



Sky Viper v950HD Motor Replacement with Quick Connect Motor

Sky Viper v950HD Motor Replacement with Quick Connect Motor without soldering.

Written By: Miguel Rodriguez



INTRODUCTION

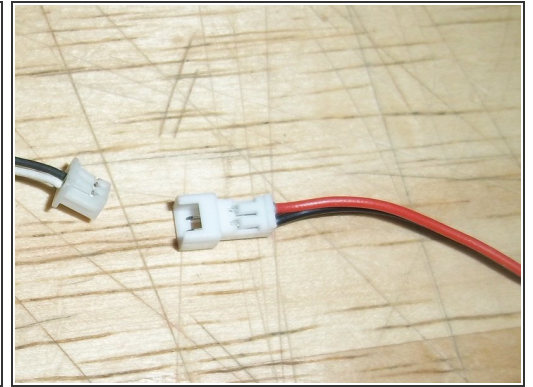
New motors and Gears from the Company are out of stock. Provided your gears are fine, I will show you how to replace a motor with a quick connect motor.



TOOLS:

- [Phillips #0 Screwdriver](#) (1)
 - [Heat Gun](#) (1)
 - [Heat Shrink Tubing Assortment](#) (1)
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Step 1 — Motor



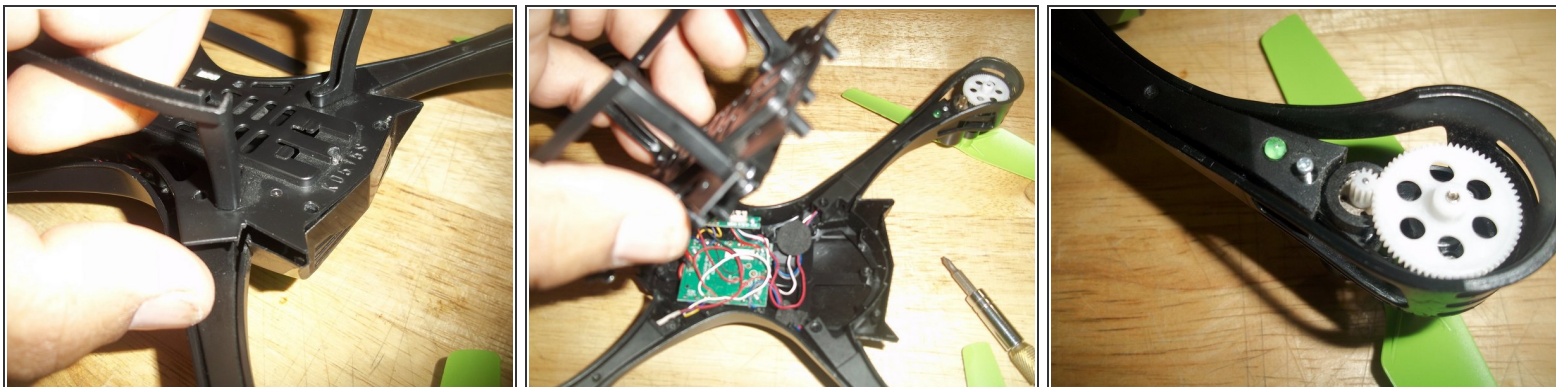
- First you will need a Phillips PH0 screwdriver, shrink tubing that fits the thin wire, heat gun or lighter, Female Mini JST plug, and new or harvested motor (WLToys V949 motors work well).

Step 2



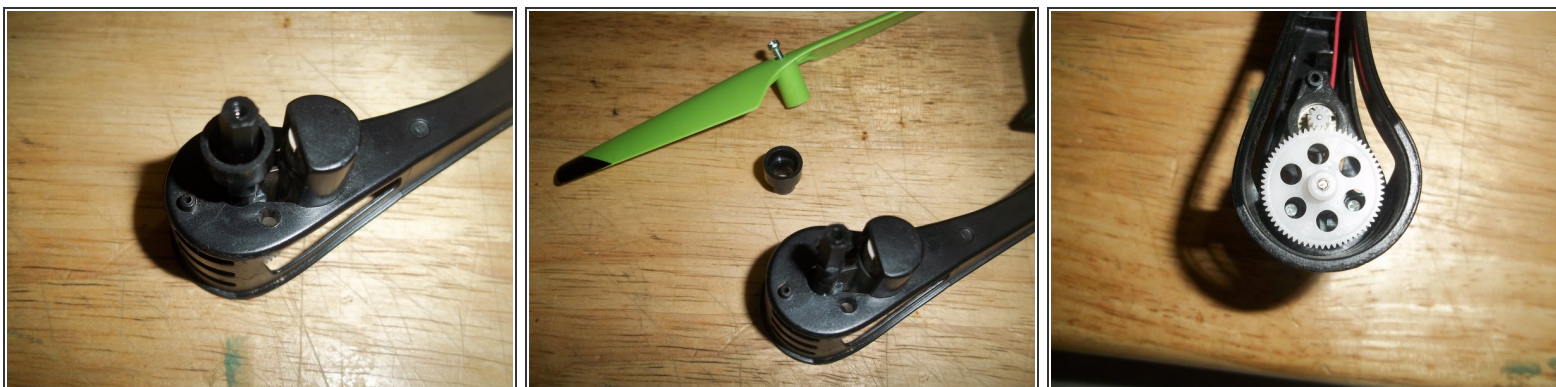
- Flip the Viper over. My Viper does not have a camera because it is damaged so remember to remove it.
- Remove the 9 screws holding the bottom plate/battery holder.
- Remove one last screw in the battery compartment.

Step 3



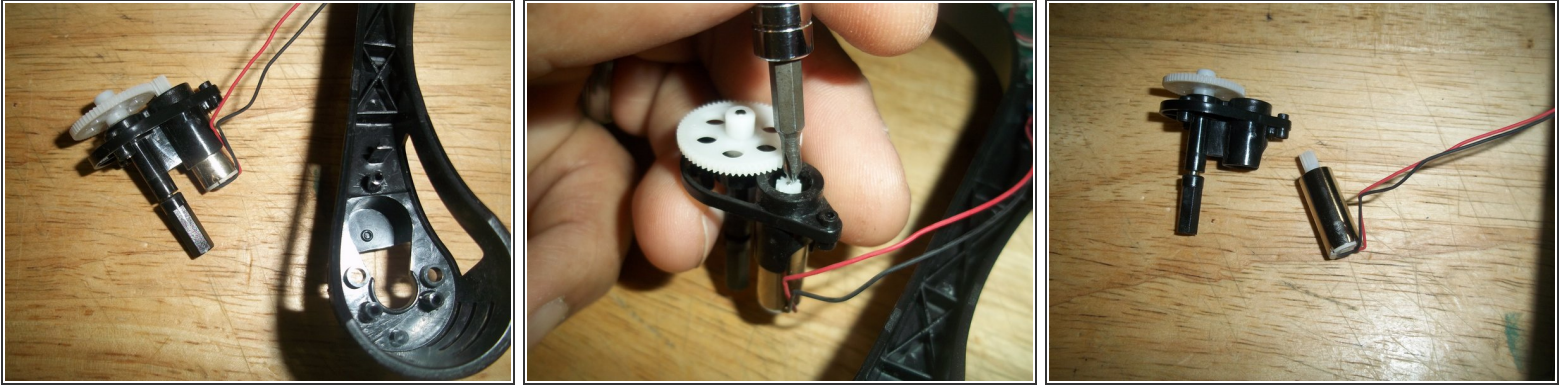
- Slowly pull the bottom off.
- It should come completely off with little effort.
- Then remove the screw holding the arm cover/led holder.

Step 4



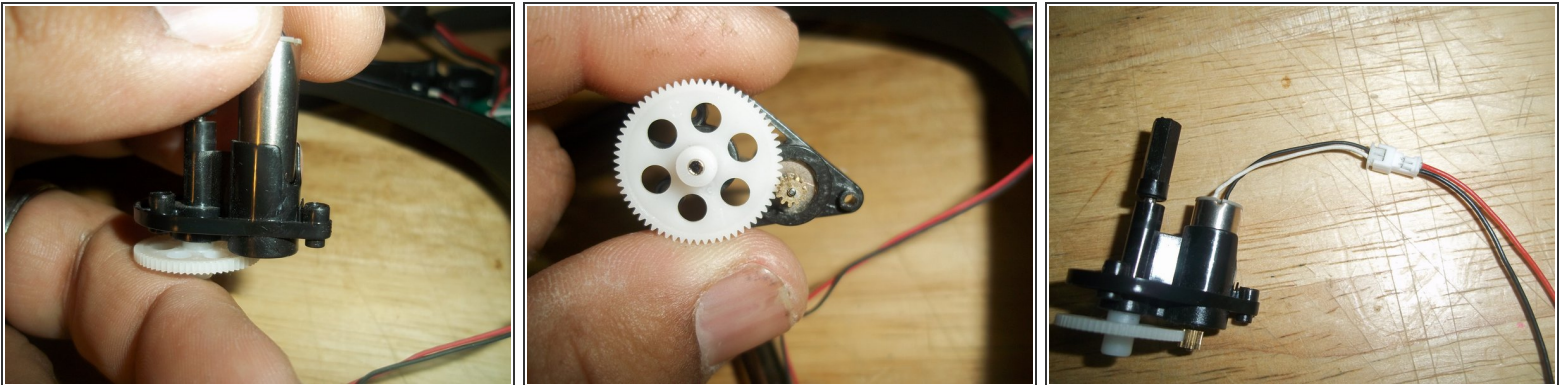
- Remove the prop and the spacer.
- Rotate the gear until you see the two screws as pictured and unscrew them. They may not come out of the gear easily so be careful not to lose them.

Step 5



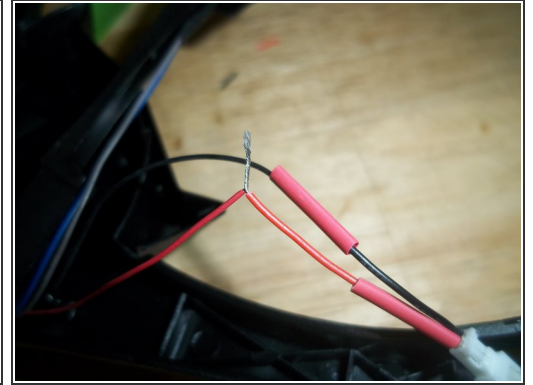
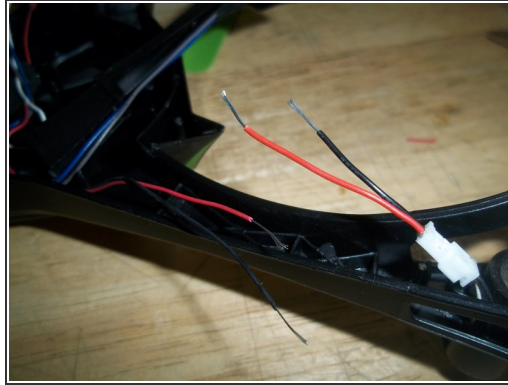
- Slowly pull out the gear and motor assembly.
- Carefully push the motor out of the gear side.
- Once it is out you can inspect the gears and remove the small gear from the motor just in case it can be used later.

Step 6



- The new gear from the WLToys V949 should already have a metal gear that will match up the current pinion.
- Press it firmly in place and connect the mini JST plug.

Step 7



- Put the entire assembly back and put the screws back in place.
- Cut the wires at an offset and strip all the wires.
- Place a small 14mm piece of heat shrink tubing on the wire, match black to black and red to red in this case and hand twist the wires together.
- Slide the tubing over the bare wires and heat up the shrink tubing to keep the connection from coming apart easily.

Step 8



- I was replacing the motor with red and black wires in the previous step and this is what the motor with the white and red wire looks like when connected.
- Carefully tuck the wired in the side of the arm and replace the cover.
- Make sure you do not have any of the wires in a place that can be pinched or damaged by reassembly.
- Now you are ready to put everything back and you now have a Sky Viper with replaceable motors.

To reassemble your device, follow these instructions in reverse order.