Mk Diamond Wet Saws MK660 2010 Power Cord Replacement

How to remove and replace the power cord for a Mk Diamond Wet Saw MK660 2010.

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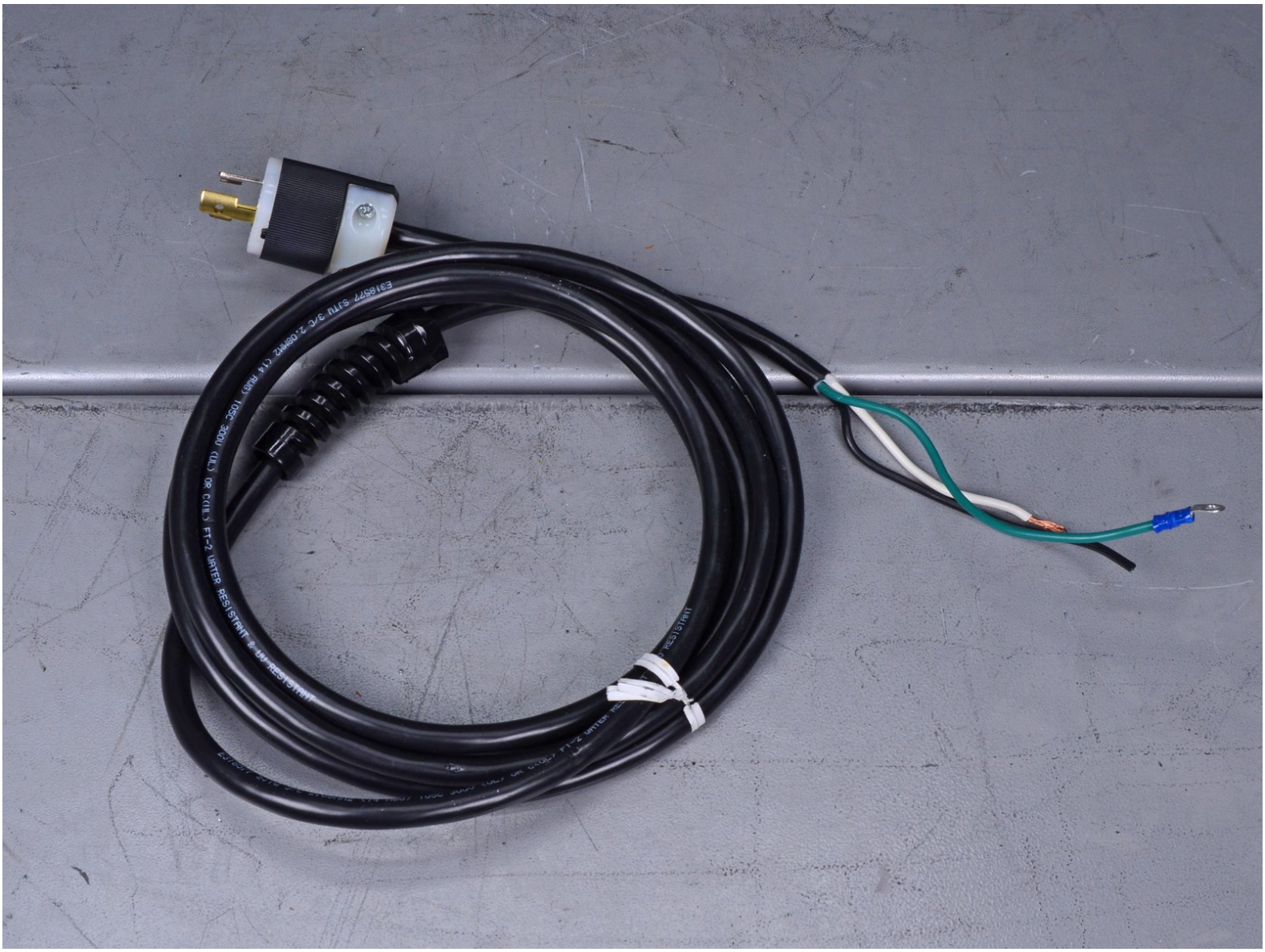


INTRODUCTION

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

The replacement part is 153419.

Removing the motor before the power cord is not necessary, but makes the process easier.

TOOLS:

- Flathead Screwdriver (2)
- Pick Tool (1)
- Phillips #2 Screwdriver (1)
- Adjustable Wrench (1)
- Large Needle Nose Pliers (1)
- Flush Wire Cutters (1)
- Wire Stripping/Crimping Tool (1)

PARTS:

- Mk Diamond CORD, AC POWER 120V (16/3 SJTW X 10, 153419 (1)

Step 1 — Blade Cover

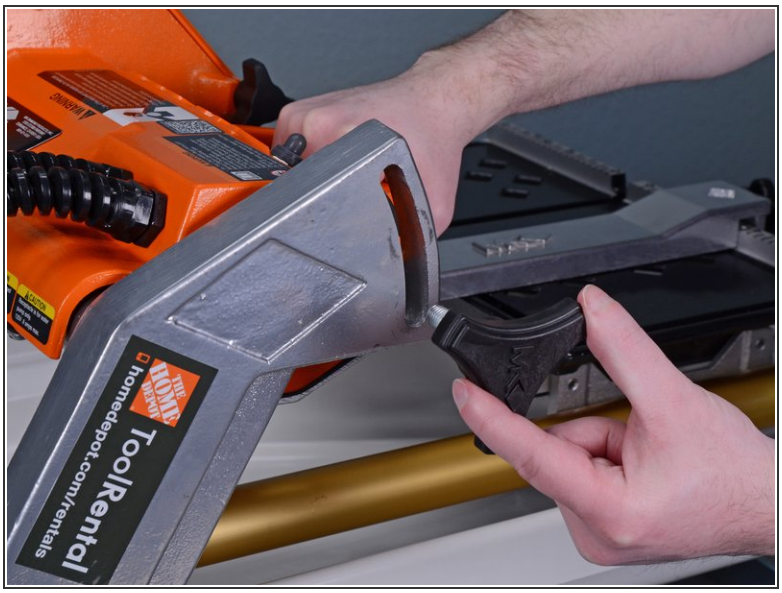


⚠ Before you begin, make sure to power off and unplug the device from the outlet.

ⓘ 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

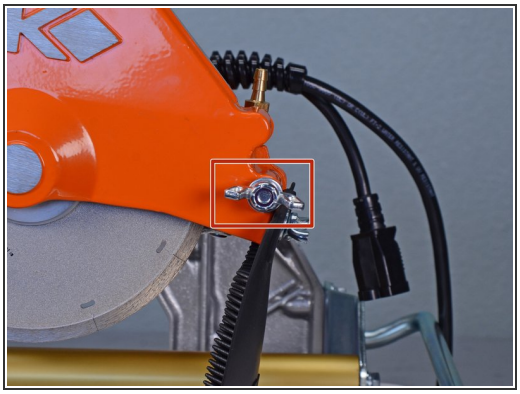
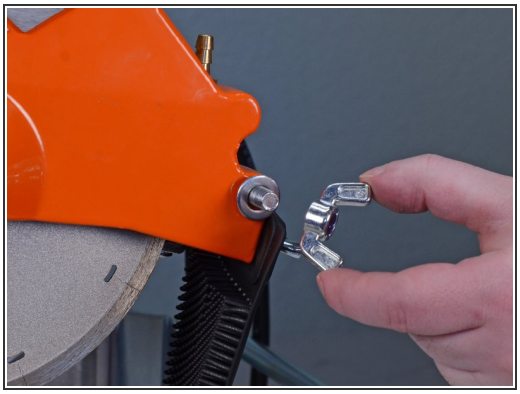



- Unscrew the knob.
- Remove it from the cutting head.

Step 3


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

Step 4

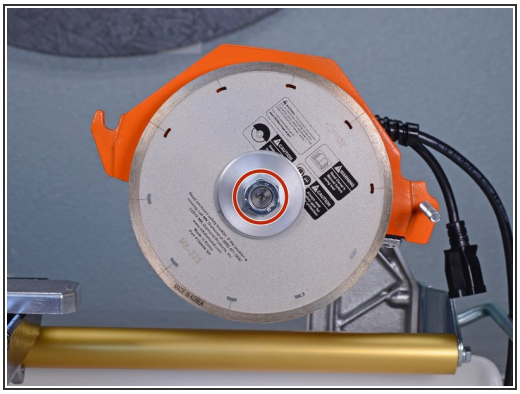




- Loosen the wing nut on the blade cover pivot shaft.
- Remove the wing nut and accompanying washer.

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

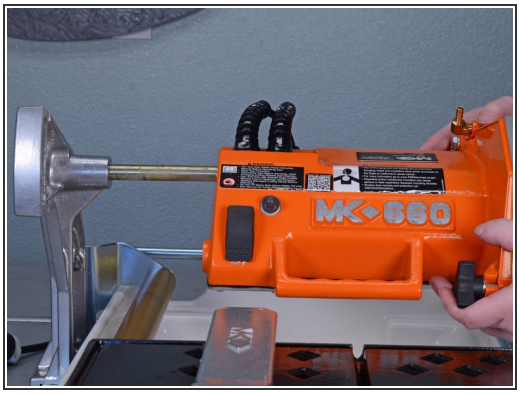
- Remove the hex nut.
- Remove the outer flange.

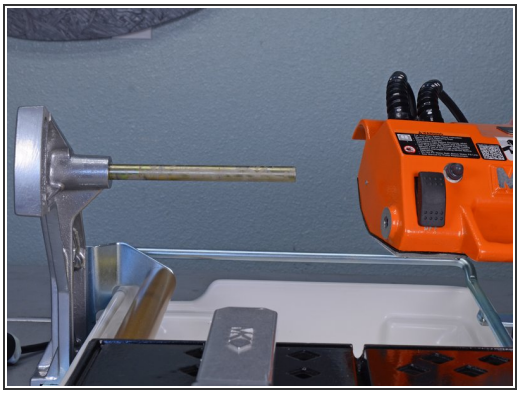
Step 8

- Remove the cutting blade.

⚠ The blade can be sharp, so handle with care.

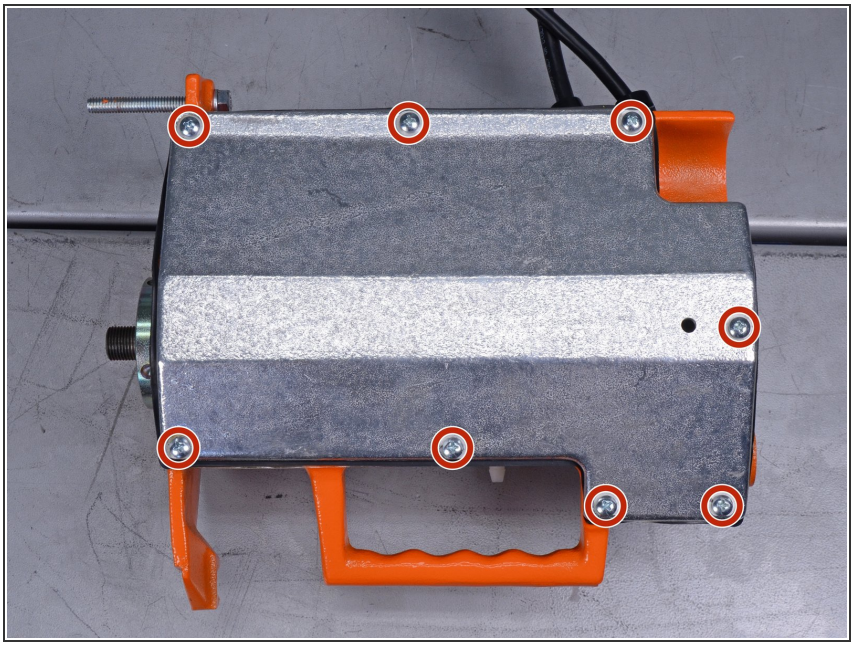
Step 9 — Cutting Head





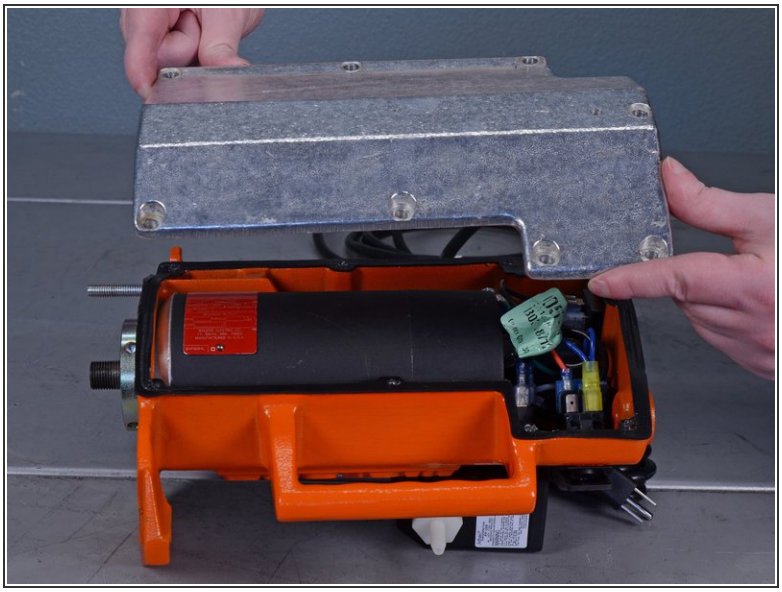
- Pull the entire cutting head straight off the shaft holding it in place.

Step 10 — Bottom Cover



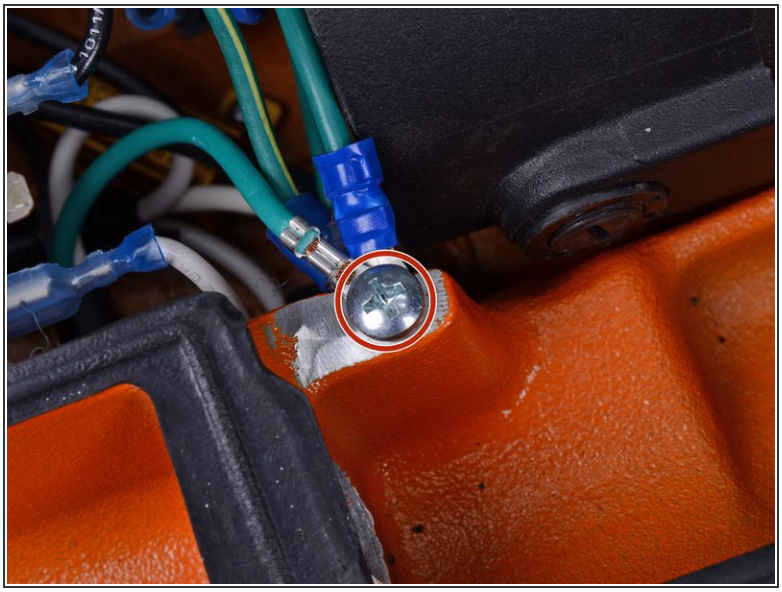
- Remove the eight Phillips #2 screws on the underside of the cutting head.

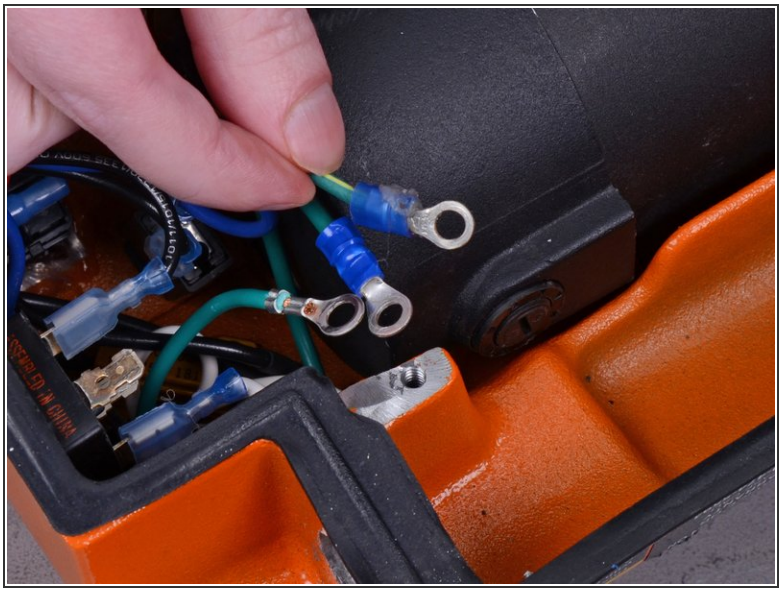
Step 11



- Remove the bottom cover.

Step 12 — Motor



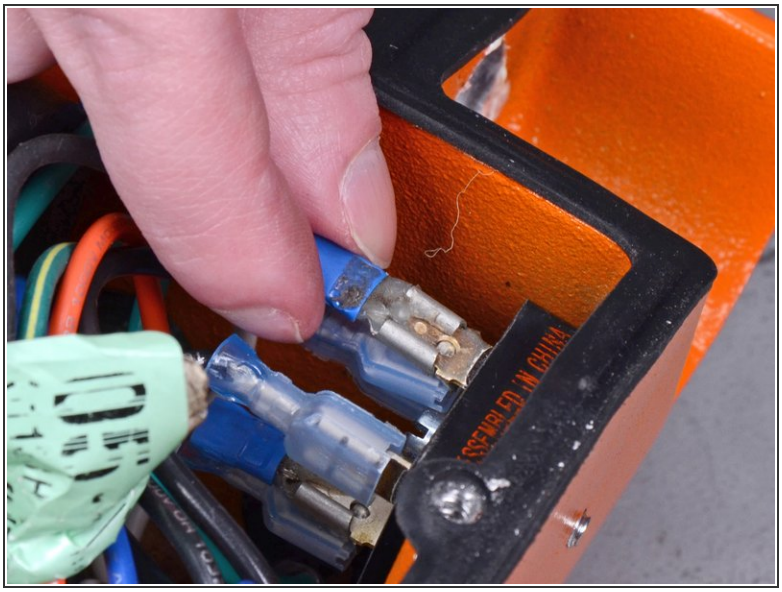
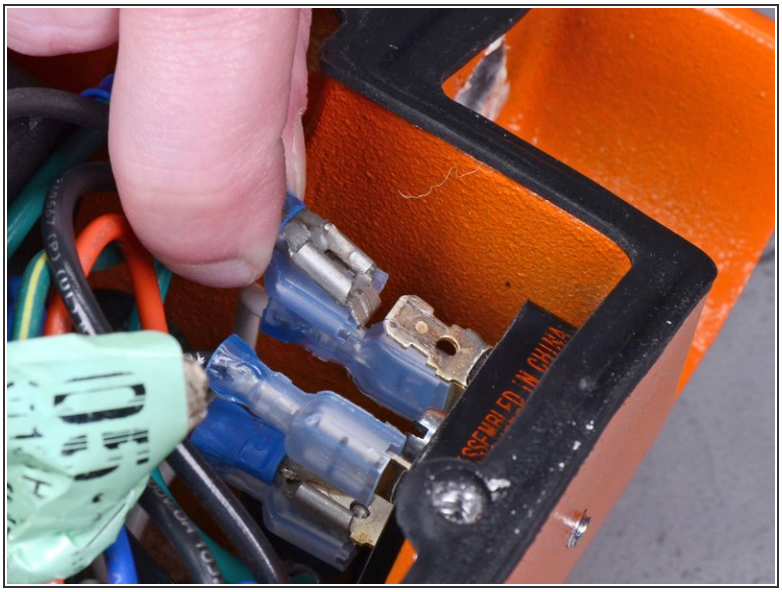


- Remove the Phillips #2 screw holding the ground wires to the chassis.
- Loosen the wires from each other.

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.

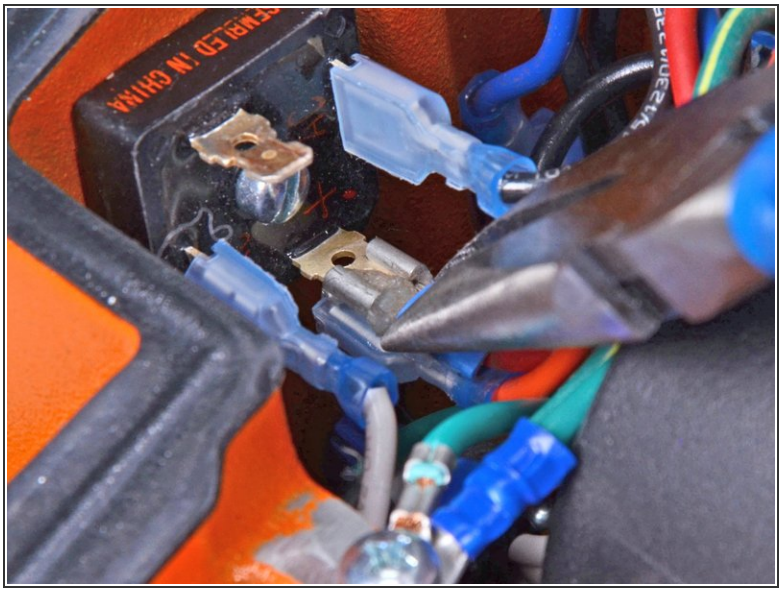
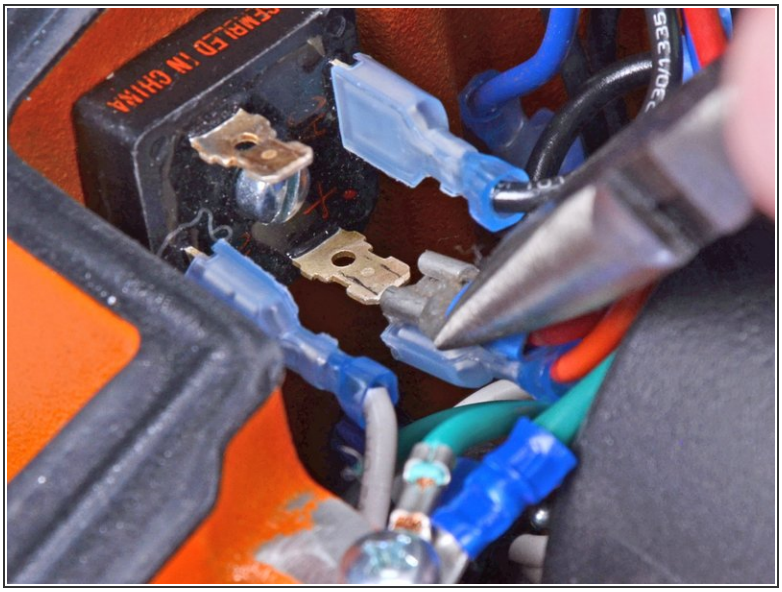
Step 13

- Remove the black wire's plug from the 4-pin rectifier.

These plugs have two wires each, so removing one plug removes two wires.

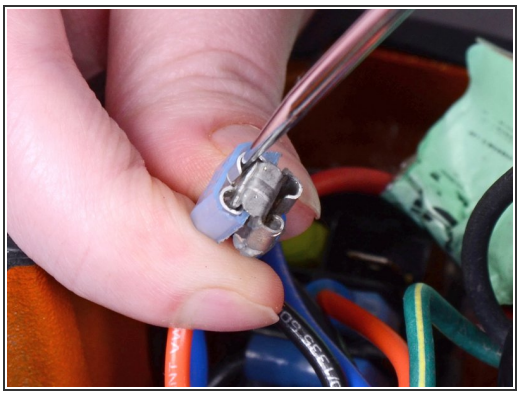
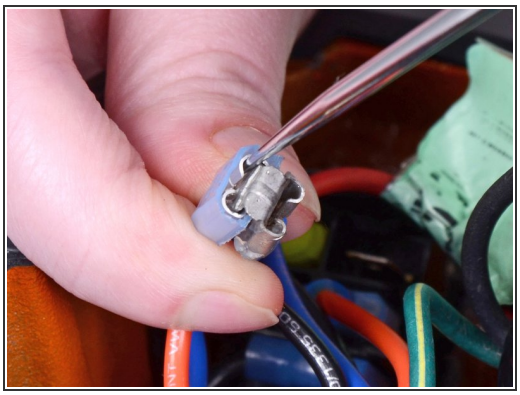
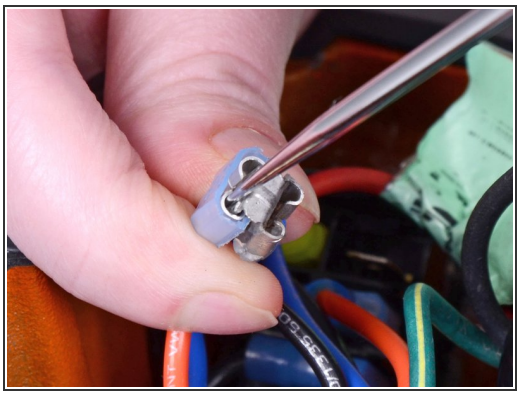
Step 14

- 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.

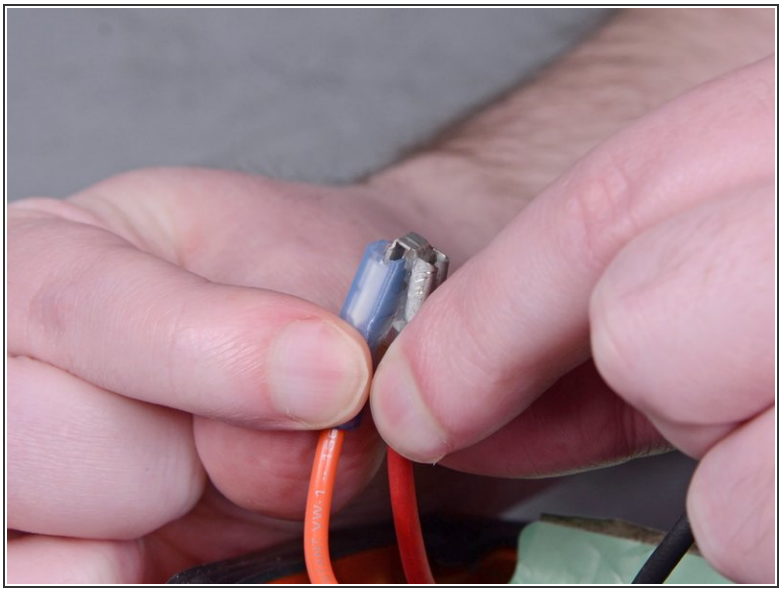
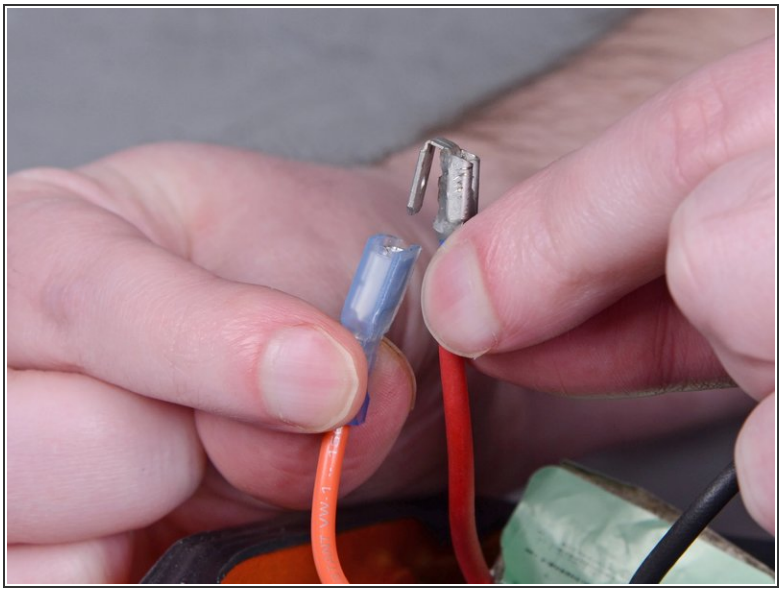
Step 15

⚠ 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.

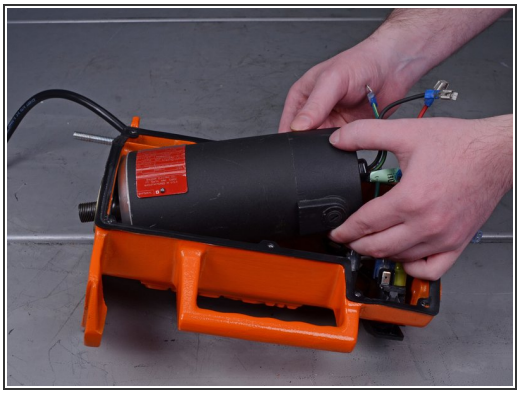
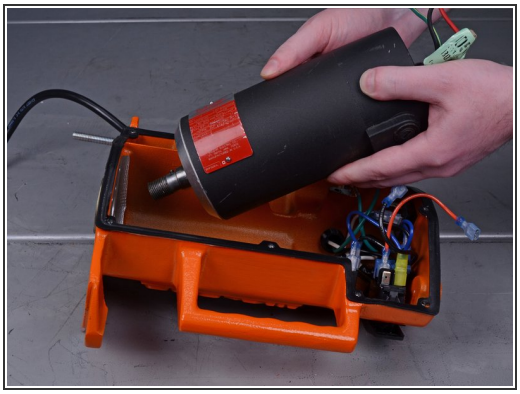
You may need to use the two screwdrivers to "walk" the flange off—it's press-fit onto the shaft. Try prying on various positions of the flange and rotating it as you work.

- Remove the inner flange.

Step 18

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

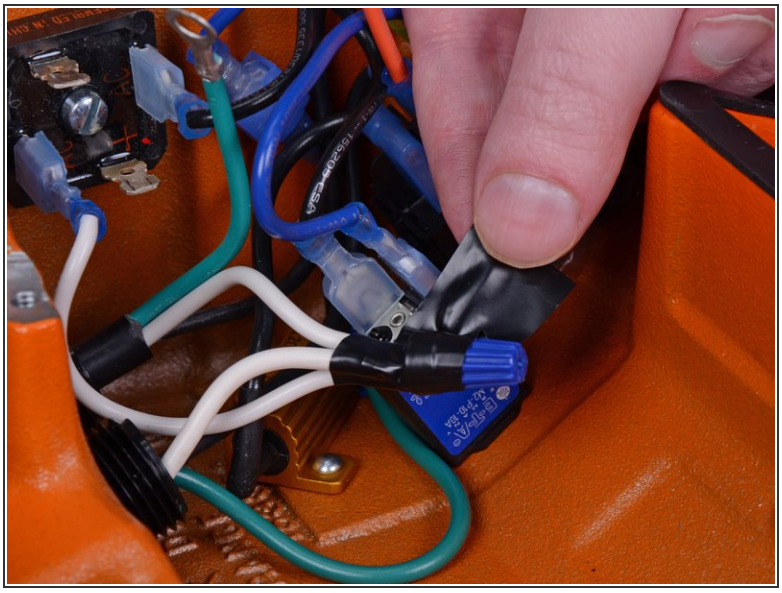
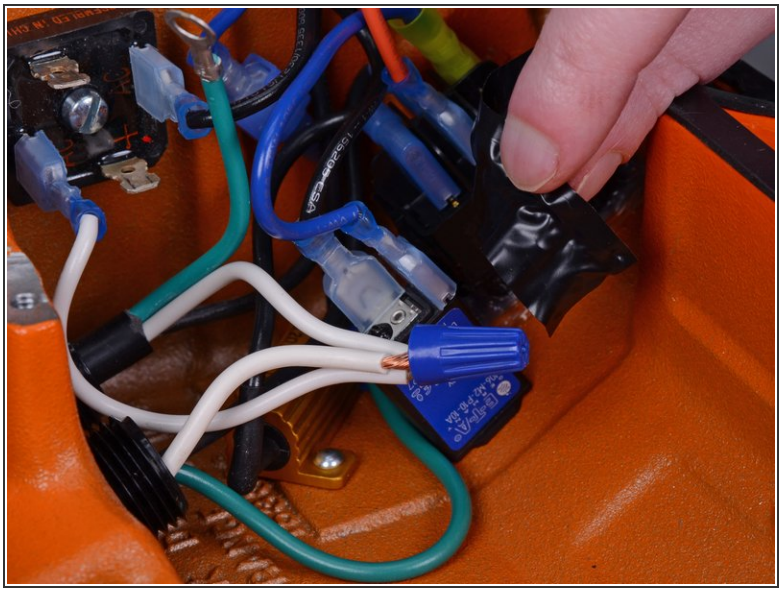
Step 19

- 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.

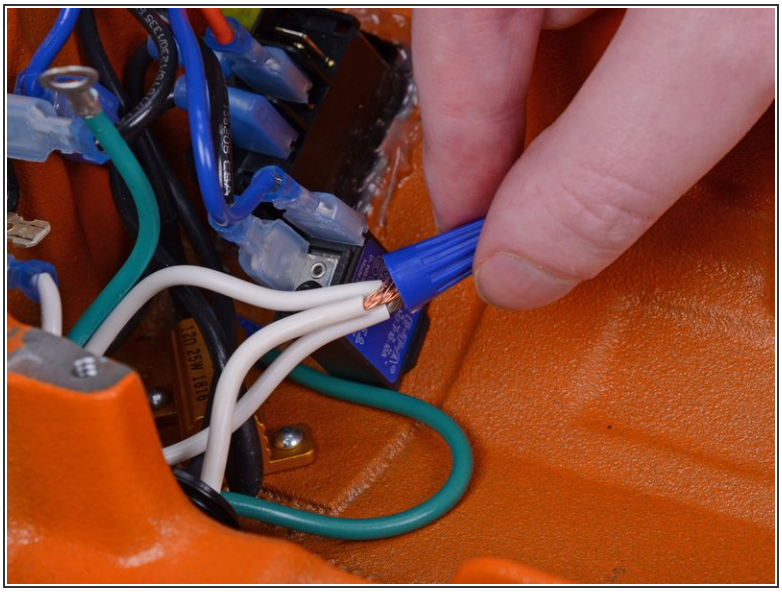
You may need to bend the thermal overload switch slightly in order to lift the motor out.

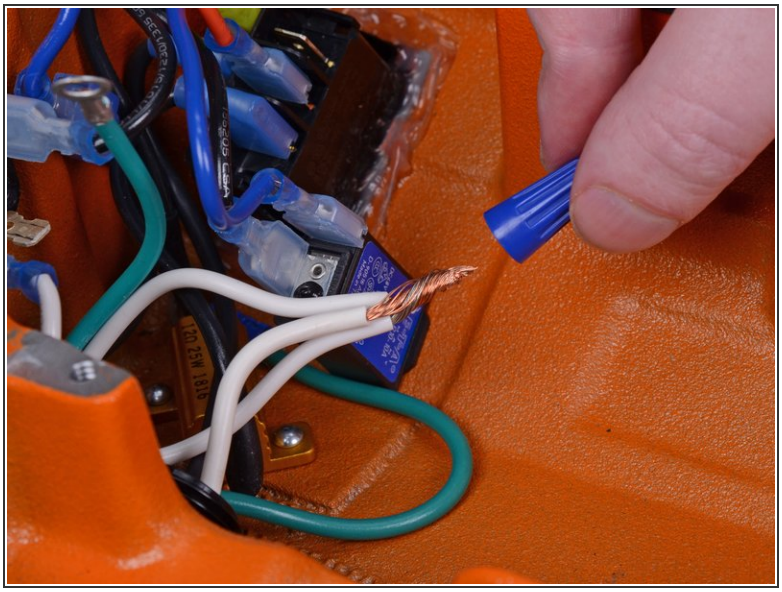
Step 20 — Power Cord

- Remove the electrical tape from the twist-on wire connector connecting the three white wires.

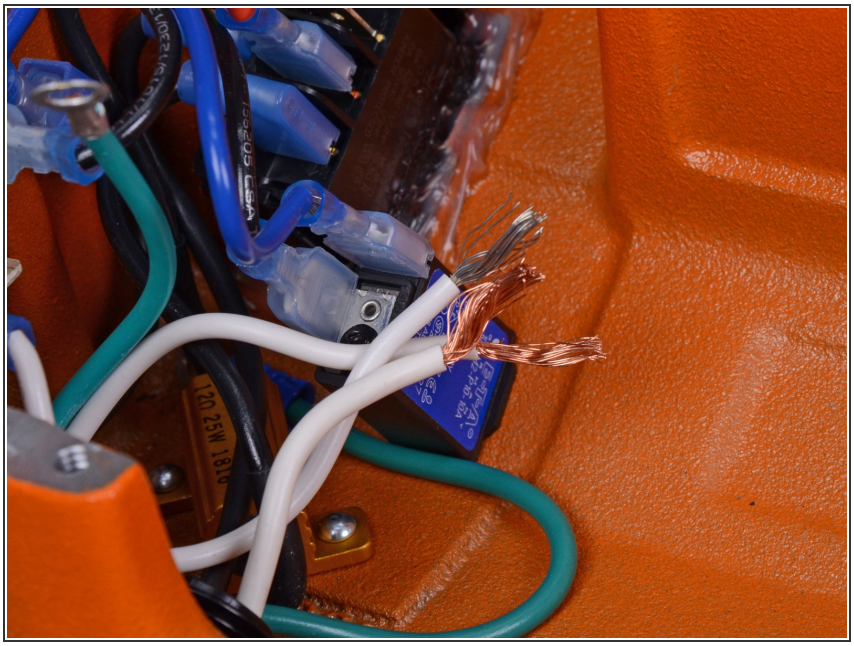
Step 21





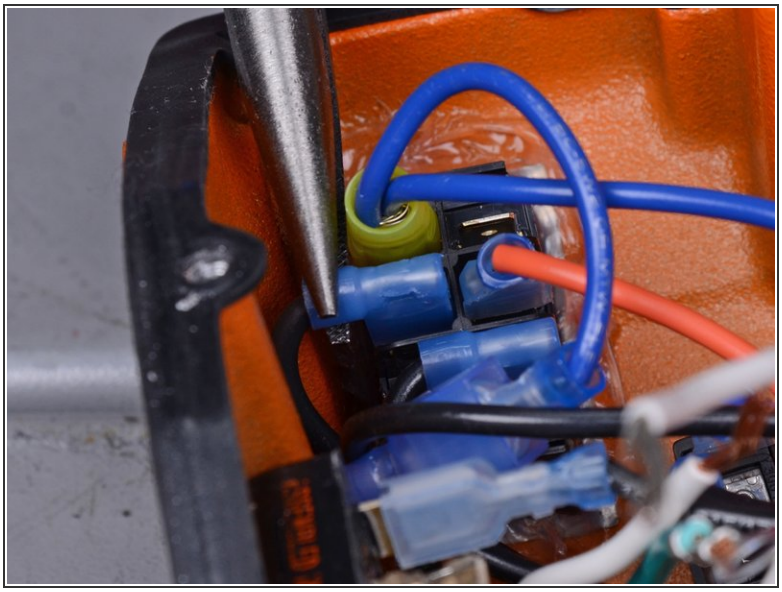
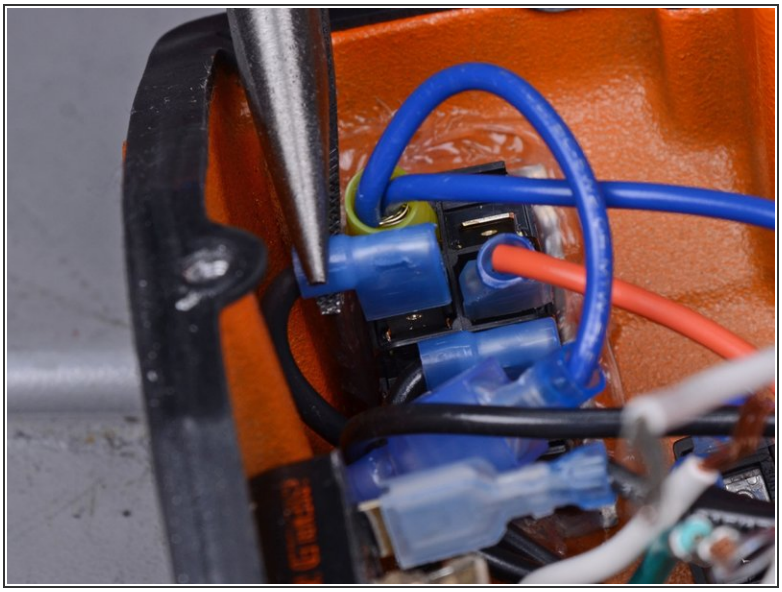
- Remove the twist-on wire connector.

Step 22



- Twist the three white wires apart from each other.

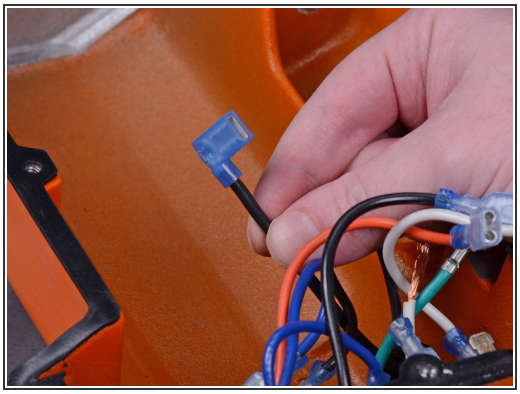
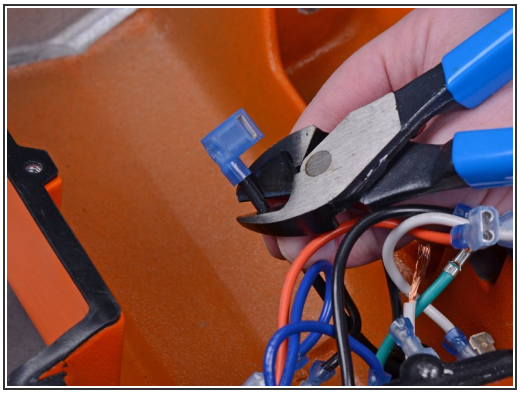
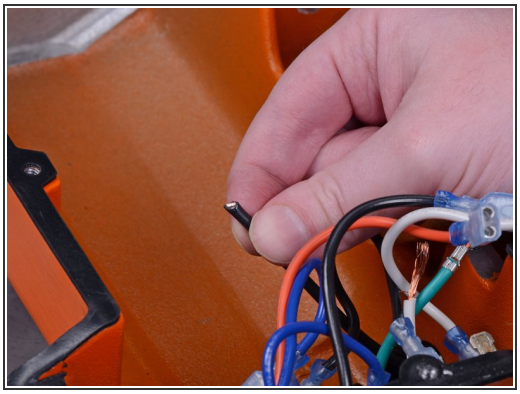
Step 23

- Remove the black wire from the switch assembly.

ⓘ Use needle-nose pliers if you can't reach this plug with your fingers.

Step 24

- Use wire cutters to cut the angled plug off the end of the black wire so it can slide out of the power cord opening.

Step 25

- Use an adjustable wrench to loosen the hex nut closest to the wall plug side of the power cord.

Step 26

- Pull back the flex guard from the cutting head chassis.

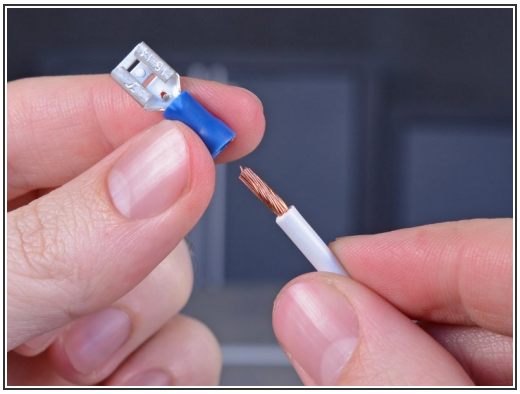
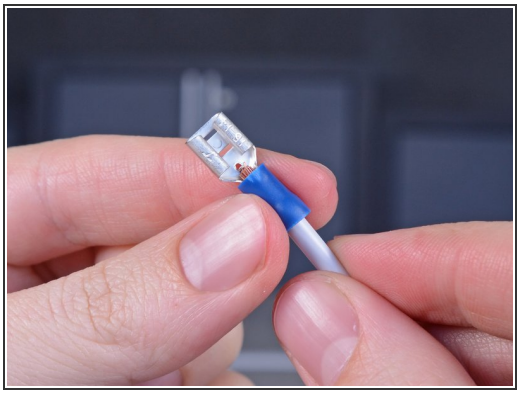
Step 27



Make sure all power cord wires are disconnected before pulling the power cord out of the cutting head.

- Grab the outer sheath and slowly pull the power cord out of the cutting head.
- Remove the power cord.

Step 28


If your replacement power cord does not have quick disconnect plugs on the end of its wires, strip about half an inch of insulation off of each wire to install new crimp connectors.

Reassembly tip: This needs to be done **after** the cord is fed back into the cutting head, otherwise it won't fit.

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

