
INSTRUCTIONS IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**
2. Disconnect power before performing work on electrical equipment.
3. Do not let power cords touch hot surfaces and do not mount near gas or electric heaters.
4. Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush with fresh water and contact a physician immediately.
5. Equipment should be mounted in locations and at heights where unauthorized personnel will not readily subject it to tampering.
6. The use of accessory equipment not recommended by Beghelli USA, may cause an unsafe condition, and will void the unit's warranty.
7. Do not use this equipment for other than its intended purpose.
8. Servicing of this equipment should be performed by qualified service personnel.
9. **SAVE THESE INSTRUCTIONS!**

INSTALLATION

NOTE: FIXTURE ORIENTATION IS IMPORTANT FOR LIGHT DISTRIBUTION - SEE PAGE 3

Surface Mounting:

1. Extend unswitched 24 hour AC supply of rated voltage to a junction box (supplied by others) installed in accordance with all applicable codes and standards. Leave at least 8 inches of slack wire. This circuit should NOT be energized/live at this time.
2. Open the unit by removing (4) cover mounting screws. (Figure 1)
3. Knockout (2) mounting holes in back of back box, then knockout side entry hole. Install conduit bushing provided (figure 6).
4. Peel backing of gasket and stick to back of back box. (Figure 1)
5. Secure back box to mounting surface with (2) screws (not supplied).
6. Make proper wiring connections. Connect ground to supplied green ground wire in accordance with local codes.
7. Plug in the connector on the battery into the circuit board (for EM and ACEM models).
8. Route wires and secure in place.
9. Replace cover. Note cover orientation.
10. Turn on AC line voltage supply.
11. Light distribution can be changed by using a different lens. See page 3 and Figures 3, 4 and 5.

Junction Box Mounting:

1. Extend unswitched 24 hour AC supply of rated voltage to a junction box (supplied by others) installed in accordance with all applicable codes and standards. Leave at least 8 inches of slack wire. This circuit should NOT be energized/live at this time.
2. Open the unit by removing (4) cover mounting screws. (Figure 1)
3. Knockout (2) mounting holes and (1) entry hole in back of back box.
4. Peel backing of gasket and stick to back of back box. (Figure 1)
5. Feed wires through entry hole and secure back box to junction box.
6. Make proper wiring connections. Connect ground to supplied green ground wire in accordance with local codes.
7. Plug in the connector on the battery into the circuit board (for AC and ACEM models).
8. Route wires and secure in place.
9. Replace cover. Note cover orientation.
10. Turn on AC line voltage supply.
11. Light distribution can be changed by using a different lens. See page 3 and Figures 3, 4 and 5.

CAUTION

This equipment is furnished with a sophisticated low voltage battery dropout circuit to protect the battery from over-discharge after it's useful output has been used. Allow 48 hours recharge time after installation or power failure for full-load testing.

OPERATION

1. To Test, depress the TEST Switch. Charge indicator will go out and the DC lamps will come on.
2. Release the TEST Switch. DC lamps will be extinguished, and the charge indicator will come on.
3. A bright charge indicator indicates a high charge rate. After the battery has reached full charge, the indicator light will go out. Under normal operation the high charge indicator will turn off and on intermittently while the unit is in standby mode (regular/mains AC present) since the charge rate will vary in order to maintain an optimal battery charge.

Figure 1

Remove screws

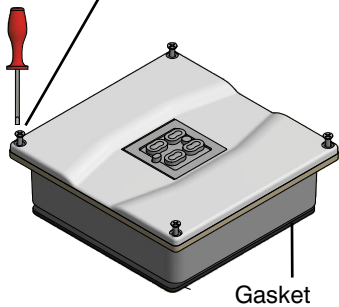


Figure 2

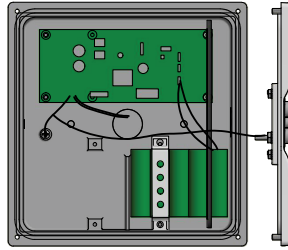


Figure 3

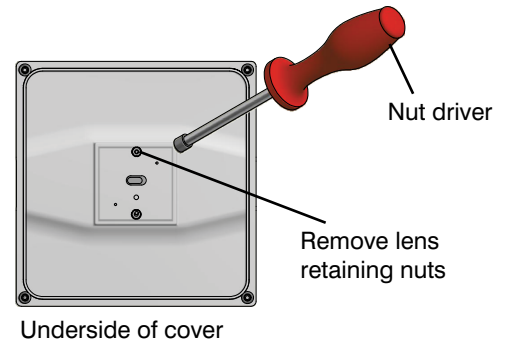


Figure 4

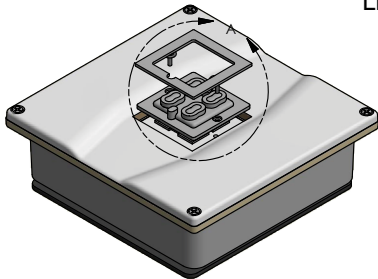


Figure 5

Notching for LED indicator

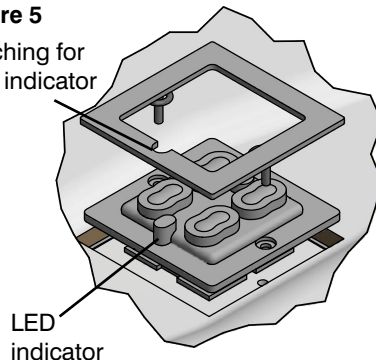
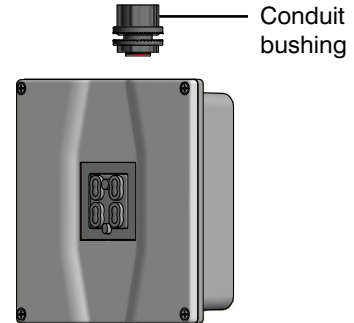


Figure 6



MAINTENANCE

1. Code requires that the equipment be tested every 30 days for 30 seconds, and that written records be maintained. Further, the equipment is to be tested once a year for the required duration as per Code. The battery is to be replaced or the equipment repaired whenever the equipment fails to operate as intended during the duration test. Written records of test results and any repairs made must be maintained. Beghelli USA strongly recommends compliance with all Code requirements.
 2. The lamps listed herein when used according to the instructions with this unit are in accordance with the requirements of CSA Standard C22.2, No. 141 – Unit Equipment for Emergency Lighting.
 3. Clean lenses on a regular basis.
- NOTE: The servicing of any parts should be performed by qualified service personnel only. The use of replacement parts not furnished by Beghelli USA, may cause equipment failure and will void the warranty.

TROUBLE SHOOTING

EMERGENCY LIGHT DOES NOT COME ON AT ALL

Pilot Light is out before test...

1. Check AC supply - be sure unit has 24 hour AC supply (unswitched).
2. AC supply is OK, and indicator light is out, replace PC Board Assembly.

Pilot Light is on before test...

3. Either the output is shorted or overloaded, or the battery is not connected.
4. Battery is severely discharged. Allow 48 hours for recharge and then retest. NOTE: This could be the result of a switched AC supply to the unit (which has been turned off at some point), a battery with a shorted cell, an old battery or a battery which has been discharged due to a long power outage and is not yet fully recharged.

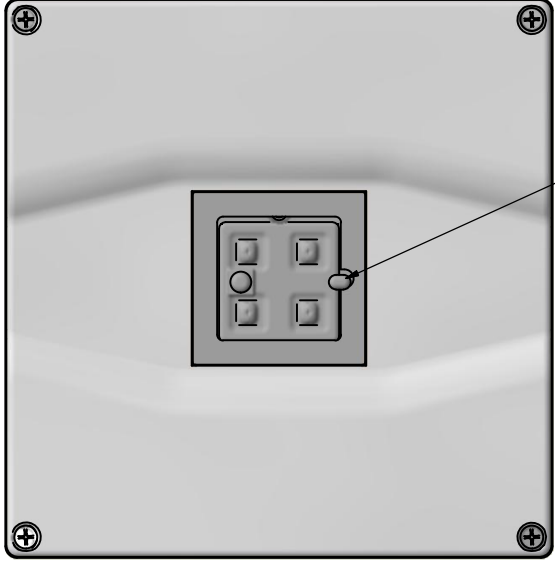
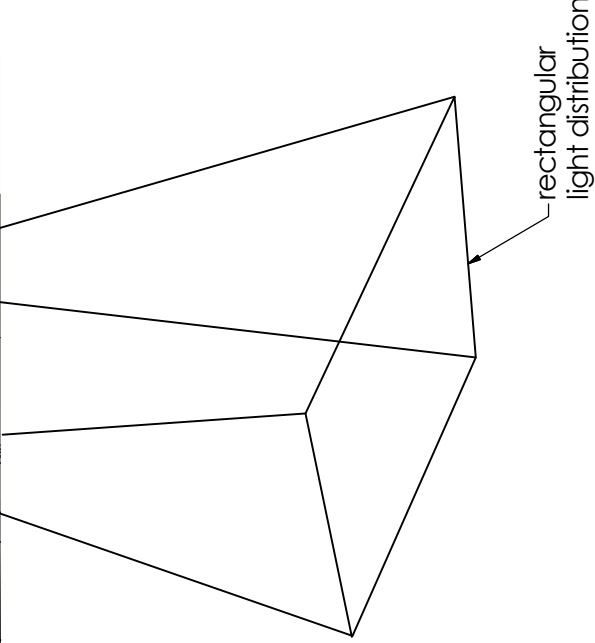
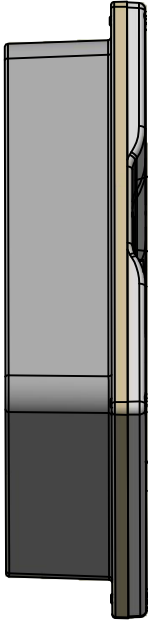
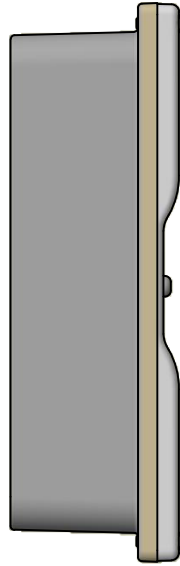
EMERGENCY LIGHT COMES ON DIM WHEN TEST BUTTON IS PRESSED

1. Battery discharged - permit unit to charge for 48 hours and then retest. If lamps are still dim, check charger for proper function. If charger functions correctly, replace battery.

EMERGENCY LIGHT COMES ON DIM WHEN AC POWER IS ON -

1. Check supply voltage and AC connections. This emergency light is provided with brownout protection. The AC supply must be at least 80% of nominal (96V on a 120V line) for equipment to function normally. At lower voltages the emergency lamps will begin to glow dimly until the source voltage drops below the full "turn-on" point. NOTE: This condition may also be caused by incorrectly connecting a 120 Volt supply line to the incorrect voltage transformer lead.

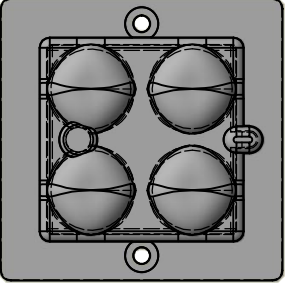
SAVE THESE INSTRUCTIONS



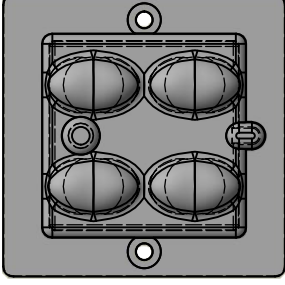
LED INDICATOR FACING TO THE FLOOR

WALL MOUNT

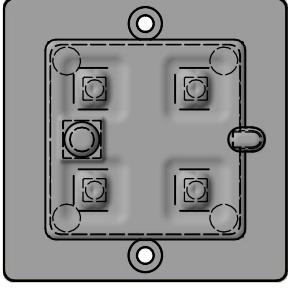
CEILING MOUNT



CEILING LENS SQUARE LIGHT DISTRIBUTION



CEILING LENS RECTANGULAR LIGHT DISTRIBUTION



WALL MOUNT LENS