

# INSTALLATION INSTRUCTIONS

## Outdoor Load Center Enclosure

**LEVITON**<sup>®</sup>

PK-A3221-10-00-0B

### IMPORTANT SAFETY INSTRUCTIONS - READ ALL INSTRUCTIONS BEFORE USING.

#### ⚠ WARNING

- **TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER SUPPLYING THIS EQUIPMENT AND CONFIRM POWER IS OFF,** before installing, removing, or servicing this equipment.
- This equipment **MUST BE** installed and serviced by an electrician.
- Leviton circuit breakers **MUST BE** used with a Leviton circuit breaker enclosure.
- Use **ONLY** approved fittings and clamps to avoid damage to wires.
- Before providing power to the load center, check all electrical connections and confirm that the wiring is correct.
- Replace all doors and covers before connecting power to this equipment.
- To be installed and/or used in accordance with electrical codes and regulations.
- **SAVE THESE INSTRUCTIONS.**

#### LIMITED PRODUCT WARRANTY

For Leviton's limited product warranty, go to [www.leviton.com](http://www.leviton.com). For a printed copy of the warranty, you may call 1-800-323-8920.

Patents covering this product, if any, can be found on [Leviton.com/patents](http://Leviton.com/patents).

### INSTALLATION

**WARNING: TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER SUPPLYING THIS EQUIPMENT AND CONFIRM POWER IS OFF,** before installing, removing, or servicing this equipment.

#### Step 1: (Optional) Remove Load Center Door.

**NOTE:** The load center door can be removed for easier installation.

- Lift door (A) (Fig. 1).
- When installation is complete, align the door hinge (B) with the hinge pin (C) and insert downward, until door is seated.

#### Step 2: (Optional) Wire bottom feed.

**NOTE:** The Leviton<sup>®</sup> Load Center interior should be inverted for bottom feed applications.

**NOTE:** Install the closing plate (included) to the overhead opening of the enclosure for bottom feed applications.

**NOTE:** Before removing any knockouts from the enclosure, consult the local electrical codes to determine the knockout requirements.

- Remove the mounting screws (F) and the ground bonding screw (G) (Fig. 2).
- Invert the interior (H) and slide under slots (I).
- Replace the mounting screws (F) and the ground bonding screw (G) to secure the interior. Torque all mounting screws to 20 +/- 2 in.-lbs.
- To remove knockouts (J), first strike the center of the knockout (Fig. 3).
- Pry each ring (K) up, one at a time, and grip both ends with a pair of pliers.
- Use the pliers to bend the rings (L), until they disconnect from the enclosure.

#### Step 3: Mount Enclosure.

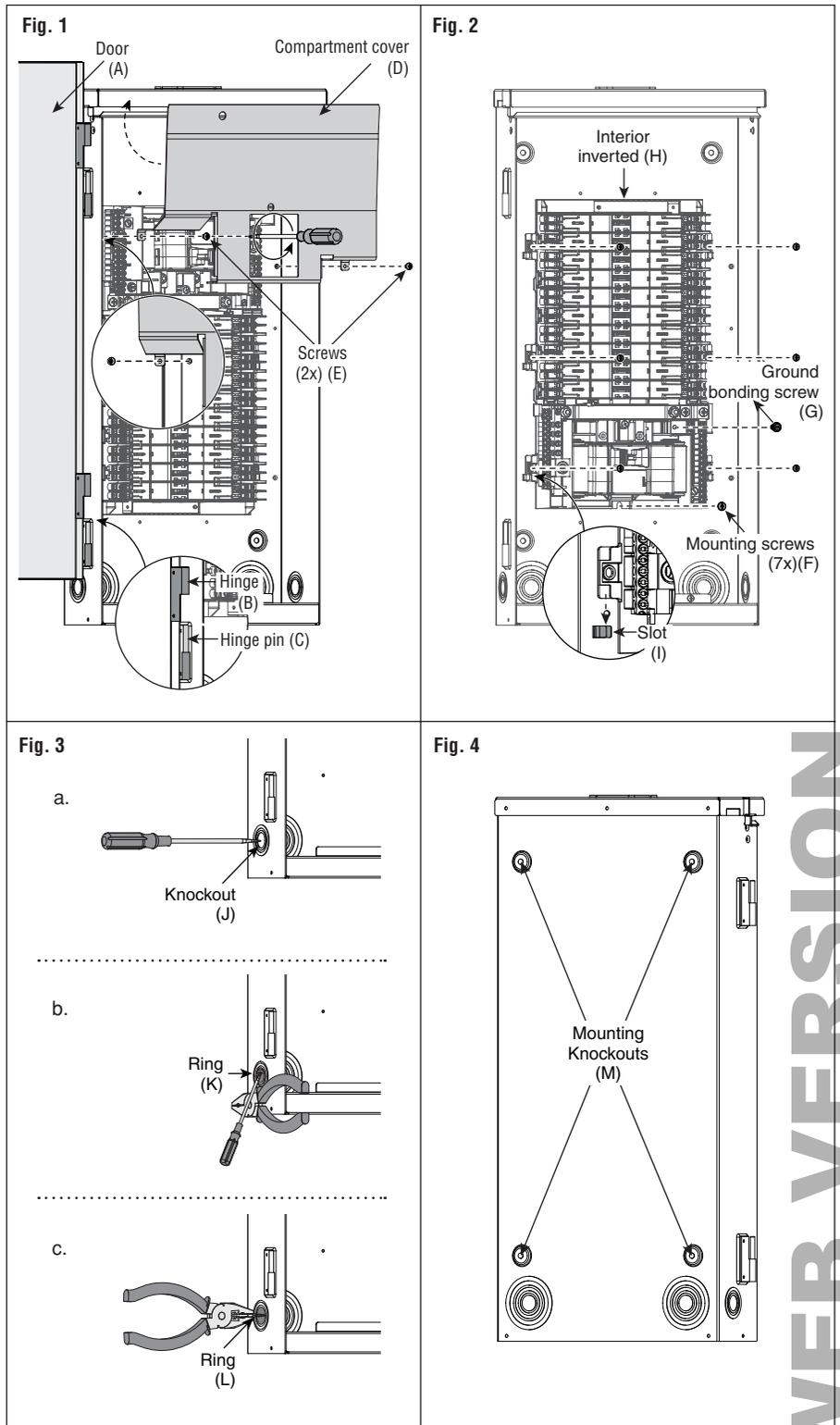
##### Surface or Semi-Flush Mounting

- Remove deadfront (Y) by loosening the securing screw (Z) and lifting the deadfront (Y) off the enclosure (Fig. 11).
- Remove service entrance compartment cover (D) by unscrewing the two (2) screws (E) that are securing it to enclosure (Fig. 1).
- Remove mounting knockouts (M) from the back of the enclosure (Fig. 4).
- Use outdoor approved screws or nails (not provided) in the mounting knockouts (M) to secure the enclosure to the wall.

#### Step 4: Connect phase, neutral, and ground conductors.

**WARNING:** Use **ONLY** approved fittings and clamps to avoid damage to wires.

- Bring the phase (N), neutral (O), and ground (P) conductors into the enclosure, through the overhead conduit opening or a bottom-feed knockout (Fig. 5).
- Connect the phase (N), neutral (O), and ground (P) conductors to appropriate terminals, and torque them to specifications in the Terminations Table.
- Install the two (2) terminal covers (Q) that have been provided (Fig. 6).
- Re-install the service entrance compartment cover (D) by placing the top edge under the enclosure flange (R) (Fig. 7).
- Align the cover with the two (2) screw holes, and torque the screws (E) to 20 in.-lbs.  
**NOTE:** For Service Equipment, apply "SERVICE DISCONNECT" label (provided) to trim, near the main breaker handle.



WEB VERSION

**Step 5: Install branch circuit breakers.**

**WARNING:** Leviton circuit breakers **MUST BE** used with a Leviton circuit breaker enclosure.

- a. Strip and connect the **load phase (S)** and **load neutral (T)** wires to the **load terminals (U)** and ground wire to the **ground bus (V)** of the circuit breaker enclosure (Fig. 8). Strip wires and torque load terminals to specifications in the **Terminations Table**.

**NOTE:** Ensure that the main breaker is in the OFF position before installing any branch circuit breakers.

**NOTE:** Ensure that all branch circuit breakers are in the OFF position before installing into the panel.

- b. Align the **hooks and guides (W)** of the branch circuit breaker with the panel, and press until breaker snaps into place (Fig. 9).

**Step 6: Install the deadfront.**

**NOTE:** **Twist-outs (X)** must be removed for each position that contains a branch circuit breaker. Fill any unused open spaces in cover using filler plates.

- a. To remove **twist-outs (X)**, first strike with a screwdriver, and then twist with pliers until detached (Fig. 10).
- b. Install **deadfront (Y)** by sliding it inward above the side wall protrusions on each side at a 45-degree angle until bottom portion of the **deadfront (Y)** is seated into enclosure (Fig. 11).
- c. Secure the bottom of the **deadfront (Y)** with the **securing screw (Z)**.
- d. Apply circuit directory labels on the back of the door.

**Step 7: Complete the Installation**

**WARNING:** Before providing power to the load center, check all electrical connections and confirm that the wiring is correct.

**WARNING:** Replace all doors and covers before connecting power to this equipment.

- a. Ensure that the main and all branch circuit breakers are in the OFF position. To energize, first turn ON the main breaker, and then turn ON each individual branch circuit breaker.

**TERMINATIONS**

Termination Point	Wire Material	Wire Gauge	Strip Length	Torque
Main Breaker	Copper / Aluminum	#3 AWG - 300 MCM	1.0 in.	250 in.-lbs.
Main Lug	Copper / Aluminum	#6 AWG - 300 MCM	1.0 in.	375 in.-lbs.
Neutral Line	Copper / Aluminum	#6 AWG - 300 MCM	1.5 in.	375 in.-lbs.
Ground	Copper / Aluminum	#4 AWG - 2/0 AWG	0.75 in.	50 in.-lbs.
Load Phase (brass) & Load Neutral (silver)	Copper	(1) #4 AWG - #8 AWG, Stranded	0.4 in.	45 in.-lbs.
		(1) #10 AWG, Solid or Stranded		35 in.-lbs.
		(2) #14 AWG - #10 AWG, Solid		35 in.-lbs.
		(1) #12 AWG - #14 AWG, Solid or Stranded		25 in.-lbs.
	Aluminum	(2) #14 AWG or (2) #12 AWG, Stranded		25 in.-lbs.
		(1) #4 AWG - #6AWG, Stranded		45 in.-lbs.
		(1) #8 AWG, Stranded		35 in.-lbs.
		(2) #12 AWG - #10 AWG, Solid		35 in.-lbs.
Neutral & Equipment Ground Bar	Copper/Aluminum	(1) #10 AWG - #12 AWG, Solid	0.5 in.	25 in.-lbs.
		(2) #12 AWG or (2) #10 AWG, Solid		25 in.-lbs.
	Copper	(1) #6 AWG - #4 AWG, Stranded		35 in.-lbs.
		(1) #8 AWG, Stranded		25 in.-lbs.
		(1) #14 AWG - #10 AWG Solid or Stranded		20 in.-lbs.
		(2) #14 AWG - #10 AWG, Solid or Stranded		25 in.-lbs.
		(1) #14 AWG and (1) #12 AWG, Solid		25 in.-lbs.
		(1) #14 AWG and (1) #10 AWG, Solid or Stranded		25 in.-lbs.
Aluminum	(1) #12 AWG and (1) #10 AWG, Solid	25 in.-lbs.		
	(2) #12 AWG - #10 AWG, Solid	20 in.-lbs.		
Neutral Bar	Copper/Aluminum	#4 AWG - #1 AWG, Stranded	0.5 in.	50 in.-lbs.
		#8 AWG - #6 AWG, Stranded		30 in.-lbs.
	Copper	#14 AWG - #10 AWG, Solid or Stranded		30 in.-lbs.
	Aluminum	#12 AWG - #10 AWG, Solid		30 in.-lbs.

