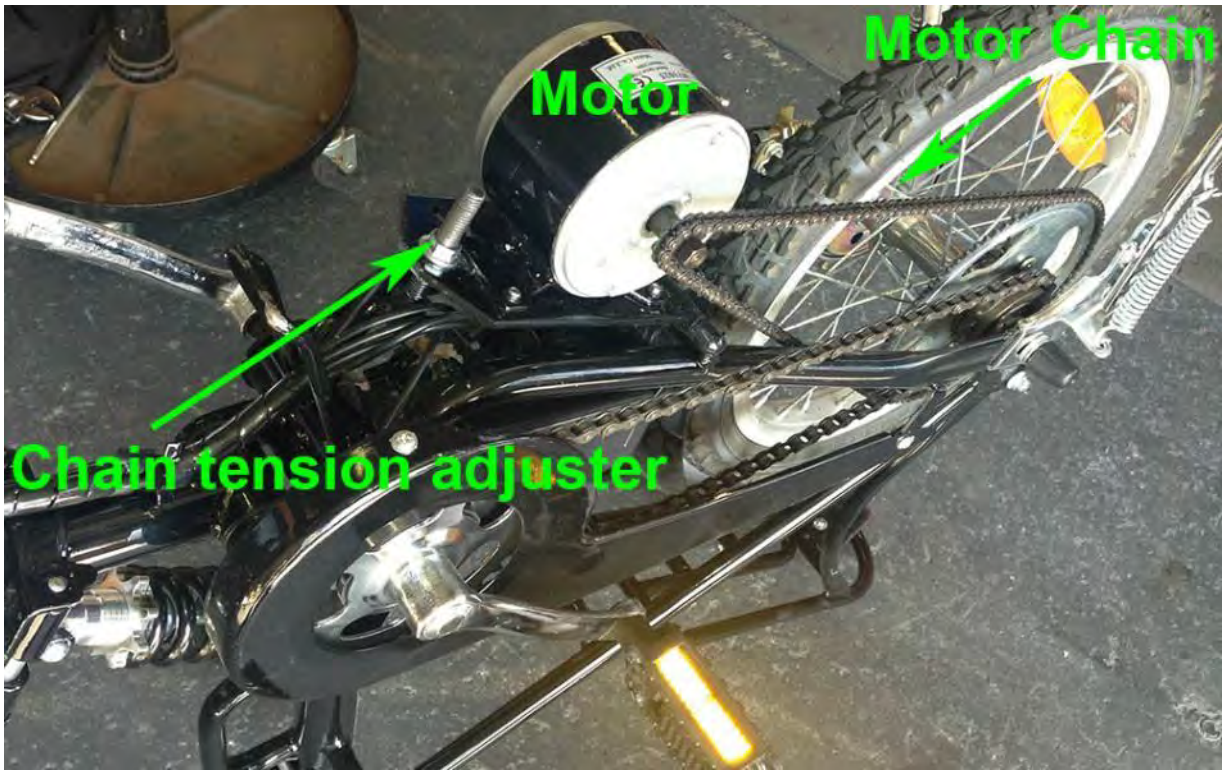
MOTOR CHAIN TIGHTENING AND CONTROLLER REPLACEMENT

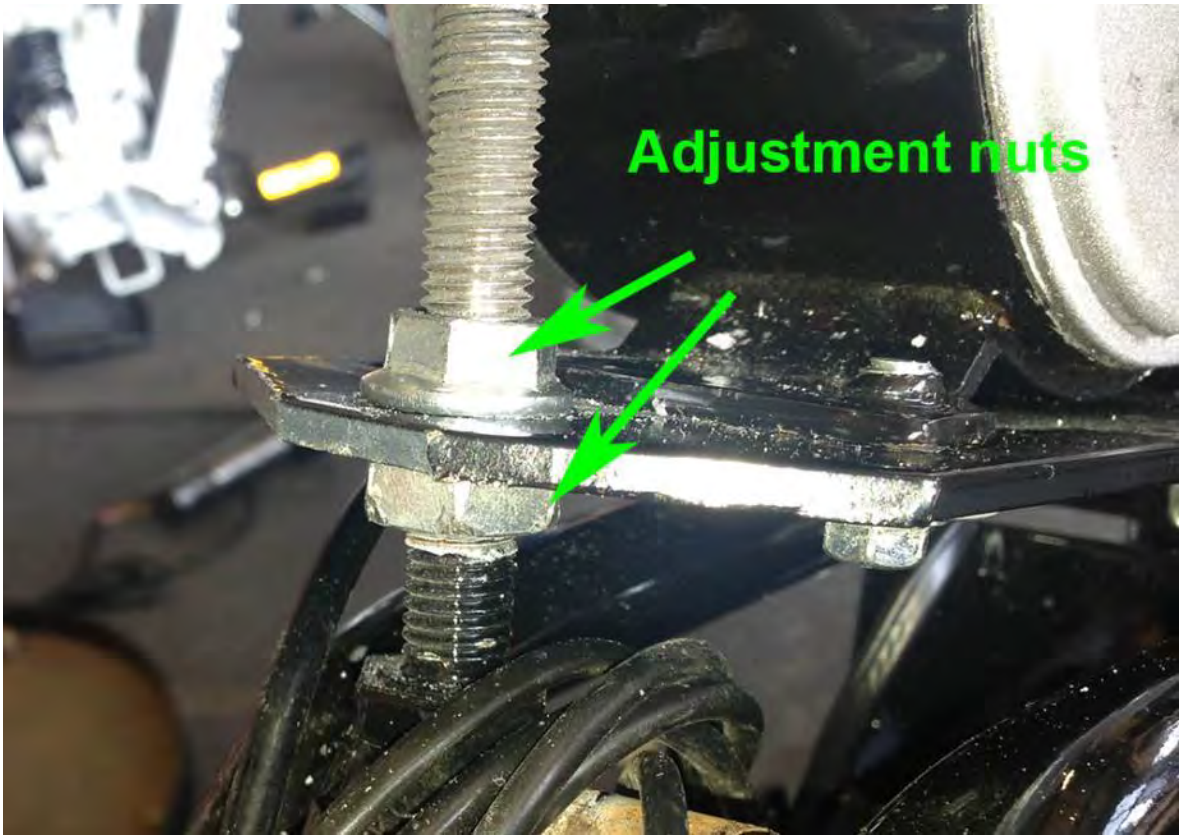
For tightening the motor driver chain independently, here is the procedure:

If you look at the motor, you will see it is mounted to a metal plate that pivots at one end. That plate is held in place by a large vertical bolt that goes through the plate and holds the plate with a nut on either side of the plate (top and bottom). By loosening and tightening those nuts, the plate holding the motor pivots which tightens and loosens the motor chain. You firstly loosen the top nut (screwing it upwards) and then tightening the bottom nut (screwing it upwards also).

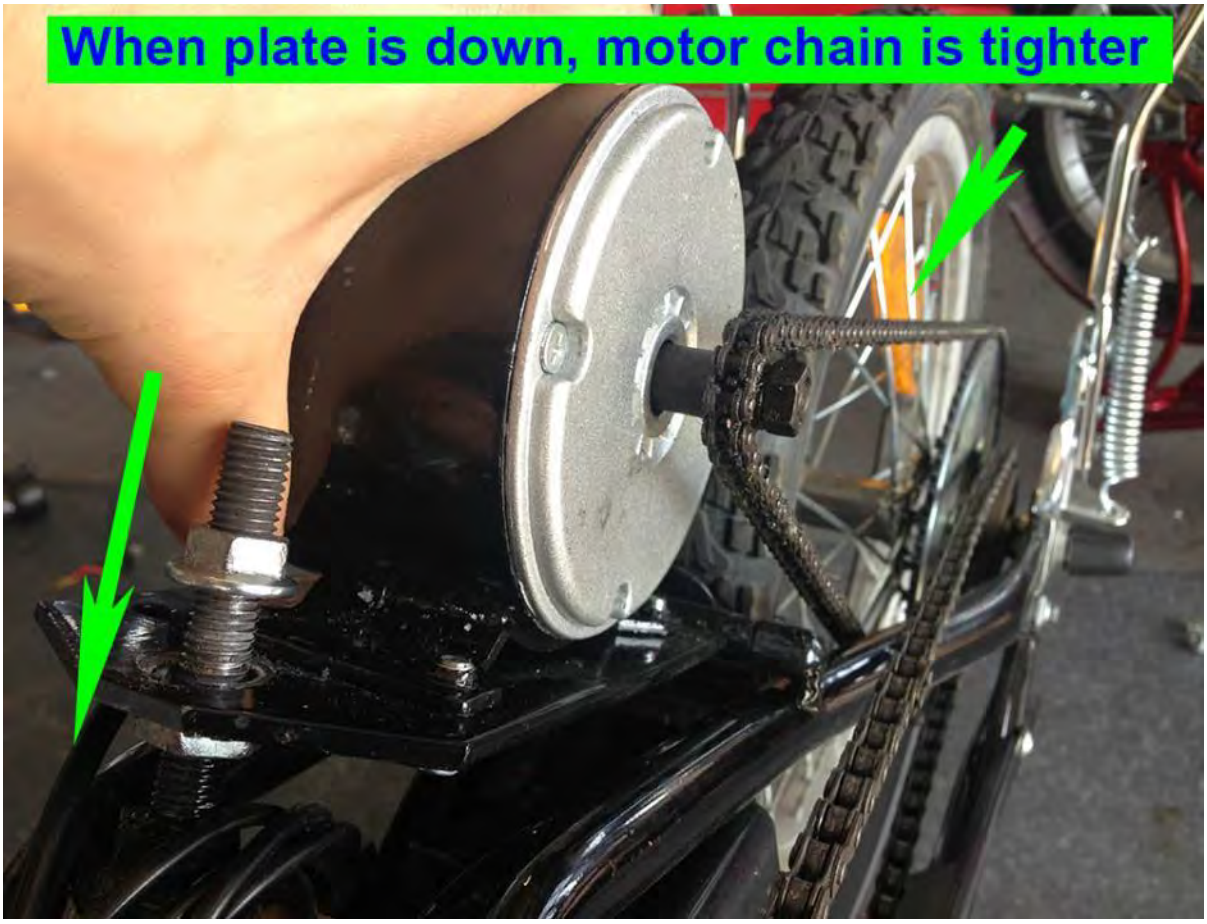
Only a small adjustment in this system is required to change the tension of the chain substantially.

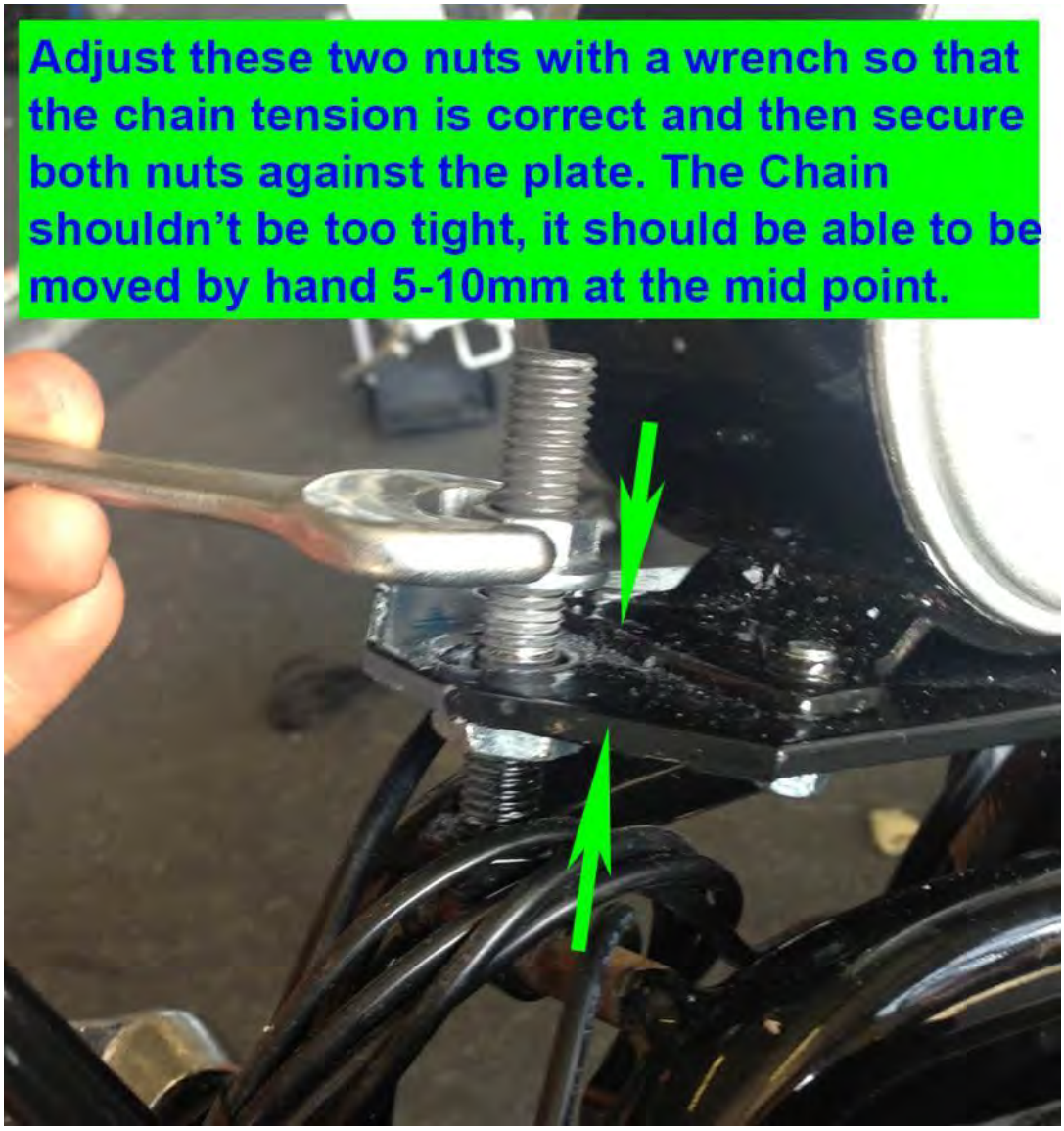
Please make sure you don't over tighten it.




Adjustment nuts


When plate is further up, the chain is loose


When plate is down, motor chain is tighter


Adjust these two nuts with a wrench so that the chain tension is correct and then secure both nuts against the plate. The Chain shouldn’t be too tight, it should be able to be moved by hand 5-10mm at the mid point.

CONTROLLER & MOTOR REPLACEMENT:

Please note that there are several revisions of controller, yours may not look as pictured but the process to change it will be the same.

Firstly, remove the battery.

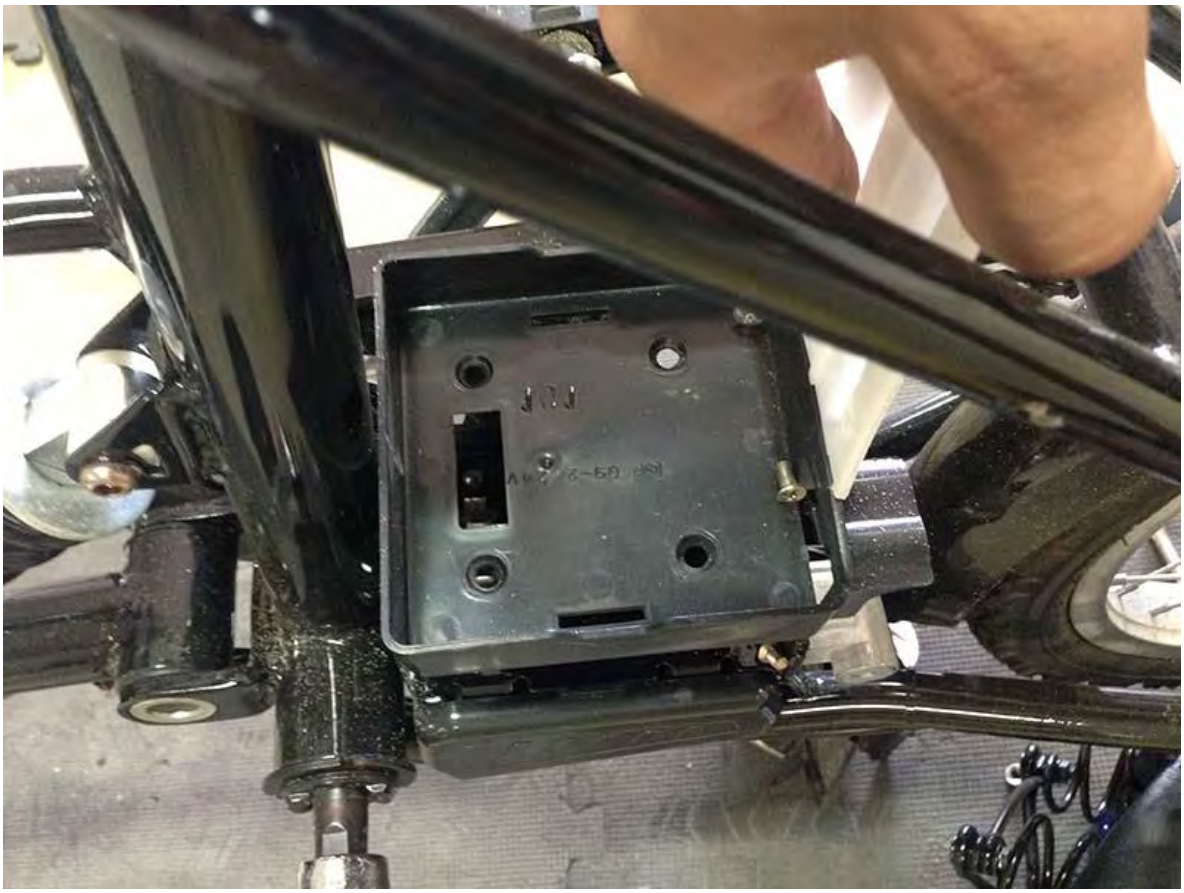
Unscrew the screw shown in this picture with a Phillips head screwdriver:

Once the screw is loose, remove the nut on the opposite side (picture of nut removed):

Now unscrew these 4 screws with the same screwdriver:

Picture of screw removed:

Now you can remove the battery guide rail and battery seat (all one unit):

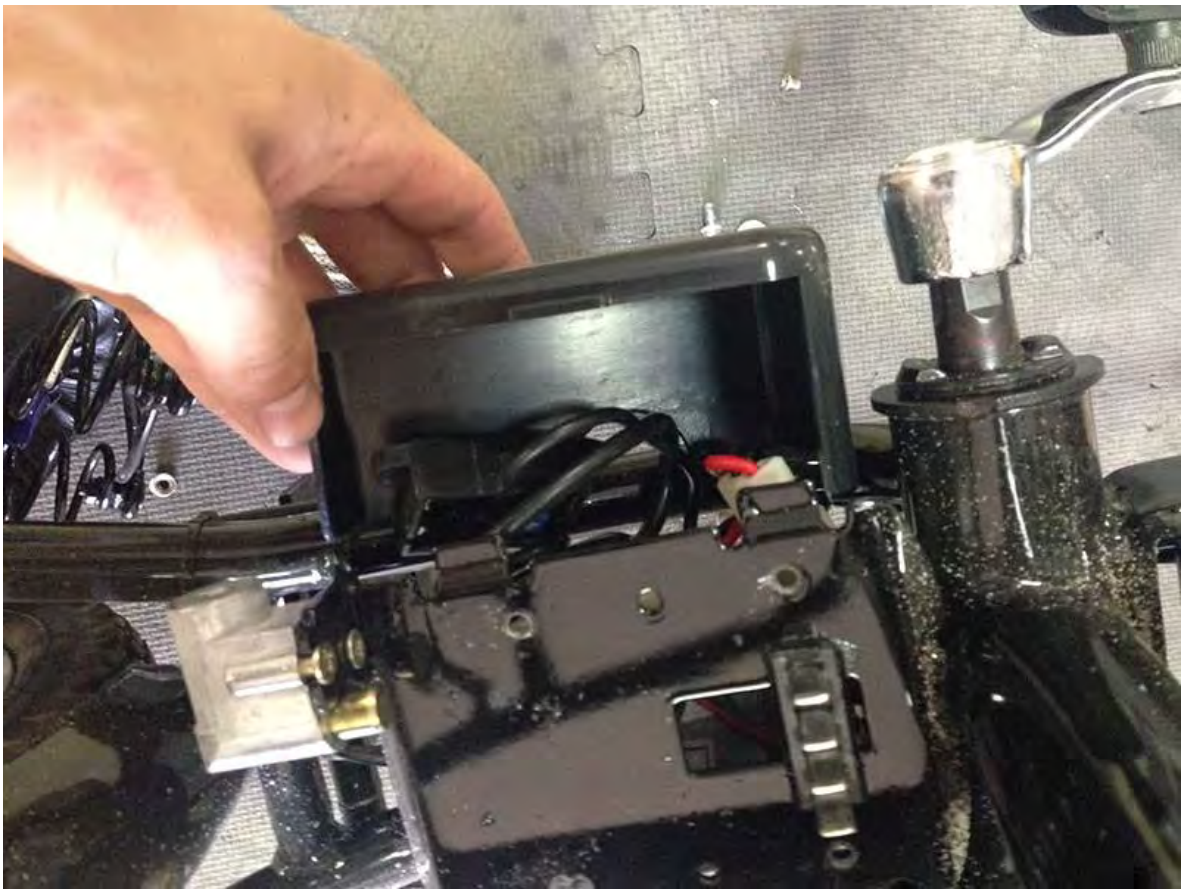


Picture of battery guide rail/battery seat removed:

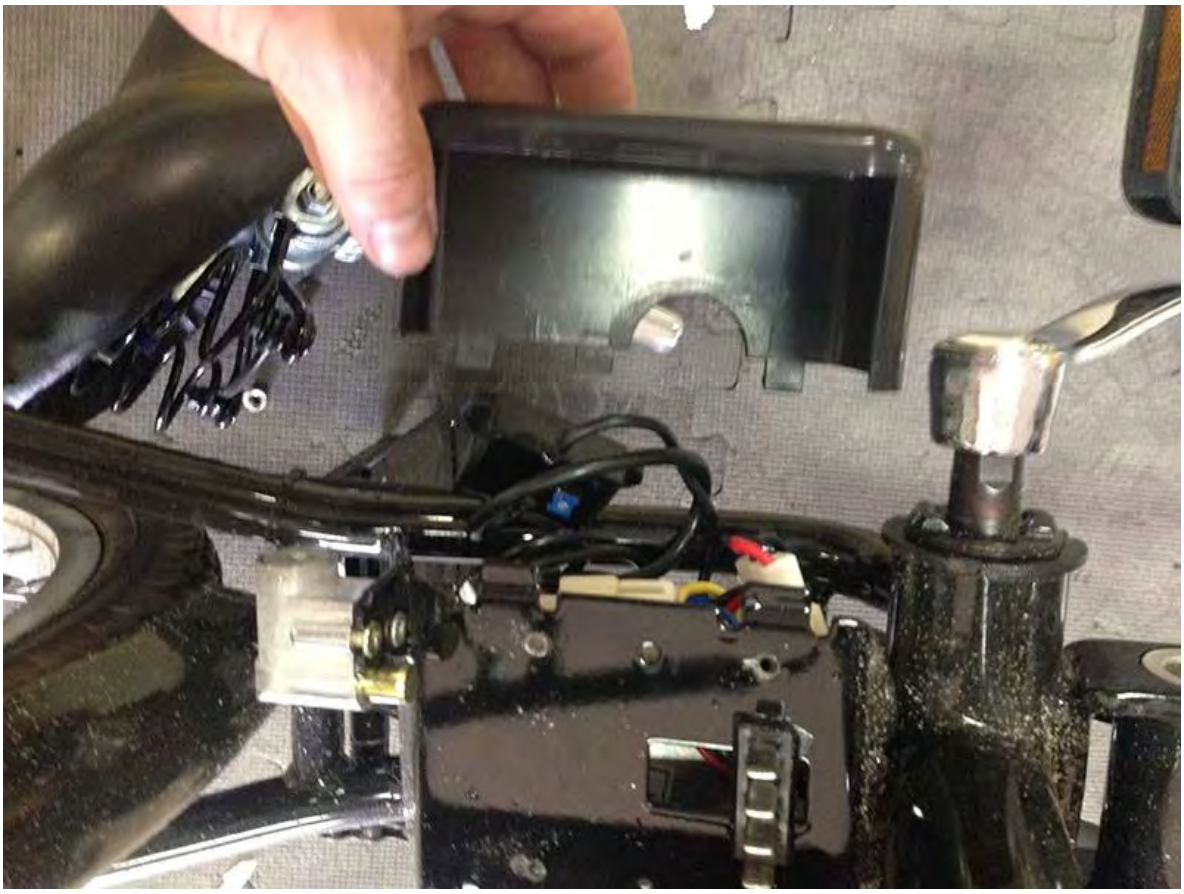
This is what is exposed once that item is removed:

Please note, before you remove the 4 pin plug shown here, look to see which way around the red and black wires are, as this will have to be remembered when putting it back together.

The plastic casing of the controller is split into 2 pieces that are removable. It is easiest to remove the casing on the left side of the bike, as if you were sitting on it. Some force is required to part the 2 sides of the casing as they ‘clip’ together:



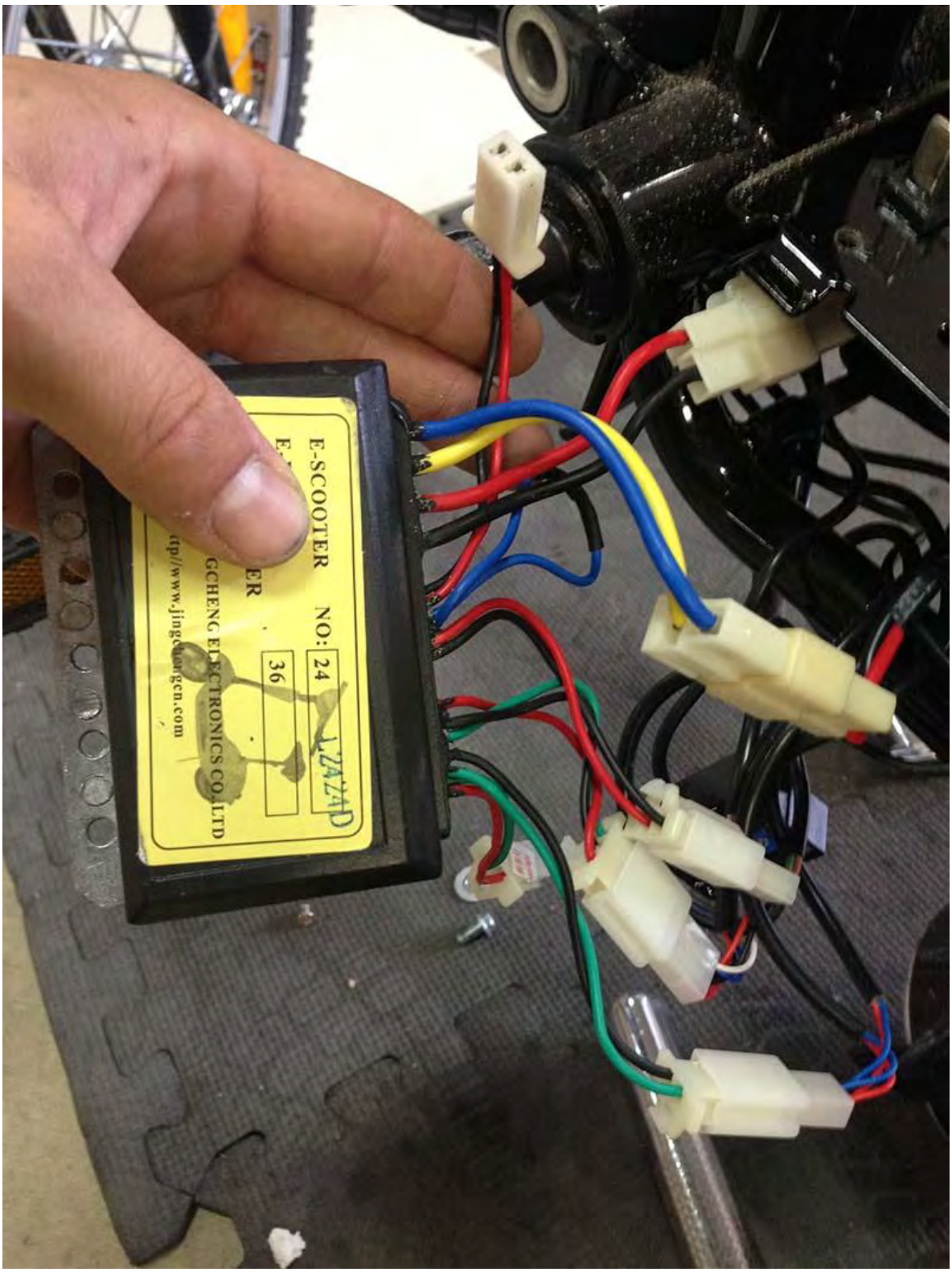
Removing one side of the plastic controller casing:



View inside the controller cavity:

The controller can be removed (your controller will look different to this photo):

If you are replacing the controller, the plugs come apart easily. Just make sure you only change over 1 plug at a time, so you don't get the plugs mixed up. If you're replacing the motor, it is the blue and yellow wired plug from the controller. Your controller might look different from this picture (continuously developed on an ongoing basis).



For reassembly, please follow these steps in reverse. Make sure that all the wiring is contained in the controller cavity, so that the 2 plastic casings can fit back together properly being careful not to pinch or damage the wiring in the process.

When the plastic casings are going back together, make sure that all of the wires are out of the way so that the 2 casings can come together unobstructed. At the bottom of the casings are 2 clips that latch together once the casings are correctly aligned.

Please also note that the polarity (0V and +24V) of the battery connectors DOES MATTER, make sure that the red and black are reassembled in the same way they came apart.