

1" VersaLux LED Pendant

Series PHN1

Direct/Indirect Aircraft Cable Mount Pendant with Internal Driver

Installation Instructions



OVERVIEW: Installation instructions are intended for multi section pendants suspended via aircraft cable.

NOTE: Refer to electrical design for proper power and control circuiting

Preparation

Install power feeds and 4" junction boxes approved for fixture suspension at designated locations. Power and dimming feeds should terminate in designated junction boxes. See approved submittal drawing for locations.

WARNING:

- Some disassembly is required for fixture installation. Only disassemble components as directed.
- Do not disassemble the lighting modules. There are not any user serviceable parts inside.
- Power and dimming wiring must be installed according to local electrical codes.
- Junction boxes must be positioned at the designated mounting points and firmly affixed to building structure to support fixture weight.

Unpacking

Unpack fixtures from crates or boxes. Locate section labels and refer to label guide for assembly order. Sections are cut and wired for installation in their defined positions. Lighting modules are shipped installed in their fixture sections.

Note: It is not necessary to disconnect lighting modules from their sections. If lighting modules are disconnected for some reason, reinstall them in their original sections only.

Position fixture sections under their designated junction boxes, ensuring the power feed section is under the junction box where the power and dimming connections will be made.

Identify the section with two suspension cables; only one section in each run will have two suspension cables (Fig. 1). That section is to be installed first.

(Refer to Fig. 2)

Open the plastic bag on each aircraft cable and remove the Cross Bar (A).

Unravel aircraft cable and SJ Cord(s) (B) if this is a power feed section. DO NOT disconnect from fixture. Unscrew the Canopy Cover Nut (C) from the Canopy Coupler (D) at each cable. Leave the Inside Adjusting Nut (E) in place on the Canopy Coupler. Canopy Cover (F) and Canopy Cover Nut will slide down cable.

Note: Fixture will have two SJ Cords, one for Direct lighting and one for Indirect lighting. Submittal drawing will indicate if Cords are in one or two Junction Boxes.

Figure 1

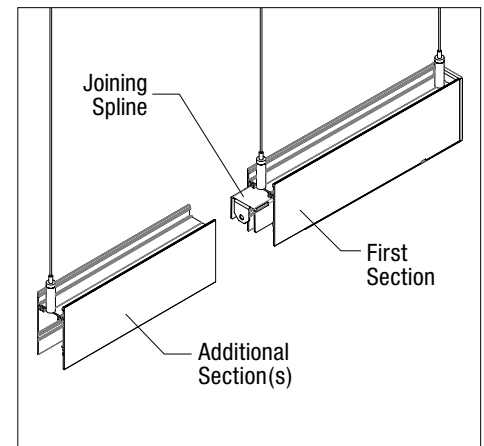
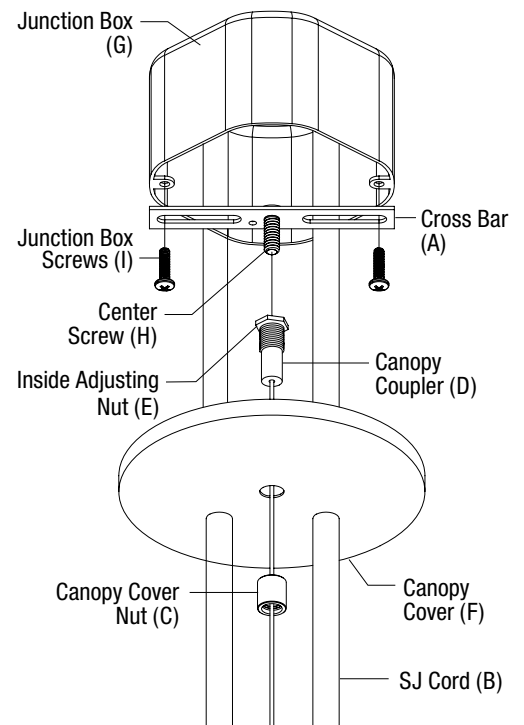


Figure 2



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Mounting (Refer to Fig. 2)

Attach Cross Bars to the Junction Boxes (G) with ¼ x 20 Center Screw (H) facing down (Junction Box and Screws (I) by others).

Raise the first section of the fixture to the Junction Boxes and attach loose ends of Aircraft Cable to Cross Bars by threading the Canopy Couplers onto ¼ x 20 Center Screw. Tighten firmly.

(Refer to Fig. 3 & 4)

Adjust fixture section to desired height by inserting or extending Aircraft Cable (J) at fixture top. To insert cable; hold fixture weight and push cable into Gripper (K). To extend cable, hold fixture weight, press down on the Release (L) on top of Gripper and draw cable out, then release Gripper. Identify the next section per the layout drawing and section markings. Before installing this section, remove the Jack Screw (M) from the Receiving Bracket (N) inside the housing (DO NOT DISCARD; it is used to draw the sections together). Removal and installation is best done with a 5/32 ball head Allen driver. One is supplied with each installation.

Repeat the procedure to install the Cross Bar in its Junction Box and attach the Aircraft Cable, suspending this section from one end.

Now raise the other end and align with the mating end of the prior section. Make sure the bus connectors are out of the way, and then carefully slide the ends of the joining splines into the corresponding channels of the adjoining section.

From Below (Refer to Fig. 5)

Extract the Lighting Module (O) from the first section by pulling it down from the Housing (P). It will release from its Retention Clips (Q) and hang on its safety chains.

(Refer to Fig. 6)

Reinstall the Jack Screw (L) through the Joining Spline (R) and screw into the Receiving Bracket. Tighten the Jack Screw until there is only a hairline seam between sections.

Plug both sets of Bus Connectors (S) together and tuck into the Housing.

Adjust the aircraft cable as described so the complete fixture is level and forms a straight surface.

Reinstall the lighting module by pressing it into the section housing. When the lighting module is fully engaged, it will click into place and will be flush to the housing. If it does not click into place, extract it and make sure the safety chains are not between the lighting module and the mounting clips and adjoining section is level and straight.

Repeat the process for any remaining sections.

At the powered sections raise SJ Cord(s) (Fig. 2 – B) to powered Junction Box (slide the Canopy Cover down the cable if desired to provide easier access). Trim SJ Cord to allow sufficient wire to make connections and leave some excess that can fit into Junction Box.

Remove and reattach the strain relief clamps if necessary.

Figure 3

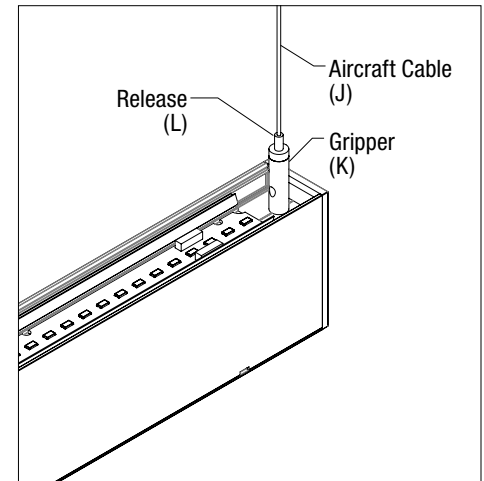


Figure 4

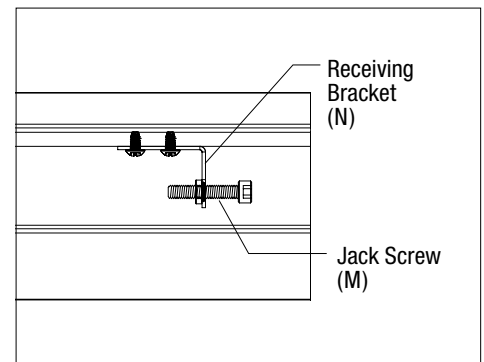
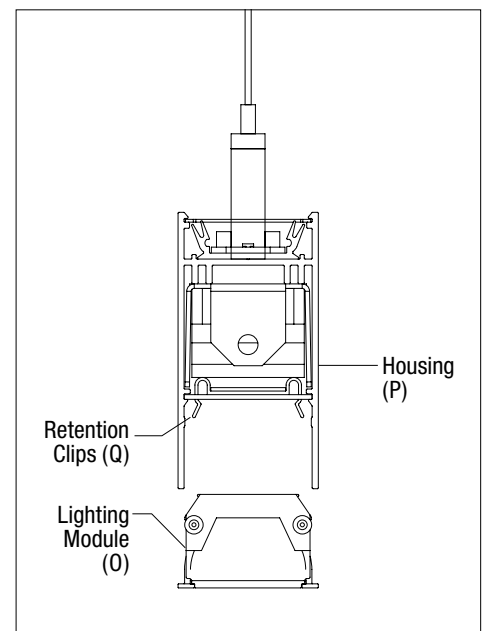


Figure 5



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Wiring

Make electrical connections per chart.

WIRING MUST CONFORM TO LOCAL CODES

Wiring Chart Codes

Function	Standard 0-10V Dimming
Switched Line (120-277V)	Black
Neutral	White
Ground	Green
0-10V (+)	Purple
0-10V (-)	Grey

Finish

At each Junction Box raise Canopy Cover (Fig. 2 – F) to Junction Box and fasten with Canopy Cover Nut (Fig. 2 – C). If there is an SJ Cord, tuck or pull out excess cord from the canopy leaving a little slack. **Note:** The SJ Cord should be neither tight nor excessively loose. The cord(s) should not tilt or suspend the fixture.

Figure 6

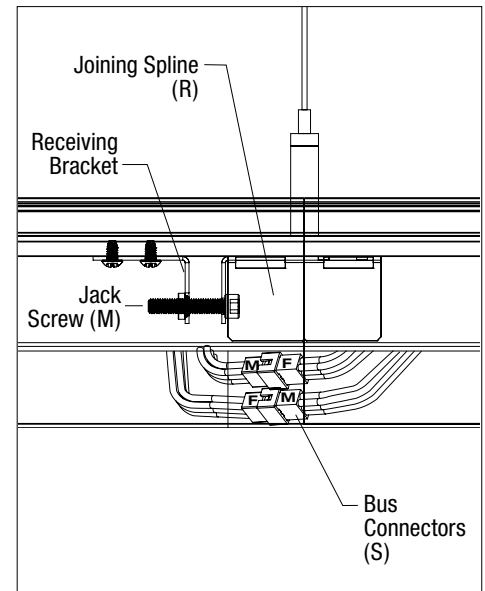
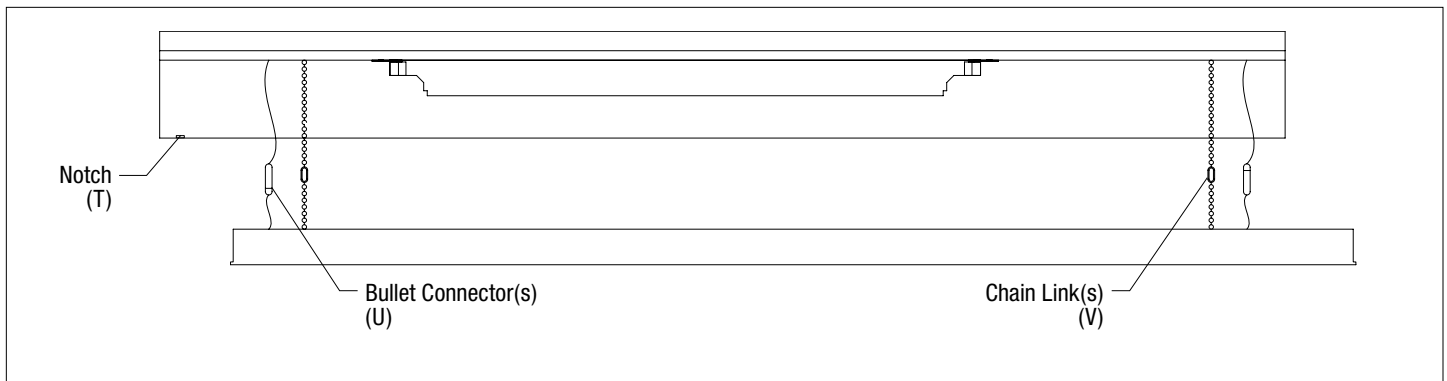


Figure 7



Service and Repair

DO NOT attempt to repair fixtures without first contacting the factory. Improper repair actions will void the warranty and can result in damage to the fixture components. Driver and LED components are custom configured at the factory. Generic replacements CANNOT be used. If any parts need replacing, they can be obtained from the factory; properly configured for each fixture.

If directed to make a repair, **TURN OFF POWER** to the fixture before disassembly.

CAUTION: Some fixtures have multiple circuits running through the wiring compartment including un-switched circuits. **BE SURE ALL POWER IS OFF BEFORE SERVICING.**

(Refer to Fig. 7)

To remove the lighting module, insert a small screwdriver in Notch (T) and turn until module releases from Retention Clip. Pull module free from other retention clips. Module can hang on safety chains while accessing driver.

To completely remove lighting module, disconnect Bullet Connectors (U) then separate the Safety Chain at the Links (V).

