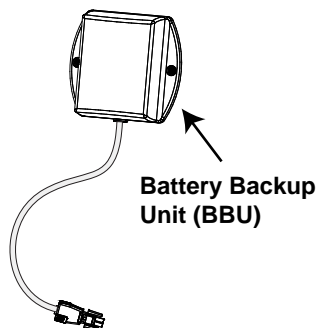


# merlin®

## OWNERS'S MANUAL



### 1. Installation instructions for mounting the BBU.

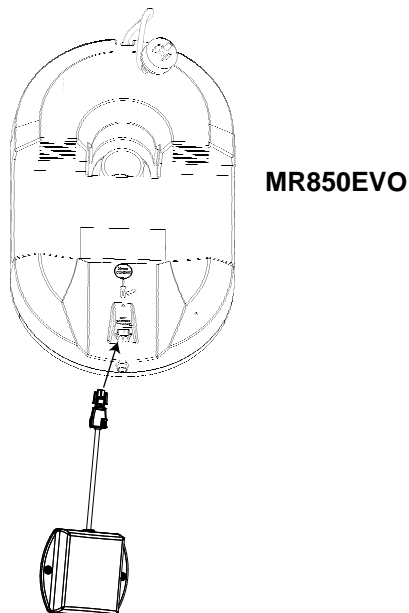
- After the opener has been installed, position the BBU next to the opener on a structural support (joist) within BBU's cord length.
- Attach the BBU to the support by using the wall or ceiling mount holes on either side of the BBU and the 1" (25mm) screws (provided).

### 2. Connect the BBU to the Opener (MR850EVO).

Disconnect the opener from the electrical outlet.

- Connect the BBU cord into the connector on the bottom of the opener (see picture below). Connect the opener into the electrical outlet.
- Turn the power ON. After 2 seconds the Courtesy LEDs will flash 5 times.
- After 20 seconds, the green diagnostic LED (see picture next page) will begin to flash indicating the BBU is charging.

**IMPORTANT NOTE:** Installation of the BBU when permanent electrical power is not available (such as a new construction and the electricity is not installed) may damage the battery. Unplug the BBU after testing to prevent damage.



## BATTERY BACKUP UNIT Model E475M-12V

### **WARNING**

To prevent possible **SERIOUS INJURY** or **DEATH** from electrocution, disconnect **ALL** electric and battery power **BEFORE** performing **ANY** service or maintenance.

### OPERATING INSTRUCTIONS

#### 1. Test the installed BBU with the opener.

To test the BBU, disconnect the opener power cord from the electrical power outlet.

- A solid orange LED indicates the BBU is operating on battery power.
- A flashing orange LED indicates the BBU is operating on battery power and that the battery charge is low.
- To test the BBU is functioning properly, open and close the garage door.
- Re-connect the opener power cord back into the electrical outlet.
- Verify that the green LED is flashing on the opener (indicates that the BBU is now charging).
- Test completed.

#### 2. Charge the battery.

- Allow the battery 24 to 48 hours to fully charge before using the BBU system.

A fully charged BBU supplies 12V DC to the opener for one to two days of normal operation during an electrical power outage. If the battery voltage drops too low, the battery will disconnect and the opener will no longer operate under battery power.

After the electrical power has been restored, the battery will recharge within 48 hours. Under normal usage the battery will last 3 to 5 years.

To obtain maximum battery life and prevent damage, disconnect the battery backup when the opener is not in use for an extended period of time.

**NOTE:** Door operation may be limited until the battery is fully charged.

## Battery Backup Unit (BBU) Diagnostics

### GREEN LED:

*All systems are normal.*

- A solid LED light indicates the battery is fully charged.
- A flashing LED indicates the battery is being charged.

**NOTE:** *Battery does not have to be fully charged to operate the motor unit.*

### ORANGE LED:

*The motor unit has lost power and is operating off the BBU.*

- A solid LED indicates the opener is activating the door and is operating off the BBU.
- A flashing LED indicates the battery is low.
- Once the power is restored the BBU will recharge. This is indicated by a flashing green LED.

### RED LED:

An error has been detected and the BBU will automatically shut off. The BBU will attempt to restart by reconnecting to the battery. If the error is still present it will shut itself off again. This process will repeat every 5 minutes or until the error has been resolved. This is used to prevent further draining of the battery.

- *If a red LED remains on when the power is restored please call for service.*

## Replace Battery

- Unplug the BBU from the opener and remove the screws holding the BBU to the wall.
- Remove the battery retaining bracket.
- Withdraw the battery from the housing and disconnect the terminals.
- Reinstall the new battery in the reverse process, taking care to connect the positive and negative terminals correctly.
- Reconnect the BBU to the opener as in step 2 of the previous page.

Australia  
Phone toll free 1800 638 234  
Fax toll free 1800 888 121

New Zealand  
Phone 09 415 4393  
Phone toll free 0800 653 667  
Fax toll free 0800 653 663

[www.chamberlainanz.com](http://www.chamberlainanz.com)

