



# Sky Viper v950HD Motor Replacement with Quick Connect Motor

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

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## 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)

## 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



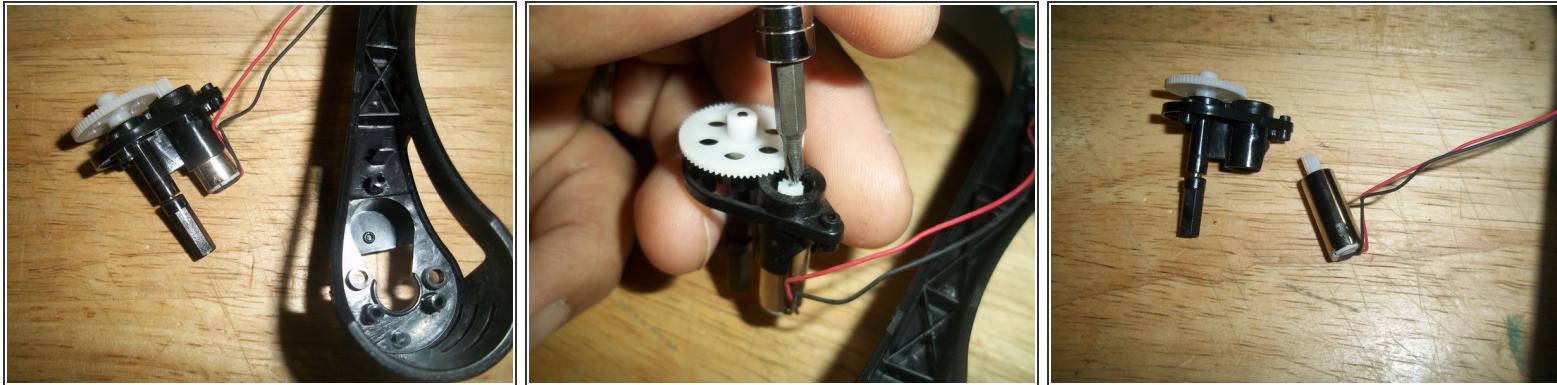
- Slowly pull the bottom off.
- It should come completely off with little effort.
- Then remove the screw holding the arm cover/led holder.

## Step 4



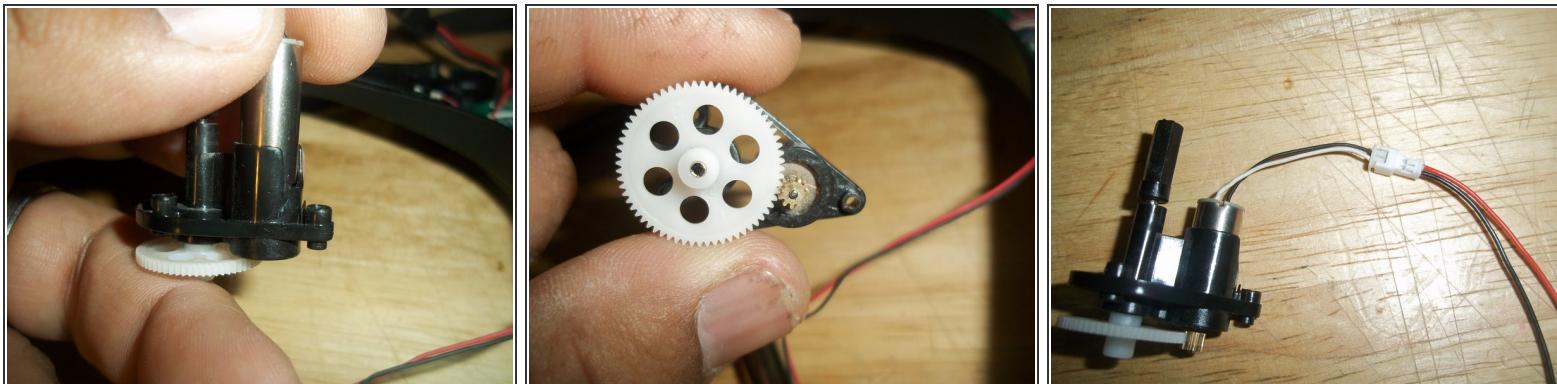
- Remove the prop and the spacer.
- Rotate the gear until you see the two screws as pictured and unscrew them. They may not come out of the gear easily so be careful not to lose them.

## Step 5



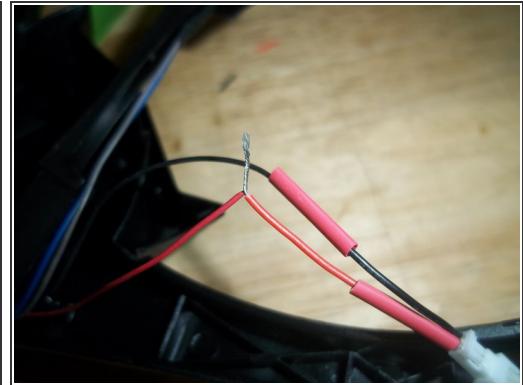
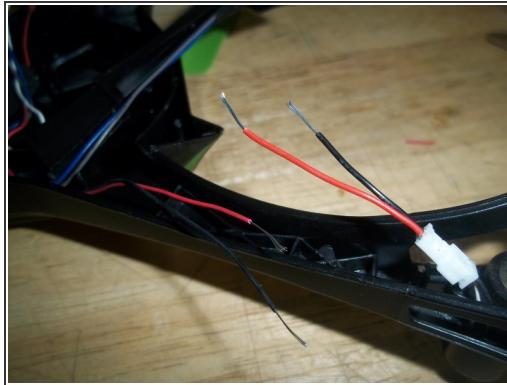
- Slowly pull out the gear and motor assembly.
- Carefully push the motor out of the gear side.
- Once it is out you can inspect the gears and remove the small gear from the motor just in case it can be used later.

## 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.