



# INSTALLATION/OWNERS MANUAL

**FOR MODELS: LED1EM, LED2EM, LED1AC, LED2AC,  
PLED1EM, PLED2EM, PLED1AC, PLED2AC,**

Models with batteries must be stored in a cool place  
(80°F max., preferably 68°F) and installed within 90 days !

**IMPORTANT: In signs with battery, red and black lead wires must be connected  
to battery or sign will not operate upon power outage !!!**

NOTE: Take care not to bend "EXIT" board or "EXIT" board plugs during installation.  
Though reinforced, copper tracings can be broken and the sign rendered inoperable.

## IMPORTANT SAFEGUARDS

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

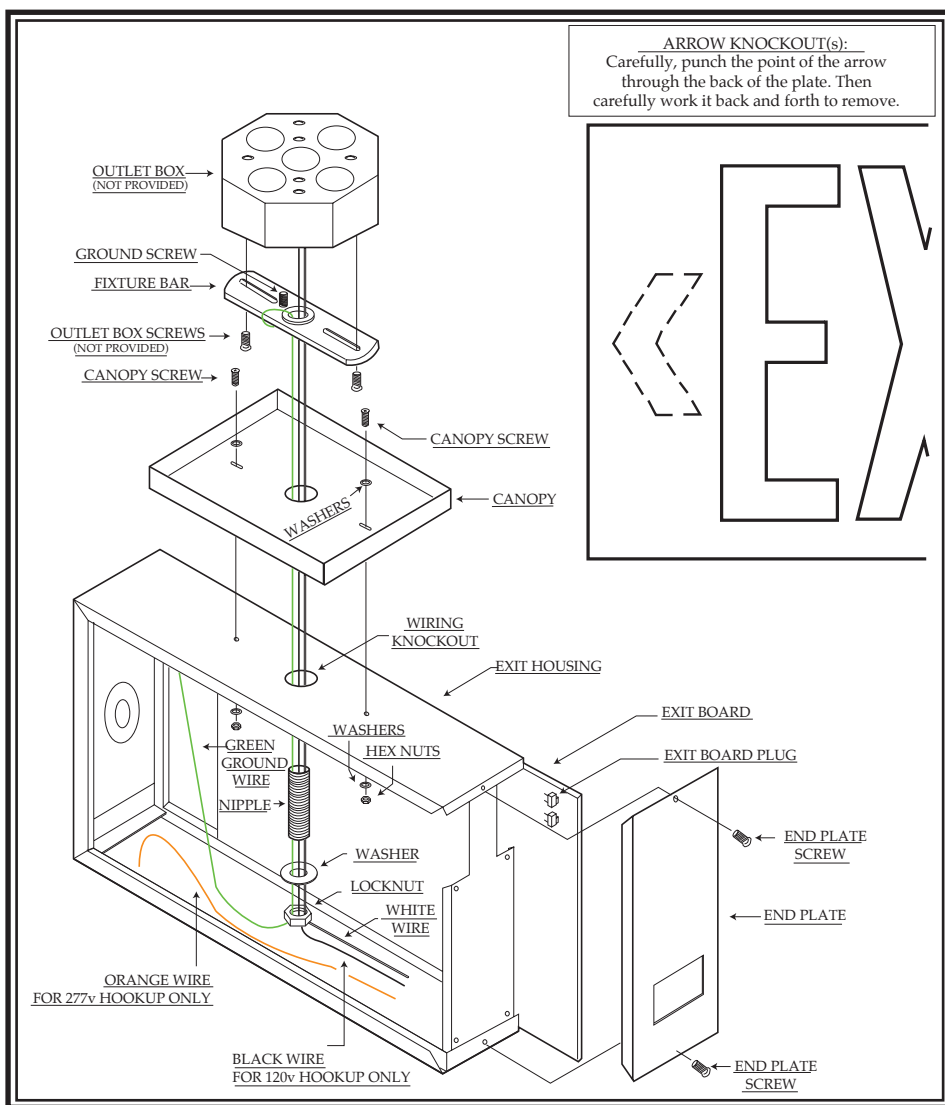
- 1) Do not use outdoors\*.
- 2) Do not mount near gas or electrical heaters.
- 3) Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately.
- 4) Mount exit sign in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- 5) These models are not designed for operation of remote lamps.
- 6) Use of any accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- 7) All servicing should be performed by qualified service personnel.
- 8) Do not use this equipment for other than intended use.

**SAVE THESE INSTRUCTIONS !!!**

\* All models listed above are rated "Suitable for damp locations".



Hubbell Lighting, Inc.

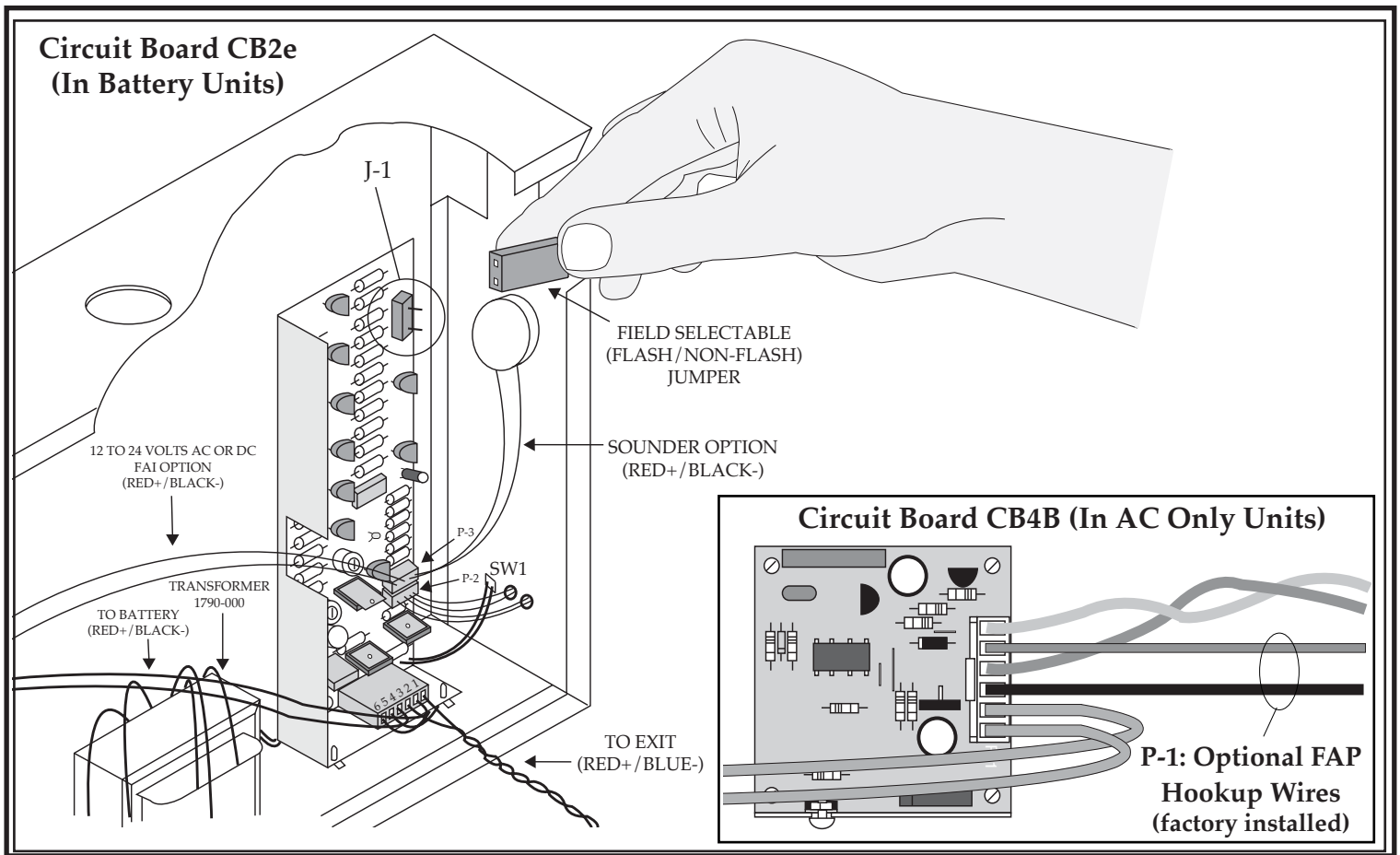


## INSTALLATION

- 1). Unpack and check for concealed transit damage. Report all transit damage to delivering carrier and file claim.
- 2). Remove END PLATE (two END PLATE SCREWS).
- 3). Carefully slide EXIT BOARD(s), FACEPLATE(s) and SHIELD(s), half-way out.
- 4). Disconnect EXIT BOARD PLUG(s).
- 5). Carefully remove EXIT BOARD(s), FACEPLATE(s), and SHIELD(s) from unit.
- 6). Select (top, end, or back) WIRING KNOCK-OUT and remove it.
- 7). **OPTIONAL:** Mount CANOPY to EXIT HOUSING with 2 CANOPY SCREWS, WASHERS & HEX NUTS (provided).
- 8). **INSURE AC OUTLET POWER IS OFF TO PREVENT ELECTROCUTION !**
- 9). Mount FIXTURE BAR to OUTLET BOX (with 2 OUTLET BOX SCREWS).
- 10). Screw NIPPLE into FIXTURE BAR.
- 11). Locate wires from exit sign transformer. Select and use either the BLACK WIRE (for 120v hookup) or ORANGE WIRE (for 277v hookup). Use only one of these two wires. Unused wire should be capped.
- 12). Insert selected (BLACK or ORANGE) WIRE along with WHITE WIRE and GREEN GROUND WIRE through LOCKNUT, WASHER, KNOCKOUT HOLE, NIPPLE, and BRACKET BAR.
- 13). Attach wires to service - insuring proper connection (white to white, black to black or orange to 277v, and green to GROUND SCREW provided on FIXTURE BAR).
- 14). Slip HOUSING AND WASHER onto NIPPLE. (Secure with LOCKNUT. CAUTION: SECURE, BUT DO NOT OVER TIGHTEN !!!)
- 15). **IMPORTANT: In signs with battery, red and black lead wires must be connected to battery or sign will not work upon power outage !**
- 16). Select flash or no flash on AC fail with J-1 (See page 3).
- 17). Select proper ARROW KNOCKOUTS and very carefully remove them (SEE DETAIL ABOVE)!
- 18). Slide EXIT BOARD(s) back halfway into unit and reconnect EXIT BOARD PLUG(s).
- 19). Slide EXIT BOARD(s), FACEPLATE(s) and SHIELD(s), back into unit. Replace END PLATE (two END PLATE SCREWS).
- 20). Apply AC power and Push Test Button... EXIT !!!

### SPECIAL NOTE:

After connecting Unit to AC power, the loose Transformer Wires must be routed and secured to Unit every 3 inches, using Adhesive-Backed Mounting Platforms and Cable Ties (provided).



**ALL BATTERY UNITS HAVE (FIELD SELECTABLE) EMERGENCY FLASHING OPTION**  
 If you want the unit to flash during AC power failure, place jumper (see above) on only the upper post of J-1. If you want the unit to stay on solid during AC power failure, place jumper across both posts of J-1.

**FIRE ALARM OPTION (FAP)**  
 The flashing FAP option requires field wiring to the red and black wires provided on the connector P-3 (on Battery units) and P-1 (on AC only units). The FAP can be activated with a 12 to 24 VAC signal, or a polarized input (positive to red) of 12 to 24 VDC. The maximum current required to activate the FAP is less than 2 MA per exit.  
**NOTE:** If you are using a system that reverses polarity upon alarm you should connect its positive to the black wire and its negative output to the red wire. This way when the polarity reverses the FAP will activate. **SPECIAL NOTE:** Regardless of the selection of J-1, the exit will flash with the introduction of FAP signal.

**BEEPER OPTION (AVAILABLE ONLY ON BATTERY UNITS)**  
 The audible beeper is a factory installed option on pins 3 & 4 of P-3, and requires no field wiring. If ordered as a FAP-BPR option (Fire alarm beeper), it becomes active only with the introduction of an FAP signal. If ordered as a BPR option (Beeper only), it will become active with the loss of AC power.

# CHECKING DIAGNOSTIC INDICATORS

The red indicator LED near the test button indicates that the battery is being charged.

The green LED indicates that the unit is receiving power.

Once battery is charged; continuous red and green indicators indicate dead battery or malfunction and service is required.

Continuous red and green is normal up to 24 hours after extended power failure.

## TEST BUTTON

Pressing the test button will simulate a power outage. After checking indicators (as above), press test button to check the entire emergency circuitry. If the "EXIT" lights up during normal operation and during this test, it is operating!

Once fully charged, the battery will automatically recharge in 24 hours. Our charging circuitry maintains optimum battery voltage levels to provide superior battery life. If "emergency flashing" is selected, this unit is UL listed to operate for 12 hours for LED1EM/PLED1EM and 8 hours for LED2EM/PLED2EM. If "non flashing" is selected, this unit is UL listed to operate in the emergency mode for 6 hours for LED1EM/PLED1EM and 4 hours for LED2EM/PLED2EM.

The emergency flashing feature is intended for locations where permitted by local codes. Flash rate is 68 cycles/minute ( $\pm 10\%$ ) at 50% duty cycle. Not intended to be cycled on and off by external control except when factory equipped with FAP (optional fire alarm interface).

## REPLACEMENT PARTS

**NOTE:** Replace with original equipment only. Use of other batteries will void the U.L. listing.

