

# Step-by-Step Guide: Removing an Antminer S9 Fan

## Introduction

Before beginning any work on your Antminer S9, ensure you follow safety precautions. This guide explains how to safely remove a fan from your Antminer S9. Whether you're troubleshooting, cleaning, or replacing a faulty fan, these steps will help you perform the task methodically.

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## Materials and Tools Needed

- **Antminer S9 unit**
  - **Phillips-head screwdriver**
  - **Anti-static wrist strap** (to prevent static damage)
  - **Plastic prying tool** (optional, for gently lifting parts)
  - **Replacement fan** (if you plan to install a new one)
  - **Clean, well-lit workspace**
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## Step 1: Power Down and Unplug

- **Turn Off:** Shut down the Antminer S9 using its power switch or by disconnecting it from the network.
  - **Unplug:** Disconnect the power supply to ensure there's no electrical current.
  - **Cool Down:** Allow the miner to cool if it was recently in operation.
  - **ESD Precautions:** Wear an anti-static wrist strap and work on an ESD-safe surface.
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## Step 2: Locate the Fan to be Removed

- **Identify:** The Antminer S9 typically has two fans. Determine which fan you need to remove (for cleaning, troubleshooting, or replacement).

- **Inspect Mounting:** Note how the fan is attached (usually with screws and a power connector).
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## Step 3: Remove the Fan Screws

- **Unscrew:** Use your screwdriver to remove all screws holding the fan in place.
  - **Keep Screws:** Set the screws aside in a safe place so they can be reused during reassembly.
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## Step 4: Remove the Fan Guard

- **Lift Off:** Once the screws are removed, gently remove the fan guard.
  - **Free Stuck Parts:** If the fan feels stuck, gently wiggle it until it releases. Take care not to damage adjacent components.
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## Step 5: Remove the Fan

- **Lift Off:** Once the fan guard is removed, gently remove the fan out of its mounting.
  - **Free Stuck Parts:** If the fan feels stuck, gently wiggle it until it releases. Take care not to damage adjacent components.
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## Conclusion

By following these steps, you should now have successfully removed the fan on your Antminer S9. Regular maintenance—such as cleaning and checking connections—can help maintain optimal performance and prolong the life of your mining hardware.

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## References

[youtube.com](https://www.youtube.com)

– "Antminer L3/S9 Noctua Fan Upgrade Guide" (YouTube)

[bitcointalk.org](https://bitcointalk.org)

– Discussion on fan orientation and basic removal tips from Bitcoin forums

