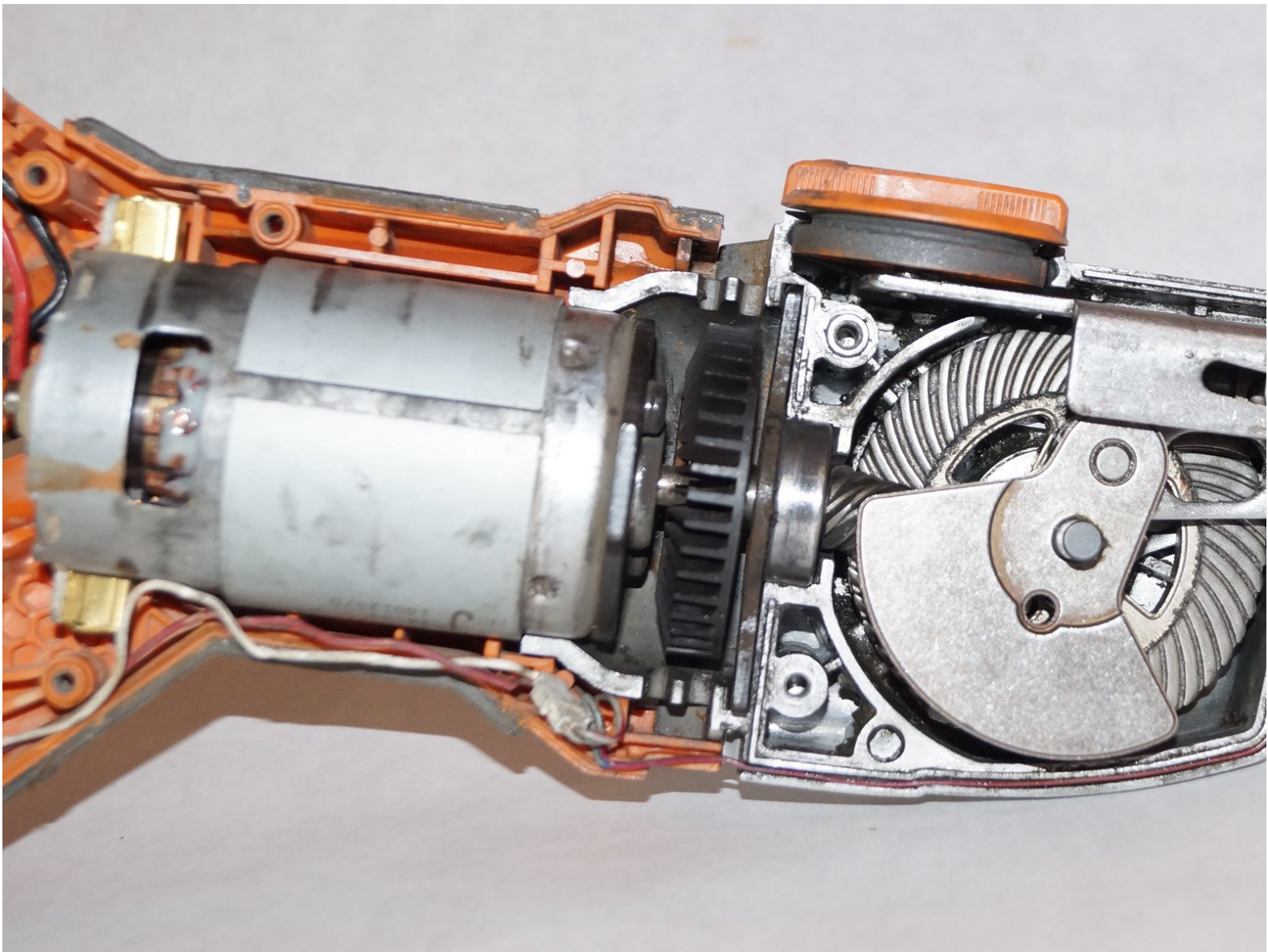




# Ridgid GEN5X R8642 Motor Replacement

This repair guide will show you how to replace the motor in a Ridgid GEN5X R8642 model. The part number for the motor assembly is 206305001.

Written By: Mauricio Moreno



# INTRODUCTION

For this repair you will need:

- T20 Star Bit Screwdriver
- J1 Philips Head Screwdriver
- Prybar
- Soldering Iron

To replace the motor in a Ridgid GEN5X R8642, you will need to take the saw apart into two. The screws are M4 X 16 mm (Part Number: 089041033083) and M4 x 25mm (Part Number: 660208093). Next the switch assembly must be [desoldered](#) in order to replace the motor. All parts can be found on the parts catalog link in the device page.



## TOOLS:

- [Soldering Iron](#) (1)
- [T20 Torx Screwdriver](#) (1)
- [Spudger](#) (1)
- [JIS #1](#) (1)



## PARTS:

- [Ridgid GEN5X R8642 Motor Assembly](#) (1)

## Step 1 — Motor Replacement



- Remove the plastic tab holding the handle cover in place by prying upward with the spudger until the tab pops off.

## Step 2



- Remove the handle cover by pulling it towards the front of the saw.
- ⓘ The grip can sometimes become stuck and may require a decent amount of force to remove.

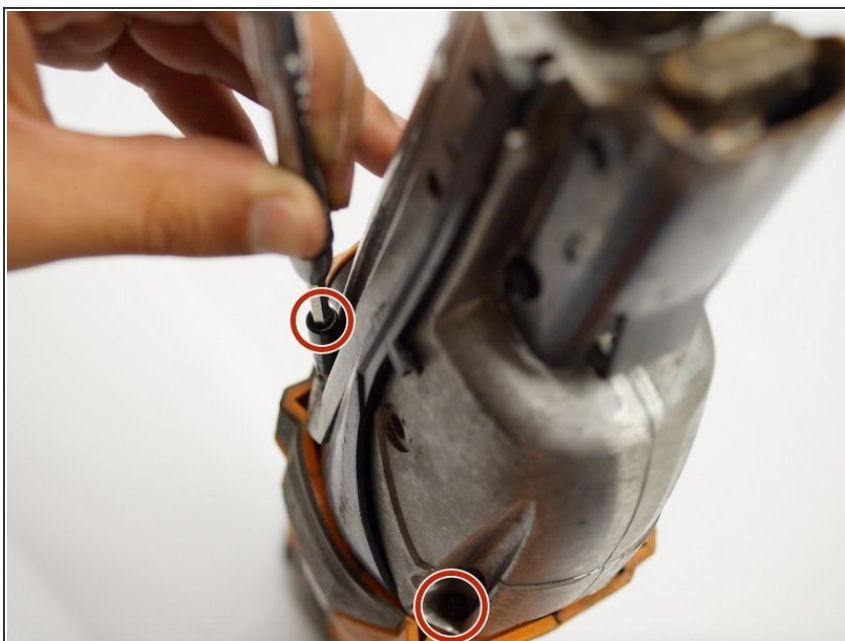


### Step 3



- Use a T20 Torx screwdriver to remove the nine M4 X 16mm screws from the plastic housing.

### Step 4



- Use a JIS #1 screwdriver to remove the two M4 x 25mm screws on both sides of the metal housing.

## Step 5



- Remove one half of the plastic housing using a spudger so that the internal system is exposed.

## Step 6



- Remove the one 16mm T20 screw that holds the grip support onto the saw.

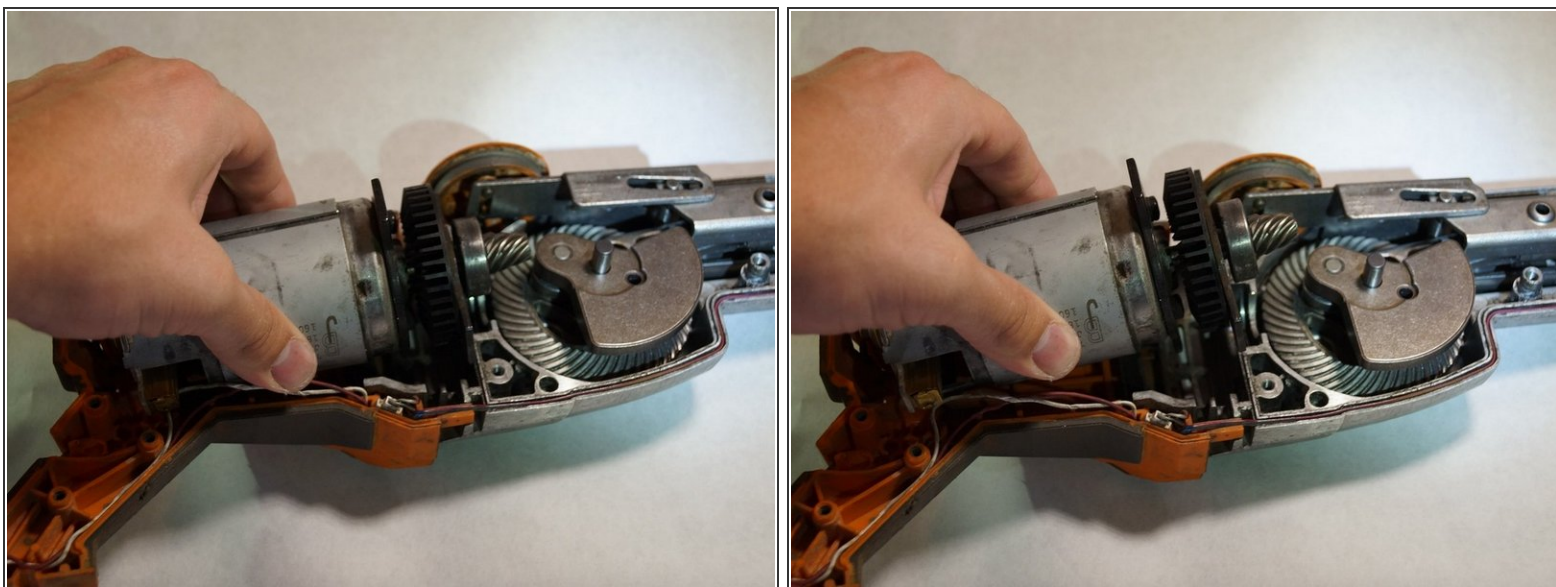


## Step 7



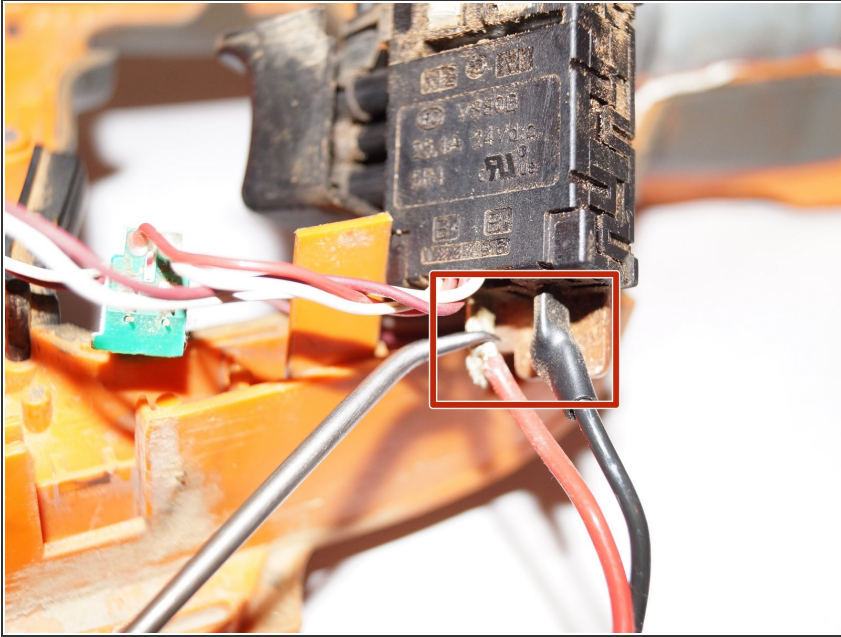
- Remove the five T20 Torx screws from the gear assembly cover and pull the cover off.

## Step 8



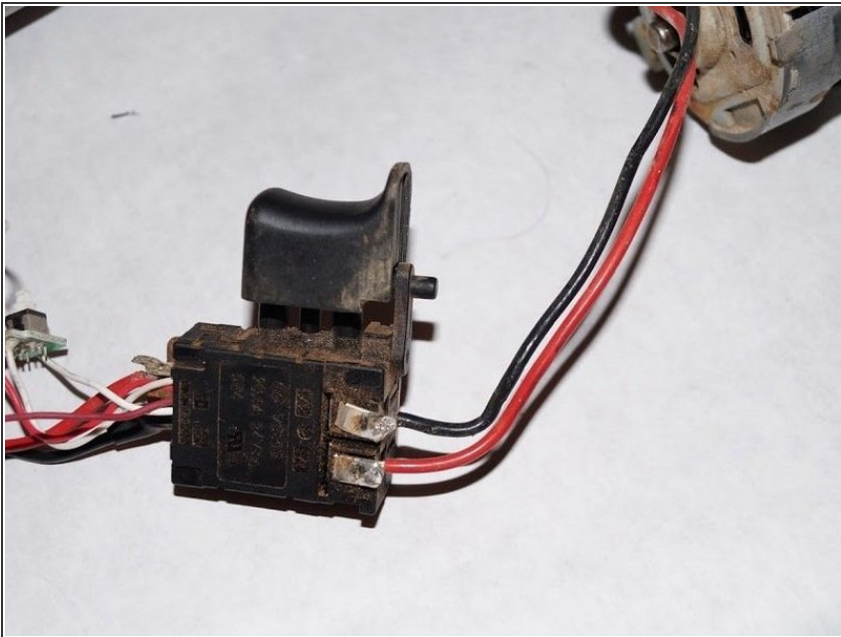
- Carefully remove the motor making sure not to harm any of the wires that are attached. Place motor gently out of the way.

## Step 9



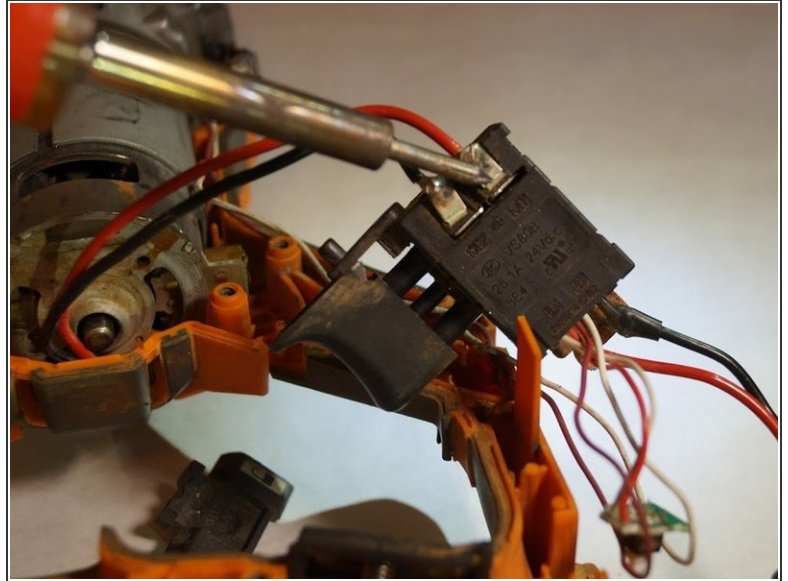
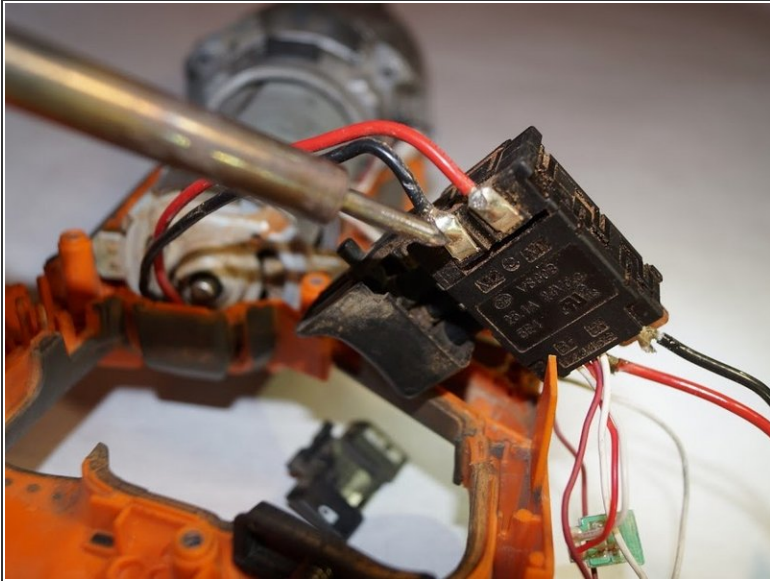
- Remove the plastic wire covers to the red and black connections on the switch assembly.
- ❗ When you remove the wire covers, you should be able to see the solder on the wires.
- [Desolder the connections](#) on both the red and black wire using a soldering iron.
- Once the solder is removed, pull out the wires with the battery port attached to the wires.

## Step 10



- Remove the soldered connection from the switch assembly.

## Step 11



- [Solder](#) both connections of the new motor replacement to the switch assembly.

To reassemble your device follow these instructions in reverse order.