

Beacon Terminal – Battery Replacement & Installation Guidelines

Battery Replacement

When the Beacon battery percentage is lower than 5%, the red LED light blinks twice at 10 second intervals to indicate the battery is running low. Please follow the steps below in order to replace the CR2477 battery:

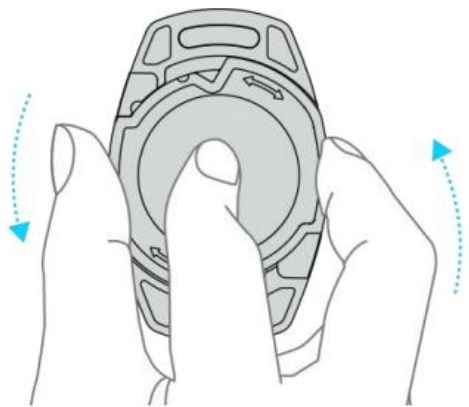


Figure 1: Top view of M2 Beacon



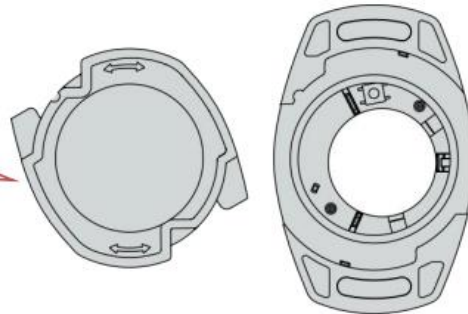
Figure 2: Back view of M2 Beacon

Disassemble flow:

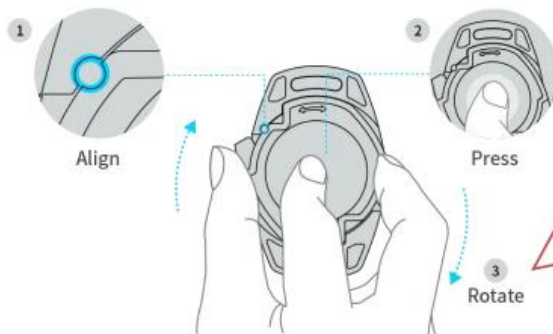


Step 1: Counter clock wise to open the back cover.

Step 2: Take out battery and screw to disassemble



Assemble flow:



Step 1: Align the gap between back cover and housing part.
Step 2: Press back cover tightly.
Step 3: Rotate clockwise to snap-fit.

1. Unscrew fittings/remove from sticky pad.
2. Disassemble the bottom case and remove the current battery.



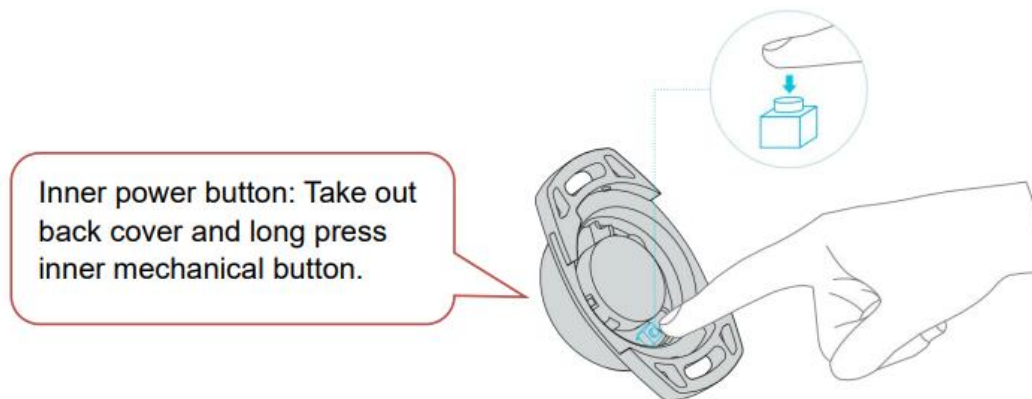
3. Install the new battery and close the case.



4. Attach the Beacon using the fittings/sticky pad and install back to the original location.

Powering On/Off

The Beacon may only require restarting after the battery has been replaced, it should not be powered off for any other reason.



Installation Guidelines

Minimizing the space between the iBeacon nodes will increase the system's accuracy.

- If there is a 10-meter spacing between the Beacon nodes, it can offer an average accuracy of 2 meters.
- If there is a 15-meter spacing between the Beacon nodes, it can offer an average accuracy of 4 meters.

Mirrors and metal objects effect the accuracy of the Beacon due to their reflection on the Bluetooth signal propagation.

Positioning the Beacon nodes closer to each other is not going to increase the accuracy of Beacons because they have the same signal strengths.

The physical location of Beacons has a noticeable impact on accuracy. The manufacturers recommendations are to install them in the following locations:

- An object that is extremely close to the ceiling
- On the upper area of a wall
- Inside a false-ceiling
- On the ceiling
- On an item that is close to the ground
- On the lower part of a wall/column
- On the ground

Two Methods of Installation:

