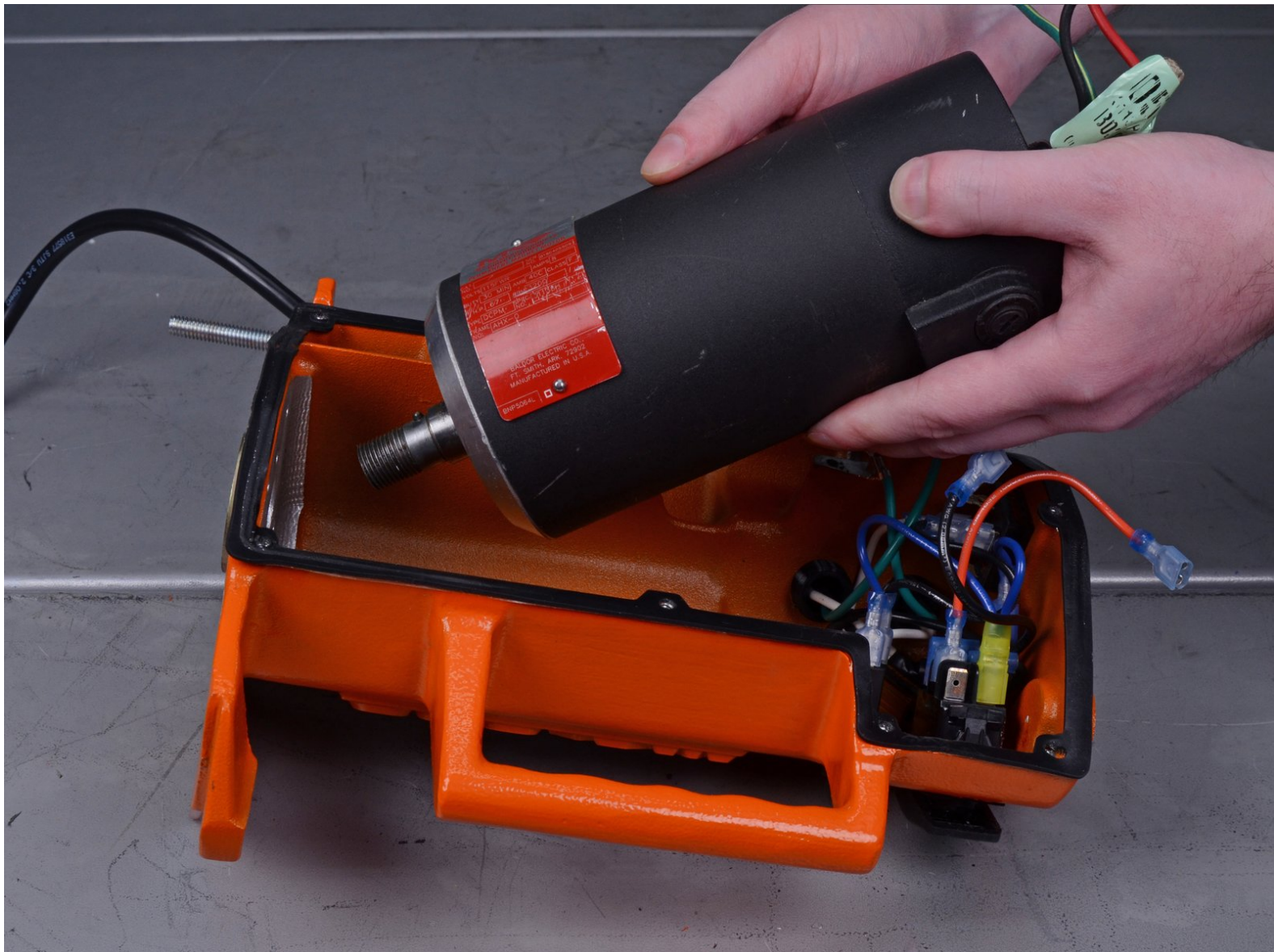




Mk Diamond Wet Saws MK660 2010 Motor Replacement

How to remove and replace the electric motor for a Mk Diamond Wet Saw MK660 2010.

Written By: Carsten Frauenheim



INTRODUCTION

Follow this guide to remove and replace a faulty electric motor in a Mk Diamond MK660 Wet Saw.

The replacement part is 154292.



TOOLS:

- [Phillips #2 Screwdriver](#) (1)
- [Flathead Screwdriver](#) (2)
- [Pick Tool](#) (1)





PARTS:

- [Mk Diamond MOTOR, 3/4 HP 115V FWR, 660 154292](#) (1)

Step 1 — Blade Cover



 Before you begin, make sure to power off and unplug the device from the outlet.

 If the clear water pump hose is connected, remove it now.

- Loosen the plastic knob holding the saw's cutting head in place.
- Lower the cutting head while keeping it steady.

Step 2



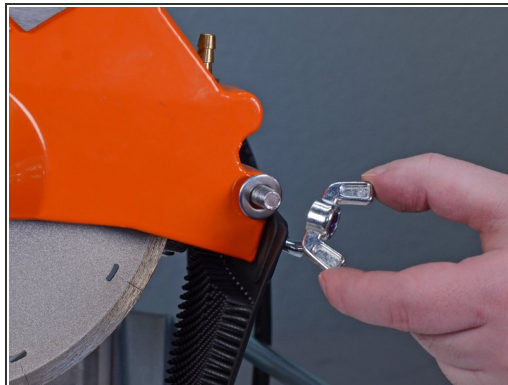
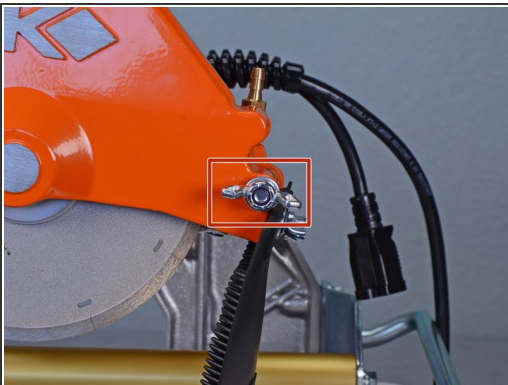
- Unscrew the knob.
- Remove it from the cutting head.

Step 3



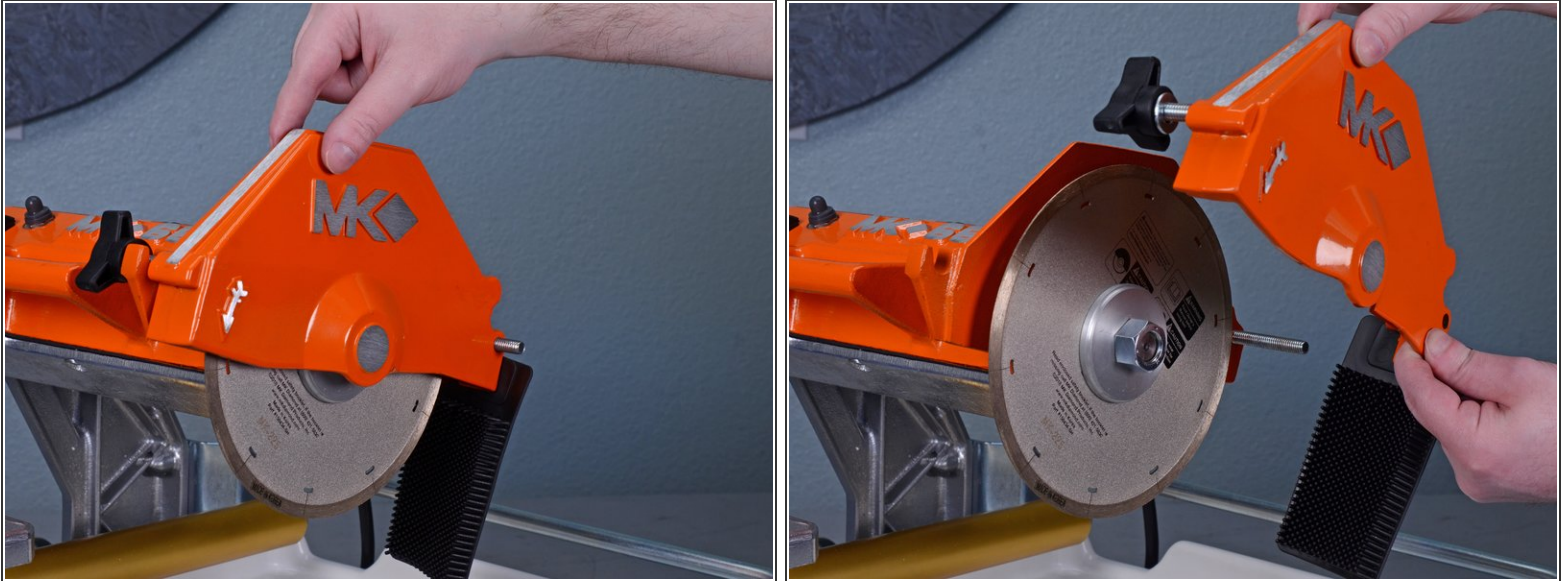
- Loosen the plastic knob holding the blade cover in place.

Step 4



- Loosen the wing nut on the blade cover pivot shaft.
- Remove the wing nut and accompanying washer.

Step 5



- Pivot the blade cover up and pull it off the shaft.

Step 6 — Blade



- Insert the provided spanner wrench into one of the four tightening holes on the inner flange behind the blade.
- Use the the provided nut wrench to loosen the hex nut while providing counterforce with the spanner wrench.

Step 7



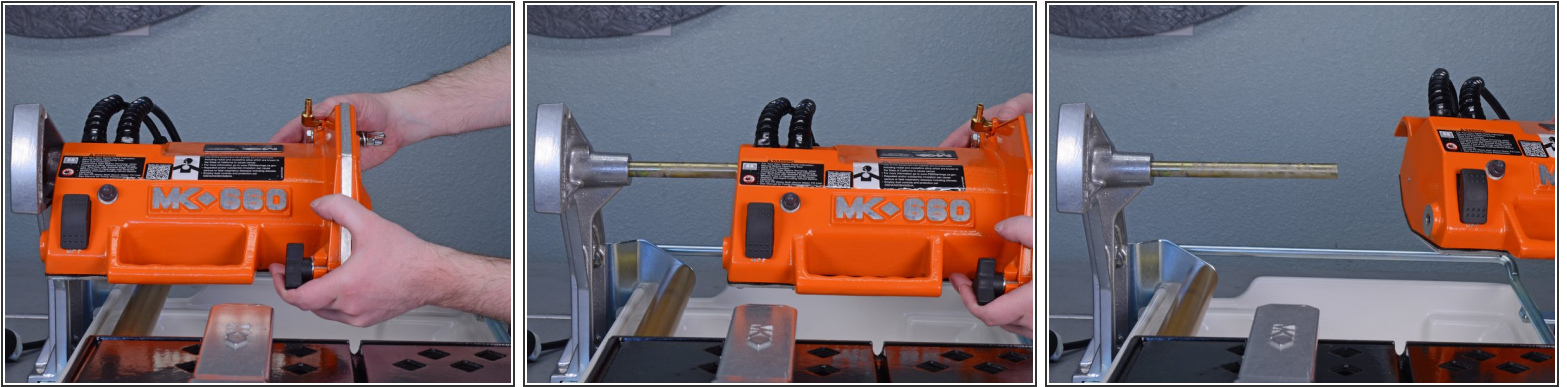
- Remove the hex nut.
- Remove the outer flange.

Step 8



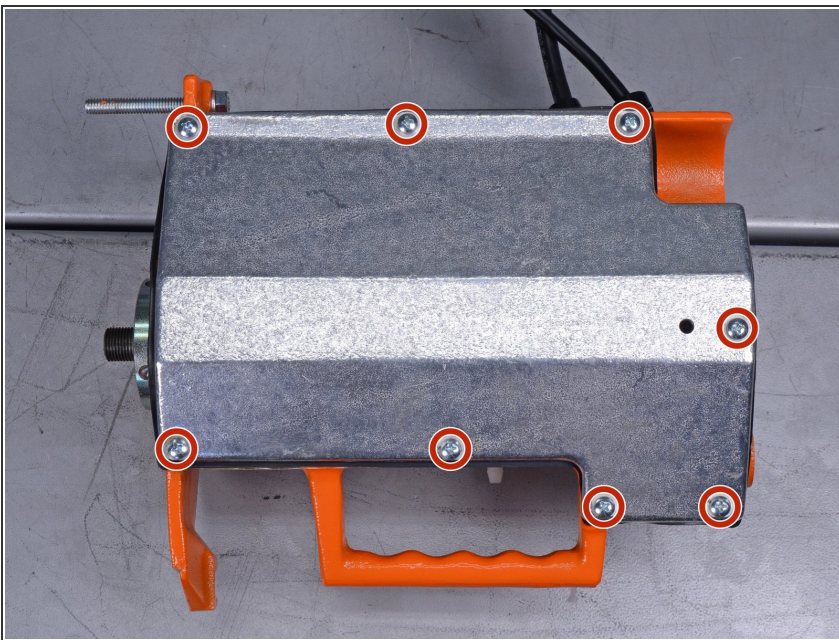
- Remove the cutting blade.
⚠ The blade can be sharp, so handle with care.

Step 9 — Cutting Head



- Pull the entire cutting head straight off the shaft holding it in place.

Step 10 — Bottom Cover



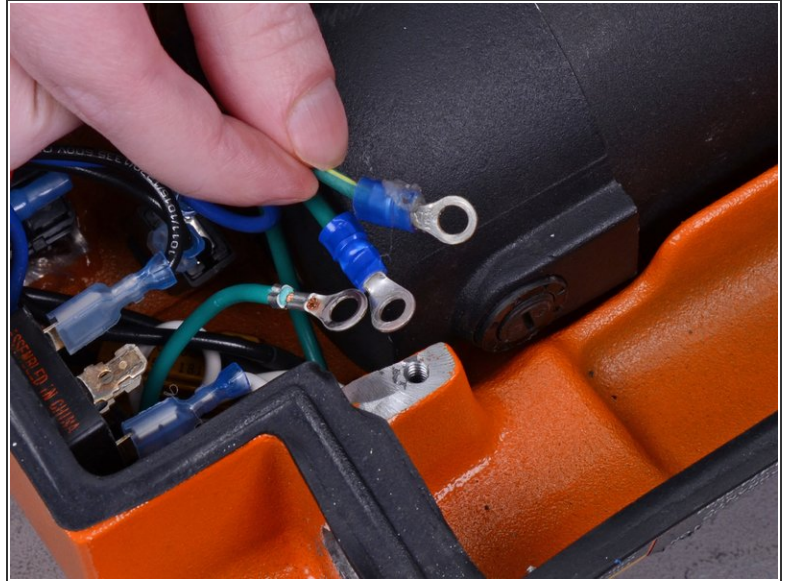
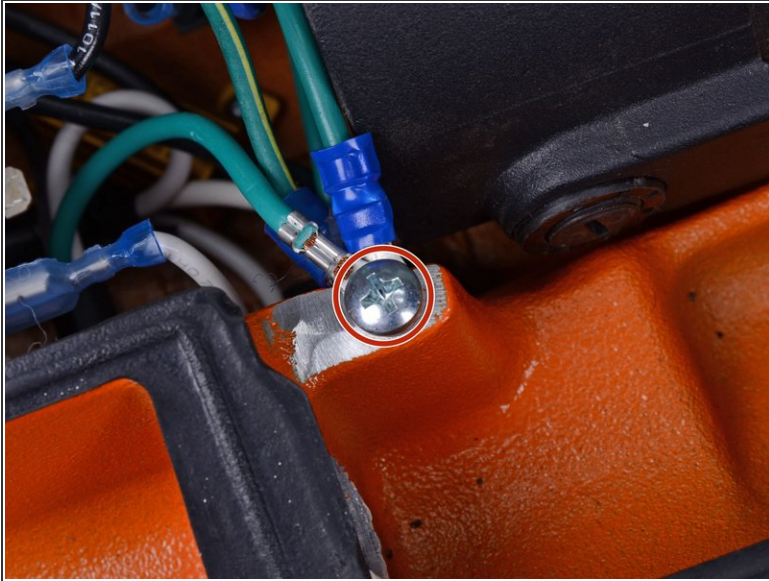
- Remove the eight Phillips #2 screws on the underside of the cutting head.

Step 11



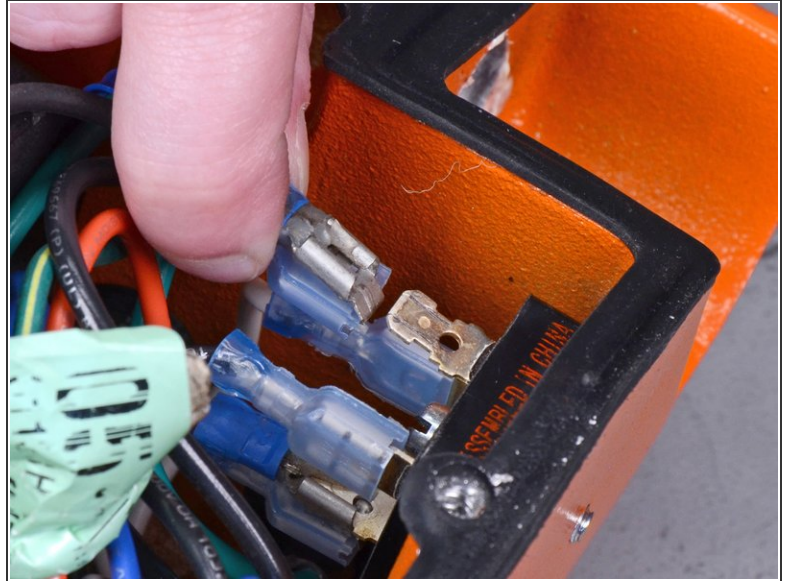
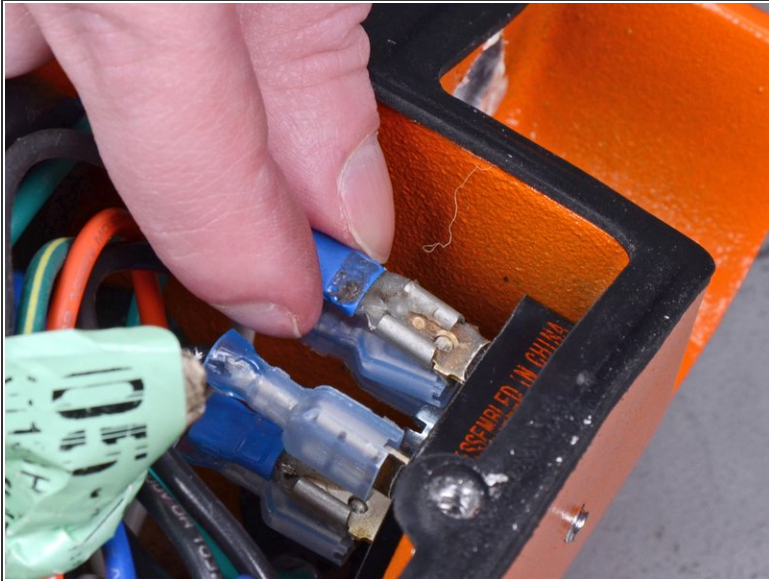
- Remove the bottom cover.

Step 12 — Motor



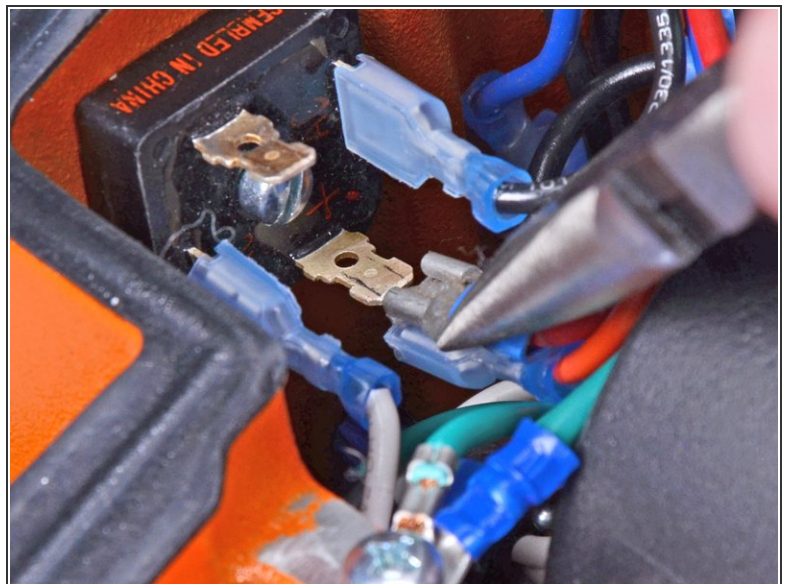
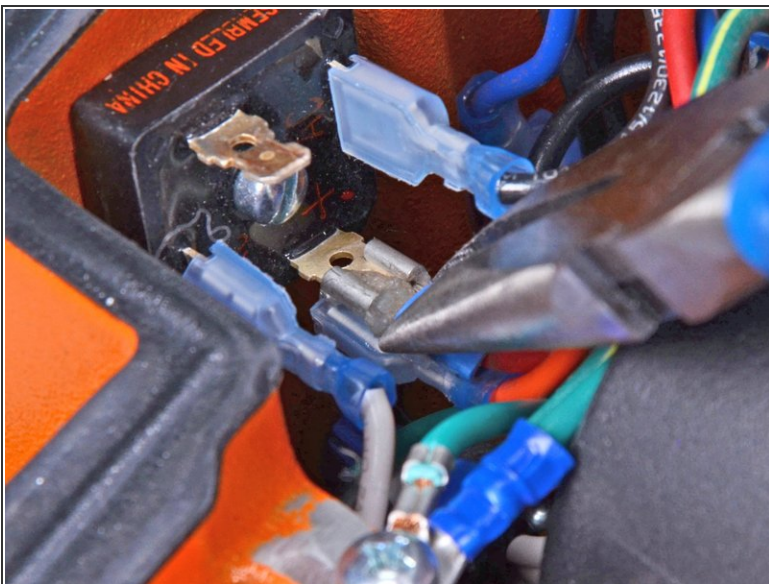
- Remove the Phillips #2 screw holding the ground wires to the chassis.
- Loosen the wires from each other.
- ⓘ The motor's ground wire is green with a yellow stripe.
- ✦ Reassembly tip: there are **three** ground wires attached here that will need to be reinstalled upon reassembly.

Step 13



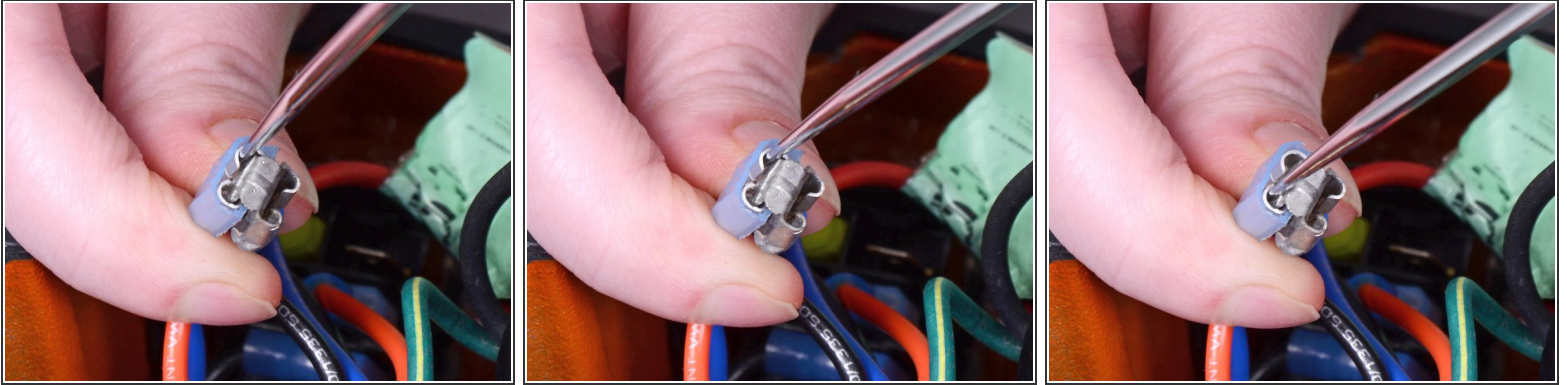
- Remove the black wire's plug from the 4-pin rectifier.
- ⓘ These plugs have two wires each, so removing one plug removes two wires.

Step 14



- Remove the red/orange wire combo plug from the 4-pin rectifier.
- ⓘ Use needle-nose pliers if you can't reach this plug with your fingers.

Step 15



⚠ Be **very** careful with this connection, as even minimal bending can break the metal conductor [in half](#).

- Use a pick to slightly pry up on the crimped metal arms holding the red and orange wires together.
- Repeat for both sides to loosen the connector.

Step 16



⚠ Be **very** careful with this connection, as even minimal bending can break the metal conductor [in half](#).

- Remove the red wire from the orange wire.

Step 17



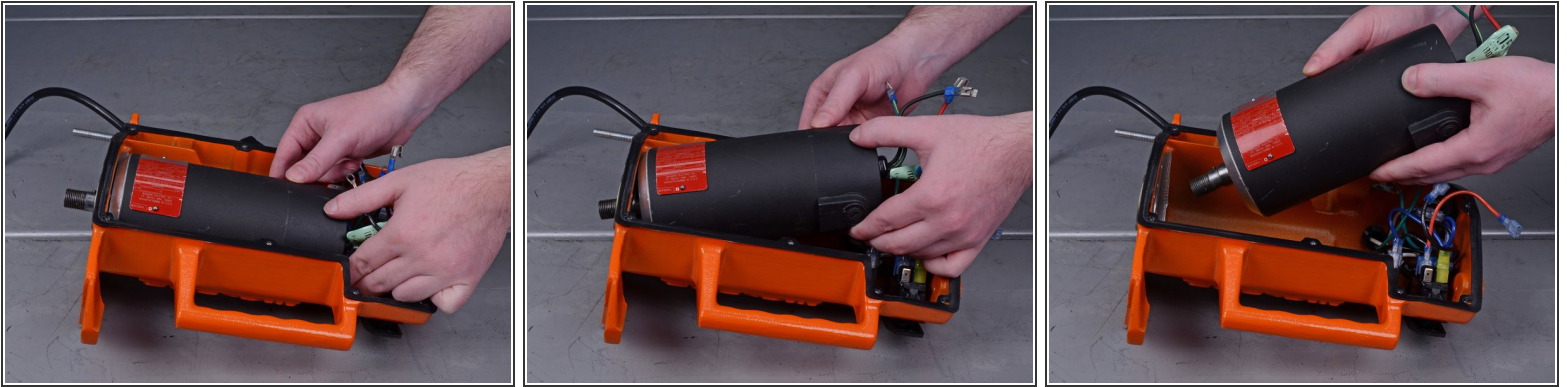
- Use two flathead screwdrivers to carefully pry the inner flange off the motor shaft.
- ⓘ You may need to use the two screwdrivers to "walk" the flange off—it's press-fit onto the shaft. Try prying on various positions of the flange and rotating it as you work.
- Remove the inner flange.

Step 18



- Remove the four Phillips #2 screws holding the motor in place.

Step 19



- Grab the motor with both hands and tilt it slightly upward.
 - While keeping the motor tilted up, pull back and up to clear the electrical components behind the motor.
 - Remove the motor.
- ⓘ You may need to bend the thermal overload switch slightly in order to lift the motor out.

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