



IBM Travelstar DJSA-220 2.5" Hard Drive Teardown

Today I will be taking apart a dead IBM Travelstar DJSA-220 20GB/GO Hard drive which was in a PowerBook G3 Firewire.

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INTRODUCTION

In this teardown, i will disassemble a dead IBM Travelstar DJSA-220 20 GB hard drive which was in a PowerBook G3 Firewire.

TOOLS:

- [T4 Torx Screwdriver \(1\)](#)
- [T6 Torx Screwdriver \(1\)](#)
- [T8 Torx Screwdriver \(1\)](#)

PARTS:

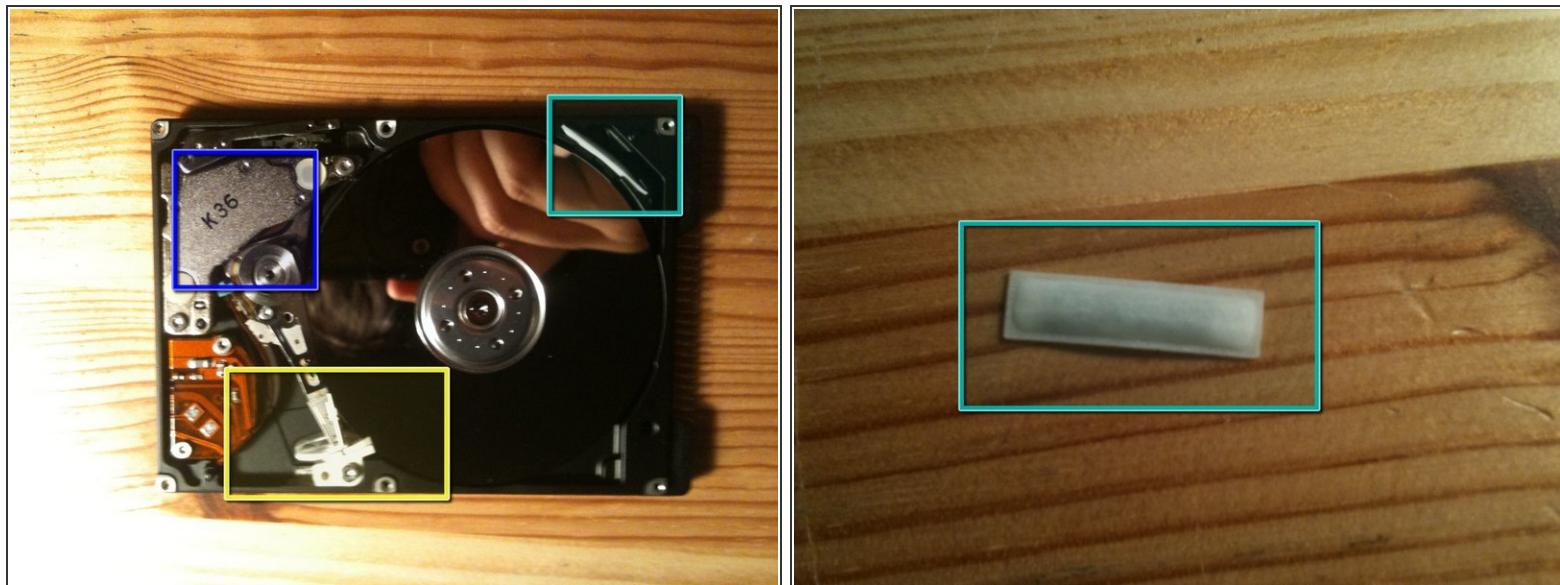
- [20 GB 9.5mm ATA Hard Drive \(1\)](#)

Step 1 — IBM Travelstar DJSA-220 2.5" Hard Drive Teardown



- My Victim: a dead IBM Deathstar DJSA-220
- 20.00GB ATA/IDE
- 5V 500mA
- 4200RPM
- Original Apple OEM!
- Let's remove the 7 T6 screws!

Step 2 — The Opened Drive



- The disc surface is mirror-like. You can even see my iPhone 3GS!
- Parts Of The Device
 - Heads.
 - Head Motor
 - A little bag that absorbs humidity.

Step 3 — Taking off the Logic Board



- Turn the disc over and remove the 7 T4 screws.
- Then comes the logic board.

ⓘ The black tape is only foam. It doesn't stick.

- Contacts for data transfer and head control
- Contacts for motor power

⭐ If my scanner wants to work again, i'll post a high res scan of the board.

Step 4 — Looking at the Drive



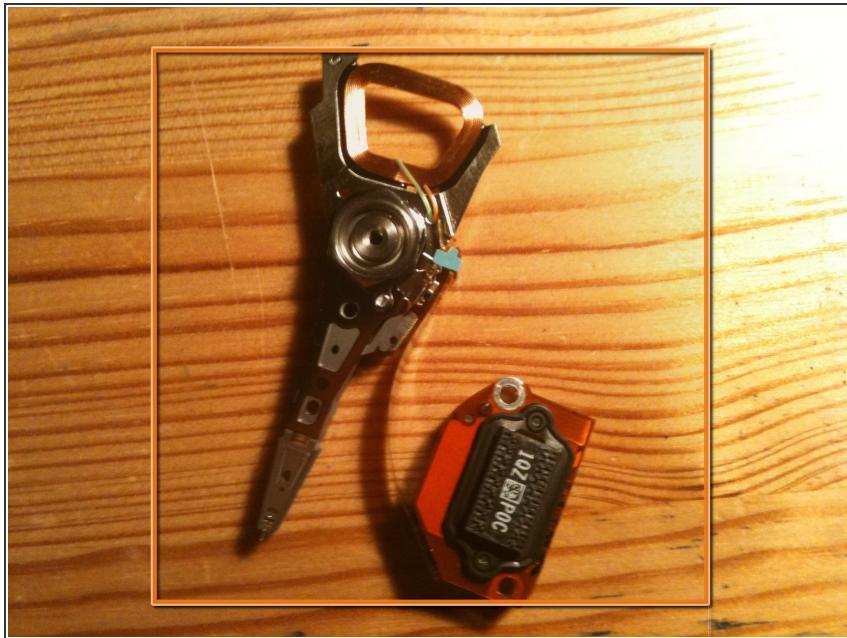
- You now see the back, without the logic board.
- Heads connector, transfers head-moves commands and data to store and read
- Motor connector, brings power to move the discs at 4200RPM

Step 5 — Let's attack the inside!



- Let's attack the inside!
- remove the two T6 screws.
- This piece is a powerful magnet!
- This is a PCB with a ribbon cable stucked on it
- Remove the two T6 screws.
- The screw is on the back, T6 too.
- I was unable to remove that T8 screw that holds the platters. They keep turning with my screwdriver and i couldn't block it strong enough.

Step 6 — The Head



- The head with its connector.

Step 7 — All Done



- Done!
- The Screws:
 - 7 T4 screws.
 - 13 T6 screws.
 - 1 T8 screw
- There are more screws in this hard disc than in a new MacBook!

 Thank you for reading my first teardown :-)

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