



Installing New Electronics

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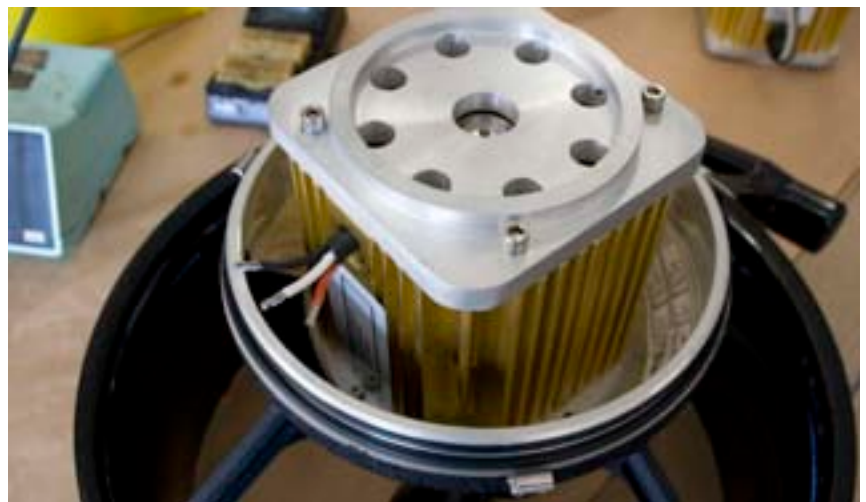
Problem: The Electronics have become damaged and need to be replaced. If you are unsure whether your electronics need to be replaced, contact Dive Xtras. These instructions show you how to reinstall the new electronics after the old electronics have been removed. This document shows a CUDA, all X-Scooter electronics are installed the same way.

The tools needed for this repair are:

- One Soldering Iron (approx. 40W)
Do not use small Electronics Iron's
- Soldering Flux
- Solder
- Heat Gun
- Shrink Wrap
- 3mm Allen Wrench
- Pliers



You will need to remove the old electronics from the motor wiring. The longer the motor wiring is the better. Strip the wires 1/4 inch, they should look like this.





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Install your electronics bracket if your X-Scooter does not have one installed already. When purchasing your electronics make sure to tell Dive Xtras if you need one.

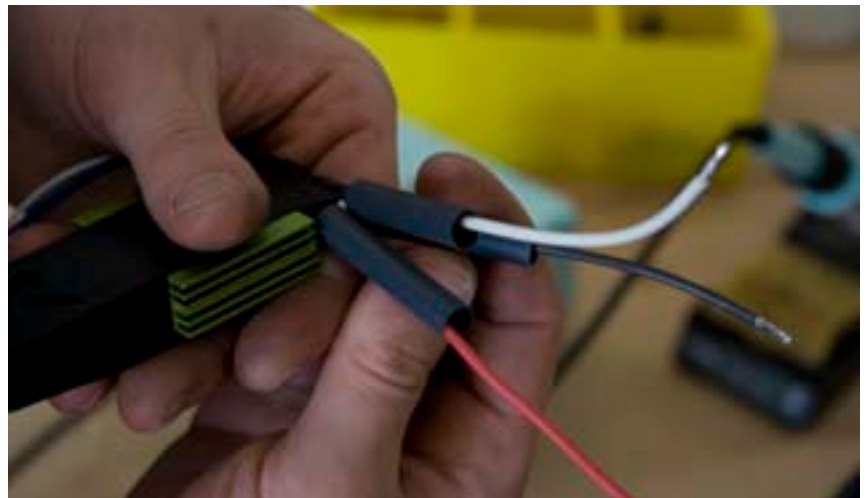
With the motor wires facing you, install the bracket on the right side of the motor. This side prevents the tangling of wires. Use your 3mm Allen Wrench to undo the motor mount bolt.



Tin Both the motor and electronics side wires for easier soldering process.



Make sure to put shrink wrap on the wires before soldering, the shrink wrap protects the wires from contact and corrosion.





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Solder the corresponding wires together, make sure that white goes with white, black and black, red and red. Use ample solder, you want a secure bond.

Note: If you have an older Sierra Scooter, wire the colors as per the original electronics. They may not be matched colors.



Hold the wires together in the position shown till the solder dries. If the bond is weak, add more flux and solder to create a secure bond.



Slide the shrink wrap evenly over the joint and solder the rest of the wires.





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Make sure all the joints are in the middle of the shrink wrap, use a heat gun to shrink the sleeves onto the wire and joints.



The shrink wrap should be tight against the wire and joints.



Slide the electronics onto the bracket. The bracket should go in the third gap on the heat sink as shown. Make sure the reed switch wires are not pinched. Install the reed switch and make the necessary adjustments.





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With the Reed Switch's clasp undone, carefully slide the switch onto the trigger tube. Make sure the wires are facing the motor as shown.



Rotate the switch so the clasp is facing up.



When you are satisfied with the position of the reed switch, use your pliers to secure down the reed switch. It usually helps to hold the bottom of the reed switch to prevent damaging it.

Plug in the battery and run the motor. If the motor spins backwards swap any 2 wires and it will run properly. If the trigger is not working properly than refer to the reed switch guide.

