



# MasterLock 1500EDBX Teardown

Exploring the new electronic lok from MasterLock.

Written By: Josh Thomas



## INTRODUCTION

Just a good view of the internals, for those that love MSP430 chips

### TOOLS:

- [Spudger](#) (1)
- [Hammer](#) (1)

## Step 1 — MasterLock 1500EDBX Teardown



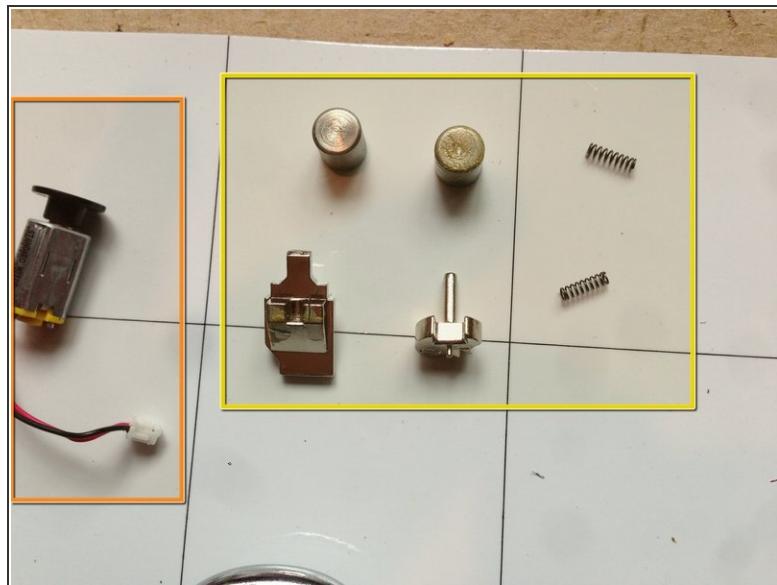
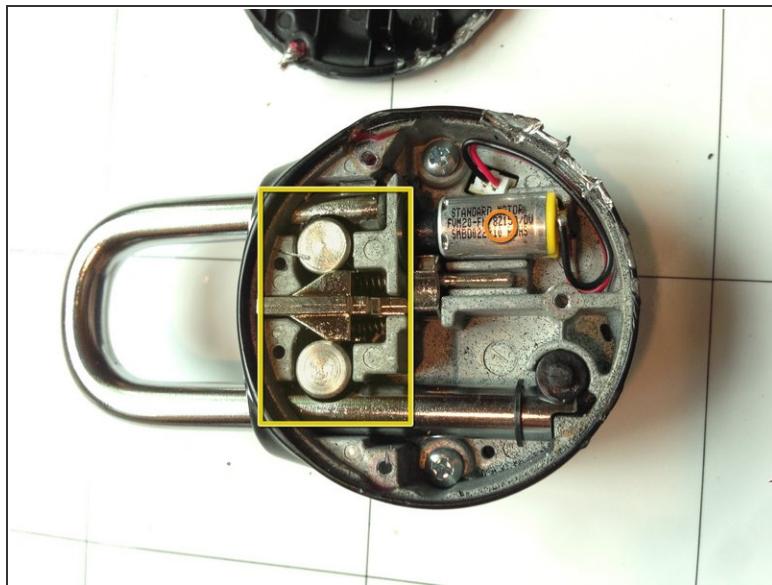
- A new lock, now with more buttons and less spinning!

## Step 2



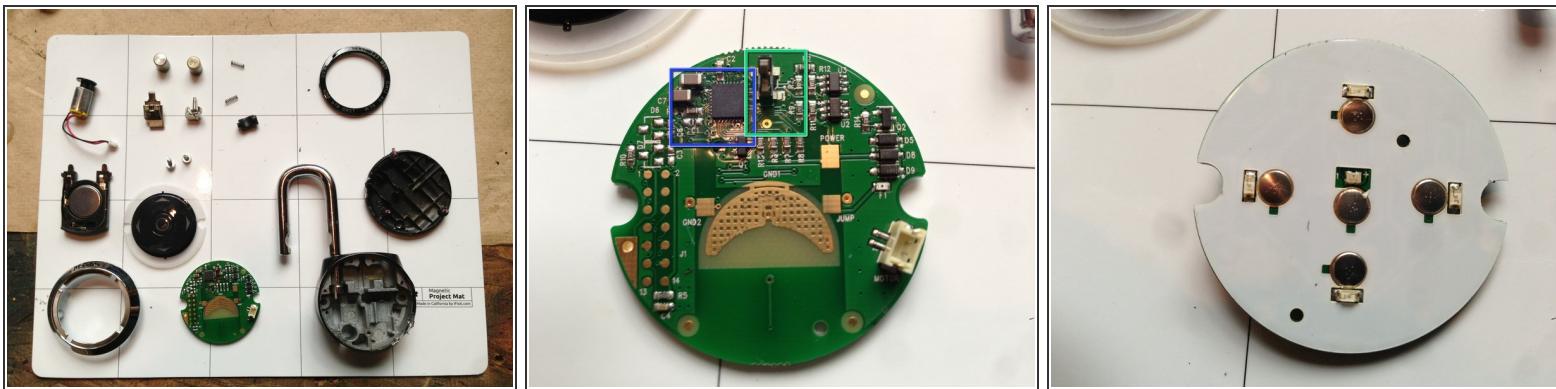
- Prepare lock for spuding
- Insert spudger and tap with hammer
- Gently pry until the lock opens

## Step 3



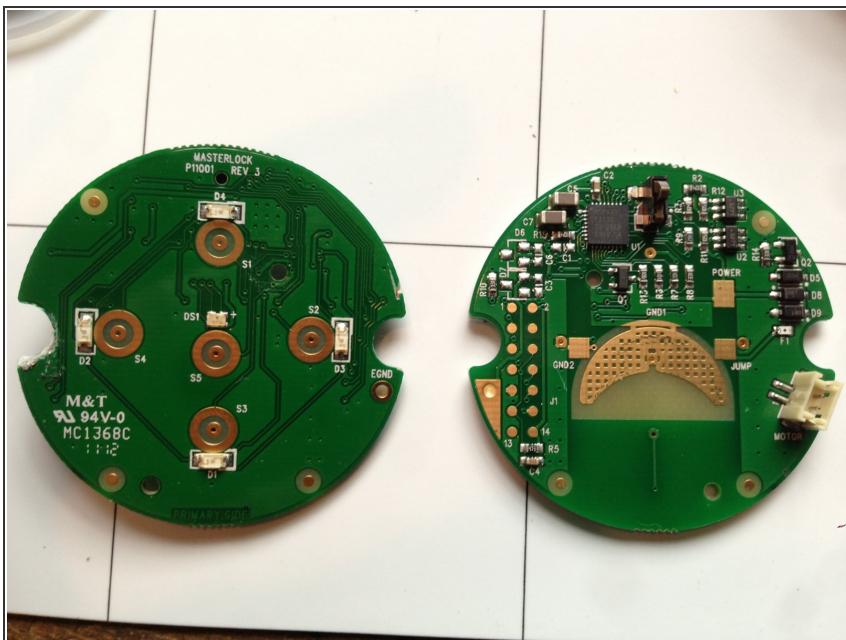
- Open lock with mechanisms exposed
  - Vibrator
  - Locking mechanisms

## Step 4



- Complete internals of the lock
- Main processing board
  - MSP430 based!
  - Servo that interacts with locking components
- Reactive buttons and LEDs

## Step 5



- The real lock PCB
- As a note, this device does not function as a lock once torn down. Repairability = 0.