

Xbox
One

Arbiter4

power speed control



Install guide

Start by taking apart the controller (Please see disassembly video at <https://www.youtube.com/watch?v=ZhkQKwrwNV4>).

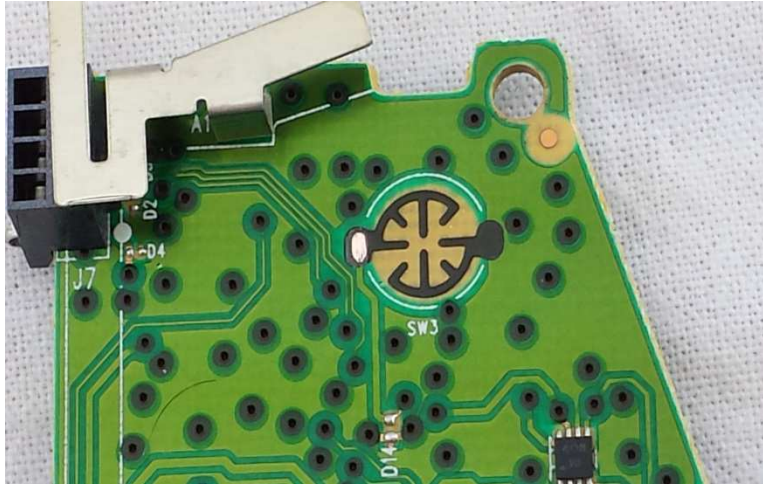
To make install much easier we recommend removing the main rumble motor wires and the trigger motor wires too.

After removing the Shell, the controller should look like this.



**Remove the Rumble cables from the Triggers and Rumble Motors.
After removing the wires add solder to these connections ready for reassembly.**





Make sure that the connections on the Arbiter 4 chip are solid and not dry joints. It is easy to make dry joints that appear good but break very easy. If you get dry joints the chip will not work.

Also make sure that you have no joins between each pin on the chip.

Start by scraping off the carbon on the B button as shown here.

Then Tin the connections on the two connector blocks as shown below. As you look at the board, the left hand connector block is bottom row, 3rd from the left.

The right hand connector block, bottom row is pin 2, 4 & 5. Top row is Pin 2, 3, 5 & 6. Also Tin the B button ready. Doing this prep work will make the joints much easier when soldering the board on.

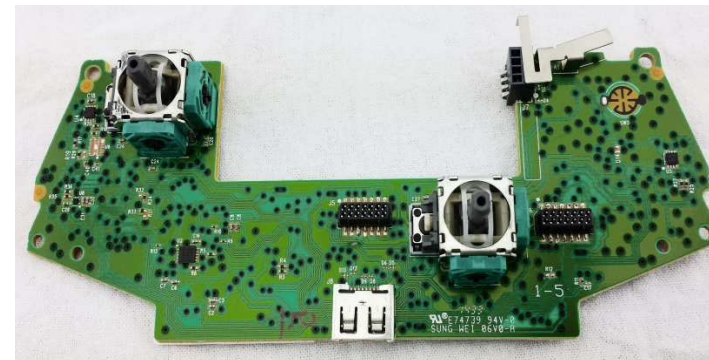
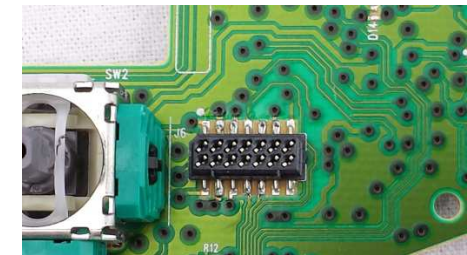
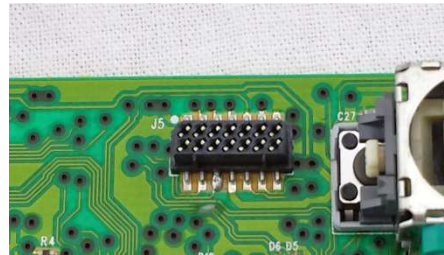
Then place the Arbiter 4 board over the controller and line up the gold pads with the pads of the 2 black connector blocks as accurately as possible. You can hold down the board with tape or tack while you make your first few connections.

Next solder the B button pad at the top right to the copper you exposed earlier by removing the carbon from the B button pad.

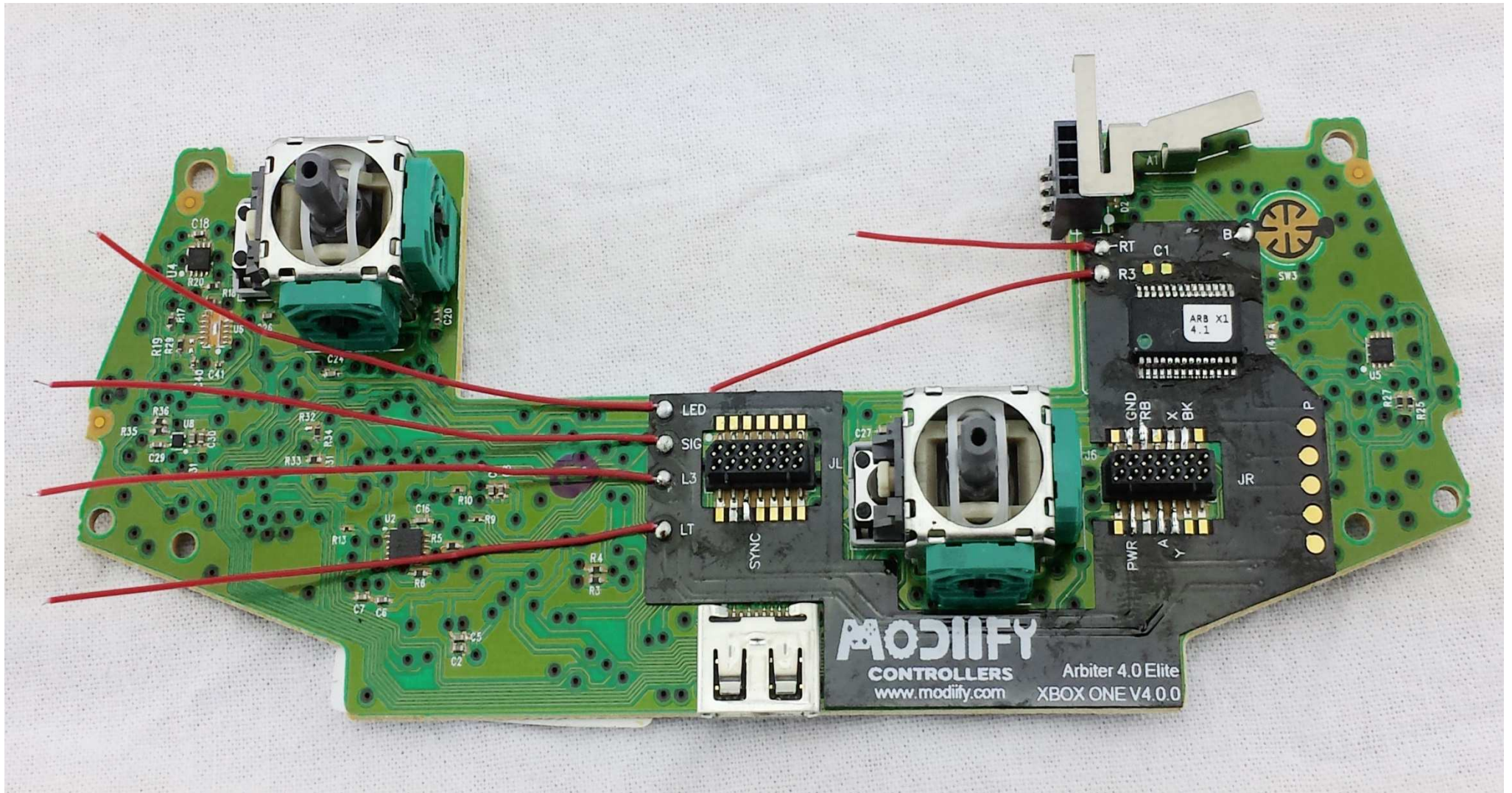
Then connect the sync connection, left connector block. This will also hold the board in place as its soldered in both corners. Then proceed and solder the other connections.

Check all of you connections are solid before proceeding.

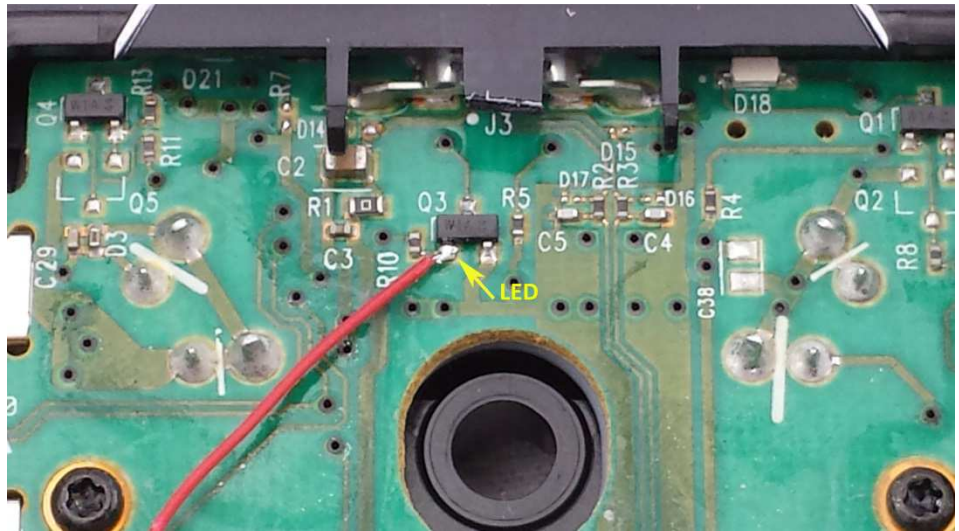
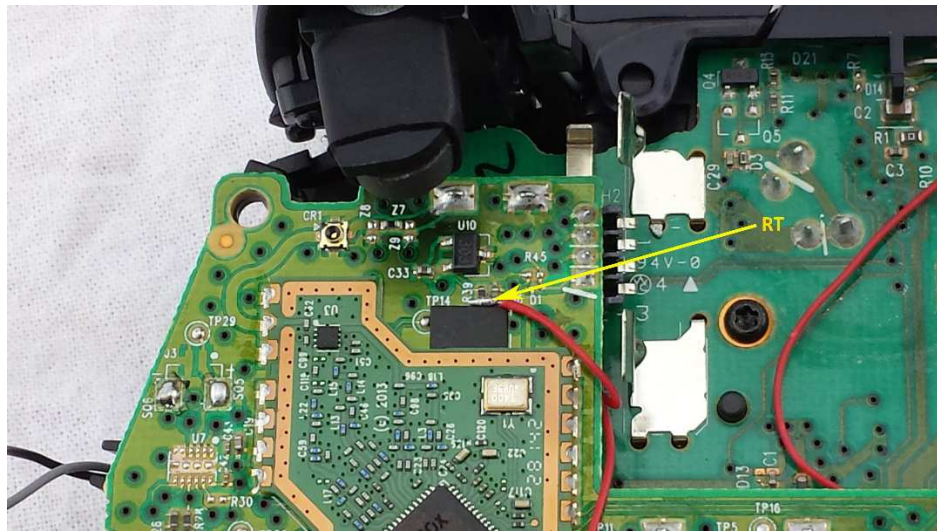
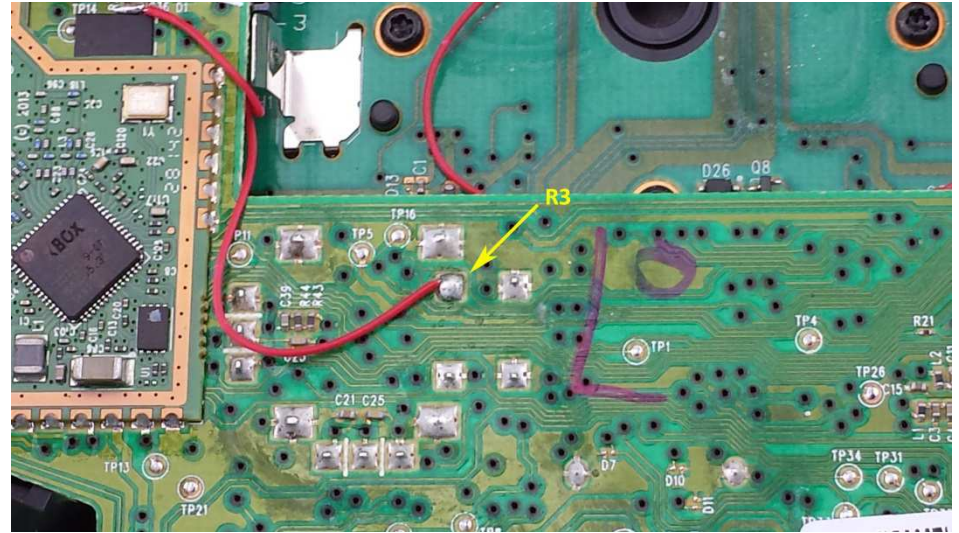
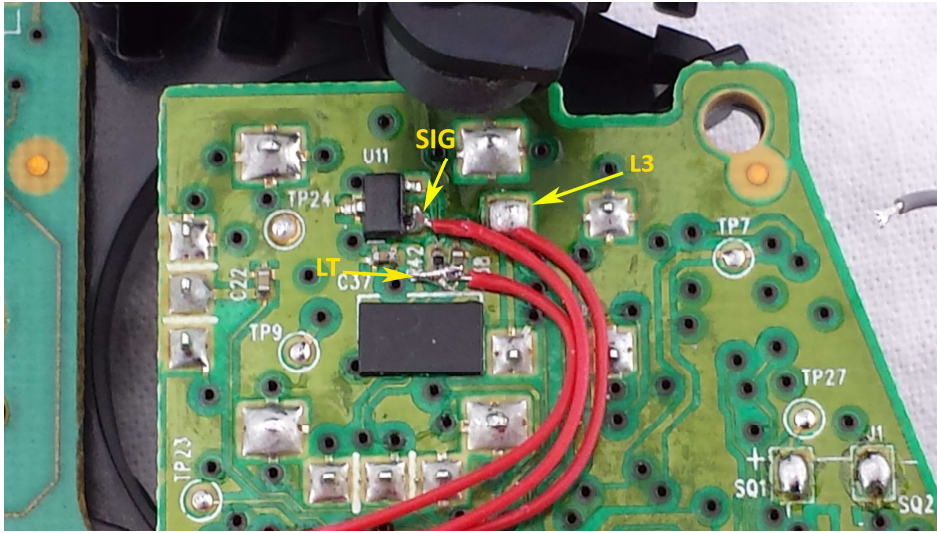
The final step is to attach the wires for the RT, R3, LED, SIG, L3, Ground and LT pads. Your board should come pre-attached with wires on the pads, but if not attach wires to each gold pad before turning the board over.



Here is the Arbiter 4.0 board soldered to the Xbox One Board.



Attach the wires for the RT, R3, LED, SIG, L3 and LT pads.



Note that for the RT and LT connections, the bottom pin of the resistor (left) and capacitor (right) are joined, so you are ok to connect the wire going over both pins like we do.

Once done build up and test. The controller must be synchronised and connected to an Xbox One console before it will work. Once connected the guide LED should be solid on. Now tap the sync button and the LED should flicker rapidly several times.

If that works you are ready to test based on the User Manual

If you get no response at all, check the connections are good and not dry. It is easy to get a dry joint for power or ground that look ok but break if you pull them slightly. If you do not have good connections the chip will not work.