



# Career Fair Aruba Small Black Flashlight

## Teardown

The product is a small flashlight with a toggle I/O push-button switch that either turns the light on or off.

Written By: Nathan Wang



This document was generated on 2020-03-30 12:56:41 PM (MST).

## INTRODUCTION

Written by: Elena Postupalskaya, Kevin Shipp, Eileen Tran, Nathan Wang

The product is a small flashlight with a toggle I/O push-button switch that either turns the light on or off. The other side of the light-emitting end is a built-in carabiner with capabilities to hang onto various places. This black flashlight has a Aruba logo on it as it was a product purchased by Aruba and given out to prospective employees at a career fair. The teardown shows what is inside.

### TOOLS:

- 2 Hands (1)

## Step 1 — Unscrew Top to View Battery Container



- Unscrew the carabiner end of the flashlight to see the inside of the flashlight which holds the battery

## Step 2 — Remove the Black Rubber Cover on Carabiner Side



- Remove the black rubber cover on the carabiner end of the flashlight. You'll notice a little white plastic piece in the center. That piece enables the physical switch I/O connection.

## Step 3 — Remove Batteries From Flashlight



- Remove batteries from flashlight as shown. What seems like a single battery is actually two CR2032s in series that are held together by a plastic case.
- The green PCB shown has a current limiting resistor on the other side for the six LEDs. The solder joints shown are for the cathodes (outer circle) and anodes (inner circle) for the six LEDs as well as the spring which connects to the two 3V batteries.
- Tada! That's the teardown for the Aruba Black Flashlight with Carabiner :)