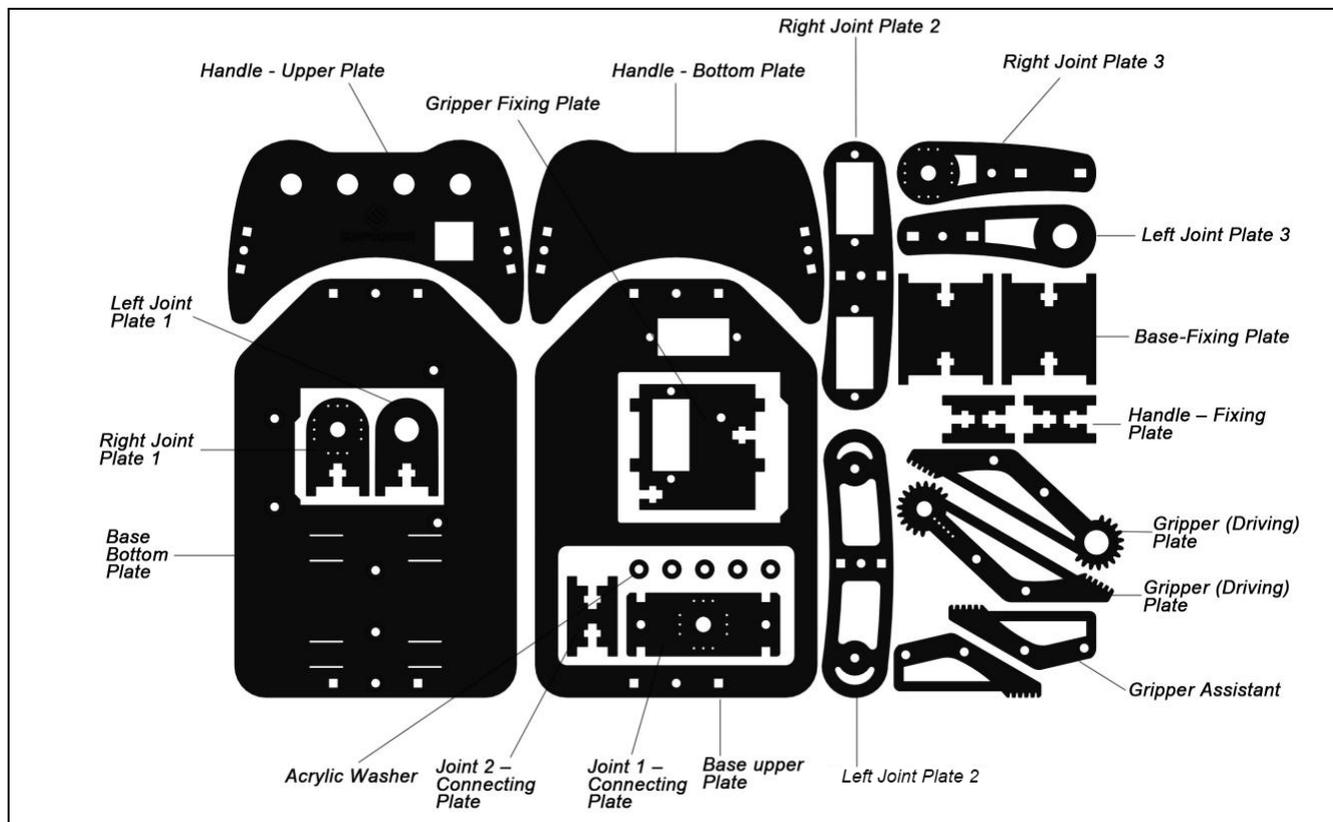# Quick Start Guide

Model RBA18

Robot Arm Kit for Arduino-Rollarm
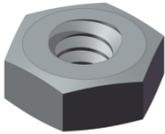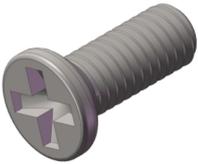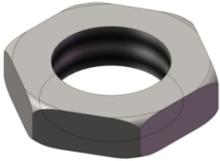
Components List

1. Acrylic Plates

2. Connecting Components

Name	Component	Qty.
M1.2*4 Self-Tapping Screw		14
M2*8 Screw		8
M2 Nut		8

M3*8 Flat-Head Screw		2
M3*8 Screw		10
M3*10 Screw		18
M3 Nut		20
M7 Thin Nut		4
M3*10*1 Washer		1
M3*10 Aluminium Tube		5
M3*6 Corn Rivet		2

φ3*φ8*4 Band Edge Bearing		3

3. Electronic Components

SunFounder Servo (9g)		2
DXW 90 Servo (9g)		2
Potentiometer Button		4
Push Button		1
2*18650 Battery Holder		1

SunFounder UNO		1
Expansion Board		1
Potentiometer Module		1
USB Cable (UNO)		1
RJ11 Cable		2
Ribbon		1
3M Non-skid Pad		4
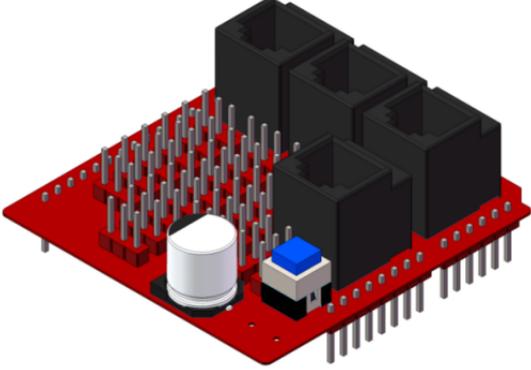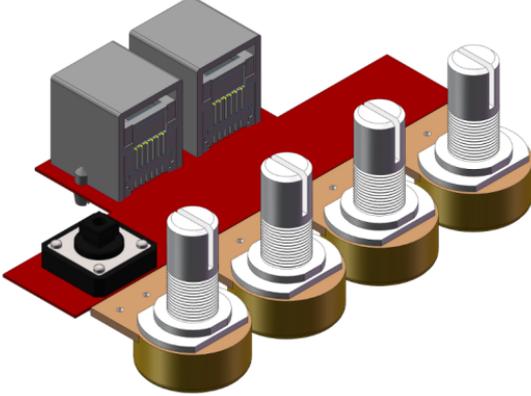
Heat Sink Tubing		2
Cable Clip		2
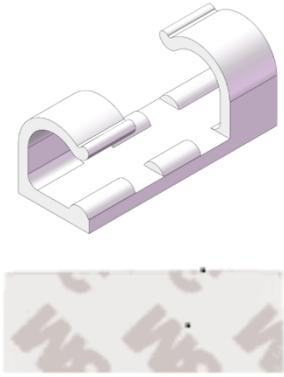
4. Tools

Screwdriver		1

5. Batteries

18650 Battery		2

6. Battery Charger

Battery Charger UL Approved		1

Resources

1. **Download and install the** Arduino IDE for your system from here:
   https://www.arduino.cc/en/Main/Software

2. **To download the programs that run on Arduino for the Robo-Arm, go to**
   http://v3.hamiltonbuhl.com/uploads/roboarm/DIY_Control_Robot_Arm_kit_for_Arduino-Rollarm.zip

   - Download the zip file to your local hard drive and open.
   - Reference the detailed instructions when you install these files.
   - For a complete set of instructions, go to the Instructions folder and open the PDF or watch the video (see links below)
   - Each program below should be uploaded separately when your robot is ready to program for each function.

   Inside the folder you will see:

   DIY_Control_Robot_Arm_kit_for_Arduino-Rollarm
   a. **ArduinoCode Folder:**
      - Arduino Code/Servo/Servo.ino is the installer for powering the servos
      - Arduino Code/LIFA_Base /LIFA_Base.ino is the communication between Labview Software and Arduino
      - Rollarm/Rollarm.ino is the control for servos and has three sub-programs that will open automatically when you open the main program: Rollarm.ino.

   b. **Instructions Folder:** Contains the full Instruction Manual for RoboArm
   c. **Schematic Folder:** Contains diagrams for board set up.

3. **Labview software to control the robot from your PC can be found here:**
   http://v3.hamiltonbuhl.com/uploads/roboarm/Labview.zip
   Double-click the setup.exe file to install.

4. **Below are links to helpful instructional and installation videos:**
   http://v3.hamiltonbuhl.com/uploads/roboarm/videos/RoboArm-Part1.mp4

   http://v3.hamiltonbuhl.com/uploads/roboarm/videos/RoboArm-Part2.mp4

One Year Warranty

Warranty begins the date item ships from our warehouse. All products have a one-year warranty from original date of shipment, unless otherwise noted.

80 Little Falls Road
Fairfield, NJ 07004
1-800-631-0868

www.HamiltonBuhl.com