

# KarbonCobra™, “KarbonCobra ComfortEnhanced™ LED Street Light Installation Guide

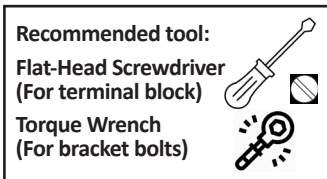


This procedure is designed as an installation aid. Skilled and qualified tradespeople that are familiar with general construction and electrical installation techniques should perform the installation. Licensed electricians should provide electrical installation connections. This luminaire must be installed in accordance with the NEC or per your local electrical code(s) and/or requirements. If you are not familiar with these codes and requirements, please consult a qualified electrician. In no way is this document intended to construe warranty or fitness of use of the products described, nor is it intended to provide safety instruction for those installing the product.

## **WARNING**

**Before proceeding with installation or service maintenance of this product:**

- Disconnect power to reduce electrical shock risk.
- Review the entire Installation Guide.
- Inspect this properly packaged product for any damage that may have occurred during transit.
- Verify product application complies with manufacturer design recommendations.
- Verify the availability of necessary tools and incidental material.
- Verify applicable code requirements. Field assembly and installation are subject to acceptance by local inspection authority.
- Appropriate safety equipment to be determined by end user, per applicable safety standards and precautions.



## Luminaire Installation

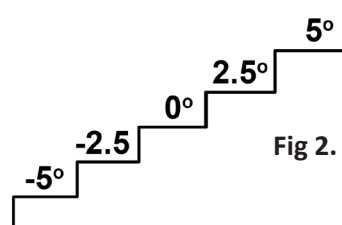
**Step 1** - Release door latch by pushing the latch toward the LED engine as indicated in the Fig 1.

**Step 2** - Open the door. The door will be securely hung.



**Fig 1.**

**Step 3** Loosen the slip-fitter bracket bolts (DO NOT REMOVE) and insert the mounting arm. The maximum outside diameter for the mounting arm is 2-3/8" (60.3mm). The minimum outside diameter for the mounting arm is 1-5/8" (41.28mm). Mounting arm to be placed "stopped" against appropriate step required to achieve desired degree of tilt. Steps vary from from 0° for no tilt to the options shown below.



**Fig 2.**

**Step 4 -** Securely tighten bolts to 16±2 lbs-ft. (22Nm ± 3Nm) by alternating from bolt to bolt **in equal measured amounts of 25% torque**. (Refer to image, Fig 3.2 below for tightening order for 4 bolt mounting bracket. Number of bolts may vary depending on the fixture, Fig 3.1.) Ensure that the slip-fitter bracket does not tilt completely to one side and refrain from unevenly tightening bolts, as it will cause cross-threading.

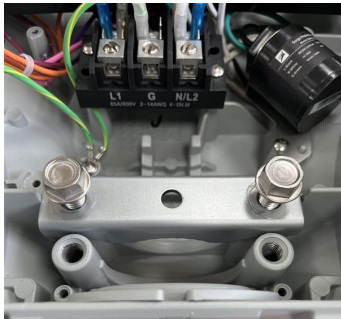


Fig 3.1.

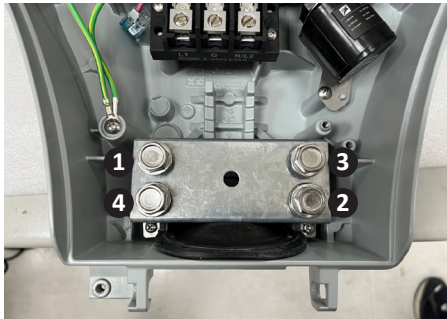


Fig 3.2.



Fig 4.1.

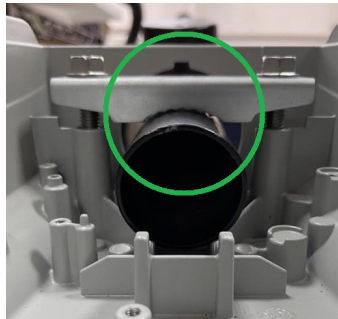


Fig 4.2.

**WARNING:** Avoid tightening bolts unevenly, as it may cause cross-threading.

**Step 5 - Field Adjustable ‘PS’ Performance  
Selector Setting Instructions**

NOTE: ‘PS’ Performance Selector ships from the factory at 100% output (Position #8). If the ‘PS’ output does not need to be adjusted, install the luminaire as normal per the required installation instructions. Otherwise, please refer to Fig 5. for how to adjust ‘PS’ output.

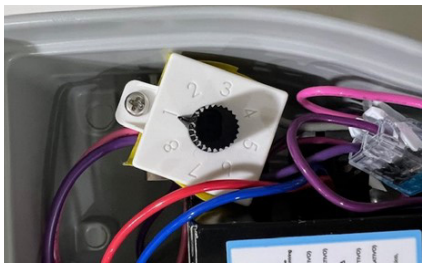
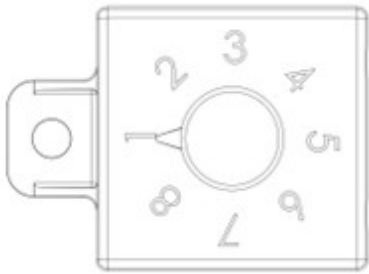


Fig 5.

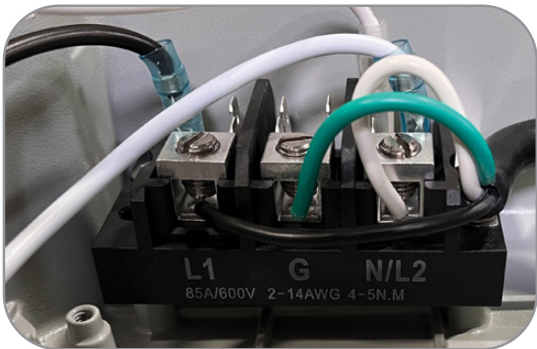


Fig 6.

**Terminal Block Electrical Wiring Connection**

	MV* (120/220/277V)	HV* (347/480V)
L1	Hot 1	Hot 1
G	Ground	Ground
N/L2	Neutral Hot 2 (208V/240V)	Hot 2

\* All Power Supplies are Auto-Sensing

- Step 6 -** Connect the green conductor to the ground chassis marked “G”(shown to the center of the terminal block).

**Step 7 -** Connect the black conductor (Hot 1) to the input terminal marked “L1”.

**Step 8 -** Connect the white conductor (Neutral) or second black conductor (Hot 2) to the input terminal marked “N/L2” according to Wiring Table.

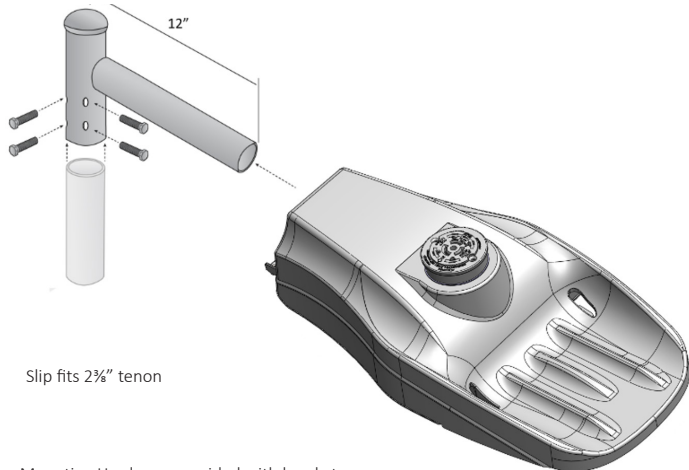
**Step 9 -** Close the door.

**Step 10 -** If luminaire is furnished with NEMA 7-Pin receptacle, install the photo control, shorting cap, or compatible Smart Control Node



## Mounting Accessories

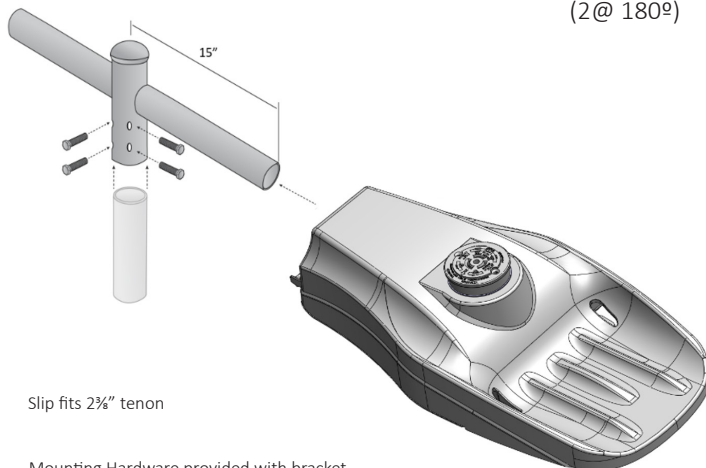
**PTB - Pole Top Tenon Horizontal Arm Bracket**



Slip fits 2 3/8" tenon

Mounting Hardware provided with bracket  
3/8"-16 X 3/4" H.H.C.S. (2 SETS OF 2 @ 90°)

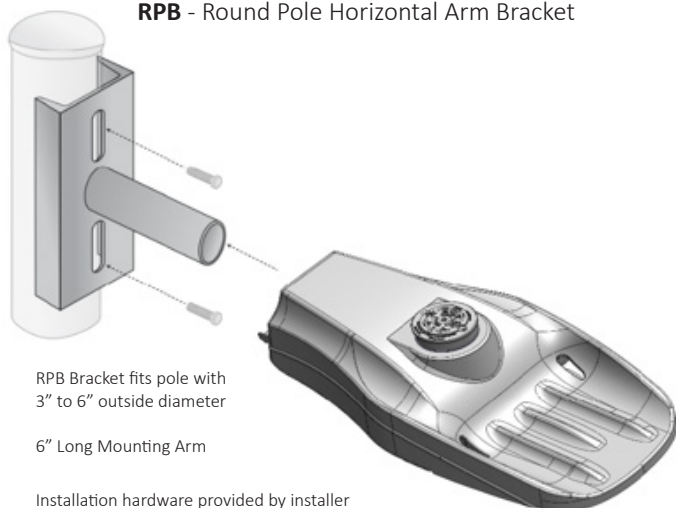
**PTB2 - Pole Top Tenon Horizontal Arm Bracket  
(2@ 180°)**



Slip fits 2 3/8" tenon

Mounting Hardware provided with bracket  
3/8"-16 X 3/4" H.H.C.S. (2 SETS OF 2 @ 90°)

**RPB - Round Pole Horizontal Arm Bracket**

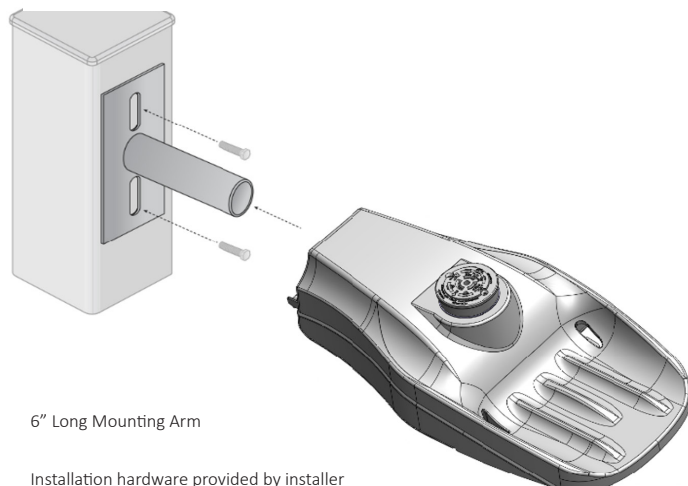


RPB Bracket fits pole with  
3" to 6" outside diameter

6" Long Mounting Arm

Installation hardware provided by installer

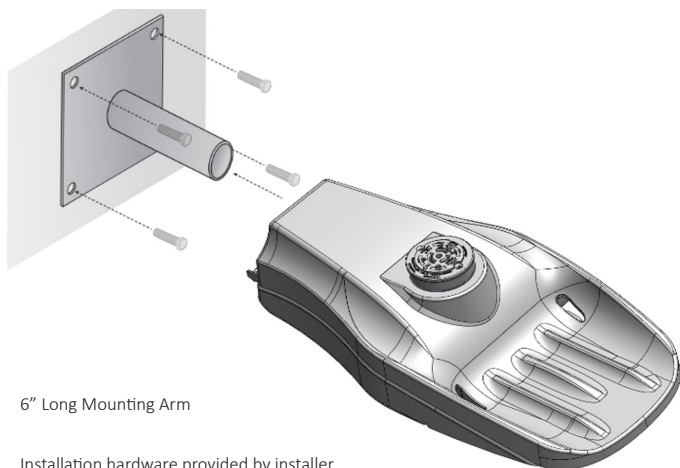
**SPB - Square Pole Horizontal Arm Bracket**



6" Long Mounting Arm

Installation hardware provided by installer

**WB - Wall Horizontal Arm Bracket**



6" Long Mounting Arm

Installation hardware provided by installer

Specification drawings for mounting  
accessories are available at

<https://leotek.com/lighting-library/>

Information provided subject to change without notice.  
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