



2x2 Troffer Fixture With Emergency Battery Backup

Drivers: LP3/HS3/HN3

Installation Instructions

Troffer EBB Fixture, Suspended Ceiling
120 or 277VAC_{in}
(May, 2014)

General Operation

Please refer to the [Electrical Installation](#) for proper connection to power and control.

The Silescent® T2ELP3/T2EAC3 series Line-Voltage LED Troffer fixture with Emergency Battery Backup provides for ON/OFF operation as well as multiple dimming inputs.

Mount fixture in area where emergency light is needed. Note that emergency light output will be different from the maximum light output as it is rated at 20watts of light for 90 minutes.

The light may be operated as standard ON/OFF, or as phase dimmed with only WHITE and BLACK wires connected and use of standard wall switch and/or a standard triac dimmer.

The light may also be digitally dimmed by connection of the YELLOW and PURPLE wires to a Silescent® Digital Dimming Control.

- **LP3:** 120VAC_{in}, ON/OFF, Phase or Digital Control
- **HS3:** 208-277VAC_{in}, ON/Off or Digital Control
- **HN3:** 208-277VAC_{in}, ON/OFF only

Important Notes *(Please read before Installation)*

For use with 120VAC (LP3) or 277VAC (HS3/HN3), 50-60 Hz Supply Power.

THIS IS AN EMERGENCY BATTERY BACKUP FIXTURE THAT CONTAINS A RECHARGEABLE NiMH BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

CAUTION: THIS LIGHT FIXTURE HAS MORE THAN ONE POWER CONNECTION POINT. MAKE SURE THAT BOTH CIRCUITS ARE DISCONNECTED BEFORE SERVICING FIXTURE.

NOTE: CONNECT BATTERY TO FIXTURE PRIOR TO APPLYING POWER TO FIXTURE.

Wiring Notes

- Always **TURN OFF POWER** before installation or maintaining.
- Install according to national and local electrical codes.

Compatible Controls

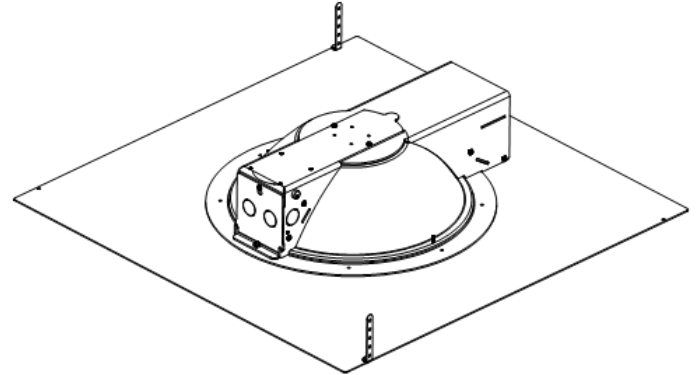
- UL approved ON/OFF switch.
- **LP3:** ON/OFF OR Fwd phase incandescent "triac" dimming control OR Silescent SimpleNet 4-wire digital dimming control.
- **HS3:** ON/Off OR Silescent® SimpleNet 4-wire digital dimming control.
- **HN3:** ON/Off Only.

Cleaning Instructions

- TURN LIGHT OFF BEFORE CLEANING.
- The light may be cleaned with water only. Do not use solvents to clean the plastic diffuser.

The back of the unit is physically protected by a metal box but is not water sealed, please keep dry. There are no serviceable parts or settings required for this unit other than the battery.

FIGURE 1 – Troffer EBB Fixture Assembly



Emergency Battery Backup Operation

When AC power is applied, the charging indicator is illuminated, indicating that the battery is being charged.

A minimum of 24 hours required to fully charge battery following initial installation or a power interruption or disconnect.

When power fails, the emergency ballast automatically switches the fixture to emergency (battery) power. The emergency ballast will provide 20 watts of light for 90 minutes.

When power returns the emergency ballast automatically switches back into normal light operation and resumes charging internal battery.

Emergency Battery Backup Maintenance

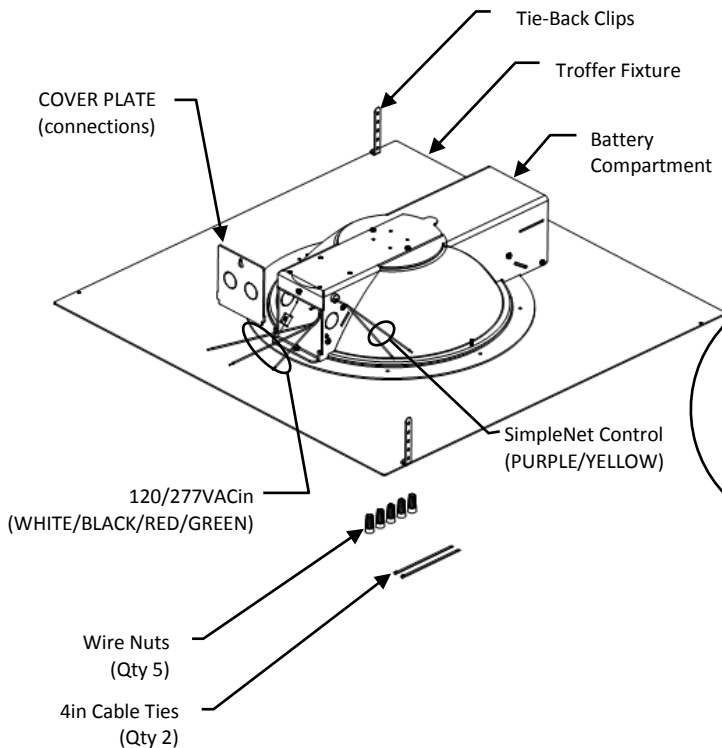
Although no routine maintenance is required to keep the emergency ballast functional, it should be checked periodically to ensure that it is properly working.

The following schedule is recommended:

- Visually inspect the charging indicator light monthly to make sure it is illuminated (indicating fixture is properly charging).
- Test the emergency operation of the fixture monthly by pressing the test button for at least 30 seconds. The fixture should operate at reduced illumination when pressed.
- Yearly conduct a 90-minute discharge test to make sure the fixture operates at reduced illumination for at least 90 minutes. To do this, either push and hold the test button for 90-minutes OR turn appropriate un-switched branch circuit breaker off for 90-minutes.

Contents & Part Identification

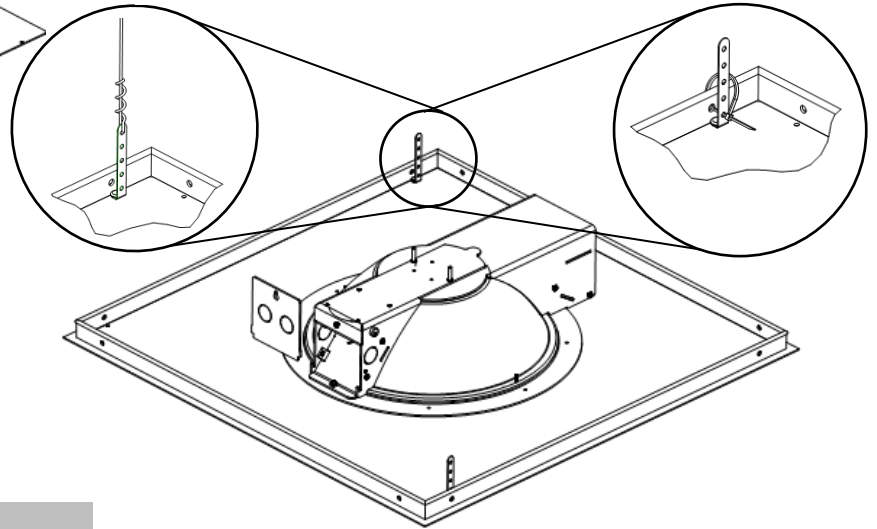
FIGURE 2 – Package Contents & Parts Identification



Mechanical Installation

1. Unpack shipping container and separate components.
2. Remove the COVER PLATE from the fixture to access the electrical connections.
3. Place the LED Troffer Fixture into the T-Bar Ceiling panel.
4. Using the provided CABLE TIES (2x), carefully bend up the TIE-BACK CLIPS located in opposite corners of the fixture using your fingers and insert the CABLE TIE through each TIE-BACK CLIP and the nearest available hole on the grid structure. Loosely secure the CABLE TIE accordingly.
5. The TIE-BACK CLIPS may also be used to route Hanging Wire in accordance to applicable building codes.

FIGURE 3 - Mounting



Electrical Installation

- **NOTE: CONNECT BATTERY TO FIXTURE PRIOR TO APPLYING POWER TO FIXTURE.**

1. Route the power supply line(s) through the COVER PLATE (remove knockouts as required). Use code approved fittings for wire protection.
 - Note: Use provided wire nuts or a UL Listed equivalent for all electrical connections; Make all electrical connections inside provided wiring chamber.
2. Locate the GREEN wire protruding from the back of the light fixture and connect it to the safety ground.
3. Connect the line power lead (SWITCH input) to the **BLACK** wire on the fixture, and the neutral power lead (branch circuit ground) to the **WHITE** wire of the fixture. Connect the non-switched line power lead from breaker to the **RED** wire.
4. After completing all electrical connections, carefully tuck the wires back into the enclosure and fasten COVER PLATE onto the Troffer Fixture using provided fastener.
5. If Silescent SimpleNet 4-wire digital dimming is desired (LP3 or HS3), connect the POSITIVE(+) lead from the Silescent dimming control to the **PURPLE** wire on the fixture and the NEGATIVE(-) dimming lead to the **YELLOW** wire on the fixture (see Silescent SimpleNet Wiring Schematic for proper electrical connection of dimming controls). These Class 2 electrical connections are to be made outside of the wiring chamber of the fixture.
 - Note: PURPLE/YELLOW SimpleNet Control wires may be capped if not used.

Battery Removal/Replacement

Remove Power from Both Branch Circuits.

Remove screw to battery access compartment and remove Battery Cover Plate.

Remove battery by sliding out of battery compartment and disconnect connector.

Connect replacement battery to connector.

Install new battery into compartment (insert Battery first with wire and connector outside of chamber).

Tuck in wires and position battery Cover Plate and attach with screw.

Note: CONNECT BATTERY TO FIXTURE PRIOR TO APPLYING POWER TO FIXTURE.

Note: PROPERLY RECYCLE OR DISPOSE OF USED NiMH BATTERY!!!

