



# Mac Pro Late 2013 Fan Replacement

Replace the Fan in your Mac Pro Late 2013.

Written By: Andrew Optimus Goldheart



## INTRODUCTION

The Mac Pro is cooled by a single centrifugal fan. Use this guide to remove the fan for cleaning or replacement.

### TOOLS:

- [T4 Torx Screwdriver](#) (1)
- [T10 Torx Screwdriver](#) (1)
- [Spudger](#) (1)
- [T7 Torx Screwdriver](#) (1)
- [Tweezers](#) (1)

## Step 1 — Outer Case



- Slide the lock switch to the right, to the unlocked position.

## Step 2



- Lift the outer case straight up off the Mac Pro.

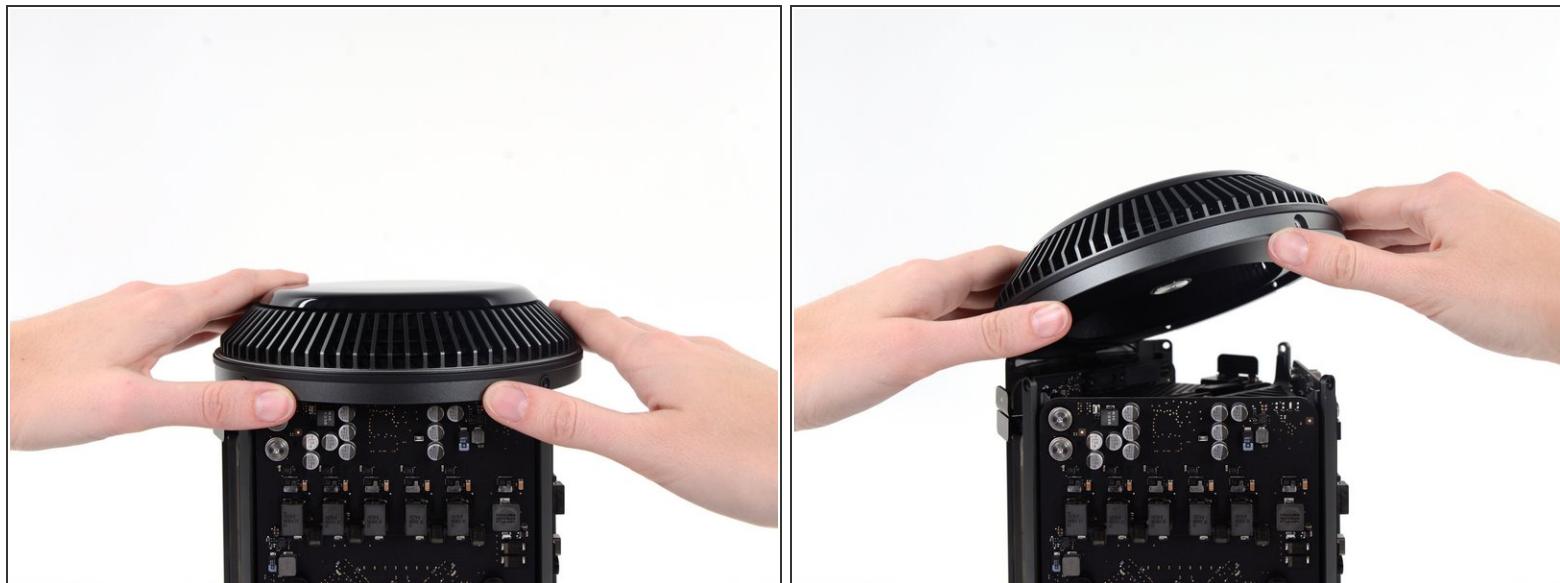
*(i)* It may help to push down on the center of the fan while lifting the case up.

## Step 3 — Fan Assembly



- Remove five 5.1 mm T10 Torx screws from around the outer perimeter of the fan assembly.

## Step 4



- The fan assembly is attached to the rest of the computer by two cables on the IO board side.
- Tilt the assembly up away from the IO board.

**⚠** Do not try to remove the fan assembly yet, as it is still attached by two cables.

## Step 5



- While supporting the fan assembly with one hand, loosen the two T7 captive screws in the fan cable bracket.

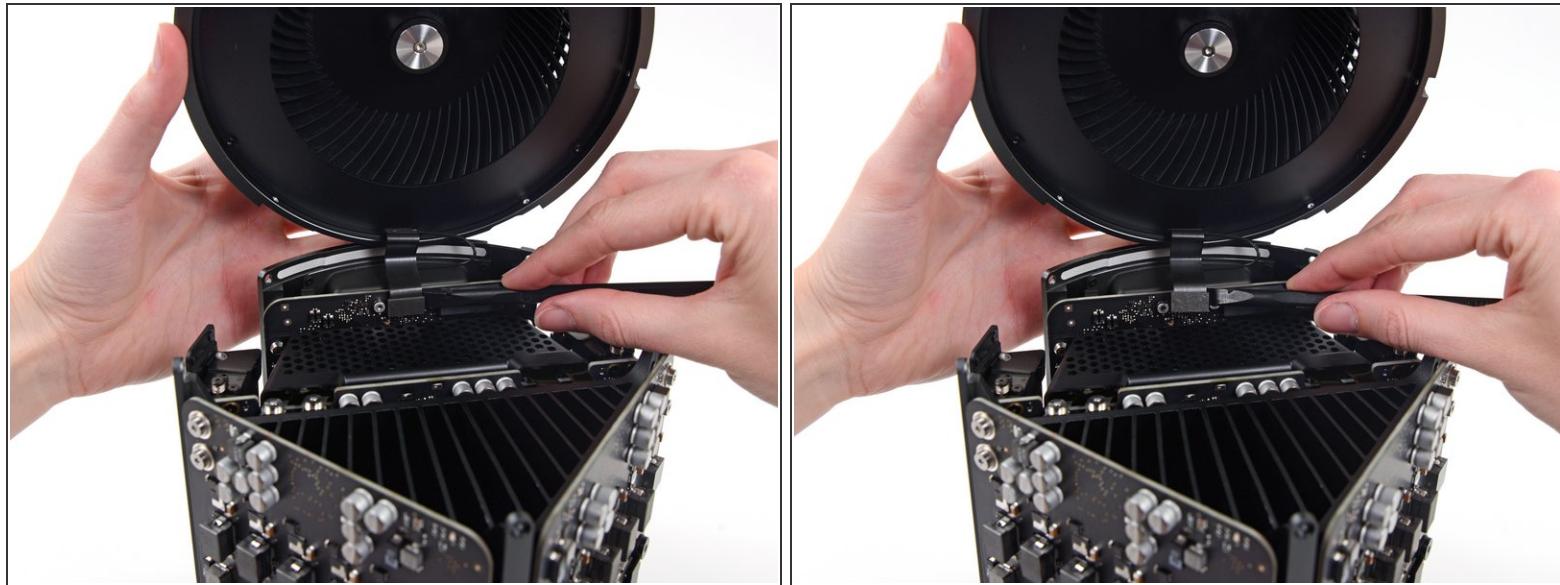
**⚠** These screws are captive in the Mac Pro. Do not try to remove these screws from your Mac Pro.

## Step 6



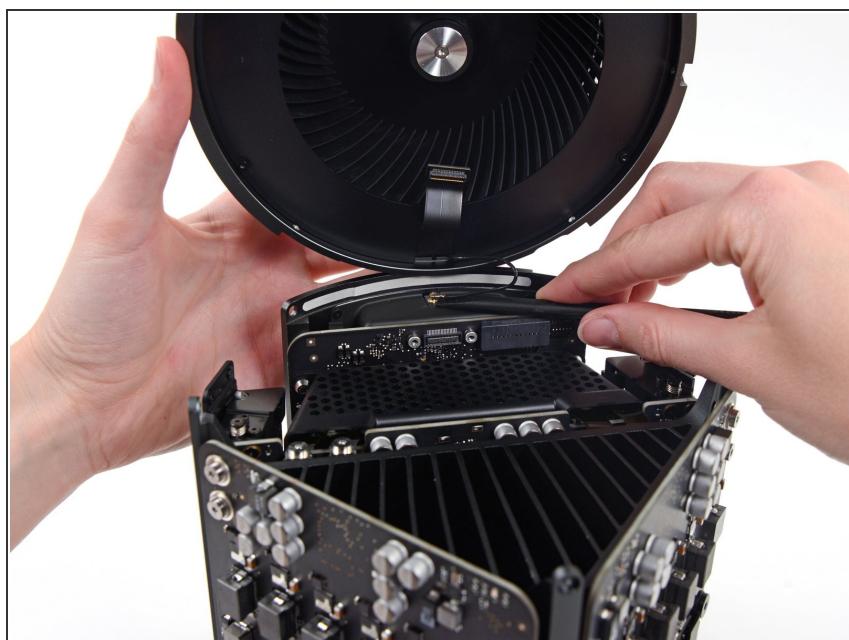
- Use a pair of tweezers to pull the fan cable bracket away from the fan assembly.

## Step 7



- Use the flat end of a spudger to disconnect the fan assembly ribbon cable from the IO board.

## Step 8



- Disconnect the fan assembly antenna cable from the IO board.
- Remove the fan assembly from the Mac Pro.

## Step 9 — Fan Assembly Lid



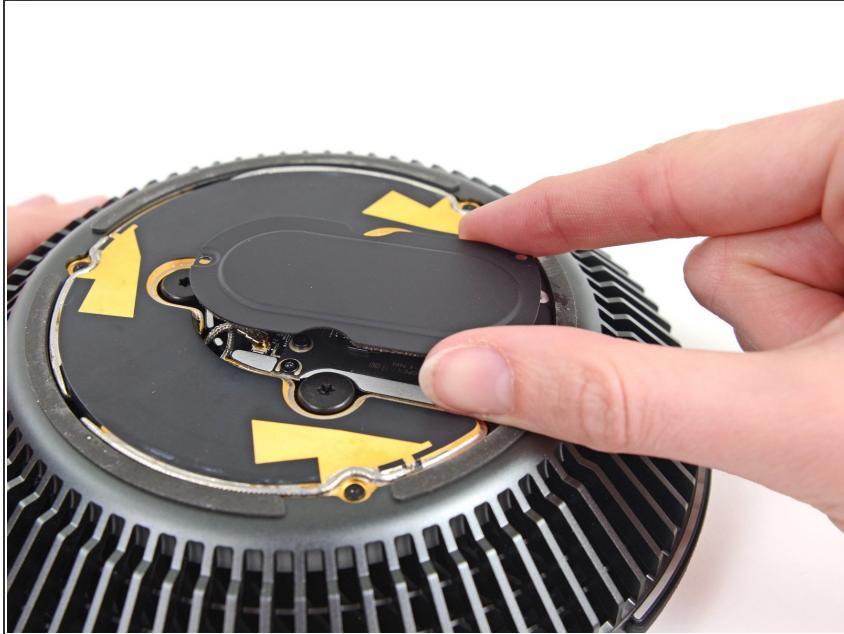
- Use the flat end of a spudger to pry the fan assembly lid up off the fan assembly.
- Remove the fan assembly lid.

## Step 10 — AirPort Board



- Remove the three 3.7 mm T4 screws securing the metal cover to the AirPort board bay.

## Step 11



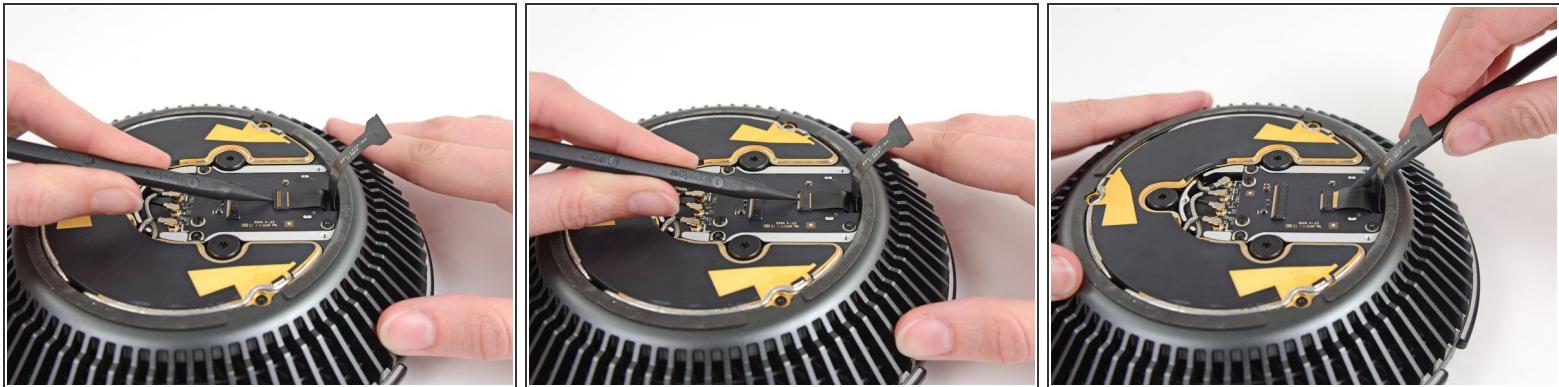
- Lift and remove the metal cover from the AirPort board bay.

## Step 12



- Use the tip of a spudger to flip the ZIF retaining tab on the fan assembly ribbon cable connector.
- Remove the fan assembly ribbon cable from its ZIF socket.

## Step 13



- Use the tip of a spudger to flip the ZIF retaining tab on the fan ribbon cable.
- Disconnect the fan ribbon cable.

## Step 14 — Fan



- Remove the three 3.7 mm T4 screws securing the fan bezel to the fan assembly.

## Step 15



- Remove the fan bezel.

## Step 16



- Remove the following screws from the top of the fan assembly:
  - One 10.4 mm T10 screw
  - Three 3.7 mm T4 screws

## Step 17



- Flip the Airport board over.

## Step 18



- Remove the remaining two 10.4 mm T10 screws securing the fan to the fan assembly.

## Step 19



- Lift the fan assembly up from the fan.

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