INSTALLATION INSTRUCTIONS

400 Amp Outdoor Meter Main, Ringless, Lever Bypass, OH/UG Service Entrance Enclosure

Cat. Nos. LS1xx-SLD, LS1xx-S5D

IMPORTANT SAFETY INSTRUCTIONS - READ ALL INSTRUCTIONS BEFORE USING.

PK-A3473-10-00-0A

⚠ WARNINGS

- **TO AVOID FIRE, SHOCK, OR DEATH: TURN OFF POWER THAT IS 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.
- To be installed and/or used in accordance with electrical codes and regulations.
- Use **ONLY** approved fittings and clamps to avoid damage to wires.
- Leviton circuit breakers **MUST BE** used with a Leviton circuit breaker enclosure.
- Use **ONLY** Leviton approved conduit hubs to avoid water intrusion.
- 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.
- **SAVE THESE INSTRUCTIONS.**

LIMITED PRODUCT WARRANTY
For Leviton's limited product warranty, go to 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.

INSTALLATION

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

Step 1: Remove Meter Compartment Cover (A). (See Figure 1.)
- **a.** Push up the **Securing Latch (B)**.
- **b.** Slide the cover down and out.

Step 2: (Optional) **Remove load center door. (See Figure 2.)**
NOTE: Remove the load center door for an easier installation.
- **a.** Lift **Door (C)** upward and remove it from **Hinge (D)**.
- **b.** When installation is complete, align door **Hinge (D)** with the hinge pin, and slide the door down until it is seated properly.

Step 3: Enclosure Openings.
For bottom feed wiring: (See Figure 3.)
NOTE: Before removing any knockouts from the enclosure, consult local electrical codes to determine the knockout requirements.
- **a.** To remove **Knockout (E)**, use a screwdriver to strike the center of the knockout.
- **b.** Pry each **Ring (F)** up, one at a time, and grip both ends with a pair of pliers.
- **c.** Use pliers to bend the **Rings (F)** until they disconnect from the enclosure.

For top feed wiring: (See Figure 4.)
NOTE: Before removing any closing plates from the enclosure, consult local electrical codes.
- **a.** To remove the closing **Plate (G)**, unscrew bar.

Step 4: Mount the enclosure.
- **a.** Install **Mounting Flange (H)** to wall. (See Figure 5.)
- **b.** Hang panel onto mounting flange. (See Figure 5.)
- **c.** Remove **Right Compartment Deadfront (P)** by removing the two **Securing Screws (Q)** and lifting the **Right Compartment Deadfront (P)** off the enclsoure. (See Figure 10.)
- **d.** Use outdoor-approved screws or nails (not provided) in the **Mounting Holes (I)** to secure the enclosure to the wall.

Step 5: Connect phase, neutral, and ground conductors.
WARNING: Use **ONLY** approved fittings and clamps to avoid damage to wires.
- **a.** Bring the **Service Phase, Service Neutral,** and **Ground(s)** conductors into the enclosure through the bottom feed knockout or through the the top feed hub opening.
- **b.** Connect the **Service Phase, Service Neutral,** and **Ground(s)** conductors to the appropriate terminals and tighten screws to the torque specifications in the Terminations table.

Step 6: (Optional) **Install additional main breaker.**
WARNING: Leviton circuit breakers **MUST BE** used with a Leviton circuit breaker enclosure.
- **a.** Remove **Left Compartment Deadfront (R)**.
- **b.** Remove the hex nuts from the main breaker mounting studs located in the left load-side compartment. (See Figure 6.)
- **c.** Insert the secondary main breaker into the base pan.
- **d.** Tighten the previously removed hex nuts to the torque specifications in the Terminations table on page 2.
- **e.** Remove the protective covering from the phase conductors.
- **f.** Install the phase conductors into the terminal lugs on the main breaker.
- **g.** Tighten the terminal lugs to the torque specifications in the Terminations table on page 2.

Figure 1

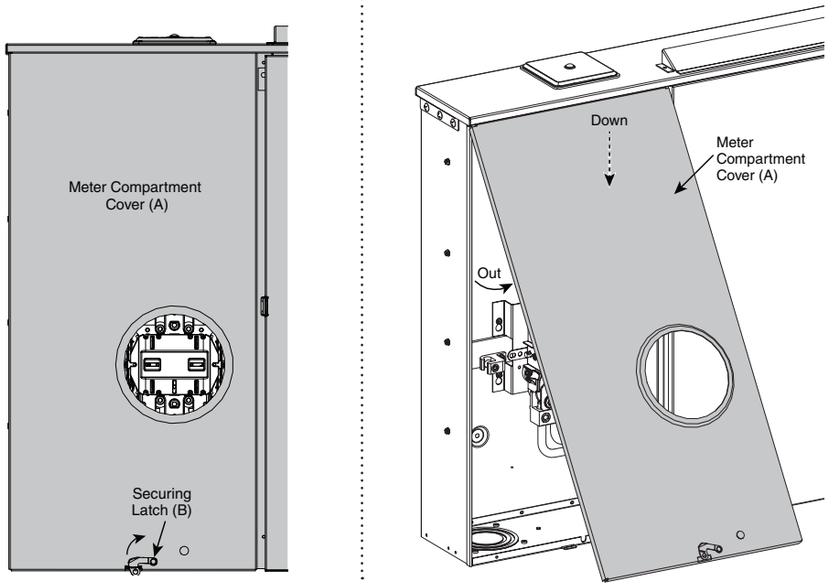


Figure 2

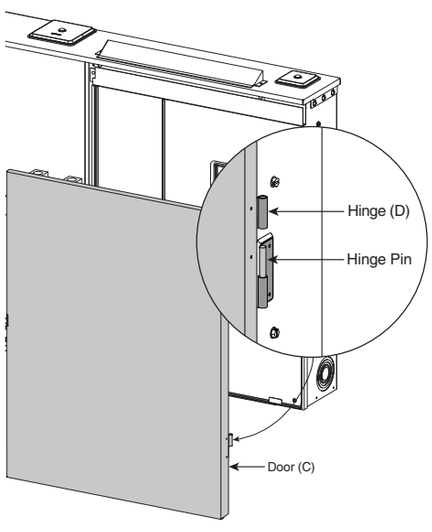


Figure 3

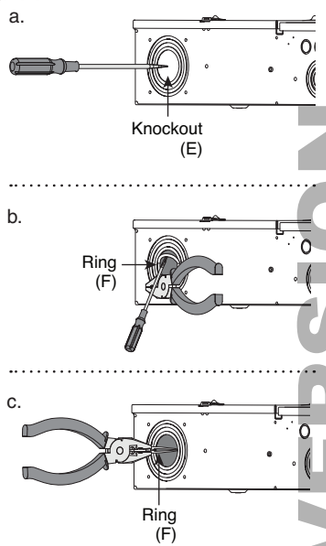


Figure 4

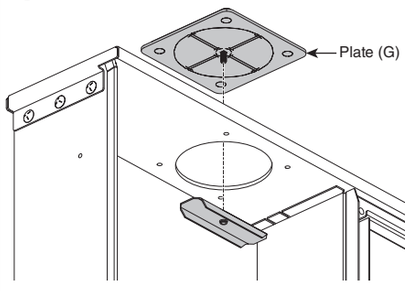
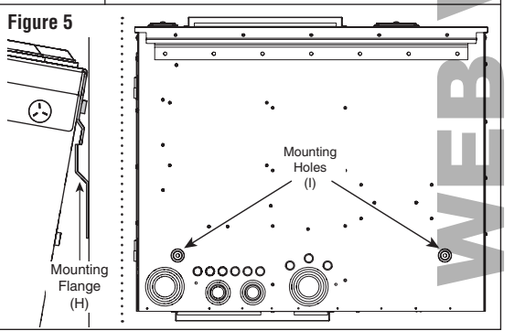


Figure 5



Step 7: Install branch circuit breakers.

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

NOTES:

- Ensure that the main breaker is in the OFF position before installing any branch circuit breakers.
- Ensure that all branch circuit breakers are in the OFF position before installing them in the panel.

a. Strip and connect the **Load Phase (J)** and **Load Neutral (K)** wires to the **Load Terminals (M),** and ground wire to the **Ground Bus (L)** of the circuit breaker enclosure. (See Figure 7.)

b. Strip wires and tighten **Load Terminals (M)** to the torque specifications in the Terminations table.

c. Align the **hooks and guides (N)** of the branch circuit breaker with the panel and press until breaker snaps into place. (See Figure 8.)

Step 8: Install the deadfronts.

NOTE: Twist-Outs (O) must be removed for each position that contains a branch circuit breaker. Fill any unused open spaces in cover using filler plates. (Cat. No. LFPLT)

a. To remove **Twist-Outs (O)**, strike with a screwdriver, then twist with pliers until detached. (See Figure 9.)

b. Install **Right Compartment Deadfront (P)** and **Left Compartment Deadfront (R)** by sliding them in above the side wall protrusions on each side at a 45° angle until the bottom portion of both deadfronts are seated in the enclosure. (See Figure 10.)

c. Secure the bottom of the **Right Compartment Deadfront (P)** and **Left Compartment Deadfront (R)** with the **Securing Screws (Q)**.

d. Replace the **Meter Compartment Cover (A)**. (Refer to Step 1.)

NOTE: A sealing ring is not included with the Load Center. Once the meter is installed, accessory part Cat. No. LRING or utility-supplied sealing ring must be installed to secure the meter to the cover.

Step 9: Complete the installation.

WARNINGS:

- 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.

a. Ensure that the main and all branch circuit breakers are in the OFF position.

b. To energize, turn ON the main breaker, and then turn ON each individual branch circuit breaker.

TERMINATIONS

Termination Point	Wire Material	Wire (AWG/MCM)	Strip Length	Torque
Service Phase/Neutral (If LL260 Terminal Accessory Kit Is Used)	Copper/ Aluminum	#2 AWG - 600 MCM	1.5 in.	400 in-lb
Service Ground	Copper/ Aluminum	#6 AWG - 250 MCM	1 in.	200 in-lb
Feed Through Phase	Copper/ Aluminum	#3 AWG - 300 MCM	1 in.	375 in-lb
Feed Through Neutral	Copper/ Aluminum	#3 AWG - 300 MCM	1 in.	375 in-lb
Feed Through Ground	Copper/ Aluminum	#4 AWG - 2/0 AWG	0.75 in.	50 in-lb
Main Breaker Line Terminals	Copper/ Aluminum	#3 AWG - 300 MCM	1 in.	250 in-lb
Load Phase (brass) / Load Neutral (silver)	Copper	(1) #4 AWG - #8 AWG, Solid	0.4 in.	45 in-lb
		(1) #10 AWG, Solid or Stranded		35 in-lb
		(2) #14 AWG - #10 AWG, Solid		35 in-lb
		(1) #12 AWG - #14 AWG, Solid or Stranded		25 in-lb
		(2) #14 AWG or (2) #12 AWG, Stranded		25 in-lb
	Aluminum	(1) #4 AWG - #6 AWG, Solid		45 in-lb
		(1) #8 AWG Stranded		35 in-lb
		(2) #12 AWG - #10 AWG, Solid		35 in-lb
		(1) #10 AWG - #12 AWG, Solid or Stranded		25 in-lb
		(2) #12 AWG or (2) #10 AWG, Stranded		25 in-lb
Neutral & Equipment Ground Bar	Copper/ Aluminum	(1) #6 AWG - #4 AWG, Stranded	0.5 in.	35 in-lb
		(1) #8 AWG, Stranded		25 in-lb
		(1) #14 AWG - #10 AWG, Solid or Stranded		20 in-lb
	Copper	(2) #14 AWG - #10 AWG, Solid or Stranded		25 in-lb
		(1) #14 AWG and (1) #12 AWG, Solid		25 in-lb
		(1) #14 AWG and (1) #10 AWG, Solid or Stranded		25 in-lb
		(1) #12 AWG and (1) #10 AWG, Solid		25 in-lb
	Aluminum	(2) #12 AWG and (1) #10 AWG, Solid		20 in-lb
		(1) #12 AWG and (1) #10 AWG, Solid		20 in-lb
Neutral Bar	Copper/ Aluminum	#4 AWG - #1 AWG, Stranded	0.5 in.	50 in-lb
		#8 AWG - #6 AWG, Stranded		30 in-lb
	Copper	#14 AWG - #10 AWG, Solid or Stranded		30 in-lb
	Aluminum	#12 AWG - #10 AWG, Solid		30 in-lb
Hex Nuts to Secure Main Breaker	—	—	—	60 in-lb
Hex Nuts to Secure LL260 (Sold Separately) Terminal Kit to Meter Socket	—	—	—	250 in-lb

ACCESSORIES

Item #	Description
LRHUB-3	3" Outdoor Load Center Accessory Hub
LRHUB-35	3.5" Outdoor Load Center Accessory Hub
LRHUB-4	4" Outdoor Load Center Accessory Hub
LRCPT-25	2.5" Outdoor Load Center Closing Plate
LRCPT-4	4" Outdoor Load Center Closing Plate
LL260	Meter Socket Terminal Connectors #2 AWG - 600 MCM
L5JAW-N	5th Jaw With Neutral For Meter Socket

Figure 6

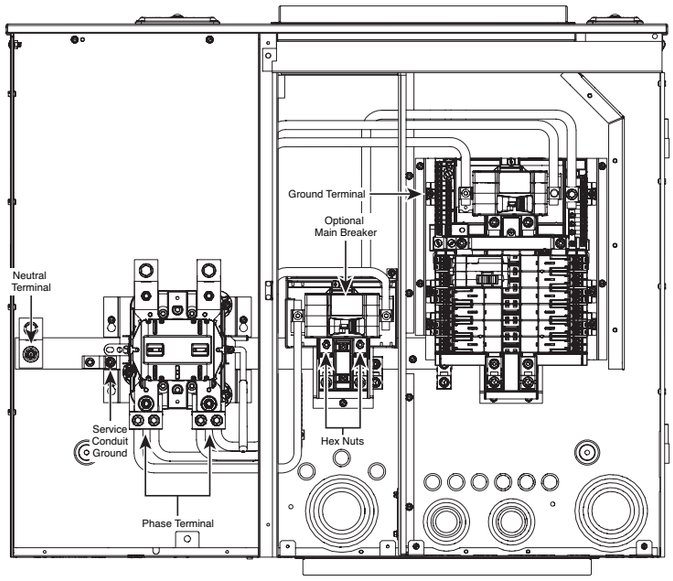


Figure 7

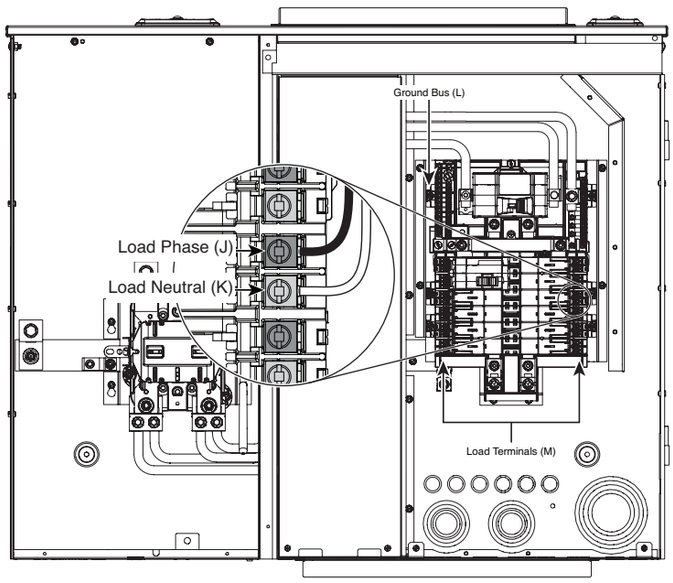


Figure 8

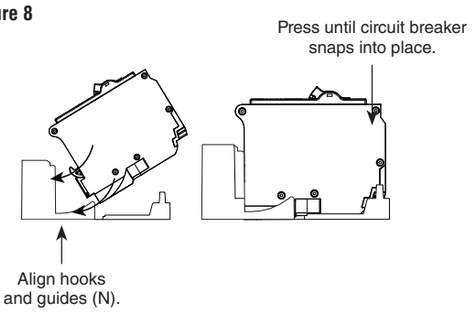


Figure 9

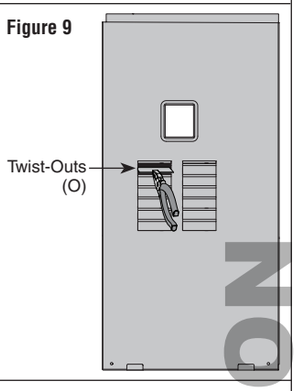
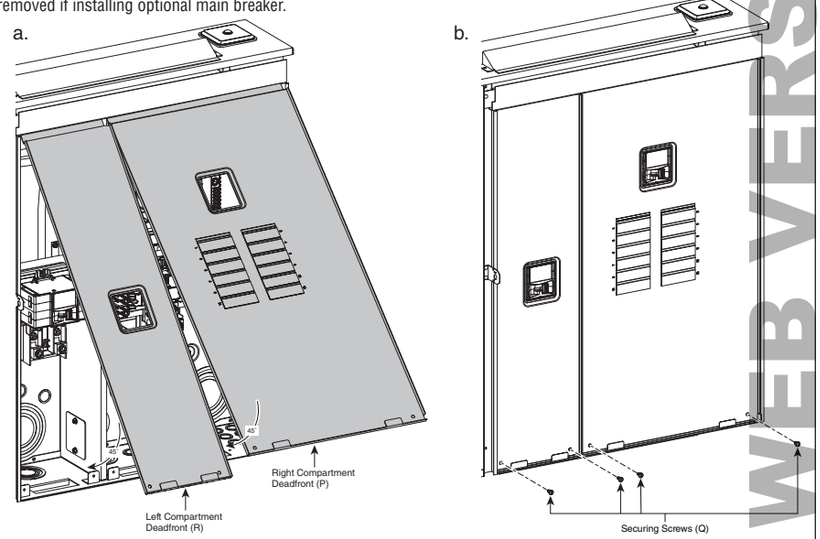


Figure 10

NOTE: Left compartment deadfront only needs to be removed if installing optional main breaker.



WEB VERSION