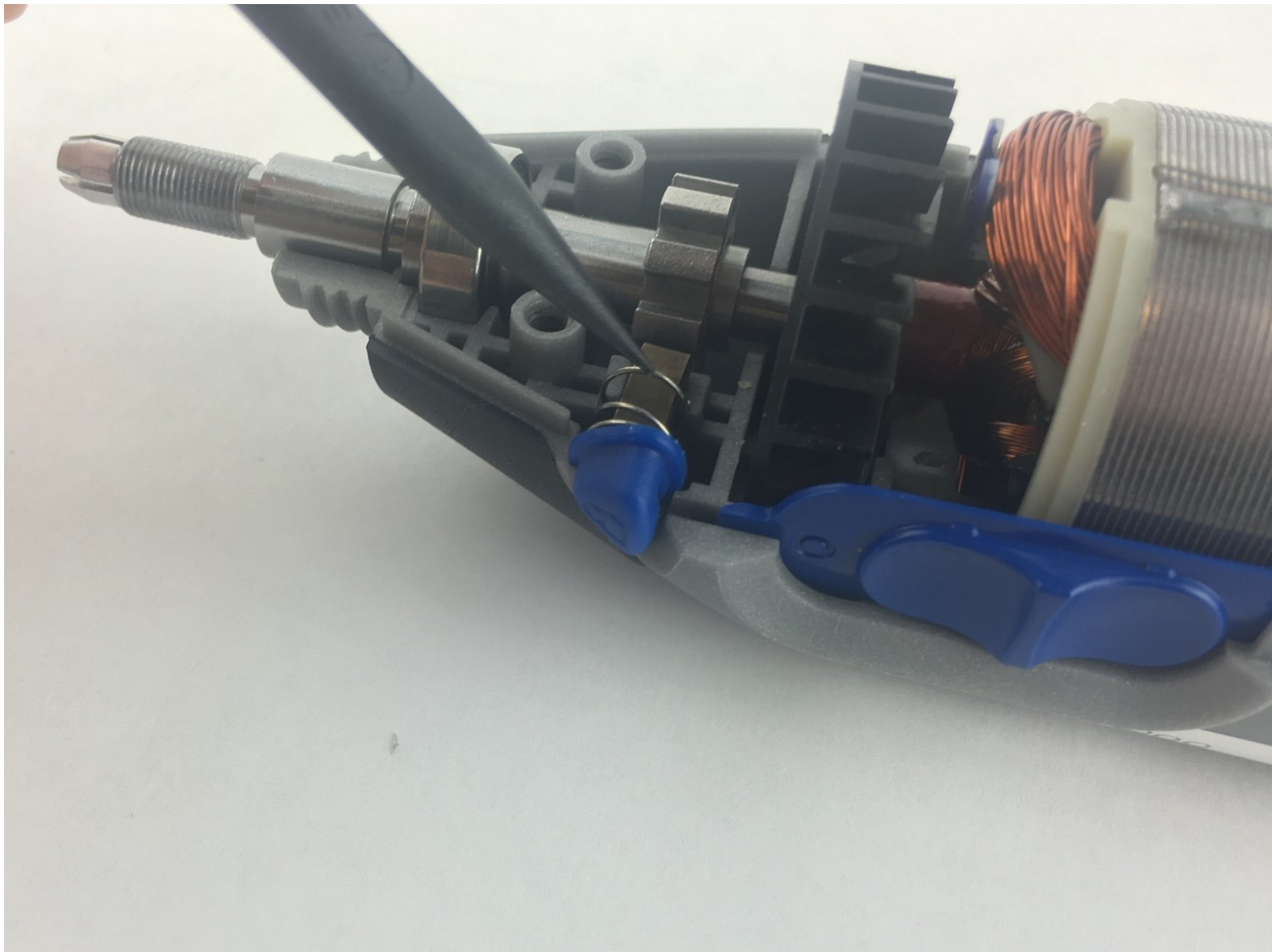# Dremel 4000 Shaft Lock Pin Replacement

This guide will detail how to remove and replace the shaft lock pin on the Dremel 4000.

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INTRODUCTION

This is likely the simplest repair possible for this device. Simply access the shaft lock pin after opening the case.

🔧 **TOOLS:**

- T15 Torx Screwdriver (1)
- Flathead 3/32" or 2.5 mm Screwdriver (1)
- iFixit Opening Tools (1)

⚙ **PARTS:**

- Shaft Lock Pin (1)

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Step 1 — Back Case

- Start by removing the housing cap by unscrewing it.

- Next, unscrew the now exposed collet nut while holding down the shaft lock button.
  - (i) To remove the collet nut, you may need to use the small open-end wrench provided with the Dremel.

Step 2

- Using your hands, carefully remove hanger from casing.

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Step 3

- Remove the brush caps (one on each side) by using a flathead screwdriver bit.
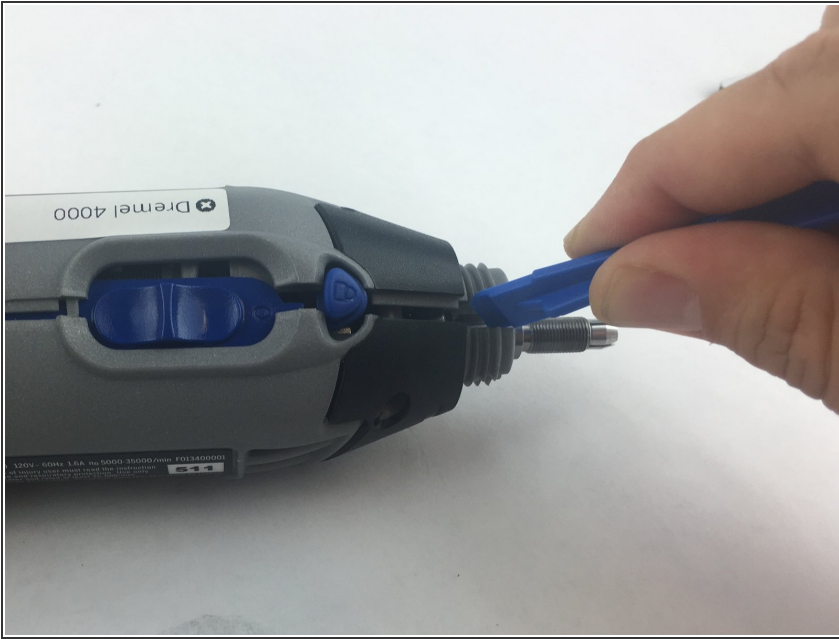 - ⓘ The brush caps are spring loaded.

Step 4

- Using the Torx 15 screwdriver tip, remove the 5 screws (12.5 mm) that hold the casing together.
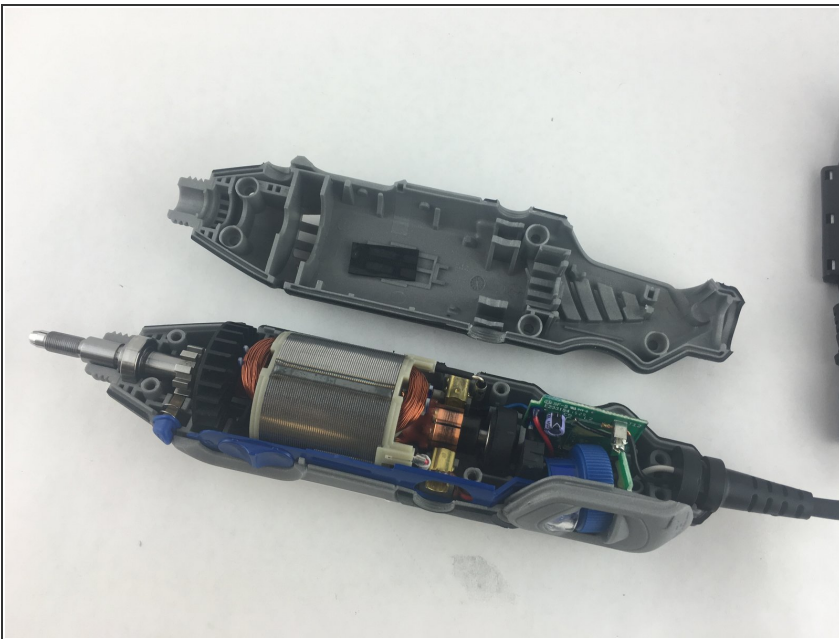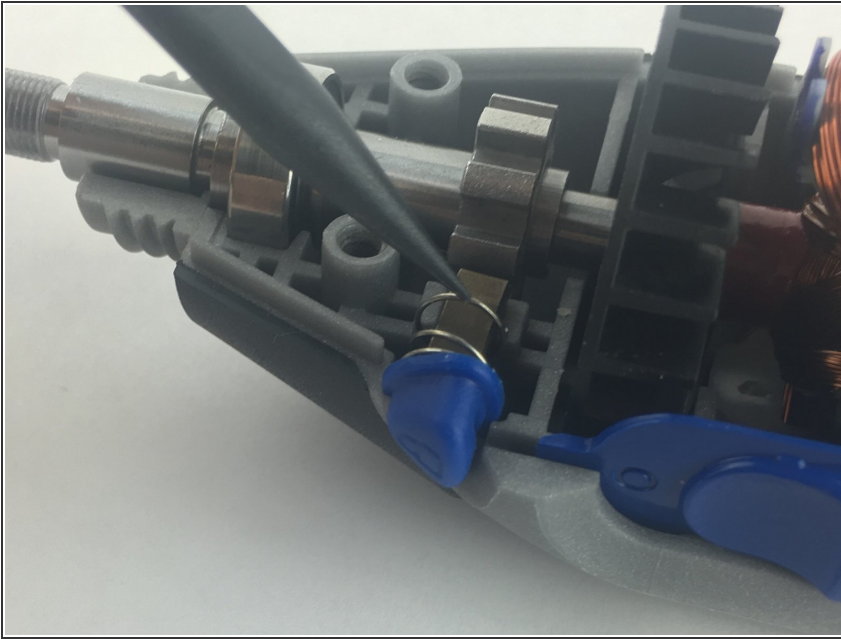
Step 5

- Use a plastic opening tool to gently wedge apart the hard plastic threads.

Step 6

- Use your hands to carefully remove the back casing so that none of the components fall out.

Step 7 — Shaft Lock Pin

- If the shaft lock pin is not engaging the rotary gear, or if the spring is missing or damaged, it will need to be replaced.

- Remove the damaged shaft lock pin and spring by hand.

- ⊡ Place new shaft lock pin so that the spring functions and the lock engages the rotary gear.

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

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