

BlackMagic ATEM Television Studio Quiet Fan Upgrade

The BlackMagic ATEM Television Studio Switcher has a terribly bad design with a loud fan. This procedure will help you upgrade your device.

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INTRODUCTION

The BlackMagic ATEM Television Studio Switcher has a terribly bad design with a loud fan. This procedure will help you upgrade your device to make is quiet.

WARNING - THIS WILL VOID YOUR WARRANTY!

[video: https://youtu.be/tCo3eqLtveE]



TOOLS:

- Soldering Workstation (1)
- Heat Gun (1)
- Small Round Nose Pliers (1)
- Phillips #1 Screwdriver (1)



PARTS:

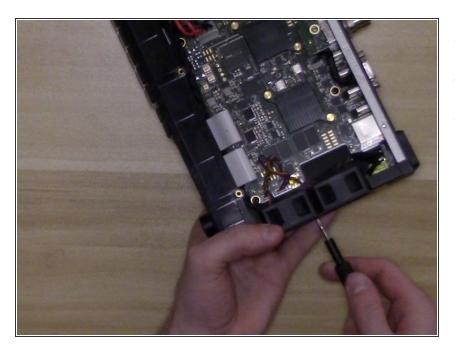
- Heat Shrink Tubing Assortment (1)
- Noctua NF-A4x20 PWM Premium-Quality Quiet 40mm Fan (2)
- Solder (1)

Step 1 — Unscrew the Outer Case



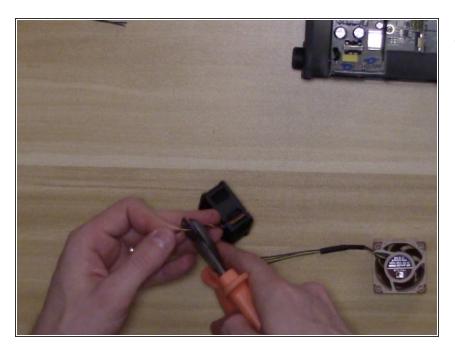
- 2 Screws on each side
- 6 Screws on top

Step 2 — Remove Fans



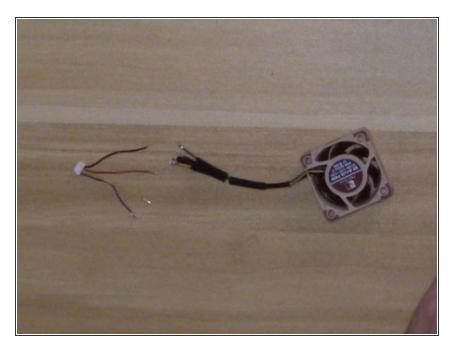
- Remove Both Fans
- 2 Screws each
- 1 Pull cable each

Step 3 — Cut Off Connector from both the olds and new fans



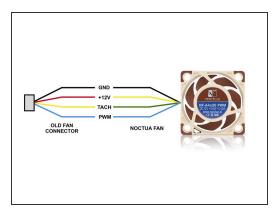
 Leave some length to solder with and to reach connector on main board.

Step 4 — **Prep Fan Wires and Connector Wires**

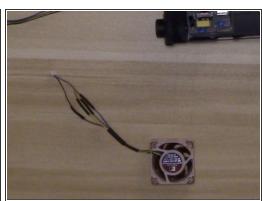


 Strip Wires, Tin Wires, and prep by adding heat shrink tubing on wires (before shrinking).

Step 5 — **Solder Connecter to Fan**







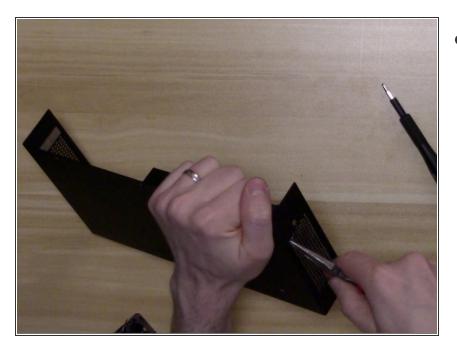
- For Both Fans
- Solder the new fan to the old connector using the following pinout.
- Adjust heat shrink tubing so it covers the solder joints and use heat gun to shrink tubing.

Step 6 — Re-assemble fans to device with fan label facing out



 Re-assemble fans to device with fan label facing out.

Step 7 — OPTIONAL - Use Small Round Nose Pliers to break off case grill to make fan even quieter



 OPTIONAL - Use Small Round
Nose Pliers to break off case grill to make fan even quieter.

Step 8 — Re-Assemble Case



Re-Assemble Case

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

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