



Radeon RX 580 Video Card Fan Replacement

Use this guide to replace a malfunctioning or...

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INTRODUCTION

Use this guide to replace a malfunctioning or noisy cooling fan in your AMD Radeon RX 580 graphics card.

The cooling fan is an essential component that keeps the GPU cool. If the fan doesn't work, the GPU can get too hot and get damaged. A failing fan can lead to symptoms such as increased system temperatures, reduced graphical performance, and system crashes. In extreme cases, a malfunctioning fan may cause the graphics card to shut down entirely to prevent hardware damage.

Before proceeding with this guide, the issues might be due to dust accumulation or minor obstructions, which can be resolved without a full fan replacement.

The Radeon RX 580's cooling system is designed to handle rigorous gaming and multimedia tasks. If you notice a drop in performance or unusual sounds coming from the fan, it may be time to consider a replacement. This graphics card typically employs dual fans for optimal cooling, and this guide covers the steps to replace both.

Always ensure your data is backed up, especially if you're working on a primary system. While this guide focuses on the graphics card, it's a good practice to take precautions. Power off your system entirely and disconnect it from any external power sources before starting the replacement.



TOOLS:

[Phillips #1 Screwdriver](#) (1)



PARTS:

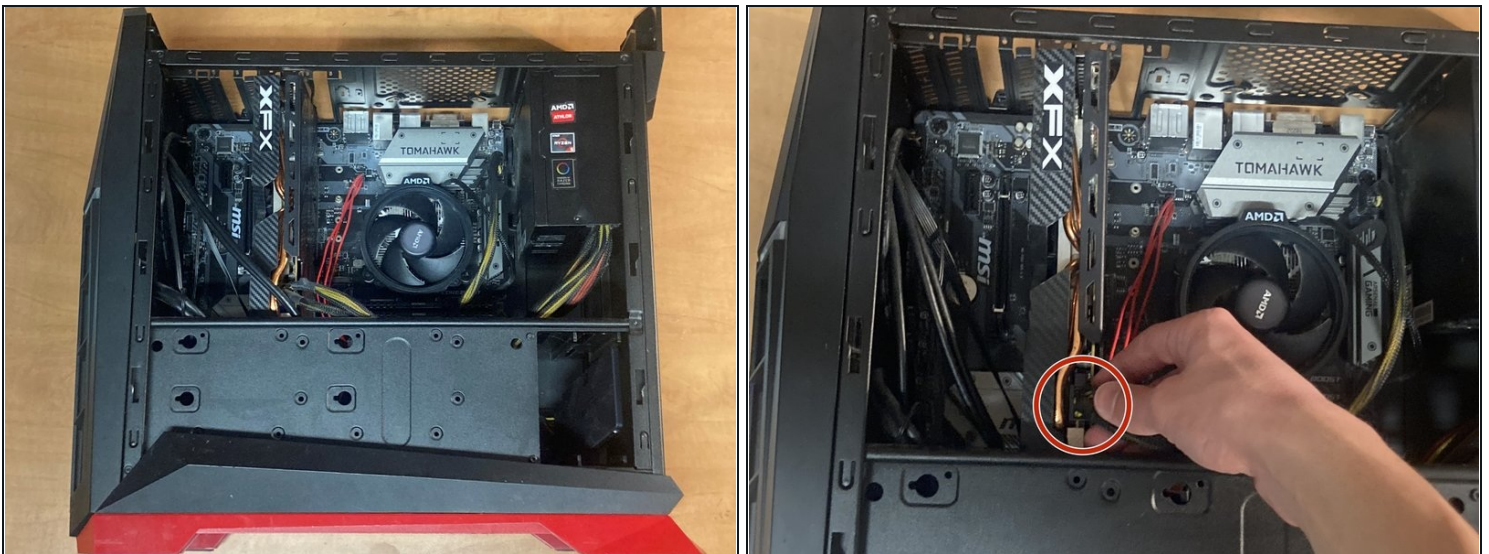
[RX580 fan](#) (1)

Step 1 — Remove the outer panels



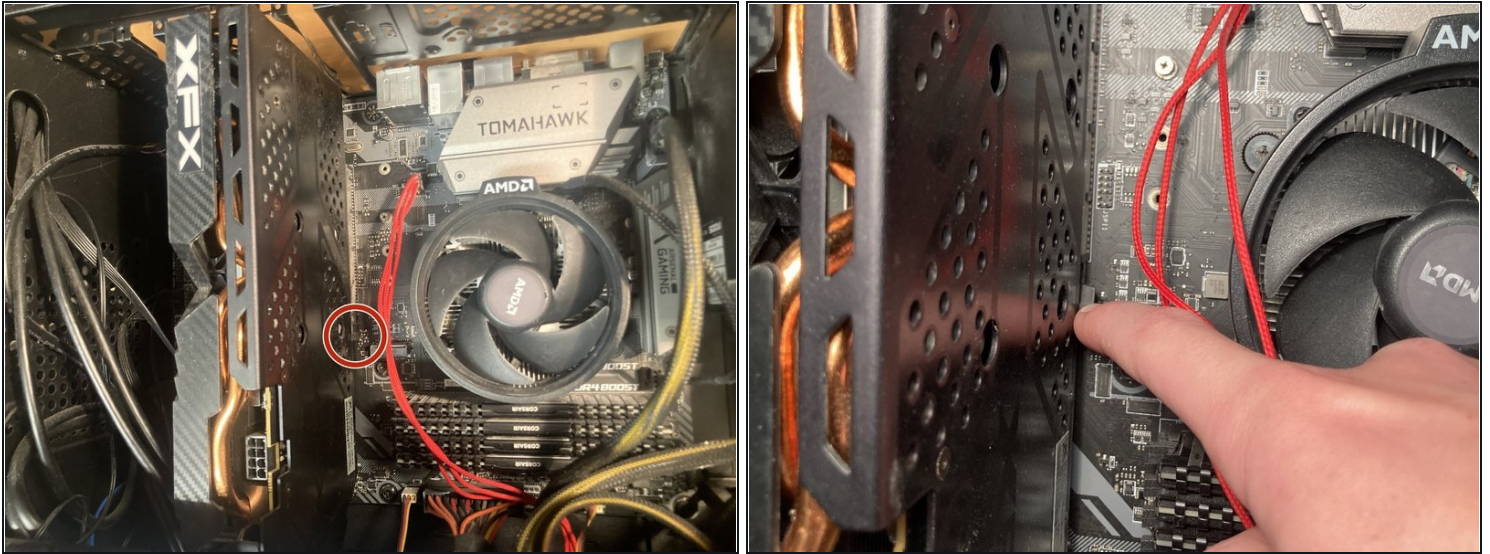
- Lay down the case so that the power button is on the far top right corner and is facing your right.
- Remove the top panel by pushing its ridgeline away from you and sliding it off of the case.
- Remove the side panel facing you by pushing its ridgeline away from you and lifting it off of the case.

Step 2 — Disconnect the GPU cable



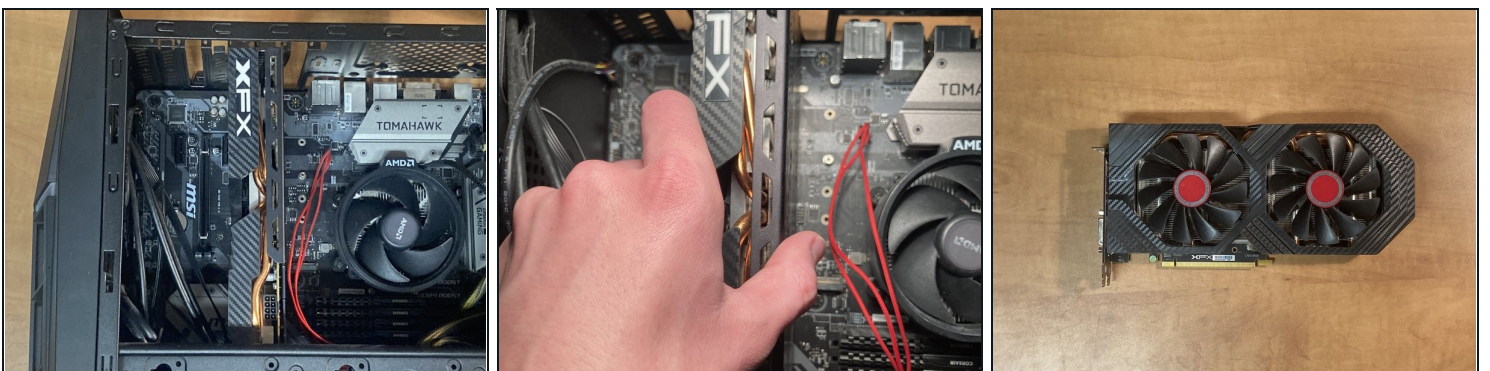
- To disconnect the GPU cable, use your thumb and index finger to unlatch the hooking device and pull the cable away.

Step 3 — Release from the motherboard



- Gently and carefully press down on the release mechanism on the PCIe slot of the graphics card.
- ① You should hear a click which will indicate proper release from the motherboard (in this case a Tomahawk B450).
- ⚠ Do not touch the motherboard with your hands or any other device. It may result in a short.

Step 4 — Take the card out



- Remove the graphics card from the motherboard by applying back pressure to the card.
- ① Use both hands in this process as the card can be quite heavy.
- ① Be sure to set the graphics card on a non-static surface, such as a wooden table.

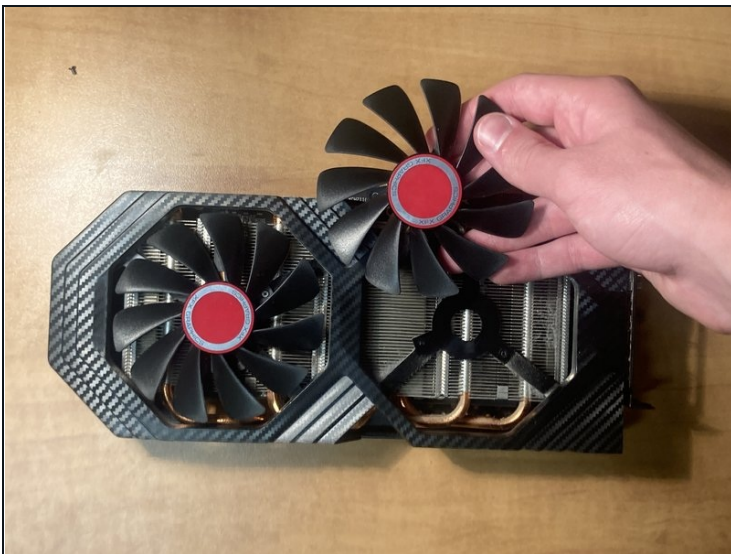
Step 5 — Unscrew both fans



- Remove the six 1.8 mm screws holding both fans in place by using a Phillips #1 screwdriver in-between the fan blades as the screws are located behind the fans.

⚠ Do not touch the heat sink with your screwdriver as it may cause substantial damage to the system.

Step 6 — Remove both fans



- Remove the fans by applying back pressure.
- Unplug the individual fans from the graphics card.

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