



DeWalt DCS380 Motor Brush Replacement

Replacement of motor brushes and housing.

Written By: Jonathan Hicks



INTRODUCTION

This guide details replacement of the upper motor armature containing the brushes and main power connectors.



TOOLS:

- [Small Needle Nose Pliers](#) (1)
- [T10 Torx Screwdriver](#) (1)
- [T15 Torx Screwdriver](#) (1)
- [T20 Torx Screwdriver](#) (1)



PARTS:

- [Motor Armature](#) (1)

Step 1 — Removing shoe and boot.



- ⓘ Remove the battery before disassembly.
- Remove the shoe by pressing the yellow button on the left side of the hand grip.

Step 2



- Remove the two M8x18mm T20 bolts from the front plate.

Step 3



- Pull the front of the grip while holding the saw body in place.

Step 4 — DeWalt DCS380 Grip Disassembly



 Remove the battery before dissassembly.

- Remove the M3x16mm T10 screw from the back of the grip. Keep it separate from the rest of the grip screws
- Remove the six M3.63x19 T15 screws from the grip.

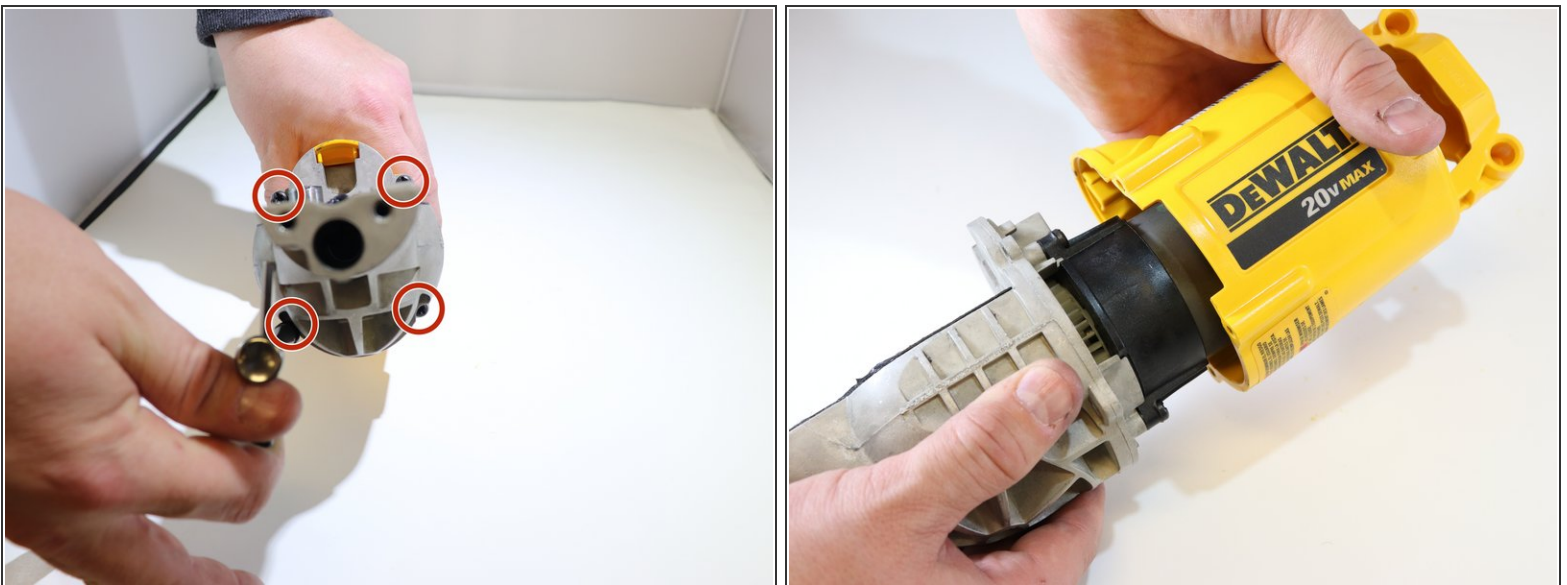
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Step 5



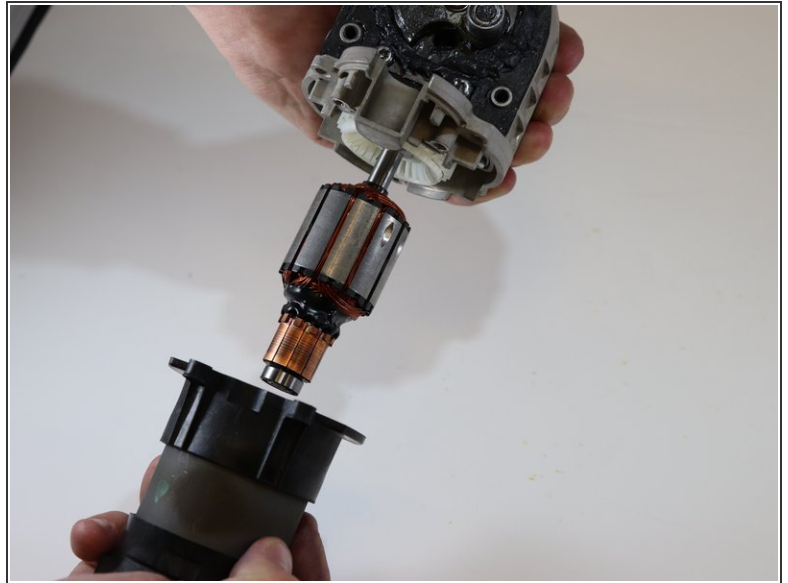
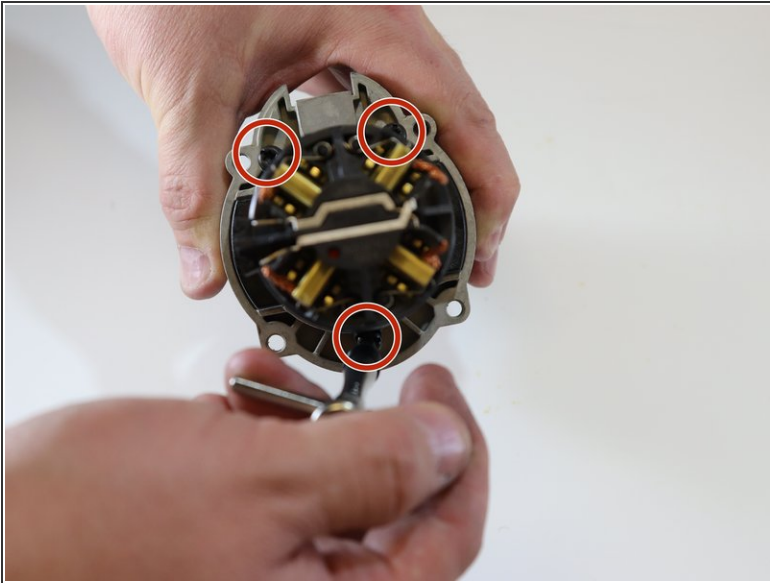
- Remove the top half of the grip.
 - Turn the saw over and locate the power connectors to the motor.
 - Use needle nose pliers to remove the spade connectors. Take care not to grab the wires on removal, only the end of the spade terminal.
- ⚠ Note the polarity for the power connectors and be sure they are not reversed on reassembly.

Step 6 — Motor Brushes



- Remove four M8x32mm T20 bolts from the base of the gearbox.
- Pull the gearbox and motor out of the center housing.

Step 7



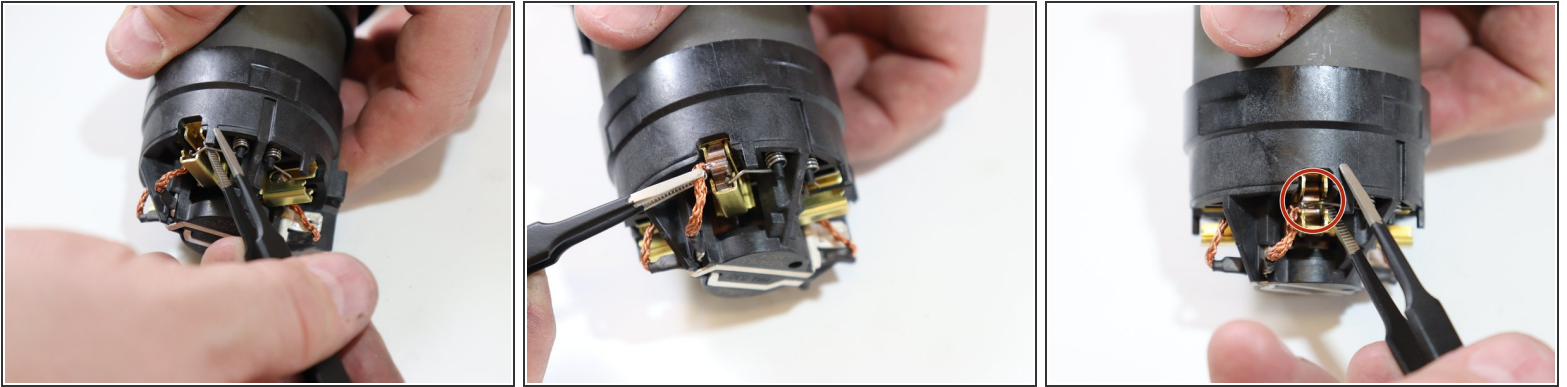
- Remove three M8x18mm T20 bolts from the back of the gearbox.
- Pull the motor armature out of the casing.
- ☞ Note which side the power terminals are on. They will need to face the same way during reassembly.

Step 8



- Remove two M3.63x60mm T10 bolts from the inner edge of the motor case.
- Pull the brush housing off the top, leaving the bottom half in place.

Step 9



✦ This step is for reassembly of the motor.

- Use tweezers to unload the springs from the new set of brushes.
- Pull the brush heads back as far as the casing will allow.
- Reload the springs after the armature has be re-seated.

⚠ Do not force the armature into the case. With all the brushes pulled back, it should slide in smoothly. Forcing the armature past the brushes can damage them or render them inoperable.

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