

Component List and Sources

List A : The Microcontroller, the accelerometer and their wires:

All of the following are available on the Adafruit official site. Sign up on their site and simply add the following items to a wish list and then their cart, so that all of them ship together – saving time and cost

1. [The Ada-logger M0 Microcontroller board](#) . The programmable microcontroller which includes SD Card and battery operation and recharging capability
2. [A USB A to Micro B cable](#). It will be used to connect the Microcontroller to the computer to program it and charge the battery when it connected to the board.
3. [The LSM6DSOX Accelerometer + Gyroscope board](#).
4. 2X [The Stemma QT to Male headers cable](#). One end of the cable goes into the accelerometer board (reducing connections), the other end has easy to use male headers.
5. [Female to Male header extension cables](#). These will be used to connect the pressure sensor to the breadboard and female headers may avert the need to solder the pressure sensors.
6. [Male to Male headers jumper wires](#). These will be useful to connect components on the breadboard in the circuit.
7. [A pack of 10K ohms Resistors](#). Used for pull up and voltage divider purpose.
8. [A pack of 4.7K ohms Resistors](#). Used for pull up and voltage divider purpose.
9. [2x Latching Pushbuttons with LED](#)
10. [An 8 Gb MicroSD card](#). The microcontroller can hold SD cards but do not come with one in box.

The list B has two alternative stores. You can buy all the components in List B from any of the two sources. Both lists are identical in components. Exceptions are: Alternative 2 has a similar pressure sensor but from a (different) US based manufactures, Alternative 2 has similar breadboard but from a different manufactures.

List B Alternative 1: the breadboards, pressure sensor and battery

Via Mouser electronics store

1. [The LIPO Battery](#). Its compatible with the microcontroller above and connects with the board using the terminal:
2. [The RP C18 Film pressure sensor / FSR.](#)
3. [Solderless breadboard](#)
4. [Solderable Breadboard](#)

Note: I noticed that the stemma QT cable which is item number 04 in the List A had only few items left. If it does not get stocked by the time you order from that store, they can be bought from number 5 on this list from this store.

5. 2X [Stemma QT to Male Headers cable](#)

List B Alternative 2: the breadboards, pressure sensor and battery

Via the Digikey electronics store

1. [The LIPO Battery](#). Its compatible with the microcontroller above and connects with the board using the terminal:
2. [The FSR07BE Film pressure sensor / FSR.](#)
3. [Solderless Bread Board](#)
4. [Solderable Bread Board](#)

Note: I noticed that the stemma QT cable which is item number 04 in the List A had only few items left. If it does not get stocked by the time you order from that store, they can be bought from number 5 on this list from this store.

5. 2X [Stemma QT to Male Headers cable](#)