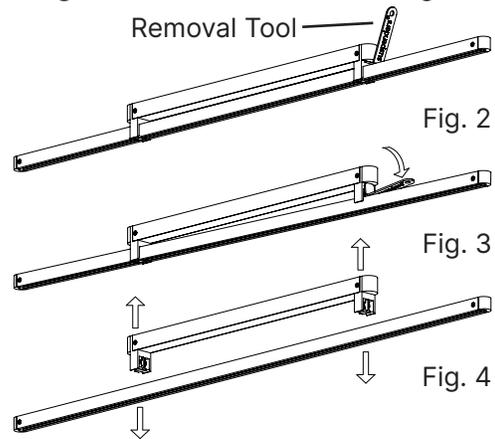


Fig. 2

Fig. 3

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:

1XB04LB06x	1XB04LB18x
1XB04LB12x	1XDXXLBxxx-S

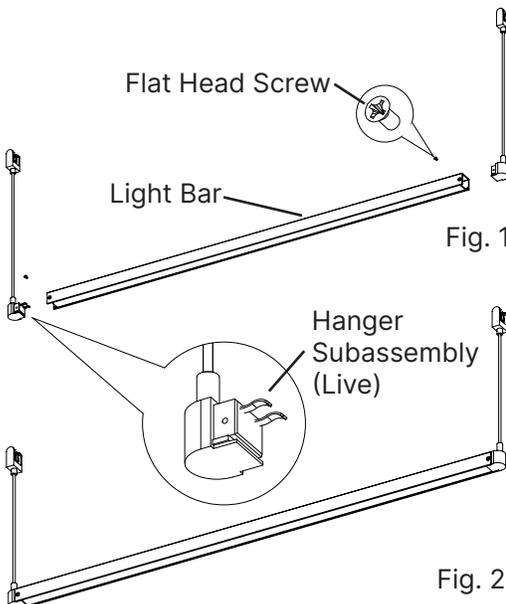


Fig. 1

Fig. 2

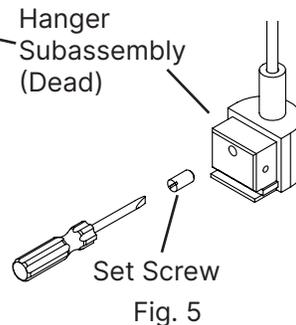


Fig. 5

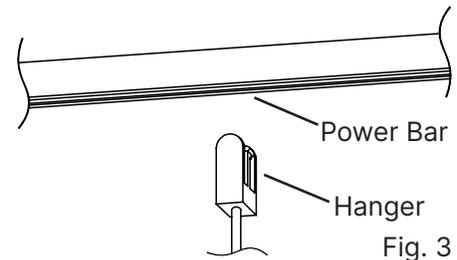


Fig. 3

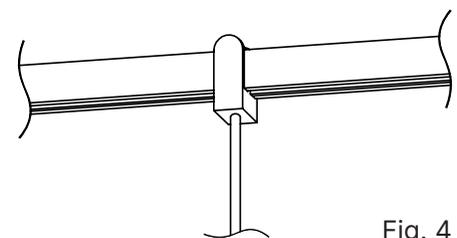


Fig. 4

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 **Luminaire** onto **Hangers** and secure with **Set Screws** (Fig. 2). **Note: Luminaire can rotate 360° (Fig. 2)**

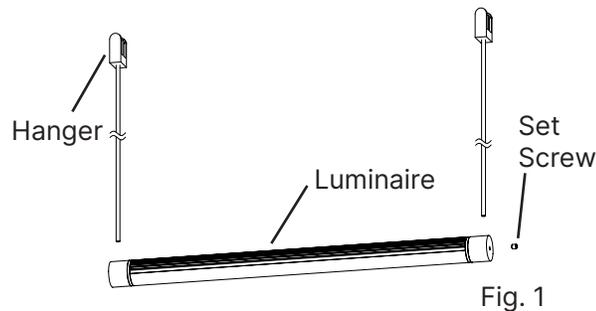


Fig. 1

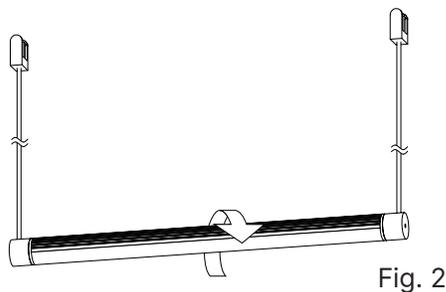


Fig. 2

Connecting Linear Rotational Luminaire to Single Rod Outrigger Luminaire Hanger:

1. Align **Linear Rotational Luminaire** with both **Hangers** (Fig. 6).
2. Insert **Luminaire** onto **Hangers** and secure with **Set Screws** (Fig. 7). **Note: Luminaire can rotate 360° (Fig. 7)**

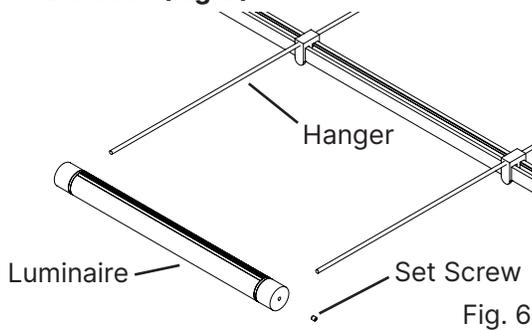


Fig. 6

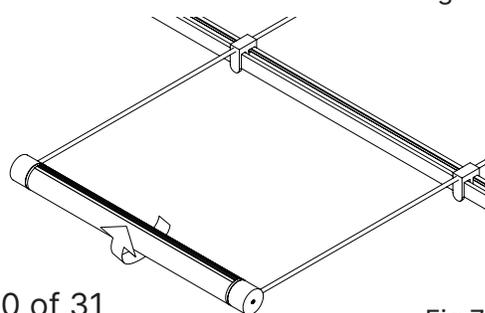


Fig. 7

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)

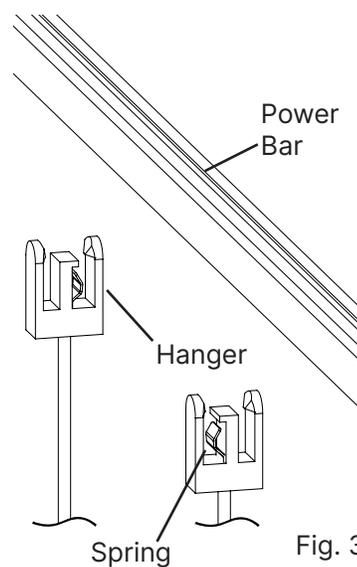


Fig. 3

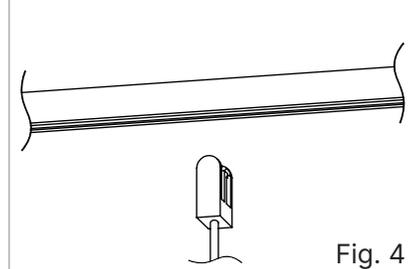


Fig. 4

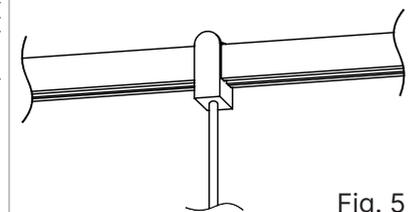


Fig. 5

Applies to Components:
1XB04SRxxx
1DXXSRO1x-xx

Single Rod Luminaire Hanger:

1. Make sure **Spring Contact** of each **Hanger** opposes each other (Fig. 8).
2. Align **Hanger** with **Power Bar** (Fig. 9) 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. 10).

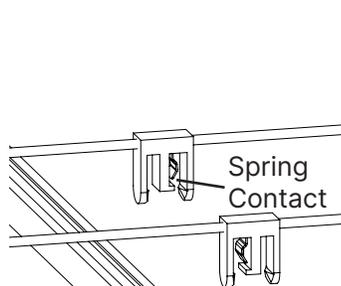


Fig. 8

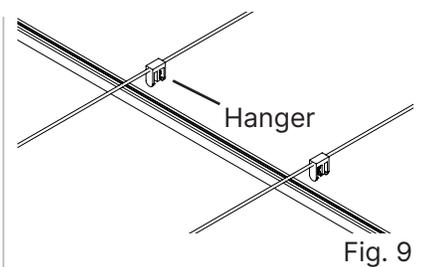


Fig. 9

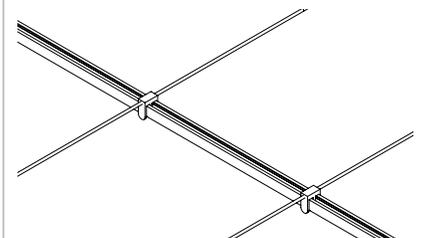


Fig. 10

Applies to Components:
1XB04SR16x-RG
1DXXSRO1x-xx

January 27, 2025

Luminaires and Luminaire Hangers

Assembly Instructions

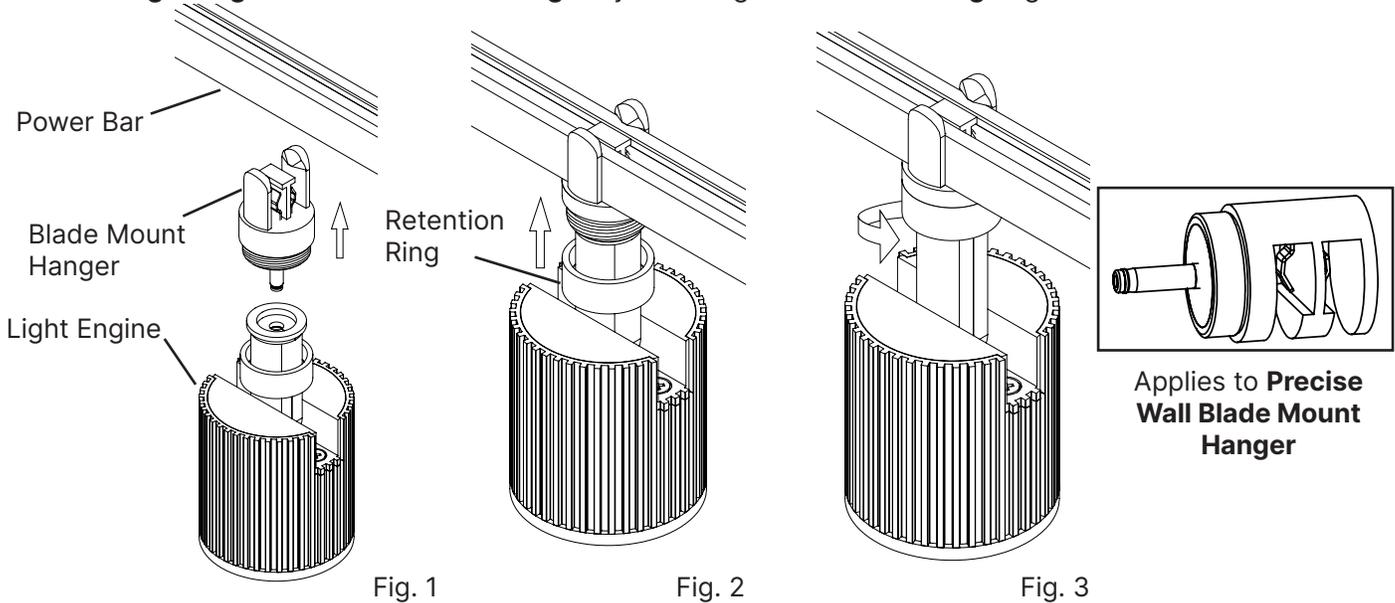
INSTRUCTIONS D'INSTALLATION

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).

Applies to Components:

1XB04RH00x	1XDXXRH04x
1XB04RH01x	1XDXXRH05x
1XDXXRH01x	1XDXXRH06x
1XDXXRH02x	1XDXXRH08x
1XDXXRH03x	1XDXXRH09x

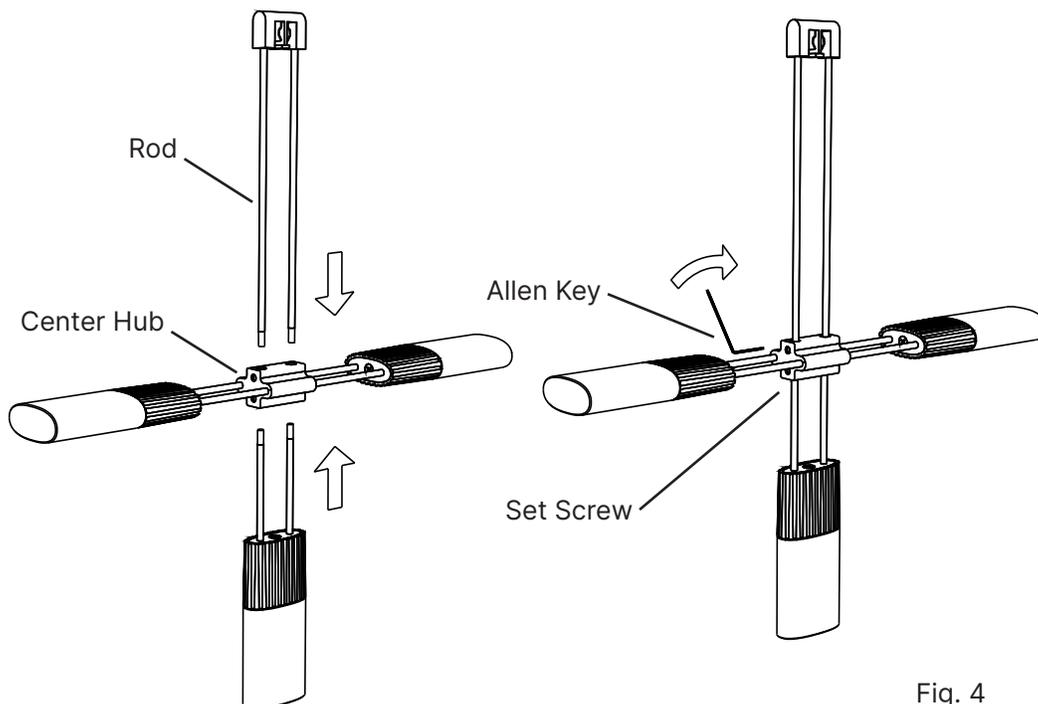


Connecting an HCxx Luminaire to a Cluster Luminaire Hanger (Fig. 4):

1. Insert the two **Rods** of the **Cluster Luminaire Hanger** and the bottom **Luminaire** into the **Center Hub**.
2. Use the included **Allen Key** to tighten the four **Set Screws**.

Applies to Components:

1XDXXHCxxx
1XB04HRxxx



Luminaires and Luminaire Hangers

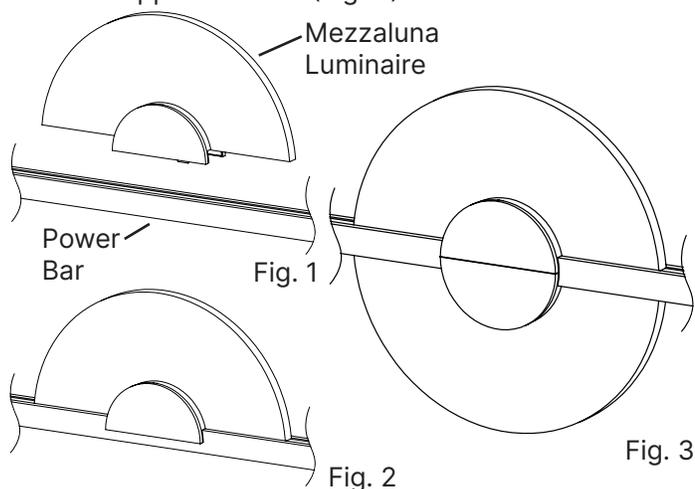
Assembly Instructions

INSTRUCTIONS D'INSTALLATION

Mezzaluna Luminaire:

- Align **Luminaire** with **Power Bar** (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).
- 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:
1DXDXCH06x

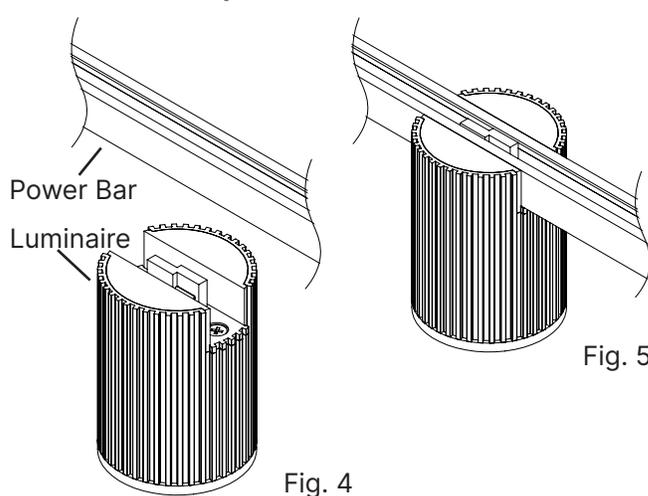


Precise Direct Mount:

- Align **Luminaire** with **Power Bar** (Fig. 4), 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. 5).

Applies to Components:
1DXDXCH01x-X 1DXDXCH08x-X
1DXDXCH04x-X 1DXDXCH09x-X
1DXDXCH05x-X

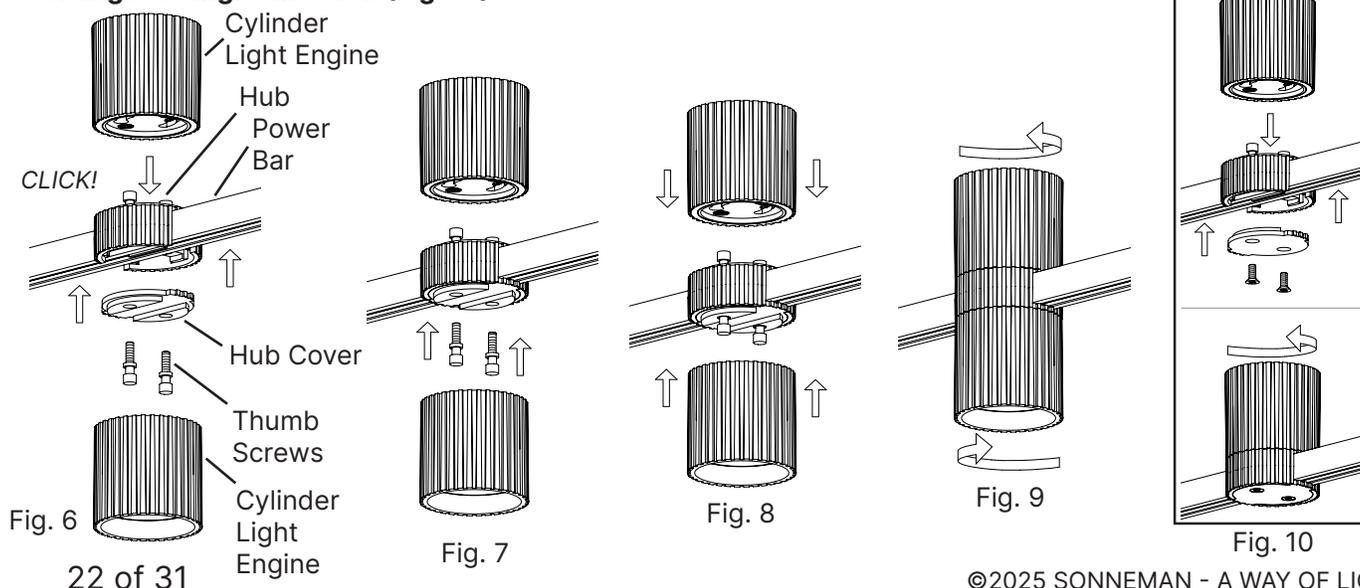
Note: Precise Direct Mount Luminaires can be assembled on top or on the bottom of the Power Bar.



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

- 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. 6).
- 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. 7).
- Install the **Cylinder Light Engine** to the **Hub** by inserting the contacts on the Hub into the slots on the Light Engine (Fig. 8), then twisting the Light Engine to the ends of the slots (Fig. 9). **Note: Flip Hub Cover to change to single direction (Fig. 10).**

Applies to Components:
1XB04CH00x 1DXDXCH03x
1XB04CH01x 1DXDXCH04x
1DXDXCH01x 1DXDXCH07x



January 27, 2025

Luminaires and Luminaire Hangers

Assembly Instructions

INSTRUCTIONS D'INSTALLATION

Applies to Components:
1XB04HA01x

Height Adjustable Luminaire Hanger:

1. Align **Height Adjustable Luminaire Hanger** with **Power Bar** (Fig. 1) and press up on the bottom of the Hanger, while pressing down firmly on the top of the Power Bars until the Hanger clicks into place. (Fig. 2)
2. To remove, tilt hanger then pull down from **Power Bar** (Fig. 3).

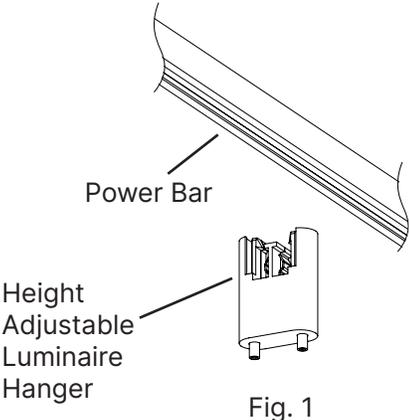


Fig. 1

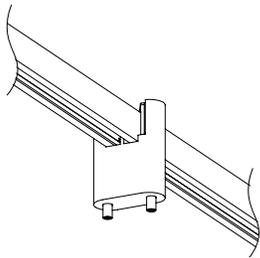


Fig. 2

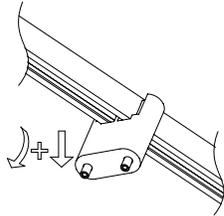


Fig. 3

Height Adjustable Luminaires:

Applies to Components:
1XDXXHA01x 1XDXXHA02x
1XDXXHA04x

1. Insert **Power Cables** on **Height Adjustable Luminaire** into **Plungers** of **Height Adjustable Luminaire Hanger** (Fig. 3)
- CAUTION: When installing Power Cables into Height Adjustable Luminaire Hanger, make sure they are not twisted along the length**
2. Adjust to the desired length: To shorten, push the **Power Cable** up; to lengthen, push in the **Plunger** while pulling down on the Power Cable, release the Plunger to lock (Fig. 4). Once height is set, cut off the excess cable where it exits the **Height Adjustable Luminaire Hanger** (Fig. 5).
3. To reduce the chance of twisting due to air current or accidental contact, install **Cable Clips** by pressing clip onto one cable and then on to other cable.

Note: Cable Clips should be spaced no more than 3ft apart (Fig. 6).

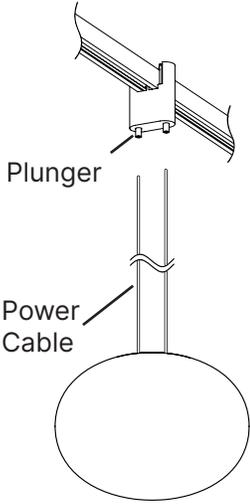


Fig. 3

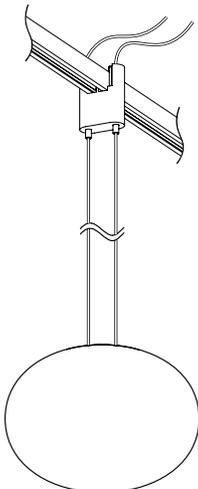


Fig. 4

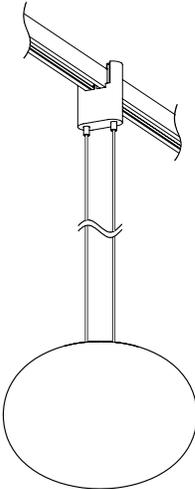


Fig. 5

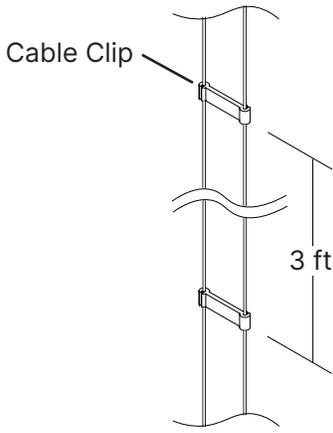


Fig. 6

Luminaires and Luminaire Hangers

Assembly Instructions

INSTRUCTIONS D'INSTALLATION

Through Cylinder Luminaires:

1. Insert **Power Cables** on into **Plungers** of **Height Adjustable Luminaire Hanger** (Fig. 1)

CAUTION: When installing Power Cables into Height Adjustable Luminaire Hanger, make sure they are not twisted along the length.

2. Adjust to the desired length: To shorten, push the **Power Cable** up; to lengthen, push in the **Plunger** while pulling down on the Power Cable, release the Plunger to lock (Fig. 1).
3. Insert **Power Cables** into holes of **Through Cylinder Luminaire** ensuring that the plungers are facing upward. If necessary, unscrew **Diffuser** to get easier access to **Plungers** (Fig. 2)
4. Adjust along cable to desired position: to raise, push the luminaire up while holding the cable below; to drop, slide **Through Cylinder Adjustment Tool** over power cables and press down on plungers to adjust height and spacing between luminaires, , release the Plunger to lock (Fig. 6). Repeat process for up to 2 more Through Cylinder Luminaires
5. Cut off the excess cable where it exits the bottom of Etched Through Cylinder Luminaire (Fig. 4). Also cut off the excess cable where it exits the top of the Height Adjustable Luminaire Hanger.
6. To reduce the chance of twisting due to air current or accidental collision, install **Cable Clips** by pressing clip onto one cable and then on to other cable.

Applies to Components:

1XDXHA05x 1XZ990021x
1XZ990020S-XX

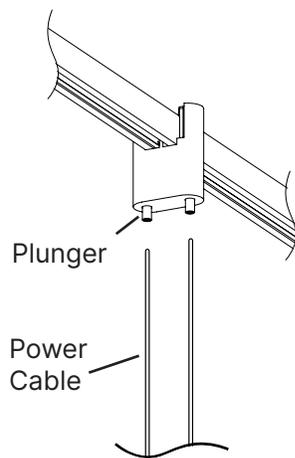


Fig. 1

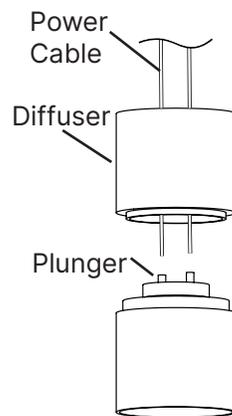


Fig. 2

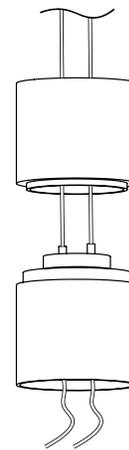


Fig. 3

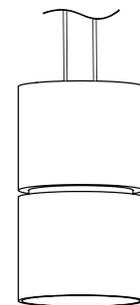


Fig. 4

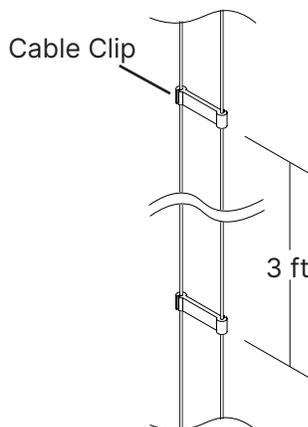


Fig. 5

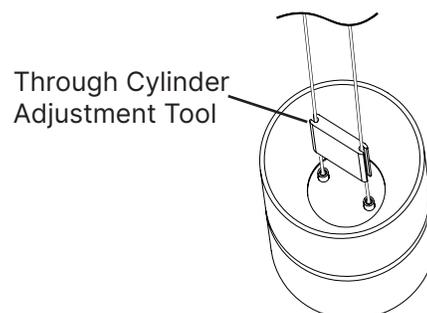


Fig. 6

January 27, 2025

Luminaires and Luminaire Hangers

Assembly Instructions

INSTRUCTIONS D'INSTALLATION

Height Adjustable Single Cable Luminaire Hanger and Linear Height Adjustable Luminaire:

1. Insert **Power Cable** through small hole in bottom of **Body** and **Cable Lock**. (Fig. 2)
2. Adjust Power Cable to desired height and tighten Cable Lock to Body using Screw. (Fig. 3)
3. Align **Height Adjustable Single Cable Luminaire Hanger** with **Power Bar** and press up on the bottom of the Hanger, while pressing down firmly on the top of the Power Bars until the Hanger clicks into place. (Fig. 4)
4. Repeat for second Height Adjustable Single Cable Luminaire Hanger.

Applies to Components:

1XB04HA02x
1XDXXHA06x-XX
1XDXXHA07x-XX

Note: The arrow on underside of Hanger should be facing the opposite direction of arrow on the first Hanger to prevent shorting the fixture and potentially damaging the luminaires. (Fig. 5)

5. Once height is confirmed, cut Power Cables and reinstall Caps. (Fig. 6)
6. To remove, uninstall cap, tilt hanger, and pull downward from the Power Bar (Fig. 7).

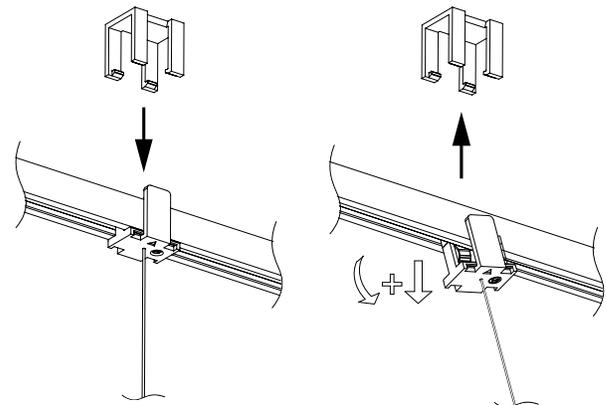
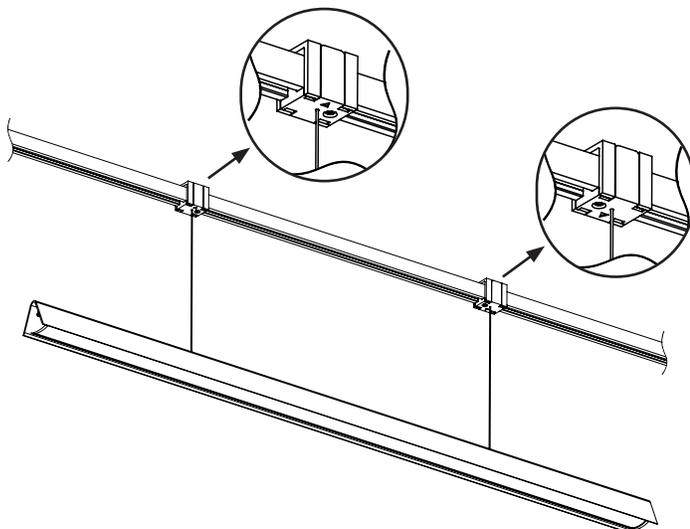
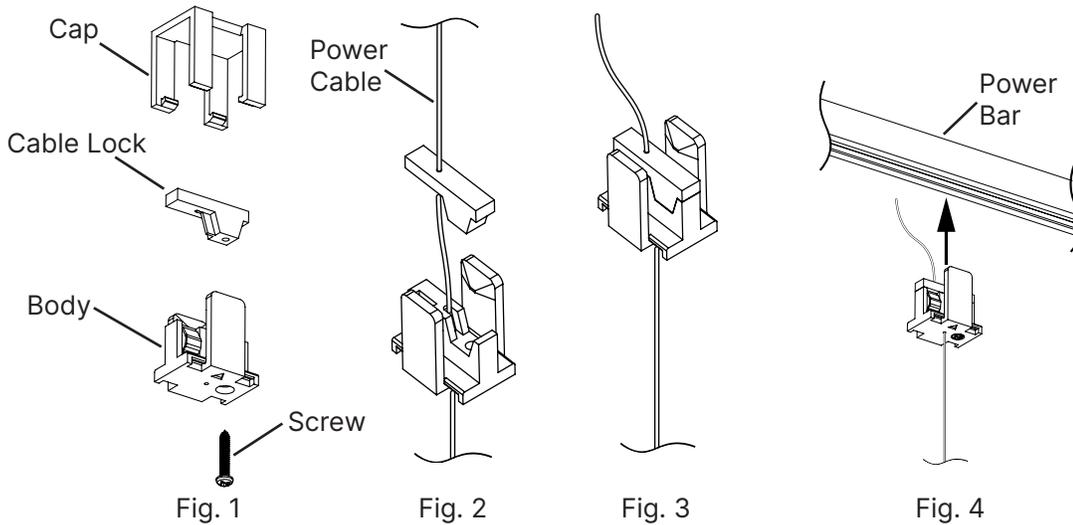


Fig. 5

Fig. 6

Fig. 7

Luminaires and Luminaire Hangers

Assembly Instructions

Applies to Components:
1XDXLcxxx-XX

INSTRUCTIONS D'INSTALLATION

Light Curve Luminaire:

1. Remove **Screw** and **Cap** from each end of the **Light Curve Luminaire**. (Fig. 1)
Note: The powered end of luminaire has metal spring contacts. These are missing on the non-powered end (Fig. 1a and Fig. 1b)
2. Install both ends of **Light Curve Luminaire** to desired **Power Bar(s)**, press up on the connector of the Light Curve Luminaire, while pressing down firmly on the top of the Power Bars until the luminaire clicks into place. (Fig. 2)
Note: Install powered end of luminaire first for better stability
3. Reinstall **Cap** and **Flat Head Screw** to each end of the **Light Curve Luminaire** starting with non-powered end first. (Fig. 3)

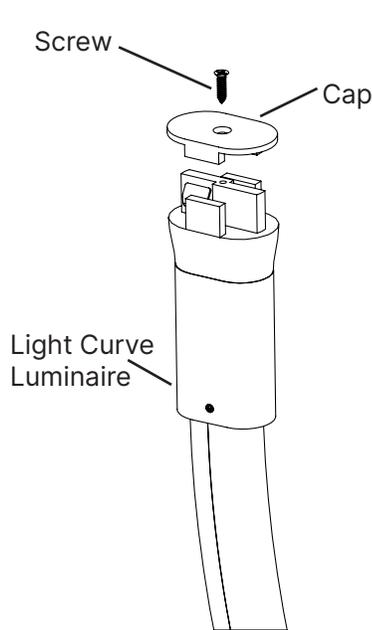


Fig. 1

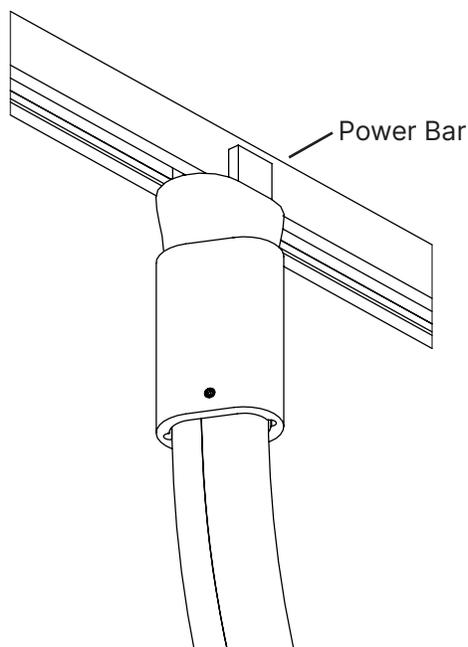


Fig. 2

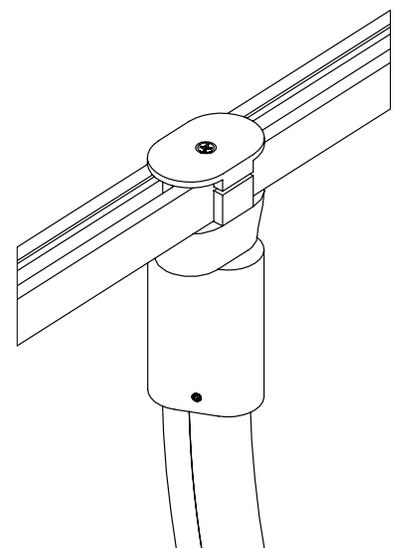
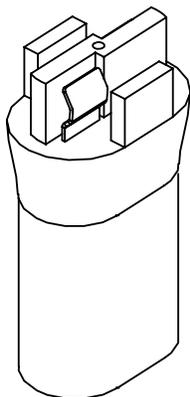
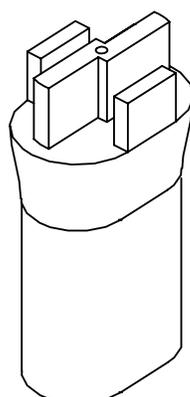


Fig. 3



Powered
Fig. 1a



Non-Powered
Fig. 1b

January 27, 2025

Suspenders Precise™ Trim Kits Assembly Instructions

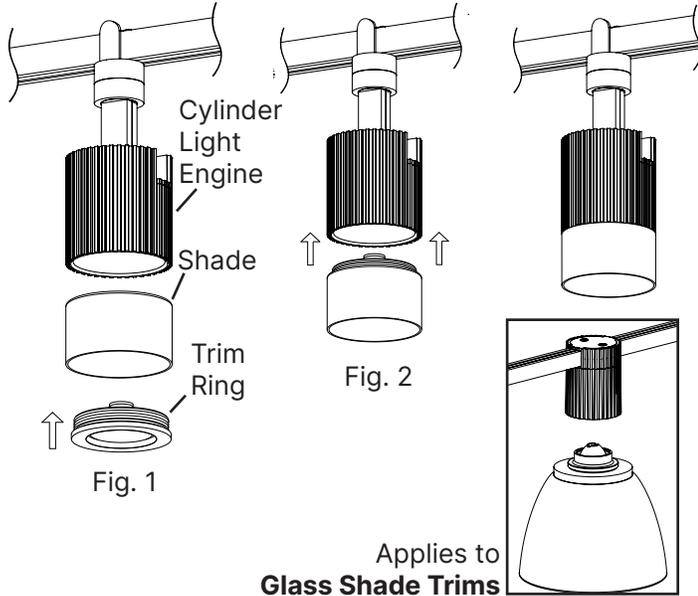
INSTRUCTIONS D'INSTALLATION

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 Components:

1XZ010010x	1XZ010013x
1XZ010011x	1XZ020701x
1XZ010012x	1XZ020801x

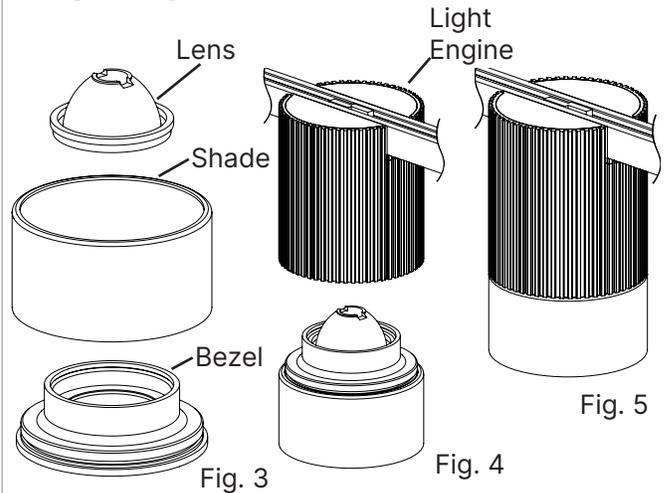


Power Precise Round Trims:

1. Align the **Lens**, **Shade**, and **Bezel** with each other (Fig. 3) then preassemble them together (Fig. 4).
2. Align the assembly from step 1 with the **Light Engine** (Fig. 5).
3. Screw the assembly from step 1 to the **Light Engine** (Fig. 5).

Applies to Components:

1XZ0202xxx	1XZ0205xxx
1XZ0203xxx	1XZ0206xxx

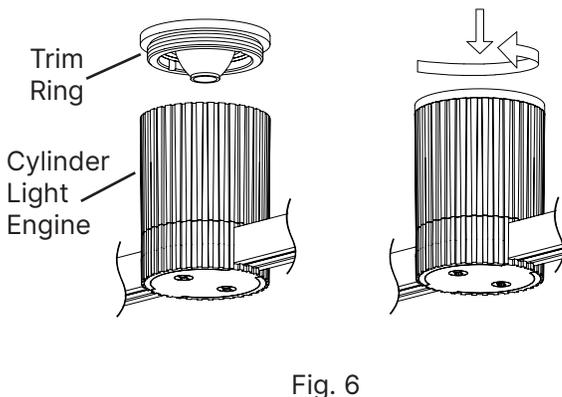


Connecting a Trim to a Cylinder Light Engine:

1. Screw the **Trim Ring** into the **Cylinder Light Engine** (Fig. 6).

Applies to Components:

1XZ010001x
1XZ010002x
1XZ010003x
1XZ010015x
1XZ010016x
1XZ010017x
1XZ010018x
1XZ010019x
1XZ0201xxx

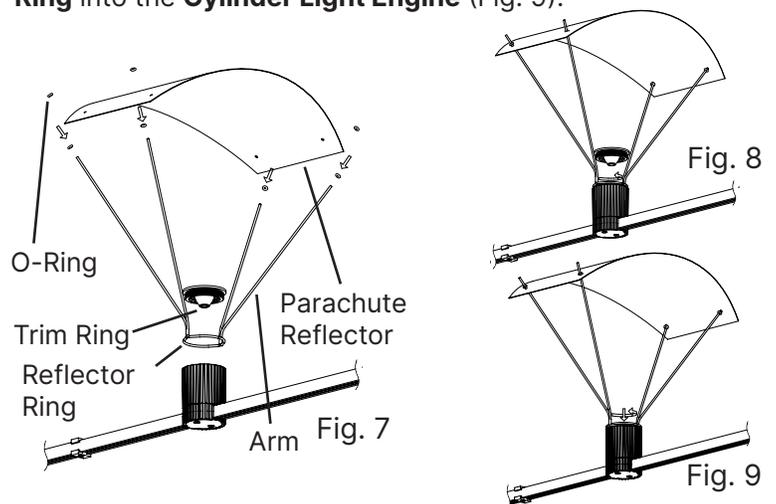


Connecting a Trim to a Cylinder Light Engine:

1. Place a rubber **O-Ring** on each **Arm** on the **Parachute Reflector Rrim** (Fig. 7).
2. Bend the **Parachute Reflector** and pass each hole over an **Arm** (Fig. 7).
3. Place another O-Ring on each **Arm** and adjust the o-rings to set the desired reflector position (Fig. 7).
4. Place the **Reflector Ring** on the **Cylinder Light Engine** and adjust to the desired angle (Fig. 8).
5. While holding the reflector ring in place, screw the **Trim Ring** into the **Cylinder Light Engine** (Fig. 9).

Applies to Components:

1XZ010004x	1XZ010005x
------------	------------



Suspenders Precise™ Trim Kits

Assembly Instructions

INSTRUCTIONS D'INSTALLATION

Applies to Components:
1XZ03010xx 1XZ03030xx
1XZ03020xx

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 (Fig. 1).
2. Insert the **Trim** into the **Light Engine** (Fig. 2).
3. Secure the **Trim** by screwing in the **Set Screws** (Fig. 3).

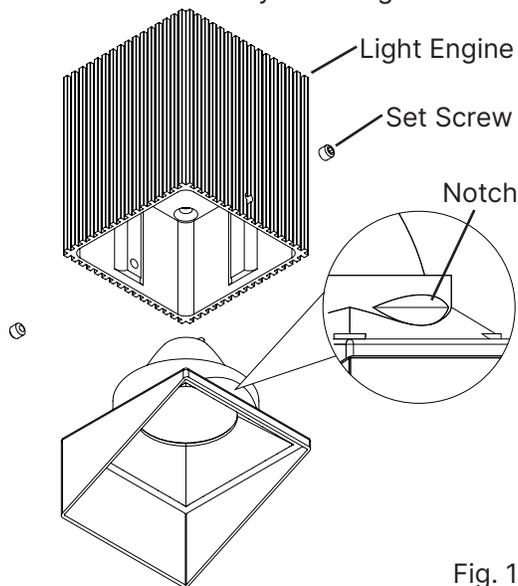


Fig. 1

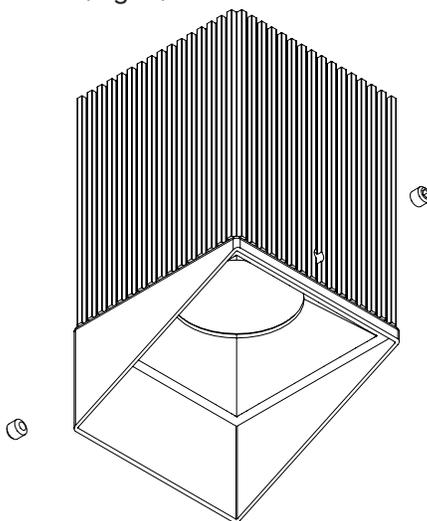


Fig. 2

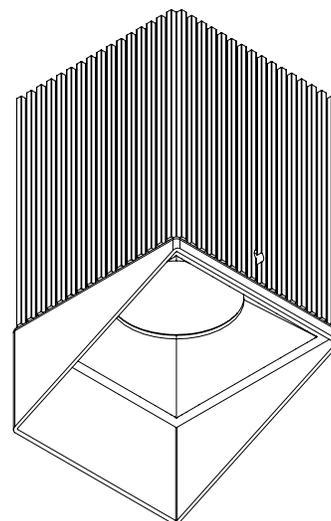


Fig. 3

Precise Cell Luminaire Trims:

Applies to Components:
1XZ04000xx

1. Align **Trim Subassembly** with **Light Engine**. **Note: Beam Angle Mark** is visible on the **Trim Subassembly** (Fig. 4).
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. 5). **Note: Use the Notch on the enclosure to help detach the trim.**

Beam Angle Mark	Beam Angle
D10	10°
D24	24°
10X35	10°X35°
D48	48°

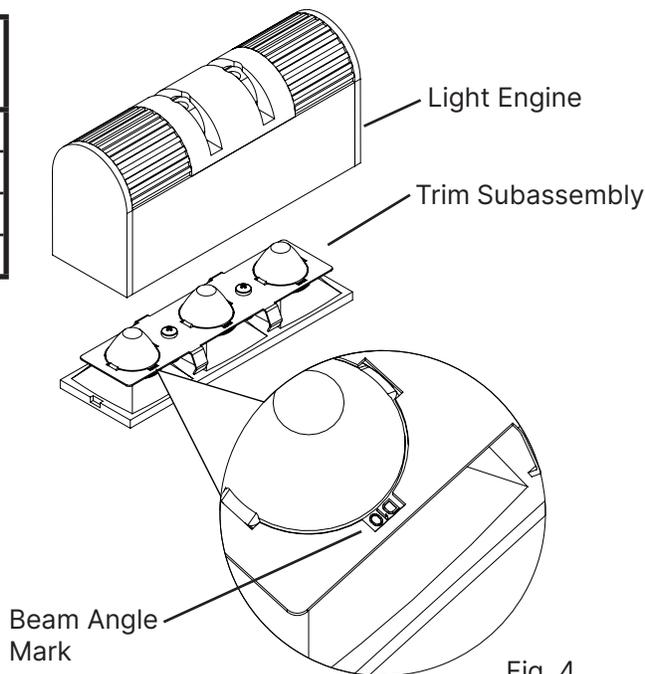


Fig. 4

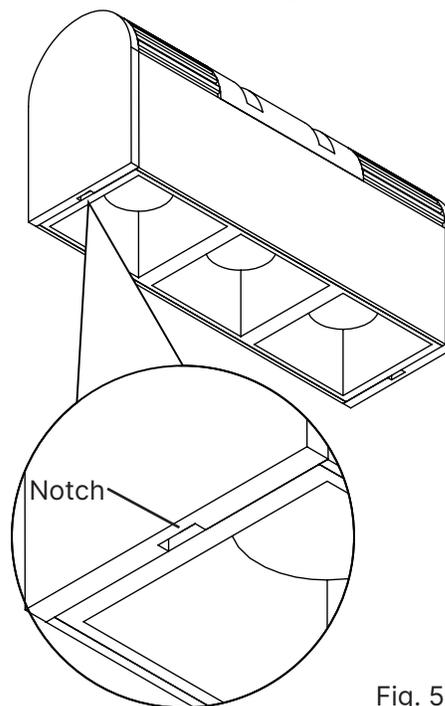


Fig. 5

Component Index

Item Number	Page	Item Number	Page	Item Number	Page
1XB01DCxxx	. . . . .3	1XB04RDxxx	. . . . .14	1XDXXRH07x	. . . . .15
1XB01DRxxx.	. . . . .3	1XB04RH00x	. . . . .21	1XDXXRH08x	. . . . .21
1XB01ICxxx	. . . . .3	1XB04RH01x	. . . . .21	1XDXXRH09x	. . . . .21
1XB01PT00x	. . . . .4	1XB04SRxxx	. . . . .20	1XDXXRPxxx	. . . . .14
1XB01RCxxx.	. . . . .3	1XB04SR16x-RG	. . . . .20	1XDXXSR01x-XX	. . . . .20
1XB01SCxxx.	. . . . .3	1XC01XXxxx.	. . . . .2	1XDXXVCxxx-XX	. . . . .16
1XB02CBxxx	. . . . .13	1XC02XXxxx	. . . . .2	1XZ010001x.	. . . . .27
1XB02CE00x	. . . . .8	1XC03XXxxx	. . . . .2	1XZ010002x.	. . . . .27
1XB02CE01x	. . . . .8	1XC03XXxxx-X	. . . . .2	1XZ010003x.	. . . . .27
1XB02IBxxx	. . . . .6	1XC04XXxxx	. . . . .2	1XZ010004x	. . . . .27
1XB02IBxxx-ST	. . . . .6	1XC05XXxxx	. . . . .2	1XZ010005x.	. . . . .27
1XB02IR18x	. . . . .6	1XDXXCH01x	. . . . .22	1XZ010010x.	. . . . .27
1XB02RBxxx	. . . . .5	1XDXXCH01x-X	. . . . .22	1XZ010011x	. . . . .27
1XB02SBxxx	. . . . .5	1XDXXCH02x	. . . . .14	1XZ010012x.	. . . . .27
1XB02SBxxx-ST	. . . . .5	1XDXXCH03x	. . . . .22	1XZ010013x.	. . . . .27
1XB02SR18x	. . . . .5	1XDXXCH04x	. . . . .22	1XZ010015x.	. . . . .27
1XB02TRxxx-EN	. . . . .11	1XDXXCH04x-X	. . . . .22	1XZ010016x.	. . . . .27
1XB02TRxxx-EX	. . . . .11	1XDXXCH05x-X	. . . . .22	1XZ010017x.	. . . . .27
1XB02WL00x	. . . . .7	1XDXXCH06x	. . . . .22	1XZ010018x.	. . . . .27
1XB02WL01x	. . . . .7	1XDXXCH07x	. . . . .22	1XZ010019x.	. . . . .27
1XB03ARxxx	. . . . .9	1XDXXCH08x-X	. . . . .22	1XZ0201xxx.	. . . . .27
1XB03CB00x	. . . . .13	1XDXXCH09x-X	. . . . .22	1XZ0202xxx.	. . . . .27
1XB03DC16x	. . . . .12	1XDXXCL01x	. . . . .17	1XZ0203xxx.	. . . . .27
1XB03ER18x	. . . . .9	1XDXXCL02x	. . . . .17	1XZ0205xxx.	. . . . .27
1XB03IB00x.	. . . . .12	1XDXXCL03x	. . . . .17	1XZ0206xxx.	. . . . .27
1XB03PR00x	. . . . .12	1XDXXCLxxx-XX	. . . . .16	1XZ020701x.	. . . . .27
1XB03PRxxx	. . . . .10	1XDXXCL13x	. . . . .16	1XZ020801x.	. . . . .27
1XB03RD00x	. . . . .8	1XDXXCL14x-XX	. . . . .16	1XZ03010xx.	. . . . .28
1XB03RDxxx	. . . . .10	1XDXXCL16x-XX	. . . . .16	1XZ03020xx	. . . . .28
1XB03RSxxx	. . . . .10	1XDXXHAxxx	. . . . .23	1XZ03030xx	. . . . .28
1XB03TR16x-EN	. . . . .11	1XDXXHA05x	. . . . .24	1XZ04000xx	. . . . .28
1XB03TR16x-EX	. . . . .11	1XDXXHA06x-XX	. . . . .25	1XZ05000xx	. . . . .11
1XB03WP00x	. . . . .7	1XDXXHA07x-XX	. . . . .25	1XZ990001x.	. . . . .18
1XB04ARxxx	. . . . .13,14	1XDXXHCxxx	. . . . .21	1XZ990005x	. . . . .19
1XB04CH00x	. . . . .22	1XDXXLBxxx	. . . . .19	1XZ990007x	. . . . .16
1XB04CH01x	. . . . .22	1XDXXLBxxx-S	. . . . .19	1XZ990010x.	. . . . .16
1XB04CL09x	. . . . .17	1XDXXLCxxx-XX	. . . . .26	1XZ990020S-XX	. . . . .24
1XB04CL18x	. . . . .17	1XDXXLL01x.	. . . . .18	1XZ990021K	. . . . .24
1XB04DRxxx	. . . . .14	1XDXXRH01x	. . . . .21	1XZ990022x-6	. . . . .24
1XB04DR16x-RG	. . . . .14	1XDXXRH02x	. . . . .21		
1XB04HA01x	. . . . .23	1XDXXRH03x	. . . . .21		
1XB04HA02x	. . . . .25	1XDXXRH04x	. . . . .21		
1XB04HRxxx	. . . . .21	1XDXXRH05x	. . . . .21		
1XB04LBxxx.	. . . . .19	1XDXXRH06x	. . . . .21		

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.

Deep Power Feed Installation (Fig. 1):

Applies to Components:
1XA01DB20x

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**.

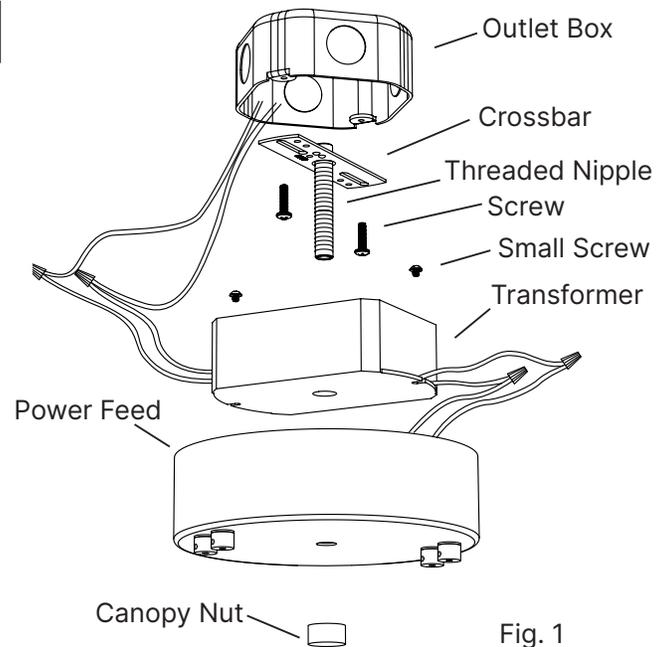


Fig. 1

Shallow Single Double Power Feed Installation (Fig. 2):

Applies to Components:
1XA07DB05x

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 Mounting Plate using the green screw.
 - d. Connect one of the black **Power Feed** wires to one of the Transformer output wires. Connect the other black Power Feed wire to the second Transformer output wire.
 - e. Carefully place connections in Outlet Box.
4. Attach the **Mounting Plate** to the **Outlet Box** using the two (2) **Screws**.
5. Attach **Power Feed** to **Mounting Plate**. Secure using **Set Screws** and included **Allen key**.
6. To adjust orientation of bushings: Loosen **Set Screws** using included **Allen Key** and rotate **Power Feed** to the desired position.

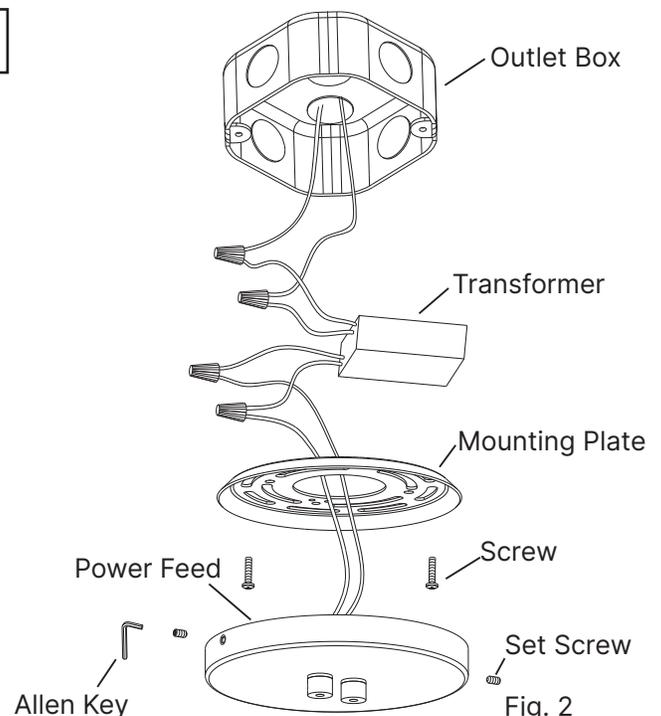


Fig. 2

Note

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

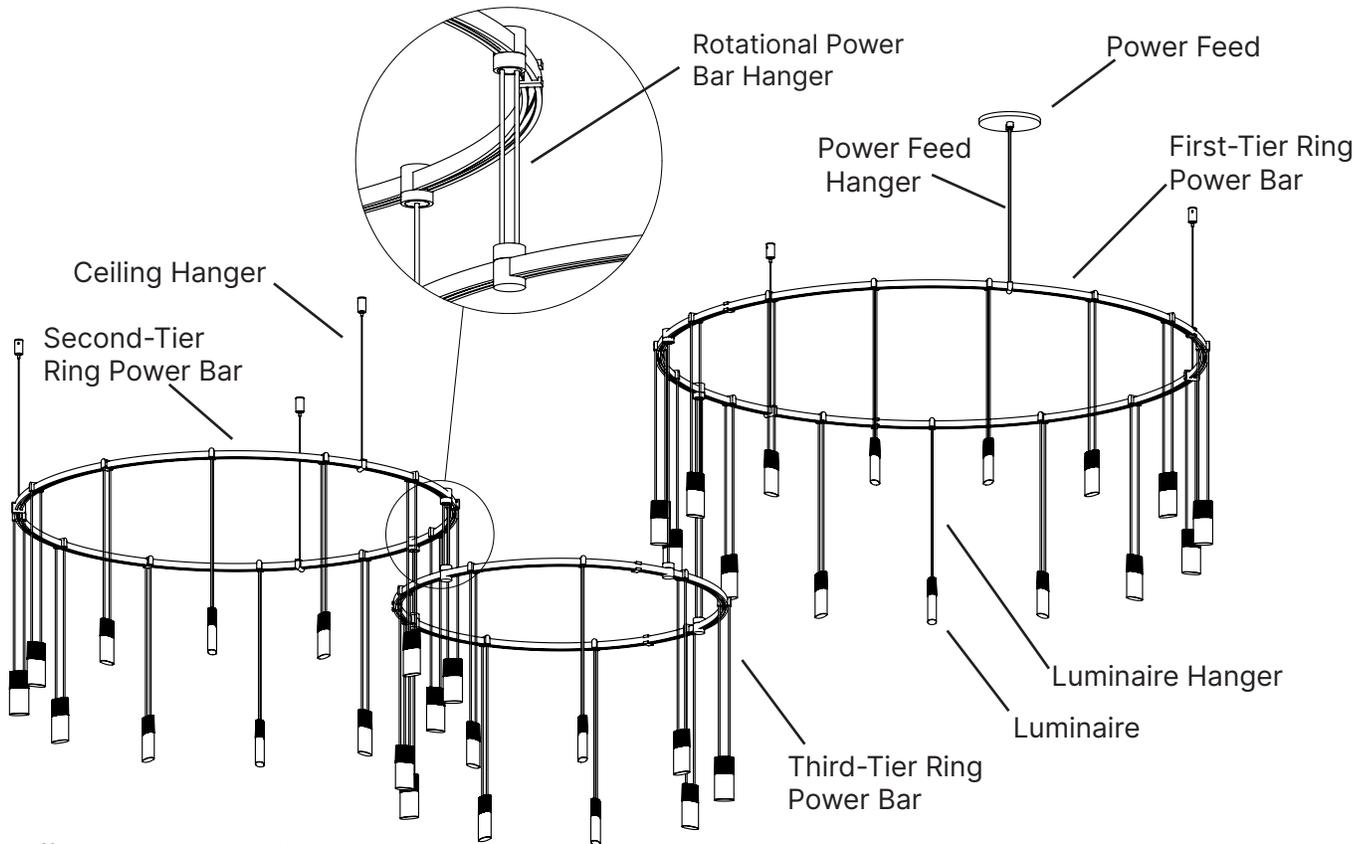
Suspenders® - Offset Ring Configuration

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 30.
3. Hang the **First-Tier Ring Power Bar(s)** from three evenly spaced **Ceiling Hangers**, as shown on pages 5-6, per bar. If the **Power Feed** is above a **First-Tier Ring Power Bar**, replace one **Ceiling Hanger** with a **Power Feed Hanger** and connect the **Ring Power Bar** to the **Power Feed** as shown on page 3.
3-Bar Configuration Only: If arranging the **Ring Power Bars** in a 2-tier configuration with two **Ring Power Bars** in the first tier, the **Power Feed** must be connected to a **First-Tier Ring Power Bar**.
4. Hang the **Second-Tier Ring Power Bar(s)** from three evenly spaced points per **Power Bar**. If the **Power Feed** is above a **Second-Tier Ring Power Bar**, use a **Power Feed Hanger** to connect the **Ring Power Bar** to the **Power Feed** as shown on page 3. If the **Second-Tier Ring Power Bar** is suspended from another **Ring Power Bar**, connect the two **Power Bars** using one **Double Rod Rotational Power Bar Hanger** as shown on page 10. The remaining suspension points can either be to the ceiling using a **Ceiling Hanger** or to a higher tier **Power Bar** using a **Single Rod Rotational Power Bar Hanger**, depending on your configuration.
3-Bar Configuration Only: If arranging the **Ring Power Bars** in a 3-tier configuration, repeat Step 4 for the **Third-Tier Ring Power Bar**.
5. Connect the **Luminaire Hangers** to the **Ring Power Bars** as shown on pages 14-28.
6. Connect the **Luminaires** to the **Luminaire Hangers** as shown on pages 14-28.
7. Restore power to the outlet box.

Note

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