Orduino Quick Start

WARNING: Any failure to follow these warnings can lead to permanent damage of the Orduino.

Do not power the board without all motor drivers connected. (Extruder 2 can be left disconnected, if it is not enabled in the firmware)

Take the proper precautions to avoid any static discharge on the board.
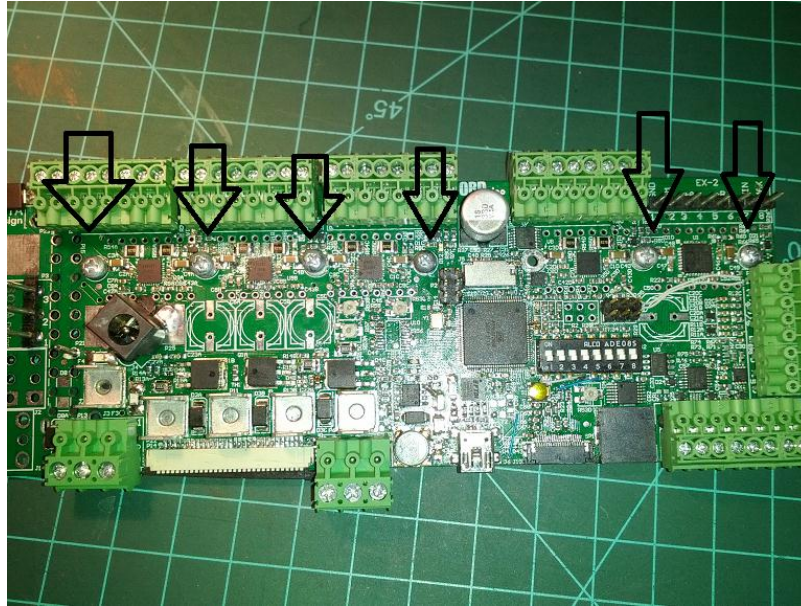
Power on checklist

1. Make sure the connections on the back of board are not touching the base plate.
2. Check all terminal blocks for shorts / loose wires
3. Leave all DIP switches in the off position.
4. If using a flex cable for the hotbed, make sure it is properly connected on both sides.
5. Make sure the Vmotor is connected to the Vin. (Pin 1 and 3 connected on terminal block P3)
6. Connect the USB cable to the controller before turning on the main power

Installation instructions

1. Install the screws and washers (skip this step if the screws are already installed)
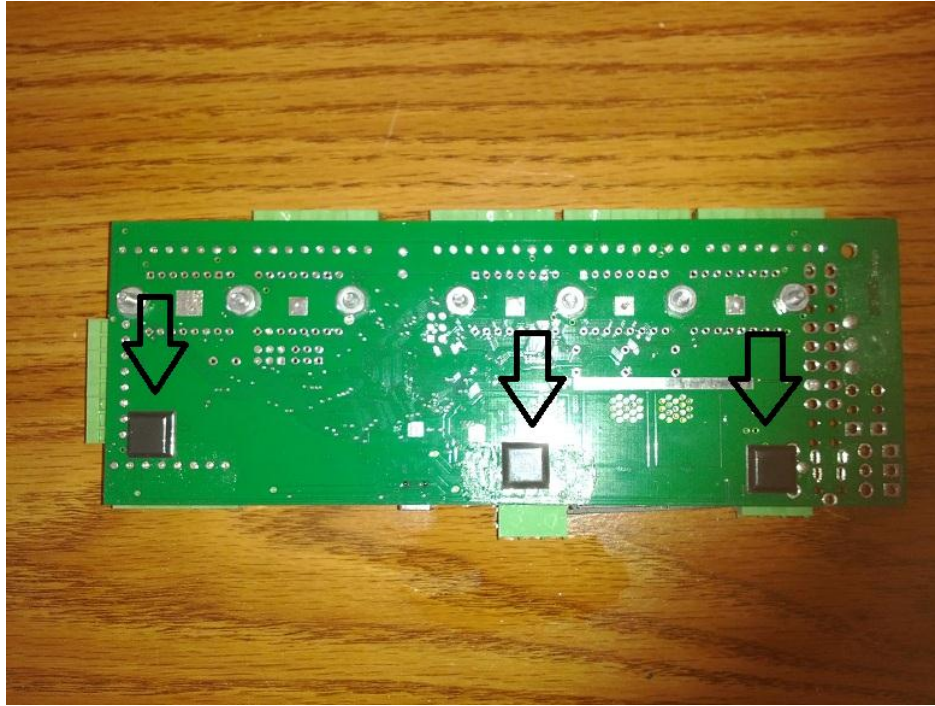
   There should be 6 screws, 6 plastic washers, and 12 nuts.

   Install the screws in the following locations. The screws will be tight in the holes; extra care must be taken when installing them. Use a screw driver and do not over tighten the screws as this may damage the board.

On the back of each screw install the provided washers, and one nut for each screw. Only hand tighten the nut, as any over tightening of the nut can cause damage to the board. The other nut will be used to secure the board to the printer.
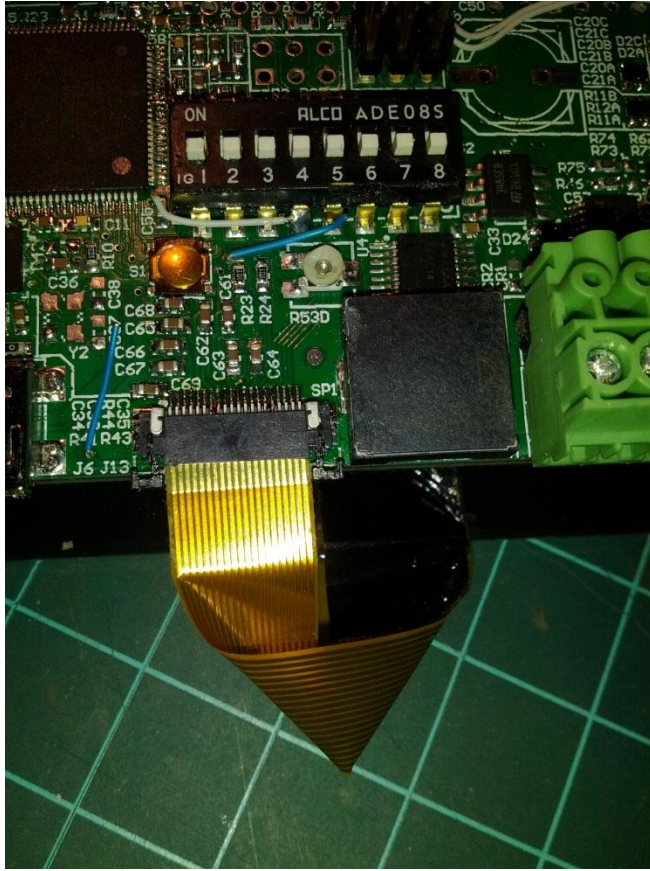
2. Attach the rubber bumpers as shown below. **NOTE:** IF there are any pins protruding on the back of the board, Check to make sure there is enough clearance when installed on the mounting plate so that the pins are not in danger of touching the metal plate. If in doubt, carefully trim them with sharp side-cutting wire cutters or a trim them down with a small file before permanently installing the board or powering it up for the first time.
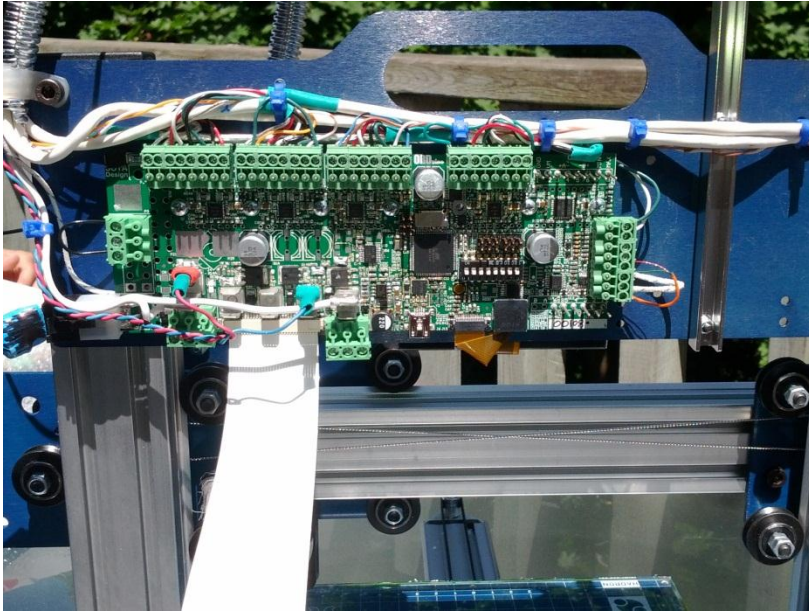
3. Mounting the board. Below is an example mounting of the Orduino.
   NOTE: The LCD bottom should be level with the bottom of the controller, to allow enough room for the cable to bend properly. The gold plated tip of the ribbon cable should face upwards from the board when in the socket.
   NOTE: If the ribbon cable is used with the hot bed, the gold plated tip of the ribbon cable should face upwards in the socket.

4. Electrical Connections, The diagram below illustrates the electrical connections of the Orduino.