

Envelope-to: jim@jakirk.com  
Date: Fri, 06 Jan 2012 08:19:19 +1100  
From: Stealth Electric Bikes <info@stealthelectricbikes.com.au>  
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To: Jim Kirk <jim@jakirk.com>  
Subject: Taking your motor apart  
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Hi Jim,

Here's a rundown of how to get that motor apart. Just pay attention to which cover we're removing in the pics. ie. You need to remove the stator and the cover with the wires that come out all at the same time. You will feel some magnetic resistance when you're pushing the center of the motor out but push down hard and then lift the center out via the axle. We usually screw the nut on to the end of the axle so that you've got somewhere to lift from.

Also check the stator while it's out and you'll see where there's 3 sensors glued in there.... sooner or later you might need to change one of those, so it's good to know where they are when you get to that. Might not happen, but it also might.

Be careful when reassembling because as you drop the stator in the magnets will take hold and the stator will pull hard into the hub. Just make sure you hold it by the axle and your fingers are out of the way.

I'm hoping that you can see something obvious upon first inspection. Whatever it is will be very minor.9

I'm not sure if you want to wait till the new one arrives or just get straight into it.. up to you.

**HERE IS THE PROCEDURE. BE VERY CAREFUL WHEN YOU REMOVE THE CENTER (STATOR) BECAUSE IF YOUR FINGERS ARE BETWEEN THE STATOR AND THE ROTOR OF THE WHEEL AND THE MAGNETS TAKE HOLD YOU WILL LOSE YOUR FINGERS**

### **STEP 1**

**REMOVE ALL OF THE BOLTS FROM THE DISC BRAKE SIDE OF THE MOTOR**





### STEP 2

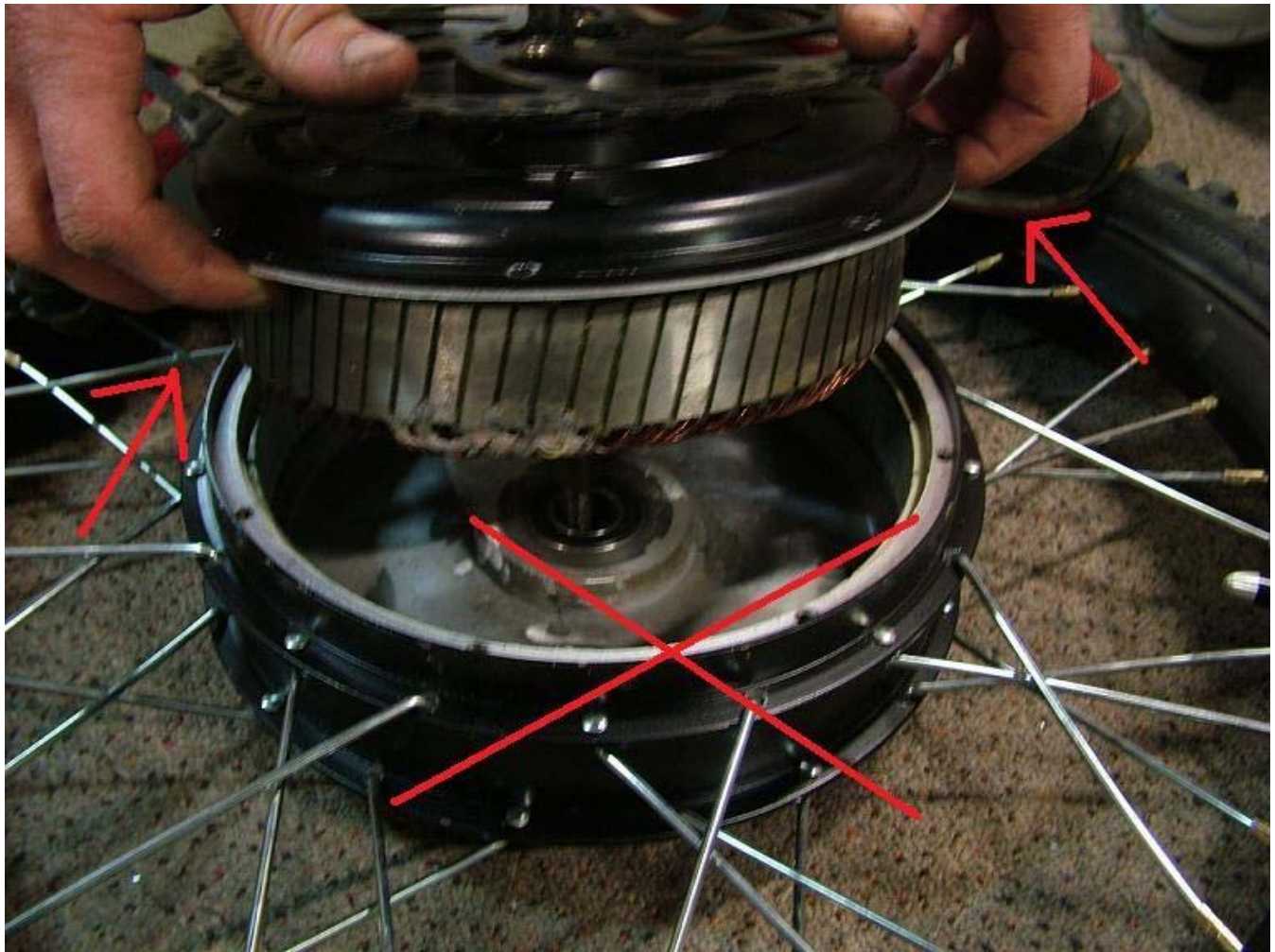
PLACE A PIECE OF WOOD ON THE GROUND AND PUSH WHEEL DOWNWARDS WHICH WILL PUSH THE AXLE UPWARDS AND IT WILL ALLOW THE CENTER TO POP UP. FOR THE FIRST TIME THERE MAY BE SOME SEALANT HOLDING THE DISC BRAKE COVER DOWN SO YOU MAY NEED TO PUSH VERY HARD... EVEN BANG THE AXLE ON TO THE WOOD. YOU WILL FEEL THAT THE CENTER IS MOVING AND PUSH HARD UNTIL THE CENTER IS COMPLETELY UP.





**STEP 3----- THIS IS VERY IMPORTANT**

**NEVER PLACE YOUR FINGERS BETWEEN THE STATOR AND THE ROTOR**







**STEP 4**

**INSPECT THE ROTOR AND THE MAGNETS FOR DAMAGE OR SCRAPING.**