

EBE INSTALLATION GUIDELINE

Emergency Battery External

INSTALLATION INSTRUCTIONS FOR

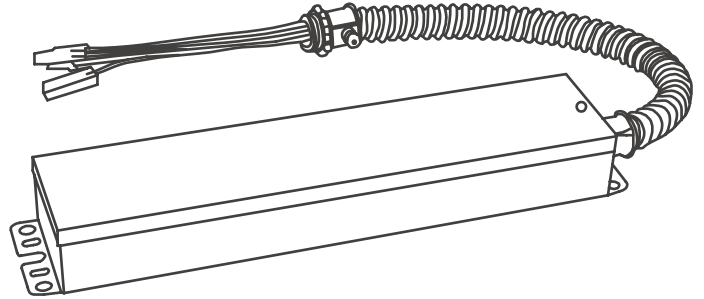
EBE-15-3

EBE-25-3

EBE-40-3

WHAT'S IN THE BOX

- EBE Emergency Driver
- Pre-installed 13" flexible conduit
- Wire nuts
- Indicator test switch
- Indicator test switch plate
- Mounting screws for indicator test switch plate



WHAT YOU'LL NEED

- Wiring supplies as per national and local electrical codes
- Drill or screwdriver
- Mounting screws

IMPORTANT

Before installing emergency driver, read all instructions and retain for future reference. The important instructions and safeguards that appear in this document are not inclusive of all possible conditions and situations that may occur. It must be understood that common sense, caution, and care are factors that cannot be built into a product. These factors must be supplied by those that care and operate the emergency driver. Consider a qualified licensed electrician for installation.

For additional information required not covered in this document please contact a local representative.



WARNING AND SAFETY

- Risk of fire or electric shock.
- Ensure power is OFF at the electrical panel before starting installation or maintenance
- Verify site supply voltage matches emergency battery and luminaire product labels
- Ensure wiring connections are not exposed during operation
- Modifications to the product will void warranty
- Ambient temperature range under normal operation not to exceed:
0°C to 50°C (32°F to 122°F)
- The emergency battery requires an un-switched AC power source of 100-347V. The luminaires AC driver must be on the same branch circuit as the emergency battery
- For EBE-15/25-3 confirm that the luminaire is not greater than 150W. For EBE-40-3 confirm that the luminaire is not greater than 300W. If luminaire is greater than above the discharge time will be shortened and may not pass safety codes
- Wiring to emergency battery must be in accordance with the National Electrical Code and all applicable local electrical and safety regulations

LUMEN OUTPUT DURING EMERGENCY OPERATION

THE LUMEN OUTPUT DURING OPERATION CAN BE DETERMINED AS FOLLOWS:

1

Determine the fixture's efficacy under normal conditions based on the fixtures published data in lumens per watt (lm/W).

2

Reference DLC QPL (www.design-lights.org) for rated data on fixture efficacy.

3

Multiply the fixture's efficacy by the rated output power of the EBE-XX-3.
Example (EBE-15-3 installed with PREMISE FPH2-2240S40-3): $15W \times 115 \text{ lm/W} = 1,725 \text{ lm}$.

SELF-DIAGNOSTIC

The integrated self-diagnostic circuitry will automatically conduct a monthly 30 second test, and an annual 90-minute test to verify the proper emergency capabilities as per the standards outlined in NFPA 101, Life Safety Code. NFPA 101, Life Safety Code outlines the following schedule:

- **Monthly** – During AC mode, the system conducts a 30 second self-discharge test of the emergency LED driver every 30 days. Upon completion of the 30 second discharge, operation will return to normal.
- **Annually** – During AC mode, the system conducts a 90 minute self-discharge test of the emergency LED driver every 365 days. Upon completion of the 90 minute discharge, operation will return to normal.

Note: Written records of monthly and annual testing should be kept by the owner for authorities to inspect.

INSTALLATION

BEFORE INSTALLING THE EMERGENCY LED DRIVER

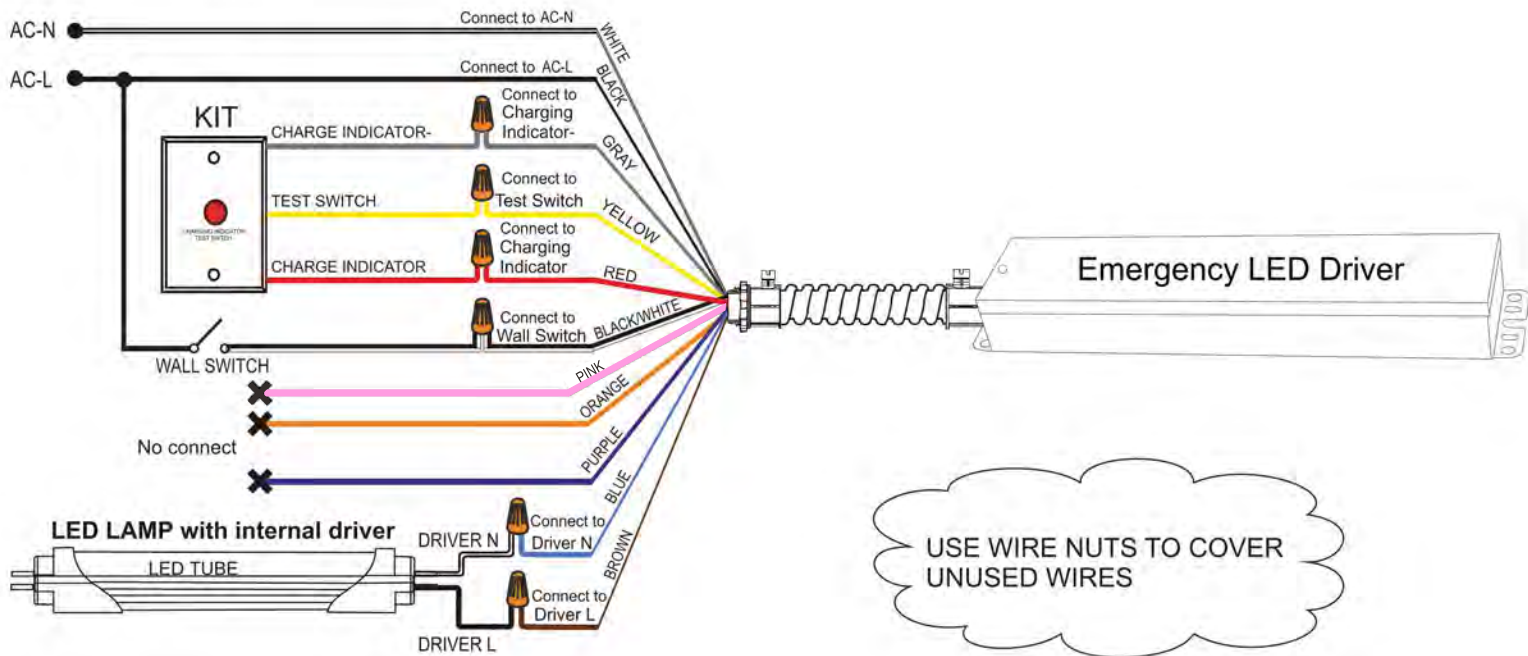
- Turn off AC power
- Determine where test switch will be mounted. The test switch should be mounted where it can be seen by maintenance personnel
- Verify that the voltage to the dimmable wires (DIM+, DIM -) is less than 20VDC
- Determine the mounting location of the emergency driver. Ensure that a junction box is at most 13" away so that the flexible conduit from the emergency driver can be easily attached

WIRING THE EMERGENCY DRIVER

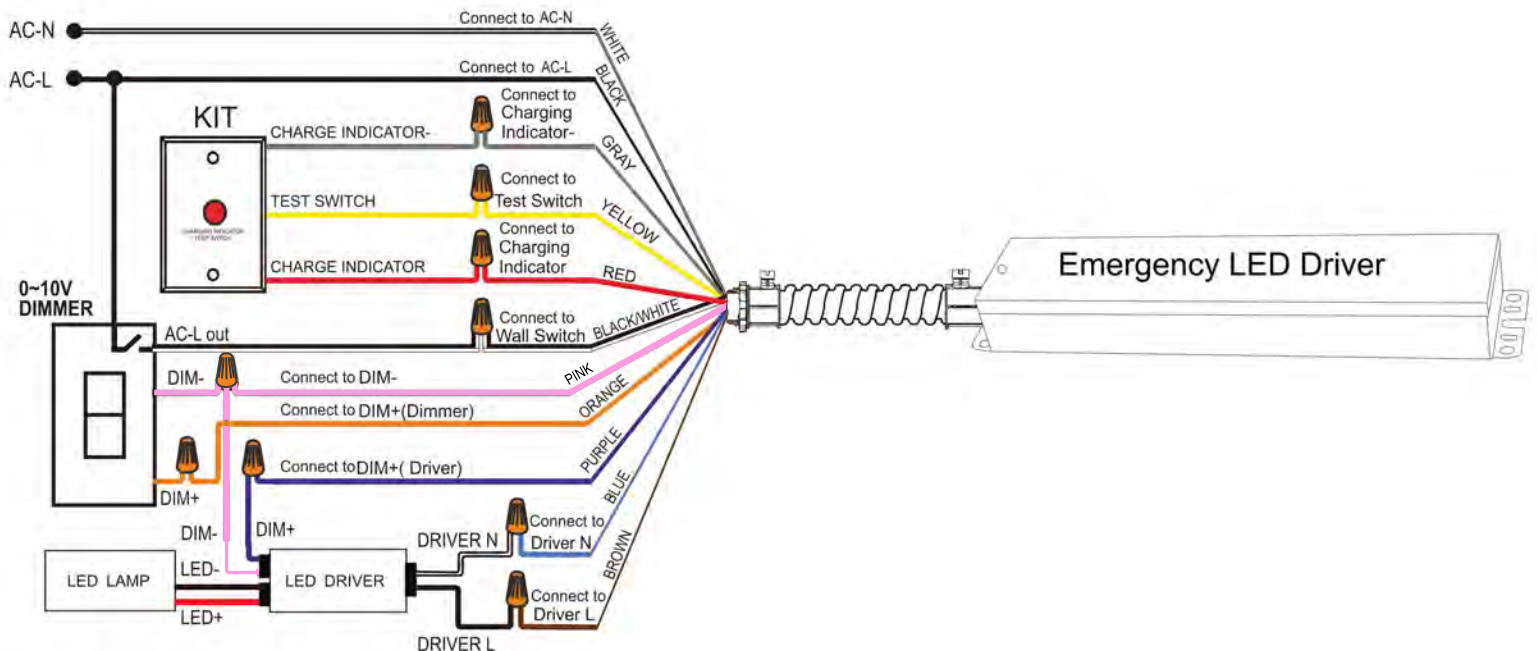
- Select the appropriate wiring diagram from the figures below
- Cover any unused wire with wire nuts and make sure all connections are made in accordance with the NEC and any local regulations

INSTALLATION CON'T

Switch without dimming, driver or tube without 0-10V dimming leads

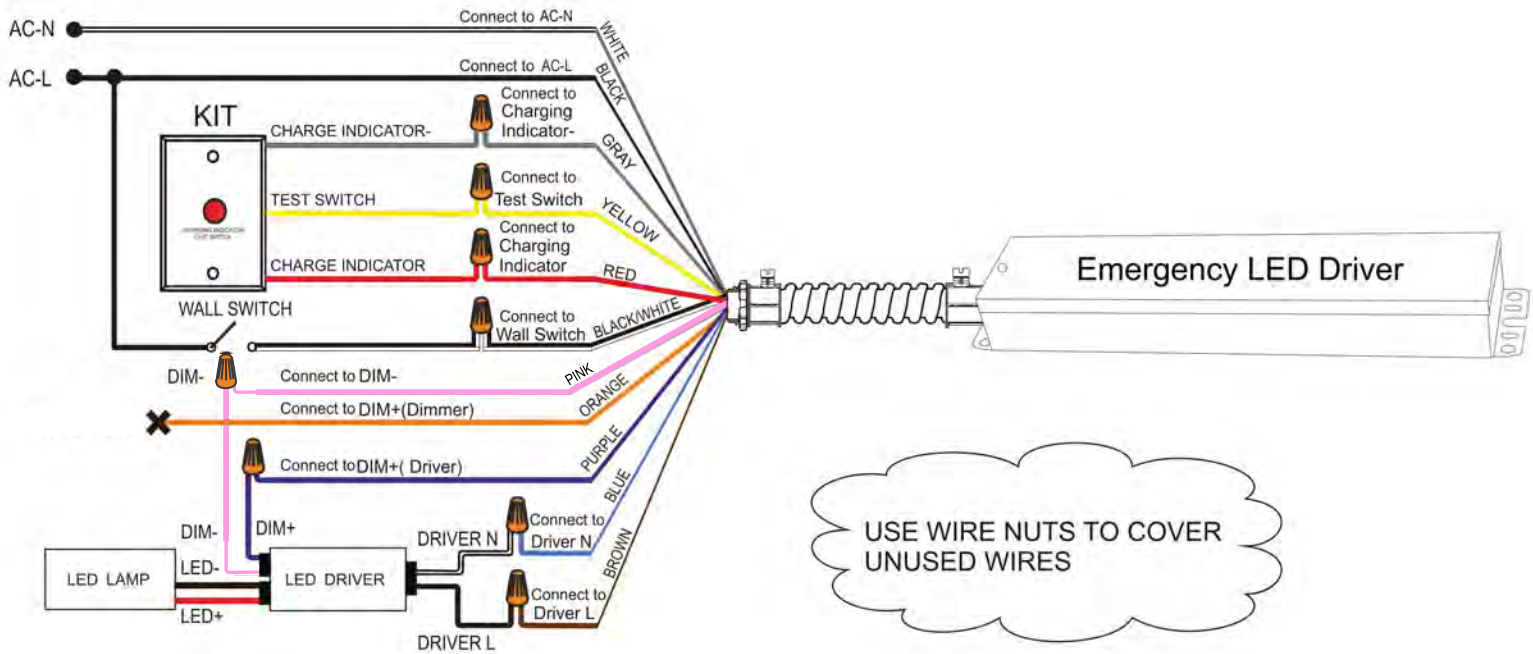


Switch with dimmer, driver with 0-10V dimming leads

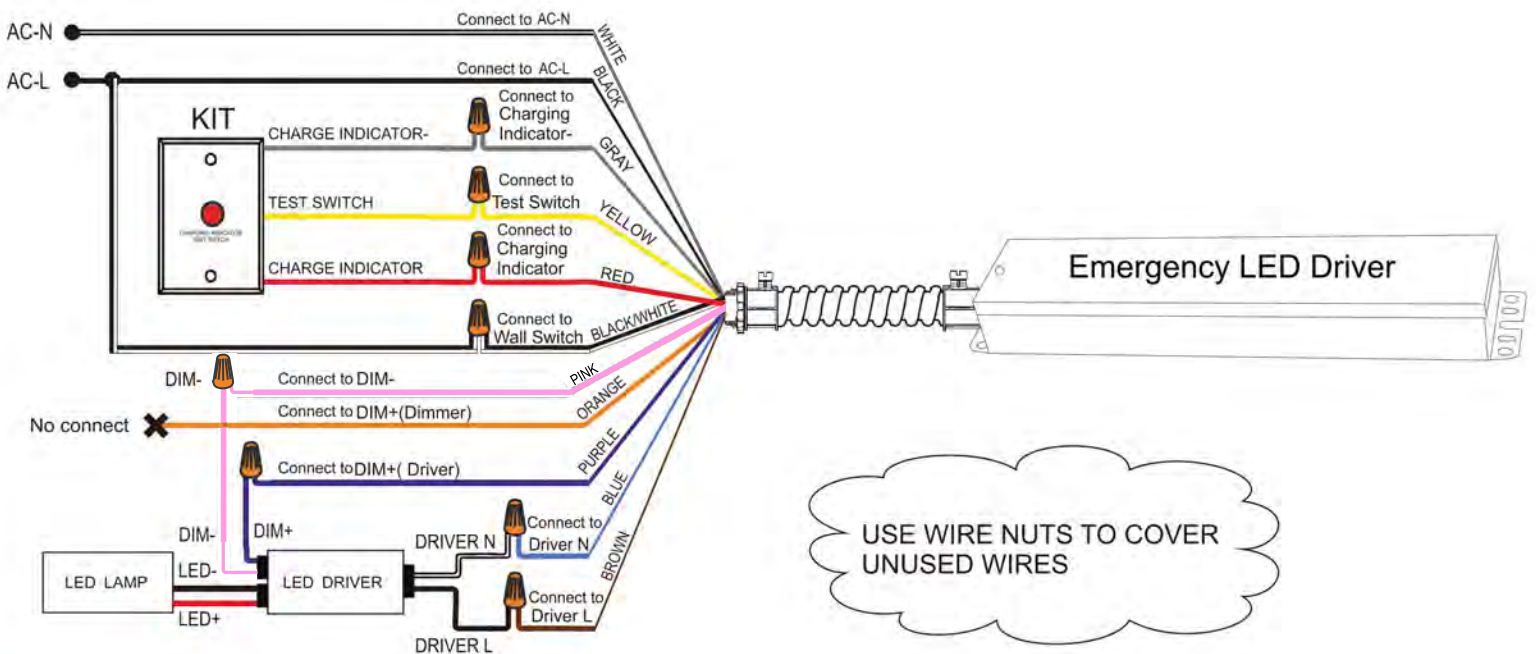


INSTALLATION INSTRUCTIONS CON'T

Switch without dimming, driver with 0-10V dimming leads

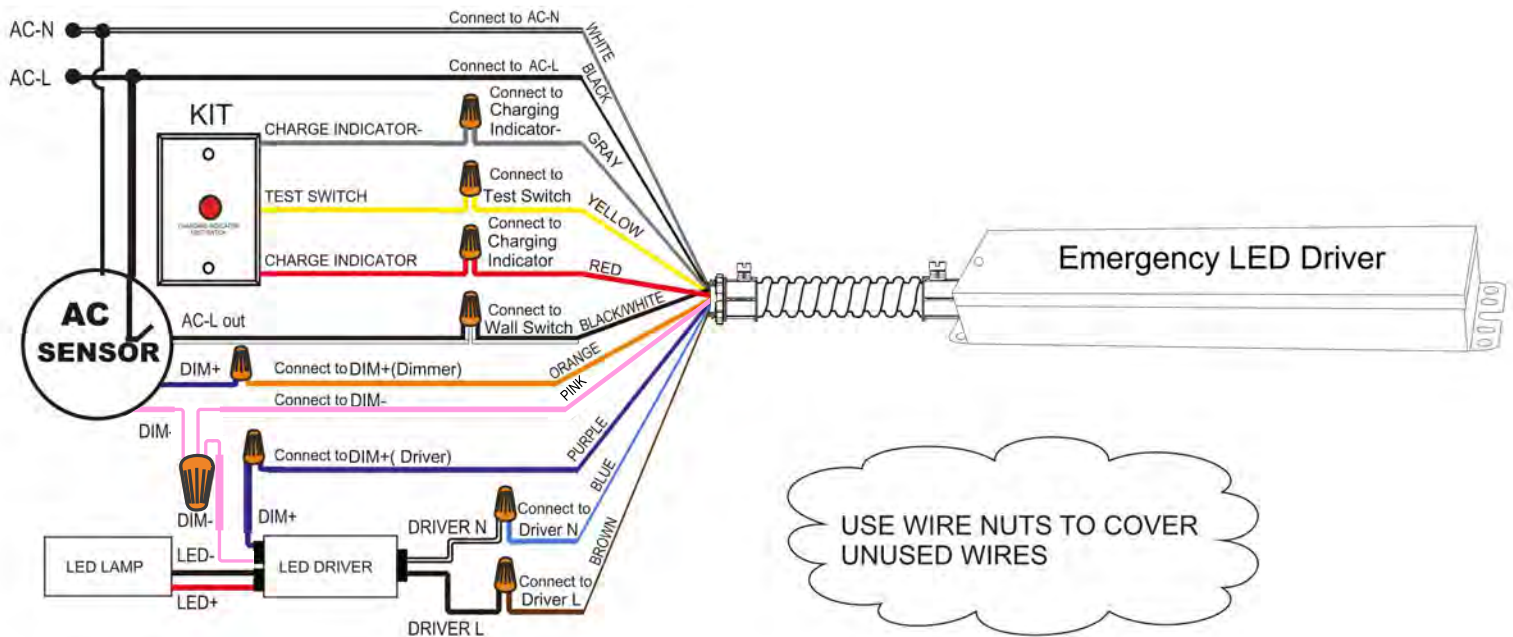


No switch – 24hr light, driver with 0-10V dimming leads

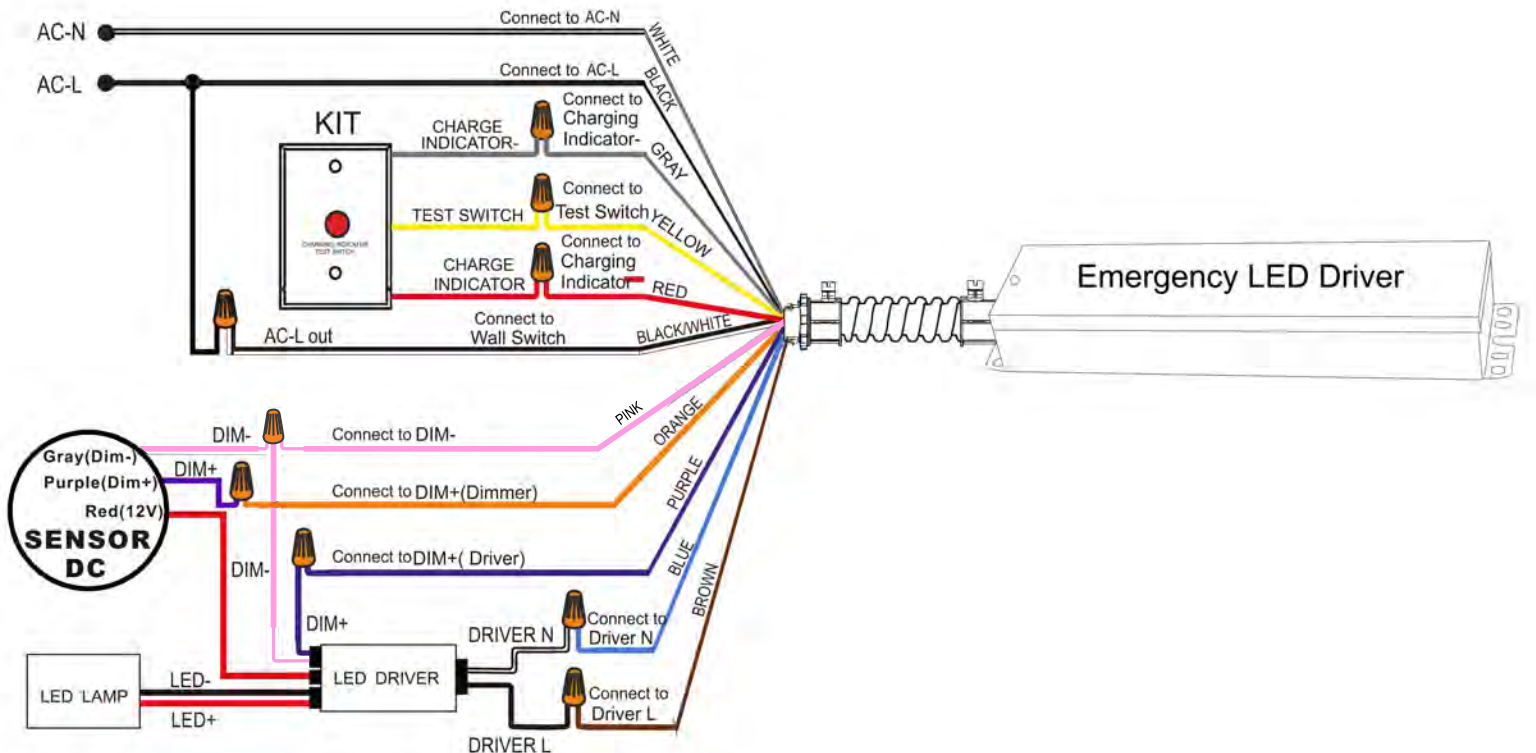


INSTALLATION INSTRUCTIONS CON'T

120-347V sensor, driver with 0-10V dimming leads



12V sensor, driver with 0-10V dimming leads and 12V auxiliary output



TESTING

- After wiring is complete, check the indicator light to determine the battery's status – refer to the below chart
- The battery in this unit may not be fully charged. A short-term discharge test may be conducted after the EBE-XX-3 has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.

Mode	Test Switch Operation	Indicator Status	Battery Status
AC Mode	Not pressed	On (not flashing)	Battery is charging or is charged
AC Mode	Pressed once	2s On, 2s Off	Battery is conducting a 30s short-term emergency test
AC Mode	Pressed twice	2s On, 2s Off	Battery is conducting a long-term emergency test until battery is full discharged
Emergency Mode	Not pressed	2s On, 2s Off	Battery is discharging and will continue to provide power until it has been fully discharged (90 mins)
Emergency Mode	Pressed once	Off	Battery has been fully discharged
Problem	When the indicator flashes 0.2s on, 0.2s off (flashes quickly), the emergency driver is experiencing a problem and the manufacturer must be contacted.		
Note: - AC Mode assumes EBE is receiving 24/7 power - Press the test switch once prior to performing maintenance to confirm that the battery has been disconnected properly			